

RESEARCHES OF THE DEPARTMENT OF TERRESTRIAL MAGNETISM

VOLUME XIV

M. A. TUVE, Director
J. A. FLEMING, Director
(Retired June 30, 1946)

Cosmic-Ray Results from Huancayo Observatory,
Peru, June, 1936 - December, 1946

Including Summaries from Observatories at Cheltenham,
Christchurch, and Godhavn through 1946

ISABELLE LANGE
S. E. FORBUSH

CARNEGIE INSTITUTION OF WASHINGTON PUBLICATION 175
WASHINGTON, D. C.
1948

RESEARCHES OF THE DEPARTMENT OF TERRESTRIAL MAGNETISM

VOLUME XIV

M. A. TUVE, Director
J. A. FLEMING, Director
(Retired June 30, 1946)

**Cosmic-Ray Results from Huancayo Observatory,
Peru, June, 1936 - December, 1946**

**Including Summaries from Observatories at Cheltenham,
Christchurch, and Godhavn through 1946**

ISABELLE LANGE
S. E. FORBUSH

CARNEGIE INSTITUTION OF WASHINGTON PUBLICATION 175
WASHINGTON, D. C.

1948

Lithoprinted from copy supplied by author
by
Edwards Brothers, Inc.
Ann Arbor, Michigan, U.S.A.

December, 1948

PREFACE

In December, 1932, President Merriam of the Carnegie Institution of Washington appointed J. A. Fleming, W. S. Adams, and F. E. Wright as a Committee on Co-Ordination of Cosmic-Ray Investigations, to consider co-ordination of continued support of cosmic-ray research by the Institution. In its first report, the Committee emphasized the need for a more precise series of continuous and simultaneous records of cosmic-ray intensity at several locations and indicated the desirability of locating the cosmic-ray recording stations at or near existing magnetic observatories where continuous registration of terrestrial magnetism and other geophysical phenomena was being obtained.

The construction of several precision recording cosmic-ray meters, based on a design developed jointly by Professor R. D. Bennett, Massachusetts Institute of Technology, and Professor A. H. Compton, was undertaken for the Committee by Professor Compton and his colleagues at the University of Chicago. By the middle of 1935, seven meters had been constructed and tested.

As planned by the Committee, five of these meters, Model C, were installed at the following observatories where continuous registration began at the dates indicated: Cheltenham Magnetic Observatory, Cheltenham, Maryland, Meter No. C-1, March, 1935; Huancayo Magnetic Observatory, Huancayo, Peru (South America), Meter No. C-2, June, 1936; National Astronomical Observatory, Teoloyucan, D. F., Mexico, Meter No. C-4, February, 1937; Christchurch Magnetic Observatory, Christchurch, New Zealand, Meter No. C-5, June, 1936; and Godhavn Magnetic Observatory, Godhavn, Greenland, Meter No. C-6, October, 1938.

The two remaining meters have been used mainly for special investigations such as latitude surveys in the Atlantic [1] and Pacific [2]. One of these meters is now about to start operating at the University of Puerto Rico, and the other is operating for special investigations at Climax, Colorado.

From the initiation of the program until July, 1946, funds for carrying out the construction of meters, their installation, operation, and maintenance, and for assistance in the reduction of data were provided chiefly by grants from the Carnegie Corporation of New York to the Carnegie Institution of Washington for various cosmic-ray researches administered by the Committee.

The installation, operation, and maintenance of the five stations would not have been possible without the generous and enthusiastic co-operation of many individuals and several organizations. Grateful acknowledgment is therefore made to: (1) the Director, United States Coast and Geodetic Survey for providing housing for the meter at Cheltenham Magnetic Observatory, and to the members of the staff of that observatory for efficient operation and maintenance of the equipment; (2) the Director of the National Astronomical Observatory of Mexico, for invaluable assistance in the construction of housing for the meter and for its maintenance and operation; (3) the Director, Magnetic Survey Division, Department of Scientific and Industrial Research of New Zealand, for making available its facilities at the Christchurch Magnetic Observatory, and to the Director and staff of that observatory for efficient operation and maintenance of the meter, particularly J. W. Beagley and V. B. Gerard, who effected much of the reduction of the cosmic-ray data from that station; (4) the Danish Government for transportation of equipment from Denmark to Greenland, for providing travel and living expenses for five months for V. Laursen, who supervised the construction of housing and installation of the meter, and for providing a generous grant for assistants, insurance, heat, and supplies at the observatory, and to the late Dr. la Cour for co-operation in effecting the installation and for designing the special housing suited to the climate at Godhavn; and (5) the staff of the Huancayo Magnetic Observatory, Department of Terrestrial Magnetism, Carnegie Institution of Washington, for operation and maintenance of the meter.

On July 1, 1947, the Huancayo Magnetic Observatory was transferred by gift of the Department of Terrestrial Magnetism to the Peruvian Government and has operated since under the title of "Geophysical Institute of Huancayo." Its control is vested in a Directive Committee of which Dr. J. A. Broggi, Director of the Geological Institute of Peru, is Chairman. Operation of the cosmic-ray meter has continued at Huancayo, with the records being forwarded to Washington.

Isabelle Lange and S. E. Forbush,
Department of Terrestrial Magnetism

CONTENTS

	Page
Introduction	1
Cosmic-ray meter installation	1
Description of cosmic-ray meter	1
Absolute ionization	2
Reduction of data	2
Description of tables	3
Huancayo Magnetic Observatory, Tables 1-142	3
Cheltenham Magnetic Observatory, Tables 143-167	4
Christchurch Magnetic Observatory, Tables 168-189	4
Godhavn Magnetic Observatory, Tables 190-207	4
Literature cited	5
Figures 1-12.	7
Tables 1-207.	15
Bibliography of published papers of analyses of data from Compton-Bennett cosmic-ray meters	182

COSMIC-RAY RESULTS FROM HUANCAYO OBSERVATORY, PERU, JUNE, 1936 - DECEMBER, 1946

INTRODUCTION

The Huancayo Magnetic Observatory was established in 1922 by the Department of Terrestrial Magnetism, Carnegie Institution of Washington. It is located at geographic latitude $12^{\circ}.0$ south and longitude $75^{\circ}.3$ west at an elevation of 3350 meters above sea level. The geomagnetic latitude of the observatory is $0^{\circ}.6$ south.

Details of requirements involved in choosing this site for a magnetic observatory and a description of the site and buildings are presented in Volumes X-A and X-B of "Researches of the Department of Terrestrial Magnetism" [3]. Along with a brief description of the complete program of scientific research at the observatory, these volumes include magnetic results for the period 1922 to 1944.

A recording cosmic-ray meter was installed at Huancayo Magnetic Observatory in June, 1936. The present volume gives cosmic-ray data from that time through December, 1946. Also included in this volume are summaries of data from Cheltenham Magnetic Observatory,

United States Coast and Geodetic Survey, for the period March, 1937, through December, 1946; Christchurch Magnetic Observatory, New Zealand, for the period April, 1936, through December, 1946; and Godhavn Magnetic Observatory, Greenland, for the period October, 1938, through December, 1946.

The Cheltenham Magnetic Observatory is located at geographic latitude $38^{\circ}.7$ north and longitude $76^{\circ}.8$ west, at an elevation of 72 meters above sea level. The geomagnetic latitude at this observatory is $50^{\circ}.1$ north.

The Christchurch Magnetic Observatory is at geographic latitude $43^{\circ}.5$ south and longitude $172^{\circ}.6$ east, at an elevation of eight meters above sea level. The geomagnetic latitude at this observatory is $48^{\circ}.6$ south.

The Godhavn Magnetic Observatory is located at geographic latitude $69^{\circ}.2$ north and longitude $53^{\circ}.5$ west, at an elevation of nine meters above sea level. The geomagnetic latitude at this observatory is $79^{\circ}.9$ north.

COSMIC-RAY METER INSTALLATION

Figure 1 is a view of the Huancayo Observatory, taken from the air, looking northwest. The cosmic-ray meter at Huancayo is installed in the building at the extreme left in this figure. Figure 2 is another aerial view of the observatory buildings, looking southeast, showing, at the far right, the building which houses the

cosmic-ray meter. Figure 3 is a closer view of this building. The meter is located in the left end of the building in Figure 3, in the portion with wooden walls which is at the right in Figure 4. Figure 5 shows cosmic-ray meter No. C-2 installed at Huancayo.

DESCRIPTION OF COSMIC-RAY METER

The instrument at Huancayo consists essentially of a spherical steel ionization chamber, volume 19.3 liters, filled with highly purified argon to 50 atmospheres pressure. Pure argon at high pressure gives larger ionization currents than any other gas; at 50 atmospheres the ionization is about 67 times that in air at normal pressure and temperature. The standard deviation of statistical errors arising from random arrival-times of individual rays is inversely proportional to the area of cross-section of the chamber. At Washington, from analysis of simultaneous hourly records from two Model-C meters, the standard deviation of statistical fluctuations in one hour's record from either of the instruments was found to be 0.7 per cent of the total ionization due to cosmic-rays.

A balancing current is supplied by ionization produced in a small auxiliary chamber, inside the sphere, by β -rays from metallic uranium (see Figure 6). Turning the micrometer rod to which the uranium is attached permits varying the rate of entry of β -rays into the balance chamber as a consequence of changes in the amount of shielding. The balance current can thus be made about equal, and opposite in sign through choice of sweep field, to the average ionization current produced in the main chamber by cosmic rays. This permits ample sensitivity for recording, on a photographic trace 60 mm wide, changes in ionization due to cosmic rays. This method of balancing also compensates for changes in ionization

which might result from changes in pressure or temperature of the gas. This compensation arises from the fact that the ionization current due to β -rays in the balance chamber is affected by changes in pressure and temperature in the same way as that due to cosmic rays in the main chamber.

Direct tests involving two meters showed that the meters are not affected by temperature. Tests also show that at the higher pressures, the balance is almost completely unaffected by changes in the pressure to which the chamber is filled. For this to be so, there must be negligible ionization in the main chamber due to α - and β -radiation from the walls, since this ionization will not increase with pressure as does that due to cosmic rays. Also, the dimension of the balance chamber must be so small that there is negligible absorption in the argon of the β -rays from the uranium. Shielding of the uranium with a thimble of aluminum 0.2 mm thick causes absorption of the α -particles and soft β -rays before they reach the balance chamber. There remain β -rays with a range of about 6 cm in argon at 50 atmospheres and some γ -rays. The β -rays traverse the balance chamber but are stopped within the 3 mm brass walls of the balance chamber. The γ -rays, which are not completely absorbed by the walls of the balance chamber, produce a small residual ionization in the main chamber which is proportional to the pressure and appears as a part of the zero correction.

It is known that the ionization in a closed chamber, filled with air at high pressure, increases with temperature because of less initial recombination of ions at the higher temperatures. In pure argon the initial recombination is small, and whatever small effect there may be is compensated by the balance arrangement.

Changes in ionization current due to changes in the applied potential are also compensated by the balance chamber, since both chambers show the same degree of saturation at the voltages (250 V) used.

Batteries supply the sweeping potentials for the main chamber and the balance chamber. The batteries are connected across a 2.6 megohms potentiometer, the variable center top of which is grounded. In this way induced charges due to battery fluctuations are eliminated, provided the insulation of the batteries, potentiometer, and ionization-chamber walls is high compared to 2.6 megohms. Elimination of induced charges on the collecting electrode from changes in the battery voltage also requires that the capacity coefficients C_1 and C_2 of the two chambers and the resistances r_1 and r_2 of the two arms of the potentiometer satisfy the relation: $r_1 C_1 = r_2 C_2$. By adjustment of the position of the balance chamber, C_1 and C_2 can be made very nearly equal. Balance is so effected that suddenly putting 500 volts across the potentiometer induces a negligible deflection of the electrometer.

The difference between the ionization currents in the two chambers is measured with a standard Lindeman electrometer housed in an airtight, dried chamber as shown in Figure 7. At hourly intervals, the key relay of Figure 8 grounds the central electrode for about three minutes. The collecting electrode thus remains insulated or floating for about 57 minutes of each hour. Once every four hours, for about one minute, a relay connects

the central electrode to a known potential which can be set by the voltmeter shown in Figure 8. Thus the electrometer sensitivity is automatically recorded. Electrometer sensitivities of the order of one quarter of the maximum sensitivity attainable insure stability.

As indicated in Figures 6 and 7, the shadow of the electrometer needle is projected through a compound microscope onto a strip of bromide paper 60 mm wide, moving 2 cm per hour for normal operation. The camera is shown at the top front in Figure 5. A roll of paper 18 m in length is adequate for a month of continuous record. Visual observations can be made at any time from an image of the electrometer needle which is projected onto a ground glass scale as shown in Figure 9.

In addition to the cosmic-ray ionization, the barometric pressure (except at Huancayo) from an aneroid barometer is also recorded. Notes may be written on the back of the bromide paper in dim light without affecting the records. Figure 10 shows cosmic-ray records from Huancayo for four days. The dark vertical lines are hour-marks put on by the observatory Landis time-control machine (instead of by the commutator of Figure 8 as at other stations). The upward slope of the electrometer trace in Figure 10 indicates that the balance current exceeds the cosmic-ray ionization current.

The meter is shielded by lead shot of uniform size which is equivalent to a layer of about 10.7 cm of solid lead. The total shielding, including the steel walls of the chamber, is equivalent to about 12 cm of lead, which practically effects complete shielding from any local radiations unless radioactive sources are brought near.

The meters used at Cheltenham, Christchurch, and Godhavn are essentially the same as the Compton-Bennett meter described for Huancayo.

ABSOLUTE IONIZATION

The absolute ionization, i_a , is determined from the relation $i_a = (i_1 + i_2)/2$ in which i_1 is the ionization current when the same potential is applied to the main chamber and to the balance chamber, and i_2 is the current when these potentials are of opposite sign. If i_a and i_b are the ionization currents, respectively, in the main chamber (due to cosmic rays) and in the balance chamber, then $i_1 = i_a + i_b$ and $i_2 = i_a - i_b$. However, any residual ionization in the chamber contributes to i_a . To determine the residual ionization, the meters were taken into a coal mine 110 meters below the surface where the cosmic-ray intensity was estimated from deep water experiments of Regener [4] to be about 0.2 per cent of that at the surface. With the meter fully shielded, $i_a = (i_1 + i_2)/2$ and $i_b = (i_1 - i_2)/2$ were meas-

ured for different settings of the uranium micrometer. Results for meter No. C-1 are shown in Figure 11. For normal operation, the setting of the uranium micrometer is about 20 turns for which the residual ionization is about 15 per cent of the ionization due to cosmic rays. From Figure 11, it is evident that most of this residual is probably due to γ -rays from the uranium. For meter No. C-2 at Huancayo, the correction for residual ionization was 12 ions $\text{cm}^{-3} \text{sec}^{-1}$ and the total ionization after deducting the residual was 133 ions $\text{cm}^{-3} \text{sec}^{-1}$ at 750 lb. in^{-1} argon pressure.

Further details regarding the design of the meter may be found in a paper by A. H. Compton, E. O. Wollan, and R. D. Bennett [5], from which much of the above description was taken.

REDUCTION OF DATA

For the Huancayo records from June, 1936, through February, 1941, hourly departures from balance were scaled to the nearest mm (sensitivity normally about 0.3 per cent in cosmic-ray ionization per mm). These scalings are the heights (in mm on the original records, which are 60 mm wide) of the ends of the hourly electrometer traces above the beginning of the hourly trace which is the position of the image of the electrometer needle when the collector system is earthed. Bursts,

which show as discontinuities in the trace (see, for example, 22-23 hours on bottom record of Figure 10) were scaled for the period June, 1936, through February, 1941, to the nearest mm if they were greater than 1.5 mm. Mean bihourly departures from balance (less bursts) were corrected for electrometer sensitivity to barometric pressure 510 mm Hg and 2.2 per cent added to obtain values in Tables 1-10, and 4.5 per cent added to obtain the values in Tables 11-57.

From March, 1941, the hourly departures were scaled directly to the nearest 0.1 per cent of the total cosmic-ray intensity. The scales were made photographically on lantern slides, one for each required electrometer sensitivity. The same scales were used for scaling all bursts of size 0.6 per cent or greater. This procedure not only greatly expedited the scalings but had the additional advantages that it eliminated numerical conversion of scalings in mm to per cent, and that all the burst scalings were thereby automatically normalized. On this account, only bursts after February, 1941, are included in the tables.

After these scalings were made, it was found advantageous to form the bihourly mean departures from balance, deduct bursts, and apply corrections for barometric pressure, using punched cards with calculating machines of International Business Machines (IBM) type.

From March, 1941, it was expedient to tabulate corrected bihourly mean values with 6.0 per cent added instead of the constants which had been added for the period June, 1936, through February, 1941. In each case, the additive constants eliminate numerous changes of sign of the values which otherwise would have been necessary.

Barometric pressures were obtained from the routine observatory tabulations of instantaneous pressures at each hour from an ordinary Richard barograph. Thus corrections for pressure for a bihourly mean departure from balance (less bursts) were based on instantaneous pressures on the hour at the center of the bihourly interval. For Huancayo, a barometric coefficient of -0.30 per cent in cosmic-ray ionization per mm Hg was adopted. There the daily mean barometric pressures change only a few mm Hg within a month, while the daily mean cosmic-ray intensity, after correction for pressure, may ordinarily change a few per cent during the month.

These changes in cosmic-ray intensity are due, at least in part, to a quasi-persistent [6] 27-day wave in cosmic-ray intensity which is correlated [7] (negatively) with a corresponding wave in magnetic activity. To mitigate the effect of these real changes in cosmic-ray intensity on the reliability of the determination of barometric coefficient, daily means were used only for selected intervals. The majority of intervals selected comprised four days; no interval was shorter than four days and few were as long as eight or nine days. The intervals selected were characterized by monotonic increases (or decreases) of the daily means of barometric pressure.

For each interval, the departures, from the average of the interval, of each daily mean pressure and ionization were obtained. The departures in pressure were ranked (by magnitude and sign) and averages of all departures in each rank-interval were derived for pressure and for ionization. These are plotted in Figure 12. Each circled point is based on the average of 61 departures and each of the remaining points on the average of about 30 departures. The indicated slope of the line was de-

termined by least squares giving all weight to the pressure departures [8]. A similar determination, in which the ionization departures were ranked according to size, resulted in a barometric coefficient of -0.68 per cent per mm Hg when all weight was given to the ionization departures. The large difference in the two barometric coefficients is due to the rather low ($r = -0.70$) correlation between pressure and ionization departures for single days. The reasons for giving all weight to pressure departures to obtain the adopted coefficient are discussed in reference [8].

The barometric coefficient used to correct the cosmic ray intensity to constant barometric pressure was the same for Cheltenham, Christchurch, and Godhavn, namely, -0.18 per cent per mm Hg. Separate determinations of the barometric coefficient were made independently for each of the stations but none differed significantly (± 0.01 per cent per mm Hg) from -0.18 per cent per mm Hg. Since these stations are all near sea level and none is near the equator, the barometric coefficients would not be expected to differ. Their agreement within the statistical uncertainty, about ± 0.01 per cent per mm Hg, thus provides a reasonable check on the over-all calibration of the three meters.

From April, 1936, to November, 1938, it was not found possible to prevent escape of argon from the meter at Christchurch. Argon was put into the bomb on several occasions so that the pressure was never less than about 600 lb. in^{-2} except from March to October, 1936, when it was between 350 and 450 lb. in^{-2} .

The only serious effect of loss of argon arose from the change in total ionization (proportional to the argon-pressure) and the consequent changes in effective sensitivity of the meter. These changes were taken into account in the reduction of the data, which are therefore independent of the prevailing argon-pressure. After November 10, 1938, when a new bomb was installed, no leakage was experienced at Christchurch.

At Godhavn also, there was some leakage of argon from the meter. From October, 1938, to October, 1946, the argon-pressure decreased from 700 lb. in^{-2} to about 580 lb. in^{-2} . The decrease in pressure was, however, not uniform, since for long periods no leakage occurred after tightening the packing nut. For instance, from August, 1944, through December, 1946, the pressure remained essentially constant at 580 lb. in^{-2} . The reduced data for Godhavn were all normalized to eliminate the effect of changing argon-pressure.

At Cheltenham, as at Huancayo, no loss of argon has occurred since the meters were installed.

The absolute ionization corrected for residual was as follows in $\text{ions cm}^{-3} \text{ sec}^{-1}$ at the indicated argon-pressures: Cheltenham, 82 at 715 lb. in^{-2} ; Christchurch, 90 at 700 lb. in^{-2} ; and Godhavn, 87 at 715 lb. in^{-2} .

Bibliography of published papers of analyses of data from cosmic-ray meters will be found in the last section of this volume.

DESCRIPTION OF TABLES

Huancayo Magnetic Observatory

Tables 1-114.--Monthly tables for the period June, 1936, through December, 1945, contain bihourly mean values of departure from balance, corrected to 510 mm Hg, centered at the indicated 75th west meridian hours.

Tabular values are in units of 0.1 per cent of total cosmic ray ionization, with 2.2 per cent added in Tables 1-10 (June, 1936, through March, 1937), 4.5 per cent added in Tables 11-57 (April, 1937, through February, 1941), and 6.0 per cent added in Tables 58-114 (March, 1941, through December, 1945). No records for October, 1943, are presented.

Tables 115-125.--Annual tables for the period 1936 through 1946 contain daily means of hourly departures from balance, corrected to 510 mm Hg. Tabular values, by months, are in units of 0.1 per cent of total cosmic-ray ionization, with 4.5 per cent added in Tables 115-119 (1936 through 1940), and 6.0 per cent added in Tables 116-125 (1941 through 1946). Superscripts a to k indicate the number of missing bihourly values 1 to 11, respectively.

Tables 126-136.--Annual tables for the period 1936 through 1946 contain bihourly values of diurnal variation in departures from balance, corrected to 510 mm Hg, centered at the indicated 75th west meridian hours, by months, seasons, and years, from days with complete records. Means for three groups of four months each are designated by Roman numerals, as follows: I, January, February, November, December; II, March, April, September, October; III, May, June, July, August. Tabular values are in units of 0.01 per cent of total cosmic-ray ionization, with 4.5 per cent added in Tables 126-130 (1936 through 1940), and 6.0 per cent added in Tables 131-136 (1941 through 1946).

Tables 137-142.--Annual tables for the period 1941 through 1946 contain frequency distribution of bursts according to size by four-hourly 75th west meridian time intervals. Burst sizes, listed in bimonthly groups, are in units of 0.1 per cent of the total ions produced per hour by cosmic rays.

Cheltenham Magnetic Observatory

Tables 143-152.--Annual tables for the period 1937 through 1946 contain daily means of hourly departures from balance, corrected to 760 mm Hg. Tabular values, by months, are in units of 0.1 per cent of total cosmic-ray ionization, with 10.0 added to obtain the tabulated values. Superscripts a to k indicate the number of missing bihourly values 1 to 11, respectively.

Tables 153-162.--Annual tables for the period 1937 through 1946 contain bihourly values of diurnal variation in departures from balance, corrected to 760 mm Hg, centered at the indicated 75th west meridian hours, by months, seasons, and years, from days with complete records. Means for three groups of four months each are designated by Roman numerals, as follows: I, January, February, November, December; II, March, April, September, October; III, May, June, July, August. Tabular values are in units of 0.01 per cent of total cosmic-ray ionization, with 10.0 per cent added to obtain the tabulated values.

Tables 163-167.--Annual tables for the period 1942 through 1946 contain frequency distribution of bursts according to size by four-hourly 75th west meridian

time intervals. Burst sizes, listed in bimonthly groups, are in units of 0.1 per cent of the total ions produced per hour by cosmic rays.

Christchurch Magnetic Observatory

Tables 168-178.--Annual tables for the period 1936 through 1946 contain daily means of hourly departures from balance, corrected to 29 in. Hg. Tabular values, by months, are in units of 0.1 per cent of total cosmic-ray ionization. Superscripts a to k indicate the number of missing bihourly values 1 to 11, respectively. No records for October 1, 1942, to January 15, 1943; September 14 to December 12, 1943; and April 10 to October 31, 1945, are presented.

Tables 179-189.--Annual tables for the period 1936 through 1946 contain bihourly values of diurnal variation in departures from balance, corrected to 29 in. Hg, centered at the indicated 172°5 east meridian hours, by months, seasons, and years, from days with complete records. Means for three groups of four months each are designated by Roman numerals, as follows: I, January, February, November, December; II, March, April, September, October; III, May, June, July, August. Tabular values are in units of 0.01 per cent of total cosmic-ray ionization. No records for October to December, 1942, October and November, 1943, and May to October, 1945, are presented.

Godhavn Magnetic Observatory

Tables 190-198.--Annual tables for the period 1938 through 1946 contain daily means of hourly departures from balance, corrected to 760 mm Hg. Tabular values, by months, are in units of 0.1 per cent of total cosmic-ray ionization, with 13.0 per cent added to obtain the tabulated values. Superscripts a to k indicate the number of missing bihourly values 1 to 11, respectively. No data for October 22 to November 25, 1946, are presented.

Tables 199-207.--Annual tables for the period 1938 through 1946 contain bihourly values of diurnal variation in departures from balance, corrected to 760 mm Hg, centered at the indicated 45th west meridian hours, by months, seasons, and years, from days with complete records. Means for three groups of four months each are designated by Roman numerals, as follows: I, January, February, November, December; II, March, April, September, October; III, May, June, July, August. Tabular values are in units of 0.01 per cent of total cosmic-ray ionization, with 13.0 per cent added to obtain the tabulated values.

LITERATURE CITED

1. Berry, E. B., and V. F. Hess. 1942. Study of cosmic rays between New York and Chile. *Terr. Mag.*, vol. 47, pp. 251-256.
2. Compton, A. H., and R. N. Turner. 1937. Cosmic rays on the Pacific Ocean. *Phys. Rev.*, vol. 52, pp. 799-814.
3. Johnston, H. F., A. G. McNish, S. E. Forbush, W. E. Scott, Ella Balsam, and P. G. Ledig. 1948. Magnetic results from Huancayo Observatory, Peru. *Researches of the Department of Terrestrial Magnetism. Carnegie Inst. of Washington Pub. No. 175*, vol. X-A, 1922-1935; vol. X-B, 1936-1944.
4. Regener, E. 1933. Die Absorptionskurve der Ultrastrahlung und ihre Detung. *Physik. Zs.*, vol. 34, pp. 306-323. Also, *Zs. Physik*, vol. 74, 1932, pp. 433-454.
5. Compton, A. H., E. O. Wollan, and R. D. Bennett. 1934. A precision recording cosmic-ray meter. *Rev. Sci. Instr.*, vol. 5, pp. 415-422.
6. Bartels, J. 1935. Random fluctuations, persistence, and quasi-persistence in geophysical and cosmical periodicities. *Terr. Mag.*, vol. 40, pp. 1-60.
7. Forbush, S. E. 1940. On the 27-day and 13.5 day waves in cosmic-ray intensity and their relation to corresponding waves in terrestrial-magnetic activity. *Trans. Washington Meeting, September, 1939; Internat. Union Geod. Geophys., Ass. Terr. Mag. Electr., Bull. No. 11*, pp. 438-452.
8. ——— 1937. On diurnal variation in cosmic-ray intensity. *Terr. Mag.*, vol. 42, pp. 1-16.

LIST OF FIGURES

Figure	Page
1. Aerial view of Huancayo Observatory, looking northwest	8
2. Aerial view of Huancayo Observatory, looking southeast	8
3. Cosmic-ray building at Huancayo Observatory	9
4. Rear view of cosmic-ray building, Huancayo Observatory	9
5. Cosmic-ray meter No. C-2, Huancayo Observatory	10
6. Cross-section view of cosmic-ray apparatus	10
7. Lindeman electrometer housing	11
8. Diagram of control circuits.	11
9. Electrometer box, optical system, barometer, and recording camera	12
10. Cosmic-ray records, Huancayo Observatory, January 16, 1938	13
11. Calibration curves, giving the residual ionization as measured in a mine 110 meters below the surface	14
12. Barometric coefficient for cosmic-ray intensity at Huancayo Observatory.	14



Fig. 1. Aerial view of Huancayo Observatory, looking northwest

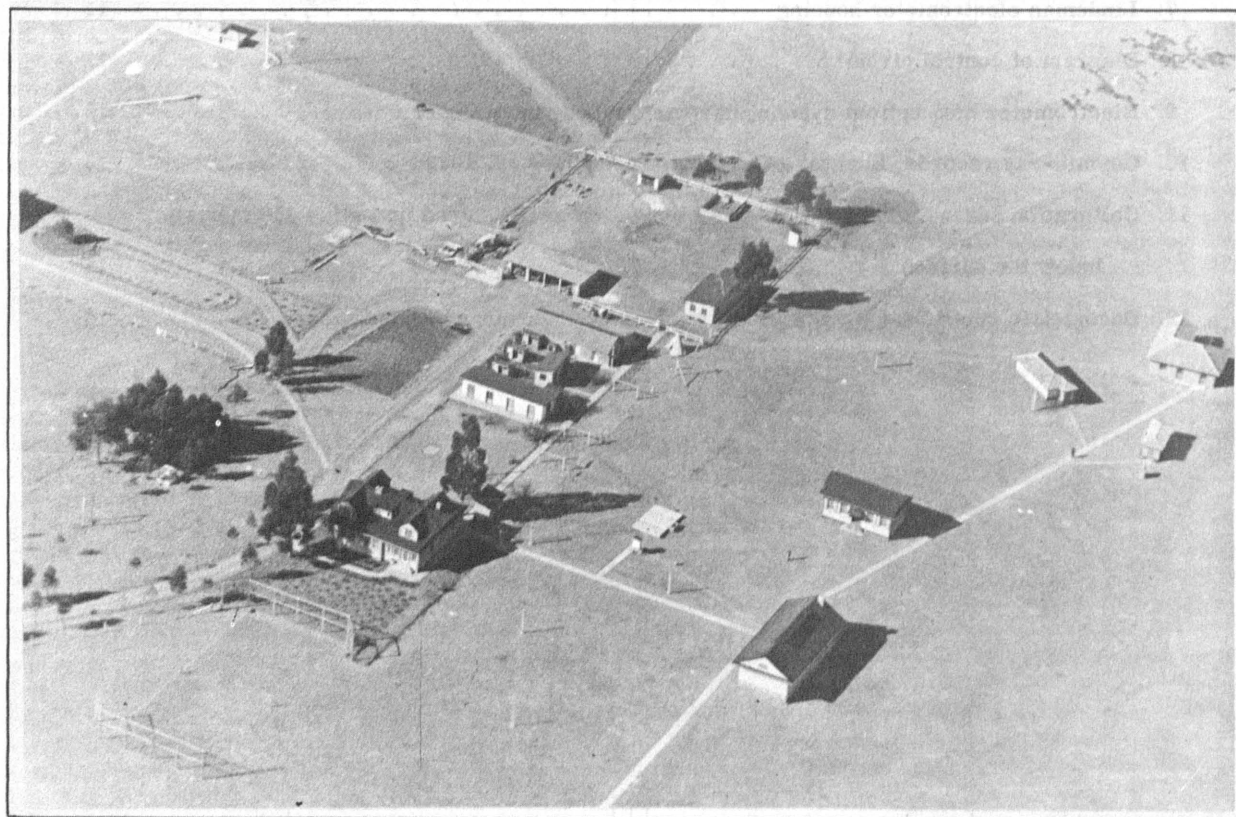


Fig. 2. Aerial view of Huancayo Observatory, looking southeast



Fig. 3. Cosmic-ray building at Huancayo Observatory

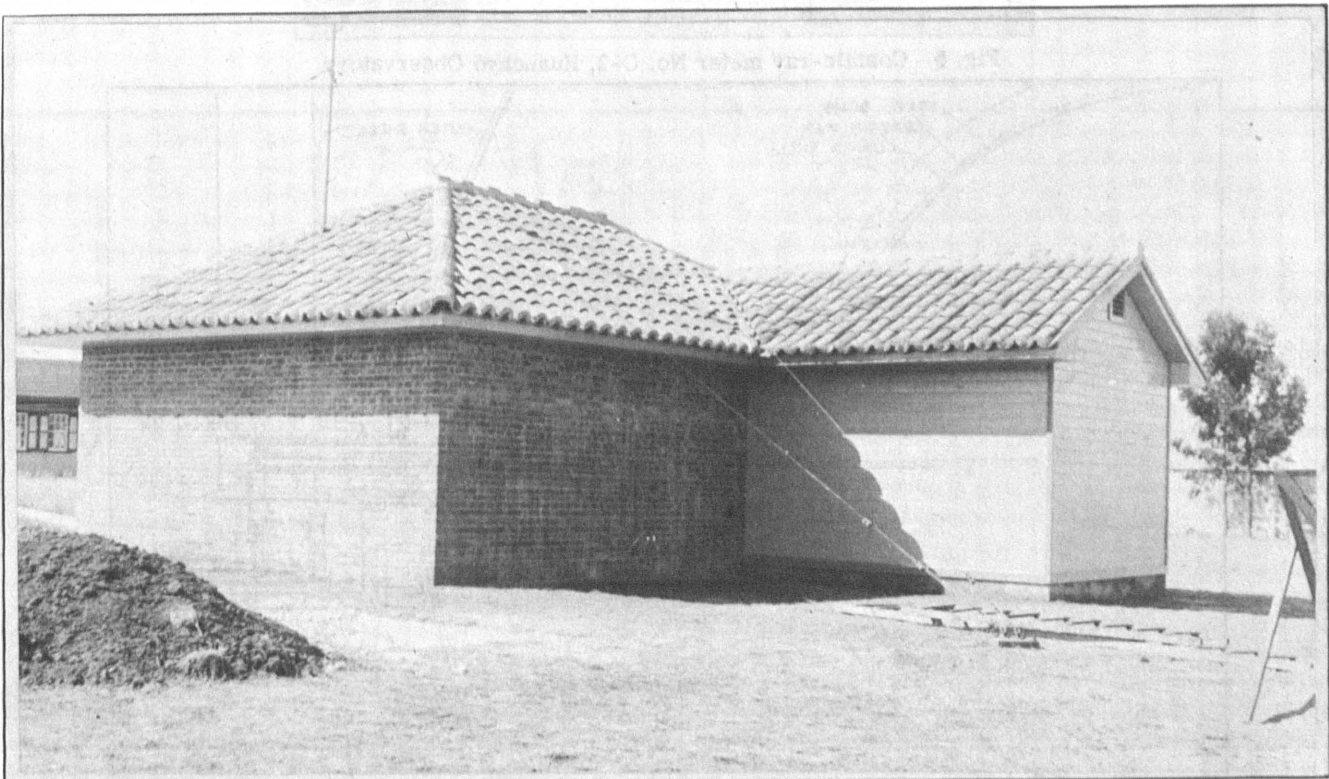


Fig. 4. Rear view of cosmic-ray building, Huancayo Observatory

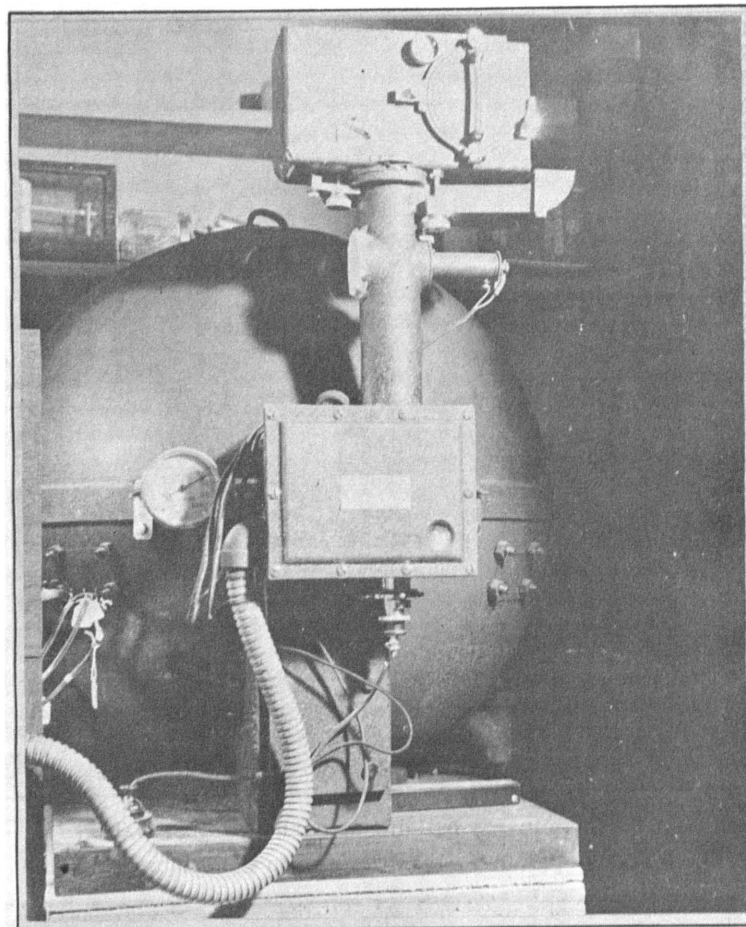


Fig. 5. Cosmic-ray meter No. C-2, Huancayo Observatory

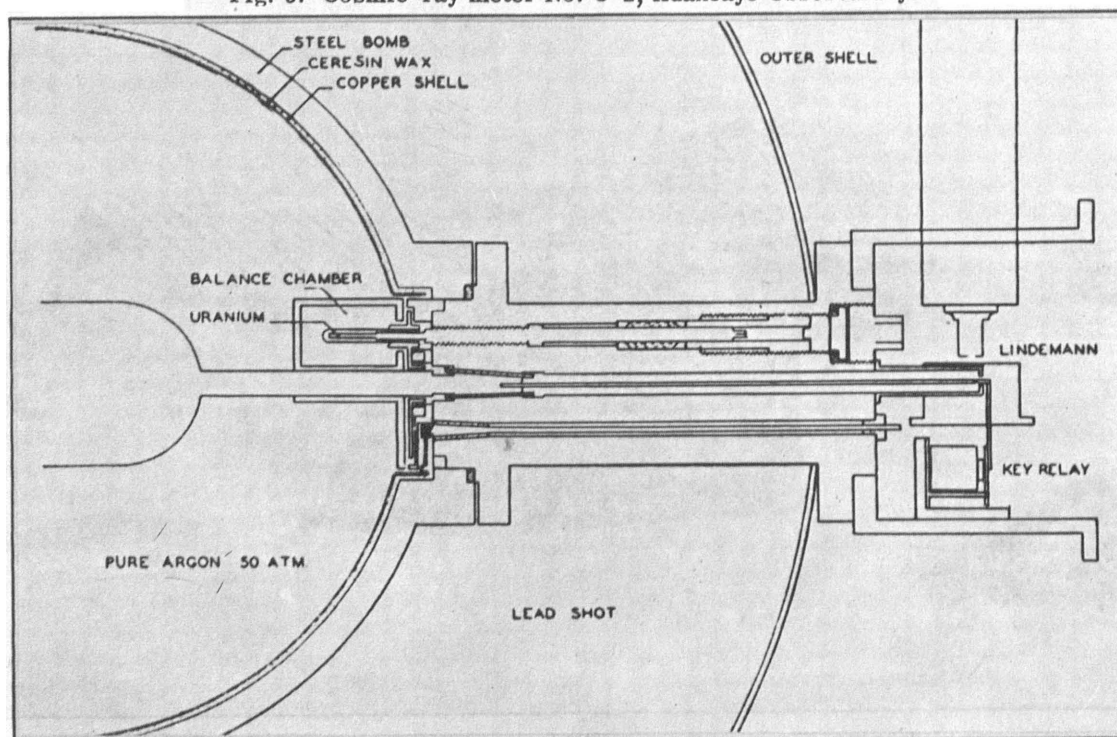


Fig. 6. Cross-section view of apparatus, showing details of central electrode, β -chamber, and micrometer for adjusting position of uranium

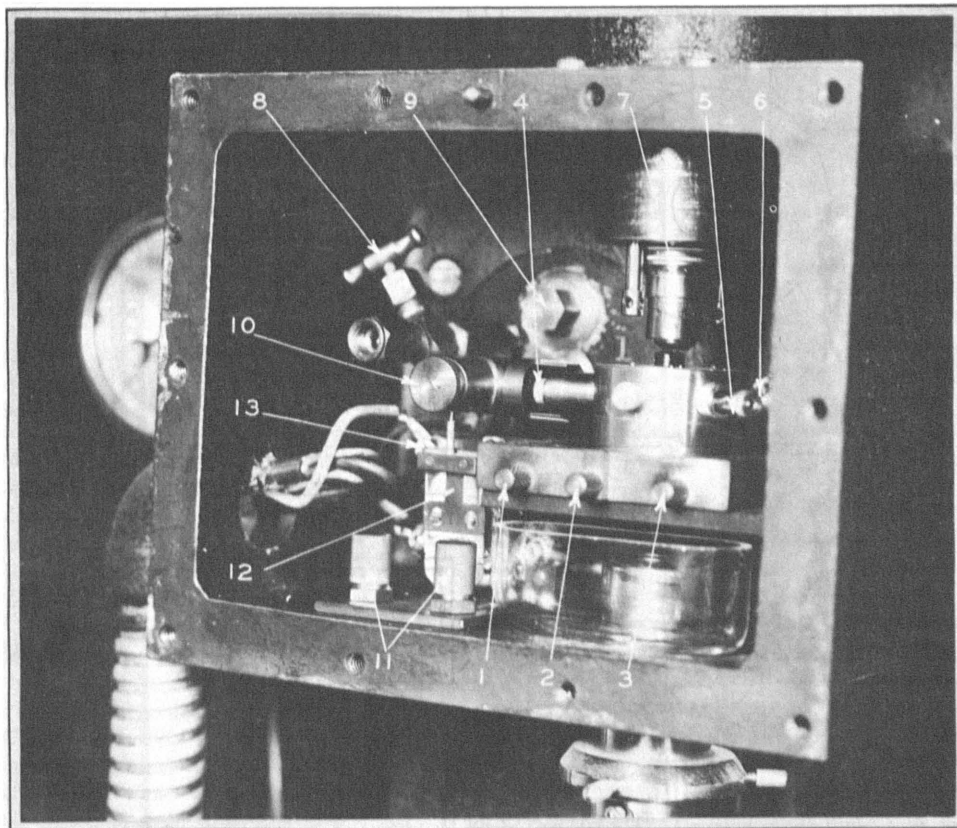


Fig. 7. Lindeman electrometer housing

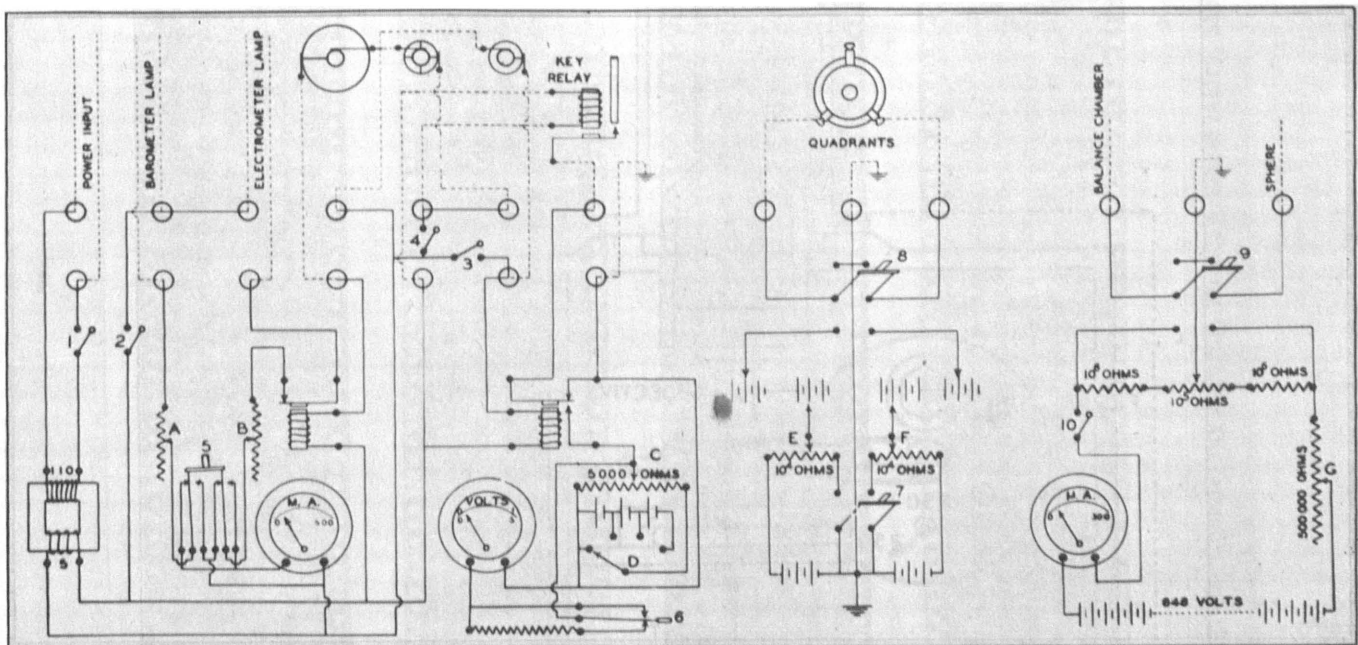


Fig. 8. Diagram of control circuits

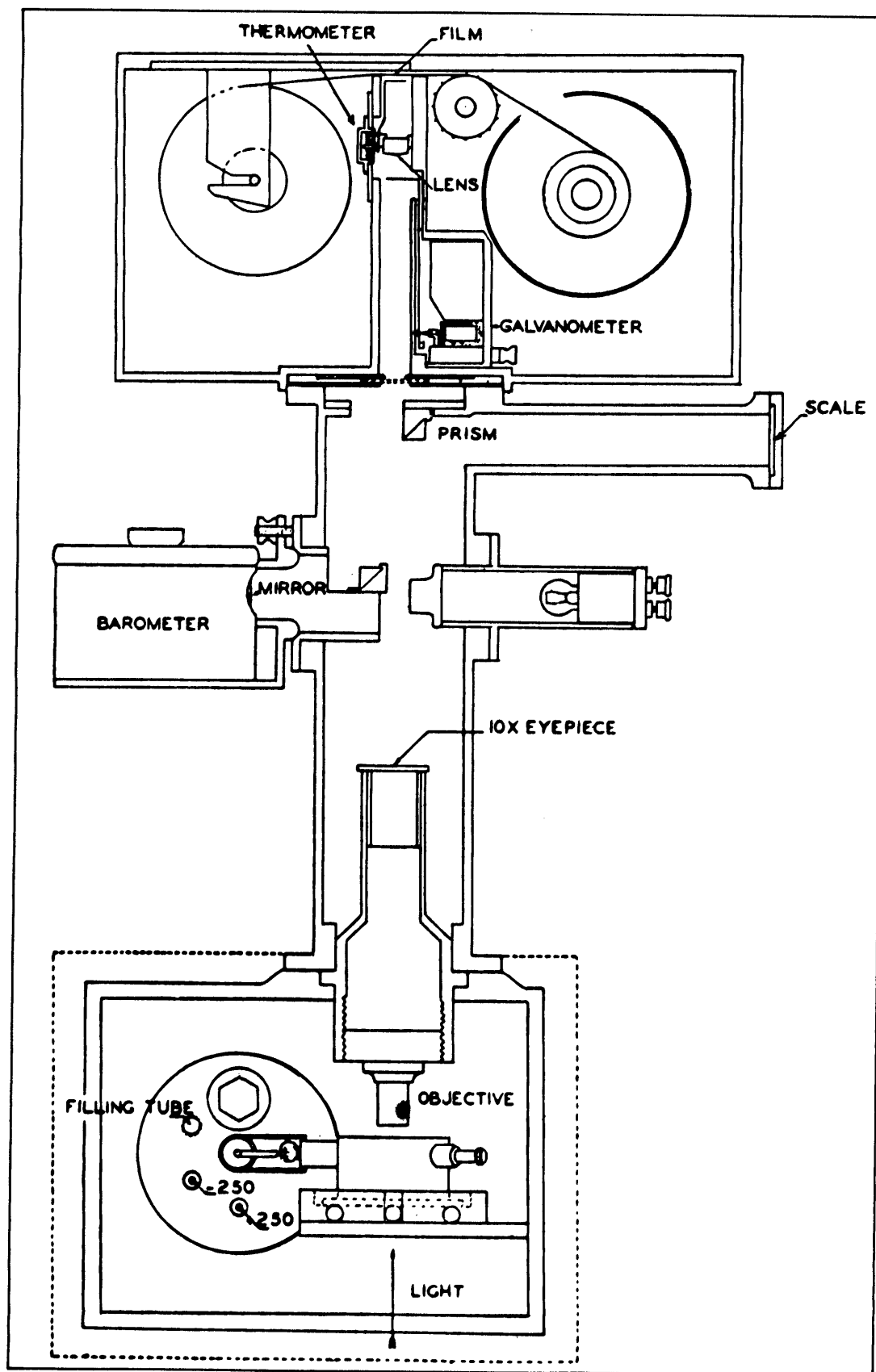


Fig. 9. Electrometer box, optical system, barometer, and recording camera

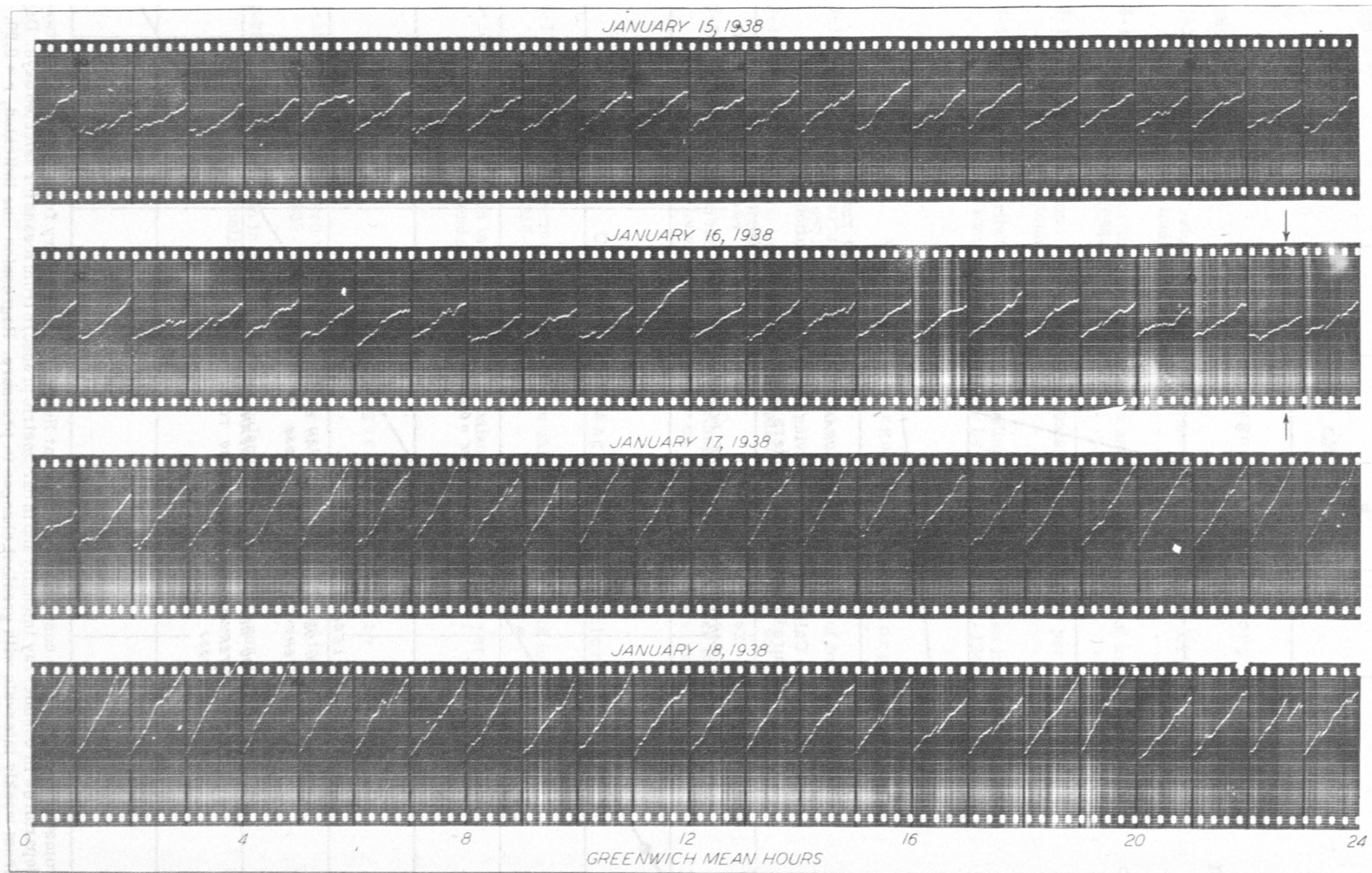


Fig. 10. Cosmic-ray records, Huancayo Observatory, showing effect of magnetic storm which began 22h, 07m GMT, January 16, 1938

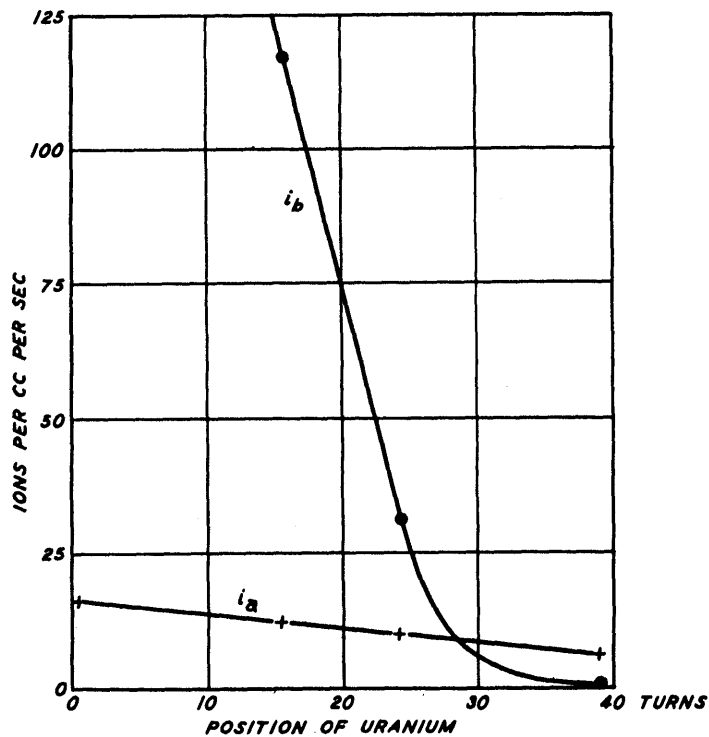


Fig. 11. Calibration curves, giving the residual ionization as measured in a mine 110 meters below the surface

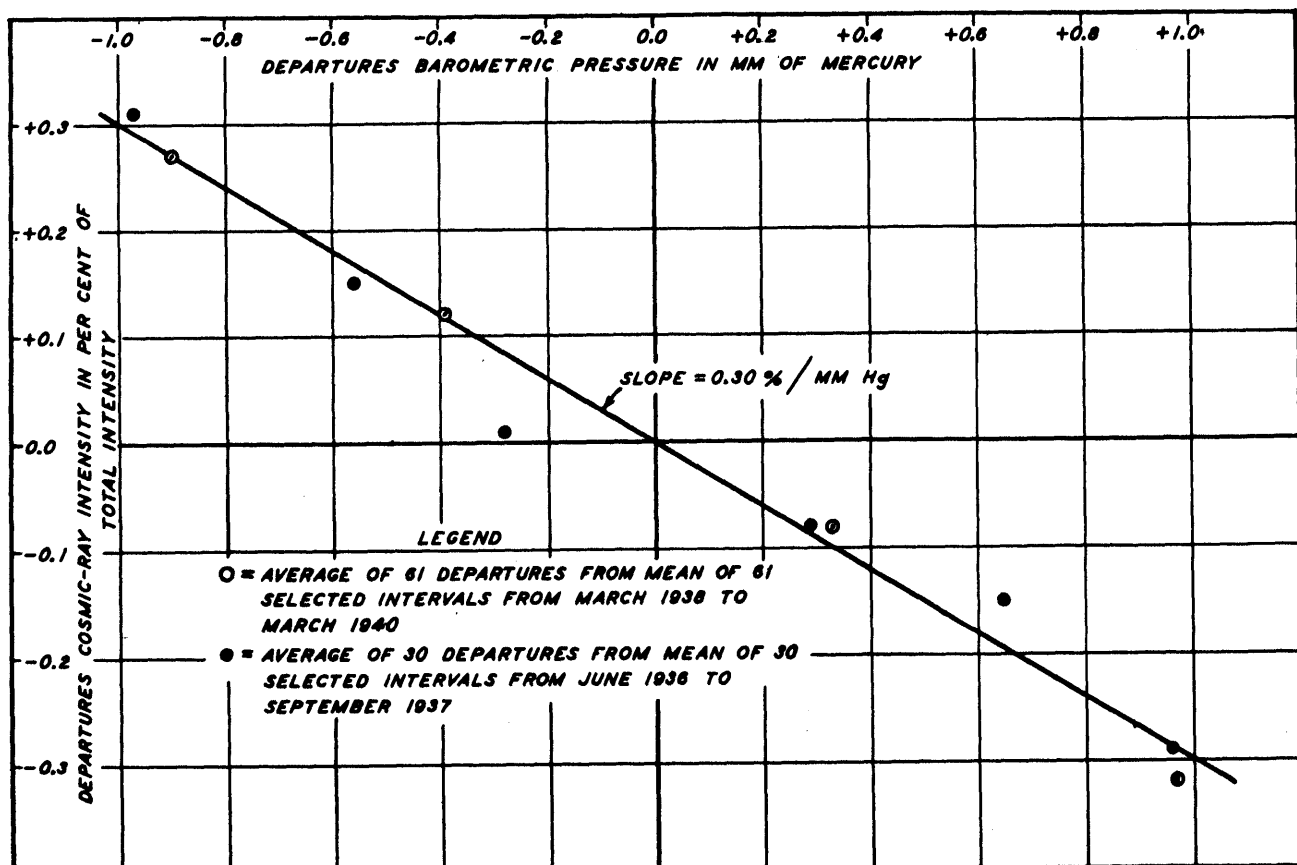


Fig. 12. Barometric coefficient for cosmic-ray intensity at Huancayo Observatory from correlation between average departures in cosmic-ray intensity and in barometric pressure from means for selected days. Days selected from weekly intervals with greatest changes in pressure. Regression line indicated, $r = 0.99$.

LIST OF TABLES

Huancayo Magnetic Observatory	
Table	Page
1-114 Bihourly mean values of departures from balance in units of 0.1 per cent of total cosmic-ray ionization, 1936-1946	16
115-125 Daily mean departures from balance in units of 0.1 per cent of total cosmic-ray ionization, 1936-1946	130
126-136 Diurnal variation in departures from balance in units of 0.01 per cent of total cosmic-ray ionization, 1936-1946	135
137-142 Frequency distribution of bursts according to size, burst sizes in units of 0.1 per cent of total ions produced per hour by cosmic rays, 1941-1946	141
Cheltenham Magnetic Observatory	
143-152 Daily mean departures from balance in units of 0.1 per cent of total cosmic-ray ionization, 1937-1946	147
153-162 Diurnal variation in departures from balance in units of 0.01 per cent of total cosmic-ray ionization, 1937-1946	152
163-167 Frequency distribution of bursts according to size, burst sizes in units of 0.1 per cent of total ions produced per hour by cosmic rays, 1942-1946	157
Christchurch Magnetic Observatory	
168-178 Daily mean departures from balance in units of 0.1 per cent of total cosmic-ray ionization, 1936-1946	162
179-189 Diurnal variation in departures from balance in units of 0.01 per cent of total cosmic-ray ionization, 1936-1946	167
Godhavn Magnetic Observatory	
190-198 Daily mean departures from balance in units of 0.1 per cent of total cosmic-ray ionization, 1938-1946	173
199-207 Diurnal variation in departures from balance in units of 0.01 per cent of total cosmic-ray ionization, 1938-1946	177

TABLE 1

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JUNE 1936

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +22, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13	27	21	23	20	24	29	23	30	24	13	15	15	264	12
14	11	25	22	17	22	30	30	25	19	16	21	20	258	12
15	26	19	22	27	26	24	21	18	23	19	23	22	270	12
16														
18	22	23	25	30	24	32	22	32	21	19	24	26	300	12
17	26	23	26	23	39	29	23	27	21	18	30	26	311	12
18	27	20	19	25	29	25	28	22	19	16	16	18	264	12
19	21	25	24	20	20	19	32	22	13	19	17	23	255	12
20	29	22	26	30	28	28	23	18	15	17	17	25	278	12
21														
22	19	25	25	31	31	32	27	29	18	19	7	20	283	12
23	24	19	23	24	33	35	28	22	15	21	21	26	291	12
24	27	32	24	23	32	41	28	22	20	22	31	23	325	12
25	28	31	27	33	36	34	31	39	32	27	27	28	373	12
26	32	30	34	37	41	39	42	27	20	28	33	27	390	12
27														
28	30	29	29	35	28	30	32	31	35	28	34	28	369	12
29	29	27	34	22	30	25	33	34	33	27	29	23	346	12
30	29	26	32	29	39	34	36	35	30	34	32	27	382	12
31	30	32	31	25	33	35	33	34	34	33	23	26	369	12
32	25	32	34	32	34	27	34	30	27	30	32	26	363	12
SUM	462	461	480	483	549	548	526	497	419	406	431	429	5691	216

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 2

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JULY 1936

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +22, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	30	32	34	38	41	31	35	28	28	33	27	29	386	12
2	30	34	31	33	29	35	33	32	27	23	23	25	355	12
3	28	30	26	30	28	30	32	25	25	21	23	26	324	12
4	17	28	28	31	38	25	32	38	30	30	32	27	356	12
5	25	25	24	23	35	32	29	34	32	31	27	32	349	12
6	28	30	30	32	31	30	24	27	35	29	30	29	355	12
7	33	37	32	38	32	36	35	27	27	32	22	33	384	12
8	30	33	26	28	34	26	35	27	28	31	24	26	348	12
9	24	23	22	25	29	19	36	24	20	24	26	27	299	12
10	34	24	19	19	22	23	27	21	15	24	20	26	274	12
11	22	31	24	21	28	27	24	24	13	15	21	22	272	12
12	15	19	26	28	27	20	33	30	26	25	19	14	282	12
13	21	17	26	27	33	23	34	16	16	13	30	22	278	12
14	22	30	29	25	26	30	27	24	18	22	20	23	296	12
15	23	30	30	30	30	20	24	32	23	24	22	22	310	12
16	31	21	26	28	30	26	33	26	19	18	19	23	300	12
17	26	22	25	28	32	30	32	26	18	22	24	26	311	12
18	20	34	24	24	26	35	32	28	33	32	27	29	344	12
19	32	38	36	38	31	38	41	32	32	31	34	29	412	12
20	27	29	42	30	37	38	34	39	28	37	38	36	415	12
21		40	38	36	36	36	36	36	32	27	32	38	387	11
22	31	34	31	41	40	37	34	37	30	33	35	32	415	12
23	32	32	29	35	33	40	33	30	32	37	33	33	399	12
24	37	43	30	32	49	34	32				35	35	327	9
25	35	30	35	33	44	39	42	38	37	38	34	35	440	12
26	43		40	38	37	40	40	41	33		35		347	9
27	34	38	38		38	38	36	40	34	37	45	39	379	10
28	37	36	38	37	39	44	34	36	32	36	43	37	449	12
29	36	35	38	46	35	34	36	36	29	32	33	32	422	12
30	26	38	33	33	39	40	35	27	26	29	27	30	383	12
31	32	29	36	37	39	41	40	30	26	30	27	28	395	12
SUM	747	801	800	838	888	849	886	794	705	752	740	753	9553	363

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 3

AUGUST 1936

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +22, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	35	35	31	37	29	39	41	26	25	28	28	32	386	12
2	32	39	36	28	37	35	38	38	31	29	31	35	409	12
3	36	36	34	41	37	37	38	25	31	38	28	30	411	12
4	41	36	36	40	39	38	36	31	35	29	25	17	403	12
5	31	33	36	28	37	37	33	36	26	32	31	25	385	12
6	35	33	29	29	29	34	32	25	27	24	28	20	345	12
7	27	26	29	32	36	28	30	24	25	22	20	32	331	12
8	30	31	30	34	31	30	34	29	25	28	21	22	345	12
9	22	34	29	28	40	42	33	31	19	24	27	25	354	12
10	36	30	36	29	31	36	25	25	24	20	21	23	336	12
11	15	20	22	27	33	23	26	29	20	29	26	31	301	12
12	27	25	23	37	26	37	33	36	23	29	24	25	345	12
13	32	24	30	37	35	32	26	25	32	30	23	34	360	12
14	27	36	32	41	37	34	31	24			26	29	317	10
15	32	38	31	34	43	37	36	36	26	30	38	35	416	12
16	30					47	42	39	40	41	33	29	301	8
17	34	44	39	32	37	48	44	39	41	27	36	37	458	12
18	45	38	39	38	45	42	29	37	36	32	39	39	459	12
19	34	38	30	37	35	38	38	34	31	36	35	35	421	12
20	34	29	33	33	36	39	34	35	34	36	31	40	414	12
21	37	42	36	38							40	40	233	6
22	37	39	38	42	50	41	30	32	35	40	39	31	454	12
23	33	38	35	40	31	47	42	39	35	33	31	39	443	12
24	33	43	42	38	32	39	40	40	39	43	32	30	451	12
25	30	34	42	32	38	31	31	31	36	31	25	31	392	12
26	29	32	41	36	40	31	35	34	31	23	26	30	388	12
27	37	32	33	25	39	34	40	32	32	28	30	35	397	12
28	25	25	28	30	38	34	31	21	36	35	34	29	366	12
29	24	34	31	26	46	33	34	29	36	34	37	33	397	12
30	33	34	43	32	41	39	40	30	26	27	21	23	389	12
31	24	26	20	26	34	43	31	34	22	18	23	22	323	12
SUM	883	926	926	928	1025	1024	960	883	839	835	810	840	10879	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 4

SEPTEMBER 1936

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +22, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	28	23	31	29	35	37	27	33	27	25	20	24	339	12
2	28	22	25	34	31	38	36	36	26	29	19	26	350	12
3	22	28	27	32	28	34	28	33	25	21	25	29	332	12
4	27	29	28	34	31	39	32	30	30	27	21	31	359	12
5	29	30	30	32	33	30	30	35	27	23	23	34	356	12
6	30	23	26	30	29	36	33	31	29	32	31	26	356	12
7	31	29	33	33	31	35	29	25	29	30	21	21	347	12
8	29	29	34	32	32	28	35	27	29	31	31	27	364	12
9	35	28	36	30	34	33	38	30	26	37	35	24	386	12
10	26	26	28	26	30	37	30	35	29	25	24	24	340	12
11	38	22	29	28	30	31	31	26	25	23	33	27	343	12
12	31	35	35	27	32	25	35	32	28	33	36	23	372	12
13	32	35	35	30	35	36	27	30	30	31	34	35	390	12
14	37	38	38	41	34	42	35	28	34	34	39	37	437	12
15	48	44	39	38	39	36	31	30	38			34	377	10
16	36	33	35	33	34	37	42	41	23	38	33	33	418	12
17	36	31	42	34	34	34	26	39	27	31	31	35	400	12
18	26	42	37	40	37	48	41	27	33	30	30	32	423	12
19	34	42	30	32	37	35	35	34	29	37	35	41	421	12
20	27	34	35	37	37	37	34	37	36	32	30	33	409	12
21	41	33	42	34	39	29	36	39	32	28	33	27	413	12
22	34	37	25	34	40	36	50	39	32	26	32	31	416	12
23	28	37	32	31	42	36	29	41	31	32	34	29	402	12
24	26	32	31	34	37	37	33	36	23	32	22	29	372	12
25	38	39	32	32	32	36	34	29	33	33	22	27	387	12
26	35	33	34	37	39	34	32	33	26	28	26	34	391	12
27	36	42	35	31	33	39	23	37	41	28	31	26	402	12
28	25	28	23	28	22	25	33	22	25	22	22	18	293	12
29	14	22			33	26	26	27	25	20	22	18	233	10
30	25	17	31	27	28	34	29	30	26	26	32	23	328	12
31														
SUM	870	877	899	902	936	978	923	915	811	824	805	806	10546	356

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 5

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

OCTOBER 1936

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +22, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	26	26	33	30	29	30	23	27	22	28	26	25	325	12
2	31	32	33	39	43	38	25	33	24	26	20	30	374	12
3	33	28	35	29	34	39	27	29	29	28	25	31	367	12
4	30	29	32	34	32	34	32	37	27	29	24	28	368	12
5	33	38	34	33	36	38	35	33	33	35	31	25	404	12
6	34	32	37	39	34	38	41	38	25	41	31		390	11
7		29			35	34	32	28	27	37	32	25	279	9
8	22	22	31	35	31	36	38	34	32	21	32	25	359	12
9	34	34	36	31	39	30	32	25	18	23	28	32	362	12
10	14	30	33	33	32	36	30	23	29	19	23	27	329	12
11	34	30	31	37	30	33	30	31	21	32	25	22	356	12
12	25	25	36	29	32	32	31	30	29	26	21	22	338	12
13	28	31	23	21	36	34	32	24	18	16	16	27	306	12
14	23	26	27	25	28	28	24	27	24	33	36	32	333	12
15	28	32	40	31	28	27	32	20	32	26	26	32	354	12
16	29	37	26	31	30	39	32	32	20	26	25	29	356	12
17	35	39	46	35	35	40	35	35	34	41	31	33	439	12
18	35	26	38	33	32	35	35	31	33	30	30	34	392	12
19	30	32	35	34	32	33	38	26	22	34	33	33	382	12
20	36	34	35	36	34	33	38	26	23	31	33	37	396	12
21	32	36	26	35	35	28	22	26	34	34	27	27	362	12
22	43	35	30	34	32	33	38	27	38	25	26	31	392	12
23	31	39	39	30	31	33	30	36	31	30	26	28	384	12
24	40	36	33	32	40	41	24	25	28	27	34	25	385	12
25	29	25	30	26	32	39	34	29	26	31	25	27	353	12
26	32	28	32	30	30	34	28	34	30	24	28	31	361	12
27	31	33	31	37	28	32	30	29	28	23	23	28	353	12
28	25	36	31	31	29	28	38	32	32	26	19	34	361	12
29	31	24	26	29	35	33	28	23	29	33	28	35	354	12
30	29	24	30	26	33	32	24	28	27	25	27	31	336	12
31	30	31	31	31	37	29	29	28	31	33	31	23	364	12
SUM	879	898	943	917	955	977	894	840	804	815	779	844	10545	368

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 6

NOVEMBER 1936

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +22, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	37	25	35	33	36	35	28	34	20	28	39	30	380	12
2	38	27	28	19	29	23	26	27	19	32	30	30	328	12
3	25	26	24	28	16	18	26	17	25	20	29	28	282	12
4	27	26	24	27	26	19	18	21	22	20	26	24	280	12
5	23	23	24	26	27	17	26	16	17	17	28	19	263	12
6	32	29	29	27	24	27	25	24	21	24	13	19	294	12
7	24	28	20	25	19	21	30	29	29	18	12	31	286	12
8	29	21	26	27	26	31	30	30	22	27	25	28	322	12
9	17	26	24	36	34	26	24	22	23	16	21	17	286	12
10	12	23	22	21	26	27	25	26	20	21	18	22	263	12
11	16			18	22	24	27	19		16	23	13	178	9
12	18	21	27	26	27	20	16	20	24	24	22	15	260	12
13	21	26	20	32	24	24	21	29	24	19	13	13	266	12
14	20	22		25	32	28	24	20	22	28	32	25	278	11
15	27	32	25	26	29	33	32	28	28	24	19	23	327	12
16	26	28	19	23	30	32	27	25			20	21	251	10
17	23	22	25	23	32	30	30	17	22	23	22	21	290	12
18	25	35	29	28	22	27	29	22	21	26	15	29	307	12
19	24	33				23	24	20	18	22	23	29	216	9
20	29	23	29	34	25	29	24	28	21	24	20	29	315	12
21	28	29	27	25	25	35	22	24	21	20	24	18	298	12
22	26	32	32	23	25	29	31	32	21	24	26	32	333	12
23	32	34	19	23	20	26	18	28	24	23	18	28	293	12
24	24	24	27	33	27	27	26	26	23	17	30	28	312	12
25	34	22	20	26	19	30	26	28	23	34	23	26	311	12
26	20	27	18	29	32	22	30	22	19	23	18	20	280	12
27	30	19	20	26	24	32	22	13	22	22	19	26	275	12
28	20	16	20	24	26	25	19	21	15	17	13	14	230	12
29	15	12	21	17	15	19	21	19	4	11	6	6	166	12
30	3	16	11	13	13	14	16	13	7	17	13	13	149	12
31														
SUM	639	644	626	677	648	666	641	616	537	571	542	589	7396	351

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 7

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

DECEMBER 1936

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +22, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	14	21	13	25	14	20	24	15	13	17	11	19	206	12
2	20	25	18	17	28	24	22	19	22	12	11	31	249	12
3	24	25	27	21	30	22	28	32	19	20	28	29	305	12
4	14	33	20	26	28	20	24	17	15	12	13	23	245	12
5	27	20	22	25	29	18	32	22	13	16	24	21	269	12
6	20	24	16	24	22	14	23	22	11	13	19	19	227	12
7	19	18	25	28	24	28	27	17		14	14	13	227	11
8	20	19	19	17	22	15	26	16	15	12	14	21	216	12
9	19	18	17	18	16	18	25	24	19	25	27	15	241	12
10	21	24	14	13	21	25	24	25	20	21	26	24	258	12
11	18	16	27	22	23	27	30	25	26	23	26	25	288	12
12	14	29		26	18	32	24	28	23	19	29	16	258	11
13	16	15	18	15	23	19	27	27	20	15	18	17	230	12
14	20	20	18	15	22	19	18	18	20	20	11	20	221	12
15	27	19	14	16	22	19	18	24	22	21	19	17	238	12
16	13	17						21	19	20	24	22	136	7
17	25	15	26	16	23	18	23	22	22	19	22	18	249	12
18	15	28	14	28	24	22	24	16	30	21	12	19	253	12
19	25	28	25	27	21	25	27	27			13	18	236	10
20	19	19	11	17	21	21	20	16	21	21	14	18	218	12
21	19	28	26	20	24	21	21	26	17	20	14	17	253	12
22	17	22			22	26	17	14	12	20	14	27	191	10
23	22	14	24	19	29	20	25	25	22	19	20	19	258	12
24	20	28	20	17	23	23	21	18	22	23	13	24	252	12
25	20	26	23	22	24	27	24	25	19	5	19	21	255	12
26	19	18	23	31	22	29	21	25	25	21	20	16	270	12
27	15	12				20	25	16	18	22	17	21	166	9
28	27	22	25	23	14	26	18	20	19	16	18	18	246	12
29	25	16	20	20	10	23	20	21	22	19	28	10	234	12
30	15	17			21	28	29	20	27	25	18	16	216	10
31	9	19	21	14	27	22	18	20	16	21	25	12	224	12
SUM	480	512	476	481	541	512	556	520	470	432	452	473	5905	356

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 8

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JANUARY 1937

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +22, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	14	21	18	11	17	19	22	20	14	16	18	25	215	12
2	17	20			19	28	23	24	18	19	19	24	211	10
3	31	22	20	20	30	19	30	26	21	24	29	23	295	12
4	23	19	21	22	25	23	27	27	27	24	26	26	290	12
5	26	22	26	26	23	21	29	25	19	29	22	27	295	12
6	27	20	21	20	27	30	21	20	19	16	21	22	264	12
7	25	24	22	28	18	22	22	12	18	21	17	25	254	12
8	20	20	26	16	18	19	19	19	20	22	17	25	241	12
9	29	16	22	21	25	16	25	21	15	16	23	18	247	12
10	20	26	21	20	23	19	20	17			14	19	199	10
11	19	21	16	21	19	21	16	16	18	17	16	25	225	12
12	26	13	13	14	16	14	19	21	17	14	19	17	203	12
13	18	18	25	10	27	19	16	19	20	15	16	23	226	12
14	17	21	25	17	22	22	19	11	15	18	14	14	215	12
15	19	22	22	25	24	23	25	21	15	20	20	21	257	12
16	21	17	20	11	8	20	16	20	15	15	18	13	194	12
17	12	17	26	6	22	19	17	17	27	15	16	13	207	12
18	20	15	19	19	21	24	30	13			14	23	198	10
19	20	19	18	22	14	16	23	20	16	14	19	24	225	12
20	22	29	28	28	16	16	18	19	21				197	9
21														
22							25	15	20	21	17	12	110	6
23	18	26	13	20	23	21	21	21	24	23	18	11	239	12
24			30	23	22	20	23	31	25	23	29	19	245	10
25	15	22	20	13	22	20	25	25	18	19	20	23	242	12
26	20	26	24	23	26	29	20	26	26	14	22	19	275	12
27	13	17	14	20	24	22	16	20	9	17	17	20	209	12
28	27	23	17	26	26	30	21	30	21	26	18	26	291	12
29	25	24	29	31	20	30	24	22	21	24	24	26	300	12
30	25	24	29	21	20	30	23	18	24	16	19	23	272	12
31	15	20	12	20	14	28	17	23	18	15	17	11	210	12
SUM	505	494	499	464	510	533	513	500	457	450	466	500	5891	343

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 9

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

FEBRUARY 1937

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +22, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	20	18	13	20	19	28	28	21	19	16	20	21	243	12
2	18	22	15	25	19	26	18	24	19	19	20	20	245	12
3	15	14	13	18	9	18	15	15	25	12	14	8	176	12
4	14	20	18	11	19	16	17	17	15	12	15	16	190	12
5	15	19	13	11	10	26	10	15	14	19	14	12	178	12
6	21	14	10	17	20	12	19	17	28	17	22	15	212	12
7	18	12	24	22	19	20	18	23	20	27	27	15	245	12
8	22	20	20	18	26	22	23	28	23	22	18	22	264	12
9	21	26	29	17	20	22	25	30	20	25	14	16	265	12
10	22	12	18	14	11	22	16	13	16	8	9	16	177	12
11	20	10	22	14	15	20	13	21	12	14	20	14	195	12
12	19	12	12	14	9	18	25	9	19	18	16	16	187	12
13	24	19	13	17	13	15	16	14		22	15	15	183	11
14	14	8	5	16	18	17	20	13	21	14	16	17	179	12
15	17	17	21	19	17	13	13	16	14	15	14	12	188	12
16	22	18	15	19	12	14	18	11	15	17	15	13	189	12
17	14	18	15	15	21	13	17	21	24	16	17	15	206	12
18	17	20			25	18	27	14	14	18	5	9	167	10
19	8	15	20	14	15	22	27	13	12	13	8	12	179	12
20	6	10			12	15	10	20	13	20	11		117	9
21					16	20	13	20	12	21	13		115	7
22					11	10	16	15	13	17	15	21	118	8
23	14	21	12	18	20	19	14	17	16	12	13	19	195	12
24	22	15	19	20	22	15	31	23	21	19	18	18	243	12
25	16	18		12	13	21	17	21	- 1	12	17	23	169	11
26	24	18	22	20	26	21	24	21	23	15	18	18	250	12
27	24	22	19	16	22	19	21	18	13	17	15	21	227	12
28	15	23	17	27	19	24	20	24	18	17	18	14	236	12
29														
30														
31														
SUM.	399	374	372	385	388	427	432	410	407	364	361	350	4669	320

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 10

MARCH 1937

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +22, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	20	23	14	21	19	15	8	6	12	13	16	13	180	12
2	18	26		19	8	4	5	10	9	5	10	15	129	11
3	16	15	11	16	8	4	8	15	6	14	14	16	143	12
4	19	7	6	10	22	15	16	14	10	9	7	9	144	12
5	18	11	11	7	7	12	17	17	14	9	4	10	137	12
6	3	15	16	15	19	13	15	10	11	6	1	10	132	12
7	8	8	10	6	11	15	13	11	15	10	2	8	117	12
8	15	10	14	21	14	21	9	9	10	8	20	11	162	12
9	8	7	12	11	11	15	19	5	13	10	10	12	133	12
10	19	9	13	13	11	10	8	15	19	10	14	11	152	12
11	12	8	9	9	13	14	18	14	19	23	15	15	169	12
12	10	14	17	14	12	25	16	15	19	17	12	10	181	12
13	16	19	21	13	15	8	17	9	17	13	11	17	176	12
14	9	15	18	22	13	9	10	18	8	16	13	16	167	12
15	9	23	18	19	24	15	18	19	14	10	8	16	193	12
16	6	18	11	8	15	27	11	16	17	4	8	21	162	12
17	18	22			13	15	8	12	14	10	18	22	152	10
18	15	18			12	8	17	10	7	10	15	19	131	10
19	11	13	22	16	22	28	15	21	11	16	5	15	195	12
20	13	21	17	18	19	17	15	10	17	19	19	16	201	12
21	16	17	17	17	25	18	27	14	22	19	13	11	216	12
22	10	12	16	13	19	13	23	21	13	22	18	15	195	12
23	20	21	18	8	29	25	26	23	16	17	20	13	236	12
24	14	15	23	21	21	27	22	23	19	17	14	15	231	12
25	20	19	26	22	17	19	16	21	19	22	15	16	232	12
26	26	21	20	24	29	23	20	27	21	23	21	9	264	12
27	7	18	15	14	21	19	19	16	13	16	10	17	185	12
28	21	14	20	12	13	22	17	9	15	17	19	20	199	12
29	21	28	14	18	25	22	17	17	20	12	18	13	225	12
30	22	11			16	22	10	18	14	7	13	8	141	10
31	13	21	13	16	20	16	16	15	7	12	13	12	174	12
SUM	380	422	422	404	474	467	436	410	397	364	338	367	4901	365

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 11

APRIL 1937

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, $+45$, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	41	40	39	40	44	36	42	37	29	40	32	31	451	12
2	38	42	35	41	41	34	38	33	29	40	32	28	431	12
3	33	32	31	34	29	39	43	44	36	32	34	35	422	12
4	32	38	46	32	46								194	5
5					38	37	41	39	41	37	44	38	315	8
6	34	32	42	41	39	44	37	41	43	40	35	35	463	12
7	36	46	35	42	42	40	43	32	40	34	39	40	469	12
8	38	45			35	36	37	40	32	35	35	33	366	10
9	34	32			44	38	38	38	33	28	35	40	360	10
10	34	34	44	39	47	39	40	42	34	39	35	44	471	12
11	40	44	45	45	41	44	42	35	35	41	40	42	494	12
12	42	41	42	49	37	35	36	41	35	41	45	38	482	12
13	38	40	36	35	38	37	48	42	39	47	36	44	480	12
14	40	34	32	39	33	38	37	37	39	35	38	38	440	12
15	37	31	35	40	37	41	31	31	25	43	43	32	426	12
16	38	30	40	27	37	24	43	39	39	38	38	37	430	12
17	35	34	34	32	36	40	37	26	34	34	25	29	396	12
18	28	32	39	32	35	45	49	38	38	36	40	31	443	12
19	42	39	33	34	37	44	36	44	35	38	35	34	451	12
20	41	31	37	46	41	37	36	43	32	38	33	43	458	12
21	36	38	38	37	42	47	43	45	32	38	35	33	464	12
22	36	38	40	38	37	40	45	36	37	39	44	42	472	12
23	43	43	45	44	35	47	43	33	41	35	41	47	497	12
24	47	41	43	46	50	47	44	47	40	36	38	33	512	12
25	31	38	44	41	41	44	37	29	29	18	24	29	405	12
26	31	30	28	29	34	29	28	10	- 3	3	1	1	221	12
27	11	5	3	3	18	14	23	13	11	2	8	5	116	12
28	10	12	11	3	16	17	16	12	11	- 1	7	5	119	12
29	10	8	12	11	5	7	10	4	11	8	5	7	98	12
30	7	24	16	18	13	19	24	11	22	22	10	16	202	12
31														
SUM	859	859	879	886	905	928	951	845	793	816	793	799	10313	345

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 12

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MAY 1937

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	19	24	27	30	27	30	32	27	19	25	23	28	311	12
2	20	33	24	30	33	32	34	34	34	32	26	32	364	12
3	28	27	31	38	34	33	35	39	38	36	37	40	416	12
4	16	30	37	33	39	30	34	33	31	25	42	30	380	12
5	37	32	36	39	35	38	35	40	24	32	29	37	414	12
6	35	34	33	39	36	39	35	34	38	31	35	38	427	12
7	33	35	42	40	32	33	30	28	35	36	36	36	416	12
8	37	39	35	39	27	35	41	38	35	35	32	34	427	12
9	35	35	34	39	35	37	38	35	37	29	38	35	427	12
10	36	43	34	38	37	40	39	35	37	37	36	33	445	12
11	35	36	48	40	38	35	38	33	45	42	37	35	462	12
12	39	33	36	36	41	38	41	40	38	41	40	33	456	12
13	60	41	40	37	48	33	38	38	33	23	33	43	467	12
14	36	30	41	35	33	43	37	28	31	26	23	30	393	12
15	34	35	36	32	33	34	36	39	36	24	24	29	392	12
16	34	33	35	34	39	39	40	35	37	36	36	30	428	12
17	37	35	39	42	38	44	40	33	35	36	42	38	459	12
18	39	42	36	44	39	38	38	42	37	37	44	31	467	12
19	41	34	43	45	48	48	41	38	36	39	36	36	485	12
20	43	36	39	37	32	48	45	43	38	39	41	33	474	12
21	40	35	39	34	38	43	42	37	40	40	30	25	443	12
22	41	29	37	28	33	38	36	40	31	37	31	28	409	12
23	42	44	42	42	38	46	39	40	39	38	39	38	487	12
24	40	31	30	33	42	46	48	33	36	33	32	28	432	12
25	38	33	33	39	40	44	37	33		32	23	32	384	11
26	27	32	33	34	34	40	34	28	38	32	22	30	384	12
27	33	27	24	37	34	39	36	35	33	34	28	37	397	12
28	28	25	32	34	29	28	38	29	26	26	26	28	349	12
29	24	24	21	16	31	23	34	31	24	20	15	21	284	12
30	29	26	22	27	31	33	34	35	25	18	26	28	334	12
31	23	28	30	33	31	37	38	28	27	25	32	22	354	12
SUM	1021	988	1036	1065	1065	1120	1126	1048	1013	964	971	966	12383	371

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 13

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JUNE 1937

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	27	38	29	33	34	34	25	32	28	24	25	23	352	12
2	35	34	30	24	26	38	33	34	30	27	37	28	376	12
3	36	35	39	31	33				30	32	35	38	309	9
4	36	40	38	35	41	40	33	24	20	27	20	22	376	12
5	25	21	30	20	22	26	21	20	19	20	22	23	269	12
6	32	25	24	23	21	28	31	29	23	17	23	30	306	12
7	26	32	24	36	27	25	33	15	23	31	31	31	334	12
8	37	24	25	32	34	24	33	31	30	37	34	38	379	12
9	33	28	30	32	26	27	35	34	34	31	37	34	381	12
10	31	30	34	28	29	31	27	24	30	34	30	27	355	12
11	25	28	35	38	33	34	37	28	34	33	24	19	368	12
12	25	30	21	26	33	29	32	25	23	24	20	26	314	12
13	31	21	29	24	25	33	36	30	20	26	20	17	312	12
14	23	18	22	31	18	23	20	31	26	20	25	25	282	12
15	22	28	28	30	21	24	25	22	26	24	26	25	301	12
16	27	23	23	25	21	21	21	17	23	26	20	21	268	12
17	25	25	21	23	25	30	26	30	25	24	23	23	300	12
18	31	26	32	30	25	29	26	31	24	27	20	38	339	12
19	22	41	25	30	34	29	39	29	23	27	24	29	352	12
20	21	22	21	29	32	36	34	27	32	26	31	26	337	12
21	30	26	33	39	28	25	19	32					232	8
22									26	23	16	14	125	6
23	9	16	14	16	20	23	20	16	7	15	9	14	179	12
24	22	23	20	28	17	20	24	23	16	24	14	12	243	12
25	28	32	29	23	23	25	20	16	18	24	25	25	288	12
26	25	23	31	26	25	31	26	30	22	23	27	29	318	12
27	18	23	23	19	24	23	17	25	18	11	18	16	235	12
28	16	26	22	29	30	21	22	24	20	21	23	24	278	12
29	23	21	29	28	29	27	24	32	24	26	26	27	316	12
30	38	29	26	27	30	30	36	31	29	30	31	32	369	12
31														
SUM	715	727	715	745	725	761	756	710	647	679	665	684	8527	347

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 14

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JULY 1937

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	34	36	29	30	34	29	38	38	30	33	23	35	389	12
2	34	40	37	39	36	35	33	35	33	35	30	34	421	12
3	36	44	46	34	43	43	39	36	29	30	35	34	449	12
4	42	32	39	37	46	41	47	45	39	32	32	39	471	12
5	31	28	34	43	41	39	40	41	31	31	35	35	429	12
6	37	38	35	40	38	43	30	27	28	26	32	32	406	12
7	33	32	37	36	38	42	33	37	29	30	35	31	413	12
8	39	31	32	33	35	35	40	39	24	30	35	26	399	12
9	32	34	33	36	34	39	38	33	28	35	33	22	397	12
10	30	27	30	30	34	30	25	27	25	15	23	32	328	12
11	22	32	31	30	33	39	38	25	32	25	29	30	366	12
12	24	37	31	39	32	38	26	34	25	26	29	26	367	12
13	30	31	31	32	35	33	36	38	30	22	24	16	358	12
14	23	30	36	34	37	40	41	29	22	33	21	28	374	12
15	30	28	29	30	31	36	32	33	34	31	26	34	374	12
16	27	28	28	34	36	36	36	36	32	20	23	28	364	12
17	29	30	27	41	31	34	37	26	32	33	24	23	367	12
18	30	36	38	40	44	39	33	36	30	29	32	30	417	12
19	35	39	35	41	37	38	43	35	29	28	26	29	415	12
20	23	24	22	25	22	33	29	30	24	21	26	30	309	12
21	29	31	29	24	26	30	30	27	20	23	24	26	319	12
22	29	32	20	30	30	31	32	29	30	29	27	28	347	12
23	24	34	26	27	27	25	28	28	24	26	21	23	313	12
24	24	32	34	31	32	37	32	28	22	23	30	23	348	12
25	26	31	24	31	32	41	34	39	38	29	38	32	395	12
26	27	29	31	25	24	35	39	33	33	28	36	39	379	12
27	36	30	30	32	34	31	30	33	29	27	33	38	383	12
28	29	23	36	29	33	37	33	32	35	32	26	32	377	12
29	33	35	28	35	41	37	39	39	29	28	31	24	399	12
30	29	35	31	42	44	41	40	30	41	34	33	38	438	12
31	32	33	33	38	44	34	38	29	35	38	26	30	410	12
SUM	939	1002	982	1048	1084	1121	1089	1027	922	862	898	927	11921	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 15

AUGUST 1937

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	24	25	35	28	38	35	29	29	26	28	20	16	333	12
2	20	26	30	38	30	29	29	21	21	16	29	32	321	12
3	39	31	31	27	24	27	25	21	14	18	20	25	302	12
4	35	27	25	26	34	26	27	26	31	17	22	27	323	12
5	21	30	26	35	24	24	24	23	21	19	23	17	287	12
6	38	31	31	24	35	34	26	30	26	15	17	24	331	12
7	31	33	25	29	25	26	34	26	22	18	20	21	310	12
8	27	34	32	28	26	25	32	27	30	27	28	35	351	12
9						28	33	29	30	26	23	26	195	7
10	31	29	41	35	28	38	35	27	33	29	31	27	384	12
11	31	43	29	28	37	34	35	28	26	37	36	35	399	12
12	40	29	26	33	30	39	31	36	29	27	28	33	381	12
13	29	28	23	31	30	28	36	29	29	28	27	31	349	12
14	22	30	22	32	36	37	39	31	30	28	31	23	361	12
15	29	32	37	30	36	37	38	34	30	36	31	33	403	12
16	36	34	34	36	37	36	34	33	35	32	36	31	414	12
17	35	36	32	34	30	34	34	37	36	35	32	35	410	12
18	36	26	33	44	32	36	31	27	33	28	27	35	388	12
19	35	28	32	30	38	31	34	34	35	34	27	28	386	12
20	29	28	33	36	37	41	40	41	31	37	39	30	422	12
21	27	33	39	44	39	32	34	41	35	32	34	27	417	12
22	37	32	41	37	41	44	38	39	30	39	32	38	448	12
23	37	40	40	45	39	44	33	35	29	37	30	41	450	12
24	36	34	36	34	38	42	33	27	34	30	42	32	418	12
25	42	37	31	36	37	39	39	34	35	32	35	30	427	12
26	33	31	35	33	43	37	44	40	37	36	30	33	432	12
27	42	37	38	42	43	38	31	27	33	31	30	28	420	12
28	34	37	38	31	37	37	40	42	33	35	32	30	426	12
29	32	30	37	37	37	38	32	34	23	34	34	34	402	12
30	28	31	41	36	29	37	33	31	29	38	37	34	404	12
31	35	29	37	33	34	40	31	32	32	29	29	34	395	12
SUM	971	951	990	1012	1024	1045	1001	942	888	882	889	899	11494	367

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 16

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

SEPTEMBER 1937

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	24	31	29	28	29	28	33	29	40	31	40	33	375	12
2	28	37	26	32	29	30	31	28	33	29	30	27	360	12
3	37	31	44	39	39	41	30	34	30	39	19	38	421	12
4	34	35	33	31	34	31	33	33	33	32	36	35	400	12
5	35	31	40	31	39	37	45	36	22	34	33	39	422	12
6	30	32	33	30	40	28	24	26	26	31	30	32	362	12
7	21	30	37	28	32	24	38	33	34	37	26	28	368	12
8	33	33	28	28	32	36	37	36	33	32	26	28	382	12
9	24	28	28	29	34	28	24	24	28	30	24	28	329	12
10	24	30	27	34	33	36	26	29	33	23			295	10
11							23				25	30	78	3
12	35	38	31	25	37	27	33	34	29	31	27	21	368	12
13	32	38	37	37	34	32	31	27	31	36	26	32	393	12
14	32	27	28	31	36	33	38	27	30	19	18	20	339	12
15	28	27	24	33	33	31	22	19	28	27	21	24	317	12
16	25	26	26	23	21	24	38	28	37	26	20	27	321	12
17	27	26	33	31	27	34	27	33	28	29	25	30	350	12
18	37	22	31	31	28	22	34	35	30	23	22	30	345	12
19	29	37	36	32	35	31	32	32	29	28	29	26	376	12
20	33	38	34	29	33	36	28	30	37	34	36	34	402	12
21	31	32	38	30	33	31	40	32	34	43	30	40	414	12
22	28	46	32	37	38	41	35	34	35	34	27	28	415	12
23	30	35	31	32	34	31	31	26	26	32	26	32	366	12
24	32	29	37	37	27	27	30	33	29	24	27	34	366	12
25	34	29	29	35	31	36	36	33	30	29	26	35	383	12
26	36	32	34	35	28	40	34	34	29	33	23	38	396	12
27	34	34	30	34	27	25	34	30	31	36	29	38	382	12
28	33	37	37	35	37	38	36	29	31	34	39	32	418	12
29	41	34	34	36	40	33	33	38	40	36	26	48	439	12
30	30	38	34	36	40	36	39	31	36	38	33	38	429	12
31														
SUM	873	913	914	895	927	891	926	864	879	887	774	895	10638	349

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 17

OCTOBER 1937

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	38	30	35	32	36	45	36	27	17	24	24	27	371	12
2	21	27	29	29	27	28	30	27	20	28	24	31	321	12
3	27	32	28	24	25	30	24	23	25	13	17	22	290	12
4	31	15	17	12	20	22	16	18	13	16	24	19	223	12
5	21	21	27	30	18	27	21	24	17	21	23	20	270	12
6	25	19	14	17	25	24	24	22	19	23	20	13	245	12
7	19	33	27	18	16	36	35	14	22	22	14	33	289	12
8	34	31	37	27	30	36	31	33	31	28	21	27	366	12
9	39	25	32	37	44	32	38	36	16	22	20	22	363	12
10	21	20	28	18	27	35	37	25	24	24	25	26	310	12
11	25	29	23	24	21	22	26	21	21	11	17	20	260	12
12	14	23	27	24	30	23	12	18	20	24	13	12	240	12
13	24	25	26	25	35	27	34	25	18	24	25	20	308	12
14	30	24	28	32	26	32	26	21	22	17			258	10
15											28	30	58	2
16	33	36	31	30	27	35	33	32	27	28	33	35	380	12
17	35	33	34	30	34	32	28	37	29	34	30	36	392	12
18	28	31	41	25	29	26	32	33	29	28	36	36	374	12
19	28	31	25	29	31	26	37	39	28	31	31	35	371	12
20	26	39	27	22	32	28	41	35	34	30	33	34	381	12
21	35	19	21	35	40	38	34	37	35	35	34	31	394	12
22	30	31	33	35	32	32	35	32	27	23	38	30	378	12
23	34	28	30	34	32	31	42	28	31	35	32	30	387	12
24	32	34	27	37	36	30	36	30	32	29	26	26	375	12
25	32	29	35	34	27	31	21	32	27	30	27	27	352	12
26	28	33	31	26	26	26	29	29	29	28	24	24	333	12
27	30	23	28	25	31	34	36	22	29	33	31	25	347	12
28	28	35	34	28	33	31	32	31	36	36	35	29	388	12
29	30	28	32	26	28	34	34	28	26	30	27	24	347	12
30	31	32	31	30	32	38	33	31	32	29	25	35	379	12
31	32	37	31	26	35	35	38	34	27	36	33	29	393	12
SUM	831	829	841	789	859	894	905	823	741	775	762	778	9827	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 18

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

NOVEMBER 1937

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	34	27	41	30	33	38	40	42	40	38	35	38	436	12
2	38	38	25	38	31	38	37	35	34	32	30	37	413	12
3	29	34	31	40	39	38	38	37	34	36	37	39	432	12
4	38	39	39	28	36	41	47	36	35	38	28	36	441	12
5	40	32	34	34	40	41	37	31	38	41	39	32	439	12
6	37	27	28	34	23	37	40	32	34	35	37	28	392	12
7	27	44	26	38	39	39	40	48	45	32	35	38	451	12
8	37	41	27	35	35	42	41	34	32	27	31	33	415	12
9	35	31	35	40	34	36	37	34	27	29	25	27	390	12
10	33	31	30	27	34	26	36	36	31	24	28	29	365	12
11	30	26	28	31	30	26	38	27	25	21	28	24	334	12
12	28	22	26	24	26	29	26	33	24	27	27	22	314	12
13	21	28	29	20	26	25	22	33	30	25	29	33	321	12
14	37	38	33	31	36	27	42	38	40	31	29	35	417	12
15	27	30	30	40	33	29	28	29	36	27	30	32	371	12
16	33	27	23	27	30	38	38	32	34	30	34	26	372	12
17	38	35	34	34	36	32	37	35	35	30	33	35	414	12
18	39	42	33	29	36	39	46	36	35	37	30	30	432	12
19	30	26	38	23	34	32	37	42	32	30	31	30	385	12
20	33	24	29	27	26	28	34	33	30	24	23	27	338	12
21	35	26	27	23	30	27	20	30	31	21	23	31	324	12
22	30	32	25	32	26	31	20	29	26				251	9
23					35	19	28	31	24	22	32	27	218	8
24	29	26	27	32	24	28	31	28	23	23			271	10
25					32	31	30	34	24	28	27	30	236	8
26	26	31	25	24	35	32	36	35	26	30	28	24	352	12
27	34	31	23	30	32	30	33	28	28	34	32	38	373	12
28	34	37	38	40	36	28	24	26	32	23	30	35	383	12
29	37	25	33	31	29	29	32	34	32	21	25	27	355	12
30	25	29	25	28	32	29	25	26	27	32	29	34	341	12
31														
SUM	855	821	790	806	851	856	911	882	847	775	786	820	10000	347

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 19

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

DECEMBER 1937

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	32	32	30	29	33	38	26	30	23	28	32	27	360	12
2	36	35	30	31	34	32	42	32	24	27	26	37	386	12
3	34	39	42	39	34	30	33	32	32	31	40	36	422	12
4	40	51	42	38	40	39	30	38	33	34	23	36	444	12
5	28	34	28	33	44	40	41	30	31	27	24	32	392	12
6	39	32	28	34	34	39	38	44	30	35	36	29	418	12
7	28	33	28	41	26	37	47	32	37	33	21	38	401	12
8	33	30	26	33	39	41	38	33	33	31	29	22	388	12
9	32	31	36	32	36	45	31	34	30	29	33	27	396	12
10	35	35	29	34	35	39	34	33	40	30	29	30	403	12
11	33	41	34	39	35	41	29	39	30	29	43	34	427	12
12	32	34	36	43	33	31	43	34	33	28	33	33	413	12
13	37	30	28	42	39	30	36	37	35	34	41	39	428	12
14	37	34	31	38	39	32	43	35	39	35	42	39	444	12
15	37	47	32	29	39	46	38	42	37	42	40	39	468	12
16	41	36	45	41	42	39	37	35	29	39	37	38	459	12
17	38	35	36	38	38	41	40	34	34	36	29	36	435	12
18	33	37	33	36	43	42	37	40	35	39	39	34	448	12
19	33	27	34	37	33	34	39	32	28	28	32	35	392	12
20	28	27	33	36	35	42	36	31	31	32	37	31	399	12
21	32	36	32	35	34	35	35	32	30	33	44	30	408	12
22	34	37	32	28	37	31	35	36	30	30	36	30	396	12
23	32	27	21	29	36	36	33	30	31	30	26	22	353	12
24	27	19	23	29							24	25	147	6
25	23	29	33	30	38	34	33	39	31	32	30	32	384	12
26	30	28	26	34	37	44	38	34	34	33	24	32	394	12
27	32	34	28	37	35	37	31	38	34	32	29	26	393	12
28	32	31	32	29	32	33	36	36	35	40	31	24	391	12
29	38	36	34	27	38	39	42	42	37	29	29	41	432	12
30	32	34	32	38	35	44	39	39	34	34	42	32	435	12
31	36	31	36	40	41	41	41	37	43	36	39	41	462	12
SUM	1007	1023	967	1050	1094	1132	1101	1060	983	976	996	982	12371	366

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 20

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JANUARY 1938

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	37	33	41	36	39	37	33	36	30	31	36	33	422	12
2	41	33	48	29									151	4
3					30	34	29	27	35	38	38	37	268	8
4	29	36	35	40	34	38	33	33	35	34	38	27	412	12
5	32	37	35	36	34	30	29	37	31	32	30	30	393	12
6														
6	31	25	35	30	36	33	33	43	39	31	33	34	403	12
7	28	25	27	31	33	34	22	35	31	28	31	35	360	12
8	33	27	30	36	33	41	35	36	31	31	36	32	401	12
9	31	34	26	37	33	29	35	35	32	29	29	39	389	12
10	38	37	34	36	40	32	32	39	32	37	36	31	424	12
11														
11	41	39	35	32	39	31	44	40	30	36	38	40	445	12
12	40	46	39	34	41	41	45	35	37	42	45	43	488	12
13	39	52	44	41	44	48	42	39	41	34	31	30	485	12
14	33	45	34	41	32	41	40	35	31	28	40	36	436	12
15	37	33	30	37	36	30	34	33	29	28	35	31	393	12
16														
16	35	34	37	27	37	38	29	35	41	34	18	3	368	12
17	-2	-6	-14	-11	-7	0	2	-8	-10	-15	-12	-13	-96	12
18	-9	-2	4	5	2	3	3	-7	0	1	-3	3	0	12
19	12	-8	14	11	5	8	7	14	4	4	3	7	81	12
20	9	13	19	14	16	18	17	25	16	18	19	25	209	12
21														
21	19	33	20	16	23	16	26	23	23	25	19	20	263	12
22	4	-5	-4	-3	3	10	13	0	-8	-6	-5	-8	-9	12
23	-5	7	10	15	17	15	15	6	9	8	5	4	106	12
24	3	5	-2	13	26	28	22	27	13	12	17	20	184	12
25	15	17	22	25	16	11	3	-4	-4	-10	-4	-1	86	12
26														
26	-3	-10	-10	-13	-4	3	3	6	18	12	17	19	38	12
27	23	24	16	16	13	18	21	16	13	16	22	18	216	12
28	21	15	19	22	21	20	27	14	14	32	26	27	258	12
29	28	30	17	26	23	22	29	27	29	27	29	28	315	12
30	22	17	23	24	33	27	32	26	31	29	26	29	319	12
31	29	26	34	34	20	22	29	30	39	30	26	27	346	12
SUM	650	659	650	688	718	724	735	706	657	638	661	649	8135	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 21

FEBRUARY 1938

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	28	22	23	29	20	22	23	24	27	32	30	36	316	12
2	14	26	24	28	29	30	33	27	24	25	25	32	317	12
3	18	24	25	26	24	29	36	18	26	32	30	29	317	12
4	31	29	28	37	30	30	34	34	36	22	24	29	364	12
5	28	34	34	32	37	33	38	23	24	26	28	27	364	12
6	31	33	36	35	21	26	29	34	31	27	24	21	348	12
7	29	26	20	21	21	24	21	30	20	16	16	14	258	12
8	14	17	22	15	21	17	17	24	13	15	11	24	210	12
9	27	28	28	19	19	14	20	17	17	21	19	14	243	12
10	26	30	26	21	19	23	32	23	19	17	24	17	277	12
11	16	18	22	17	23	28	21	19	21	12	17	13	227	12
12	12	24	18	23	22	28	26	23	21	23	18	19	257	12
13	23	19	20	24	20	31	26	23	27	24	20	22	279	12
14	18	20	19	20	22	22	32	16	24	12	14	17	236	12
15	19	9	16	16	19	18	15	21	14	20	18	11	196	12
16	14	20	18	17	17	23	22	18	18	20	18	22	227	12
17	22	23	30	27	23	26	26	21	21	24	18	10	271	12
18	23	21	22	21	26	34	29	18	23	20	16	20	273	12
19	27	31	33	30	33	40	34	35	29	30	30	31	383	12
20	44	37	31	33	28								173	5
21					35	36	39	40	34	31	31	31	277	8
22	37	34	34	36	33	34	29	32	27	38	37	37	408	12
23	35	31	41	35	37	41	38	36	36	30	27	32	419	12
24	34	33	33	33	37	37	39	45	38	38	32	30	429	12
25	33	39	26	29	37	41	40	33	34	34	38	32	416	12
26	36	37	34	28	33	42	39	38	34	31	31	30	413	12
27	28	37	26	35	29	36	32	31	31	27	27	36	375	12
28	36	33	39	42	29	35	38	25	33	37	35	34	416	12
29														
30														
31														
SUM	659	698	697	696	681	764	769	688	668	653	627	639	8239	325

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 22

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MARCH 1938

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	37	36	28	34	38	37	47	38	32	35	25	29	416	12
2	30	31	30	35	32	34	42	28	34	35	33	31	395	12
3	28	40	37	38	36	35	36	34	38	35	33	39	429	12
4	41	35	37	33	41	42	44	37	46	33	31	34	454	12
5	33	40	37	39	37	39	42	34	37	41	32	34	445	12
6	29	37	32	43	41	41	36	46	38	37	30	30	440	12
7	36	44	27	42	39	37	38	39	45	38	41	31	457	12
8	30	35	35	40	30	37	41	41	34	29			352	10
9											39	40	79	2
10					45	42	36	32	44	47	38	37	321	8
11	39	38	42	33	41	39	43	49	46	42	46	43	501	12
12	34	38	35	30	35	44	39	37	43	31	33	35	434	12
13	30	28	35	29	37	47	37	36	39	37	35	34	424	12
14	31	26	38	35	30	35	40	32	36	37	38	38	416	12
15	32	34	34	34	42	34	44	37	38	32	34	27	422	12
16	42	32	28	30	41	41	35	30	31	41	34	35	420	12
17	32	30	39	36	36	30	35	41	35	42	41	40	437	12
18				33		33	34	33	30				163	5
19						30	25	26	26	29	28	38	202	7
20	36	40	29	31	38	45	33	41	32	29	28	35	417	12
21	32	38	38	32	32	34	37	32	33	23	34	32	397	12
22	41	35	36	36	35	30	21	31	33	23	16	18	355	12
23	19	26	32	26	21	29	20	26	23	28	21	19	290	12
24	31	31	25	30	23	32	35	27	29	30	25	28	346	12
25	30	36	28	32	23	29	35	36	30	27	28	23	357	12
26	28	20	23	20	29	26	33	34	34	30	21	32	330	12
27	26	30	32	30	36	31	34	32	33	29	39	32	384	12
28	33	26	39	28	39	32	37	39	39	36	43	36	427	12
29	32	31	41	31	41	39	35	43	40	44	27	36	440	12
30	35	34	38	34	41	43	41	42	31	35	32	32	438	12
31	31	33	29	27	40	40	41	38	36	35	35	45	430	12
SUM	848	869	869	848	924	945	960	939	931	865	835	848	10701	344

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 23

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

APRIL 1938

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	35	34	28	37	38	38	40	34	37	35	34	27	417	12
2	30	33	28	43	36	33	29	39	33	31	35	28	398	12
3	34	35	35	35	44	33	30	36	33	38	27	41	421	12
4	34	35	38	37	44	46	39	34	38	38	37	44	464	12
5	39	41	43	31	42	37	41	41	37	34	43	31	460	12
6	32	41	37	34	25	33	31						233	7
7												19	19	1
8	18	22	22	25	24	32	32	28	18	22	19	31	293	12
9	25	23	25		28	34	39		24	27	19		244	9
10							33	37	33	29			132	4
11					32		36	32			17	27	144	5
12	30	36	22	24	24	22	21	24	24	21	21	21	290	12
13	26	30	23	23	19	20	21	17	6	12	7	14	218	12
14	5	4	14	11	13	16	15	15	12	9	9	12	135	12
15	11	13	4	9	14	17	20	17	18	13	14	26	176	12
16	14	33	13	9	- 1	17	6	8	11	19	10	8	147	12
17	7	12	8	17	15	22	23	12	10	17	25	19	187	12
18	17	24	18	21	17	24	20	21	33	25	35	27	282	12
19	25	25	22	27	27	27	25	26	32	30	24	32	322	12
20	20	30	24	18	37	31					34	32	226	8
21	35	31	43	26	34	35	34	25	35	37	36	25	396	12
22	36	39	46	33	37	37	40				31	24	323	9
23	33	32	33	35	39	37	35	31	28	28	33	31	395	12
24	30	33	34	33	35	37	32	34	32	31	35	33	399	12
25	35	38	32	37	38	43	36	28	38	36	38	43	442	12
26	36	40	40	33	39	41	40	31	38	30	31	33	432	12
27	37	41	36	40	44	36	44	35	32	36	37	32	450	12
28	34	40	42	36	42	48	43	39	32	39	33	27	455	12
29	37	36	35	36	40	41	40	47	39	37	28	34	450	12
30	36	33	38	36	38	41	34	44	37	37	30	38	442	12
31														
SUM	638	701	651	661	705	743	700	666	653	655	641	657	8071	319

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 24

MAY 1938

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY
 BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
 CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	40	39	43	34	39	46	37	42	33	46	42	33	474	12
2	37	41	38	41	40	43	48	37	44	33	38	41	481	12
3	39	37	37	41	38	44	36	37	29	33	37	46	454	12
4	42	41	34	35	44	46	44	37	45	32	34	42	476	12
5	35	40	36	38	45	41	50	38	40	38	38	41	480	12
6	47	37	40	41	44	41	43	43	34	41	44	41	496	12
7	32	39	42	42	42	41	43	46	41	33	34	32	467	12
8	30	41	40	44	35	45	42	38	38	33	37	27	450	12
9	36	28	37	33	38	42	33	40	34	31	36	33	421	12
10	37	35	34	35	42	38	36	46	32	29	36	28	428	12
11	31	39	25	40	39	39	27	37	34	27	23	26	387	12
12	32	30	19	20	22	20	22	28	22	19	18	27	279	12
13	24	22	28	24	28	30	29	20	22	26	29	28	310	12
14	25	25	24	29	28	25	30	24	25	30	23	25	313	12
15	26	28	25	25	30	29	33	28	21	17	27	19	308	12
16	21	28	30	32	28	27	29	30	33	31	30	28	347	12
17	23	33	29	33	34	39	27	30	27	31	28	24	358	12
18	24	39	35	36	36	30	35	31	27	26	30	31	380	12
19	34	33	34	38	40	42	46	43	26	34	31	31	432	12
20	31	41	37	45	35	39	38	43	37	27	31	34	438	12
21	38	37	32	39	46	46	49	45	39	37	51	36	495	12
22	36	44	32	40	44	47	42	33	44	40	43	41	486	12
23	46	44	46	53	50	48	50	44	47	53	47	49	577	12
24	50	48	45	46	47	42	49	37	36	37	43	41	521	12
25	41	43	47	44	52	36	38	42	27	31	26	34	461	12
26	35	31	35	38	36	48	42	38	36	42	36	41	458	12
27	35	39	41	41	41	49	46	49	43	37	40	45	506	12
28	37	47	36	41	48	44	44	40	55	40	38	40	510	12
29	43	39	40	35	42	41	42	34	34	39	39	42	470	12
30	42	43	36	48	31	40	47	43	39	39	34	35	477	12
31	34	34	40	33	43	46	56	43	40	43	40	43	495	12
SUM	1083	1145	1097	1164	1207	1234	1233	1166	1084	1055	1083	1084	13635	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 25

JUNE 1938

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	37	46	39	43	39	46	48	44	45	42	42	34	505	12
2	37	43	39	45	54	53	43	52	43	43	40	50	542	12
3	43	46	41	46	51	45	50	44	43	41	41	36	527	12
4	48	38	37	37	49	49	47	48	44	52	42	43	534	12
5	41	38	41	48	49	49	50	48	38	32	36	34	504	12
6	41	42	37	35	47	45	45	41	44	33	31	36	477	12
7	36	32	44	41	50	51	48	52	40	34	37	24	489	12
8	31	33	40	35	41	38	40	31	26	29	24	31	399	12
9	34	41	33	34	41	34	32	32	29	35	52	50	447	12
10	34	40	39	34	45	41	40	34	33	35	39	34	448	12
11	37	44	41	38	44	35	41	41	35	35	39	40	470	12
12	41	51	45	35	41	43	41	47	36	28	33	34	475	12
13	38	36	40	36	30	43	38	44	35	35	43	35	453	12
14	39	48	47	50	40	46	45	41	40	42	42	35	515	12
15	45	45	45	46	48	43	42	40	36	39	41	49	519	12
16	40	41	45	48	42	47	47	43	41	42	38	37	511	12
17	43	32	39	40	49	57	51				41	47	399	9
18	42	44	49	45	53	49	48	53	49	41	46	48	567	12
19	49	46	44	50	46	55	48	49	44	43	50	47	571	12
20	51	50	49	48	49	61	54	48	49	44	39	49	591	12
21	47	53	50	53	52	53	51	55	38	50	45	39	586	12
22	45	46	52	50	57	59	51	55	43	44	44	41	587	12
23	48	54	45	57	52	44	46	51	41	46	47	47	578	12
24	49	40	49	49	48	47	50	49	49	48	45	40	563	12
25	53	53	51	56	44	53	49	46	47	49	48	57	606	12
26	57	42	53	48	43	47	50	43	53	46	54	48	584	12
27	52	53	54	47	45	48	51	45	50	45	52	52	594	12
28	53	50	55	55	50	48	47	55	50	39	46	47	595	12
29	46	53	48	55	42	49	39	52	60	51	47	52	594	12
30	56	47	50	47	61	62	56	55	50	46	47	45	622	12
31														
SUM	1270	1295	1302	1311	1353	1383	1337	1338	1231	1169	1230	1214	15453	357

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 26

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JULY 1938

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	47	49	59	57	49	55	55	48	45	50	45	41	600	12
2	39	53	54	51	51	47	55	43	41	56	49	42	581	12
3	36	44	48	47	54	47	43	44	36	36	38	43	516	12
4	35	48	50	49	51	54	53	51	41	47	43	48	570	12
5	45	46	46	42	44	42	50	38	41	43	43	45	525	12
6	52	51	51	48	49	46	51	43	46	42	42	44	565	12
7	45	42	49	44	50	48	46	47	55	44	42	42	554	12
8	48	56	54	45	47	56	52	51	41	40	47	44	581	12
9	48	44	41	52	53	48	45	46	47	46	38	46	554	12
10	54	49	50	49	55	45	51	44	41	38	41	39	556	12
11	38	36	50	48	46	53	45	49	45	45	47	48	550	12
12	45	47	58	53	52	54	56	47	49	48	54	42	605	12
13	51	47	48	41	51	44	49	36	45	44	38	48	542	12
14	43	46	35	40	36	33	41	40	38	31	30	39	452	12
15	41	44	38	37	40	40	41	31	37	36	31	42	458	12
16	36	38	38	35	35	55	46	42	39	46	41	35	486	12
17	41	36	41	49	46	42	49	40	47	45	41	45	522	12
18	40	45	40	49	55	56	48	44	48	53	51	50	579	12
19	48	46	50	54	42	47	43	43	45	53	51	45	567	12
20	42	49	44	44	50	50	47	46	49	40	44	42	547	12
21	44	38	44	40	47	50	51	44	41	37	44	38	518	12
22	45	37	45	49	49	42	46	40	48	33	42	41	517	12
23	41	49	50	45	44	47	46	45	45	50	45	46	553	12
24	50	47	46	48	49	51	54	54	47	42	50	45	583	12
25	44	45	38	49	42	57	59	50	52	52	49	43	580	12
26	49	46	46	52	49	52	54	46	56	46	52	50	598	12
27	52	52	50	55	45	54	51	53	49	49	55	49	614	12
28	52	48	53	45	57	54	50	55	48	46	46	47	601	12
29	50	58	49	52	52	54	48	42	49	42	40	50	586	12
30	50	58	57	56	57	46	51	57	46	47	46	42	613	12
31	43	47	42	52	48	51	47	47	45	51	43	47	563	12
SUM	1394	1441	1464	1477	1495	1520	1523	1406	1402	1378	1368	1368	17236	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 27

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

AUGUST 1938

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	39	48	43	48	52	49	40	46	54	41	39	46	545	12
2	40	48	42	47	41	44	51	47	41	47	48	44	540	12
3	54	38	38	39	52	49	46	42	38	49	32	35	512	12
4	30	39	33	37	33	36	28	31	27	32	32	34	392	12
5	29	36	35	37	41	38	40	32	28	31	33	38	418	12
6	34	35	38	42	45	47	37	40	37	42	41	39	477	12
7	47	45	42	48	44	47	50	37	45	46	39	46	536	12
8	51	50	48	57	51	58	51	54	46	45	54	45	610	12
9	42	49	55	53	62	54	53	51	51	50	59	44	623	12
10	47	45	49	53	53	50	55	42	53	43	48	38	576	12
11	45	48	47	61	48	57	48	51	51	46	44	41	587	12
12	46	45	58	55	58	45	52	47	50	44	44	43	587	12
13	50	45	48	43	53	56	50	53	49	40	53	52	592	12
14	41	47	48	43	53	50	48	53	48	44	37	45	557	12
15	47	54	54	51	58	51	53	54	53	42	50	45	612	12
16	52	50	43	48	56	54	51	52	45	52	54	53	610	12
17	44	55	52	50	53	60	54	56	50	47	50	53	624	12
18	46	55	54	52	62	54	60	57	48	51	47	51	637	12
19	58	51	54	53	56	53	60	55	48	52	47	51	638	12
20	56	57	52	46	53	67	48	56	56	44	52	56	643	12
21	48	59	56	64	59	46	50	57	47	53	50	49	638	12
22	57	54	57	55	55	62	56	55	50	53	48	46	648	12
23	55	58	46	49	48	49	46	49	47	42	46	47	582	12
24	45	48	48	54	52	54	52	47	43	39	36	38	556	12
25	42	46	42	49	44	49	53	55	47	55	44	47	573	12
26	37	45	49	43	49	52	46	50	51	45	41	38	546	12
27	45	44	48	42	48	51	53	46	39	41	42	42	541	12
28	37	50	49	55	45	51	44	43	38	44	46	41	543	12
29	45	45	53	51	56	54	52	50	53	52	45	53	609	12
30	46	49	39	41	40	47	44	43	47	48	56	45	545	12
31	47	56	45	47	51	41	52	46	42	39	42	50	558	12
SUM	1402	1494	1465	1513	1571	1575	1523	1497	1422	1399	1399	1395	17655	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 28

SEPTEMBER 1938

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, ± 45 , (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
 CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	44	48	40	43	44	50	48	55	40	49	41	48	550	12
2	48	42	44	51	53	51	52	52	56	48	45	40	582	12
3	41	55	45	58	55	57	55	45	47	53	50	52	613	12
4	48	50	57	51	43	47	54	45	47	45	42	39	568	12
5	52	59	53	54	52	49	53	49	49	46	52	43	611	12
6	59	62	50	60	62	60	51	45	47	51	36	48	631	12
7	47	54	49	56	51	59	53	51	50	50	44	51	615	12
8	60	48	54	53	56	55	57	54	46	60	46	54	643	12
9	54	51	59	56	47	50	56	50	46	48	52	46	615	12
10	57	51	56	61	62	55	53	50	49	50	54	54	652	12
11	57	55	52	55	53	55	58	49	56	49	46	42	627	12
12	54	50	49	57	52	54	51	46	45	42	58	54	612	12
13	54	63	56	63	57	55	55	55	57	58	58	52	683	12
14	47	41	40	38	46	40	42	42	44	49	47	40	516	12
15	44	63	45	56	62	62	57	61	55	51	54	53	663	12
16	47	50	49	53	56	54	59	60	40	52	43	39	602	12
17	47	48	47	56	57	51	51	48	52	50	49	50	606	12
18	54	57	50	54	57	59	56	54	49	46	44	47	627	12
19	59	49	49	49	47	56	48	52	49	43	49	50	600	12
20	55	51	55	52	54	57	62	52	51	43	49	49	630	12
21	53	47	54	62	56	59	57	46	54	53	49	38	628	12
22	41	48	46	54	48	44	52	48	48	45	47	37	558	12
23	41	42	40	37	45	39	36	49	38	48	44	44	503	12
24	45	41	49	37	40	47	43	44	49	46	42	47	530	12
25	44	40	52	53	51	55	48	40	43	46	40	44	556	12
26	53	51	50	52	51	49	46	51	36	45	44	46	574	12
27	44	43	45	39	33	41	40	42	32	36	37	42	474	12
28	31	33	33	30	36	34	42	36	34	28	28	43	408	12
29	30	29	34	31	33	29	33	30	40	30	36	28	383	12
30	42	32	34	27	37	22	22	22	25	16	31	25	335	12
31														
SUM	1452	1453	1436	1498	1496	1495	1490	1423	1374	1376	1357	1345	17195	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 29

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

OCTOBER 1938

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, ± 45 , (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
 CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	18	30	23	27	35	26	33	37	34	30	22	20	335	12
2	36	38	40	34	39	36	31	32	33	31	38	42	430	12
3	35	46	38	44	41	47	44	41	36	39	44	46	501	12
4	51	52	42	51	40	45	46	45	43	49	48	38	550	12
5	43	45	41	51	50	48	52	52	52	47	47	52	580	12
6	52	57	52	52	52	53	56	54	41	42	41	44	596	12
7	45	51	50	49	47	61	53	59	60	48	54	44	621	12
8	66	58	44	54	51	51	50	53	39	49	44	50	609	12
9	48	43	48	52	55	51	50	53	48	43	50	46	587	12
10	52	51	55	53	51	55	53	54	55	48	48	48	623	12
11	54	55	53	53	61	55	61	59	60	45	56	47	659	12
12	54	47	56	46	59	58	58	58	50	53	43	49	631	12
13	54	59	55	57	62	54	52	52	56	46	50	50	647	12
14	54	53	51	51	58	54	52	56	61	60	52	54	656	12
15	52	56	57	59	57	53	55	61	54	58	55	59	676	12
16	60	54	62	55	59	54	63	52	56	59	54	56	684	12
17	54	51	57	54	63	69	57	55	56	56	52	42	666	12
18	56	53	55	52	47	46	56	43	43	51	47	44	593	12
19	48	58	46	55	48	56	55	51	47	49	49	52	614	12
20	48	42	51	47	51	48	51	47	53	39	44	41	562	12
21	42	43	50	47	56	50	52	46	48	41	48	49	572	12
22	47	52	49	46	55	57	49	55	45	44	44	46	589	12
23	52	55	48	49	44	51	61	53	40	52	46	52	603	12
24	51	56	53	42	60	66	59	59	55	54	51	48	654	12
25	62	55	54	53	55	61	56	54	48	49	52	60	659	12
26	49	58	52	60	53	60	52	46	50	54	61	56	651	12
27	59	56	56	52	50	51	61	52	43	50	54	54	638	12
28	52	57	56	52	45	56	49	49	48	51	49	47	611	12
29	53	59	54	63	55	61	55	54	56	56	49	54	669	12
30	50	56	55	53	51	57	58	51	54	50	50	50	635	12
31	49	58	54	55	51	50	52	56	51	52	51	52	631	12
SUM	1546	1604	1557	1568	1601	1640	1632	1589	1515	1495	1493	1492	18732	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 30

NOVEMBER 1938

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	49	54	58	49	54	63	58	43	46	42	46	50	612	12
2	48	58	59	59	51	49	49	48	52	44	47	46	610	12
3	46	50	55	60	53	56	54	52	56	54	52	58	646	12
4	60	47	57	66	55	58	52	57	56	58	53	57	676	12
5	58	56	55	56	51	59	53	53	56	64	56	53	670	12
6	53	56	52	56	54	60	61	62	59	58	56	57	684	12
7	55	59	54	54	53	56	60	61	58	55	60	50	675	12
8	64	60	52	56	59	54	53	50	59	63	57	60	687	12
9	59	61	60	62	52	54	56	57	56	57	56	47	677	12
10	58	56	44	61	54	59	54	55	61	56	51	53	662	12
11	46	52	56	43	54	55	55	59	52	46	61	48	627	12
12	50	55	56	59	56	53	53	62	51	54	53	47	649	12
13	55	46	49	57	51	60	64	60	56	48	52	48	646	12
14	55	47	46	52	57	68	61	60	64	52	45	40	647	12
15	46	43	50	52	53	52	48	45	42	38	41	43	553	12
16	40	45	48	52	52	46	53	40	47	35	40	41	539	12
17	49	39	47	40							45		220	5
18	47	45	42	53	49	56	49	48	47	50	45	56	587	12
19	43	52	45	47	48	50	54	49	41	55	50	45	579	12
20	55	56	52	53	48	53	54	50	55	50	51	52	629	12
21	49	53	53	48	58	57	58	57	51	51	48	54	637	12
22	51	58	60	50	59	59	50	59	54	52	49	53	654	12
23	54	54	47	54	53	53	51	45	44	52	59	53	619	12
24	50	43	54	56	50	52	55	45	51	54	58	54	622	12
25	50	47	55	54	54	55	51	50	46	46	43	49	600	12
26	53	49	55	50	55	53	47	52	45	47	52	42	600	12
27	45	48	54	56	46	57	57	42	51	50	49	45	600	12
28	51	56	56	54	56	55	52	52	57	51	56	55	651	12
29	52	59	52	57	49	55	48	65	53	53	50	50	643	12
30	52	52	52	52	48	52	62	49	57	50	54	52	632	12
31														
SUM	1494	1517	1528	1578	1532	1609	1572	1527	1523	1465	1490	1458	18313	353

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 31

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

DECEMBER 1938

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	47	49	54	47	48	54	51	51	52	50	47	46	596	12
2	50	49	51	39	52	42	54	46	40	43	46	50	562	12
3	49	57	51	53	51	58	60	54	57	52	51	51	644	12
4	53	56	49	60	44	60	54	55	50	55	56	48	640	12
5	59	54	51	55	49	50	62	49	61	56	46	58	650	12
6	47	62	56	55	53	53	56	55	54	54	49	50	644	12
7	57	48	55	51	47	53	58	53	57	59	54	53	645	12
8	49	58	48	57	59	63	53	55	56	61	61	54	674	12
9	57	60	52	55	53	55	55	56	59	56	49	60	667	12
10	47	44	44	51	57	53	53	58	51	51	44	51	604	12
11	49	48	54	47	42	49	43	39	39	38	38	39	525	12
12	34	40	45	50	38	46	43	39	43	36	42	43	499	12
13	53	49	39	50	39	45	45	44	42	45	37	48	536	12
14	46	39	38	42	38	40	49	48	46	43	40	45	514	12
15	48	44	41	50	44	43	44	45	40	43	41	47	530	12
16	56	49	43	50	48	51	53	52	48	53	49	49	601	12
17	54	45	54	38	48	52	48	47	55	43	46	43	573	12
18	49	48	48	43	55	40	46	44	49	39	50	42	553	12
19	41	55	38	41	38	38	38	33	39	37	40	37	475	12
20	53	41	42	43	48	40	40	42	42	34	44	40	509	12
21	39	45	48	42	48	48	38	46	46	43	41	40	524	12
22	51	51	40	46	48	55	42	52	44	43	41	39	552	12
23	44	46	47	48	49	62	55	47	48	48	45	47	586	12
24	48	45	50	49	53	53	54	50	52	46	47	49	596	12
25	52	43	58	47	50	57	54	51	52	40	55	51	610	12
26	53	50	47	50	52	58	48	47	54	52	54	48	613	12
27	48	51	52	43	56	52	50	47	48	48	48	52	595	12
28	45	50	49	41	44	52	64	57	47	43	42	46	580	12
29	54	49	54	47	55	51	55	61	56	49	53	61	645	12
30	61	58	57	60	60	55	62	54	55	61	57	61	701	12
31	60	59	61	55	61	54	53	51	53	55	52	61	675	12
SUM	1553	1542	1516	1505	1527	1582	1580	1528	1535	1476	1465	1509	18318	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 32

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JANUARY 1939

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	61	57	60	55	69	65	59	62	53	53	57	57	708	12
2	61	62	63	60	61	63	63	60	52	53	45	49	692	12
3	57	46	59	62	54	51	56	50	52	53	50	52	642	12
4	55	56	55	59	55	64	56	54	56	57	48	52	667	12
5	61	54	53	45	51	54	57	50	56	62	56	53	652	12
6	46	49	54	54	59	57	62	53	56	49	54	54	647	12
7	54	57	58	49	57	60	61	63	55	53	54	53	674	12
8	45	48	57	50	63	54	52	63	50	45	50	49	626	12
9	52	53	51	52	52	51	56	51	51	53	47	48	617	12
10	48	51	44	48	65	56	61	47	43	49	53	50	615	12
11	51	51	49	50	50	50	57	48	44	52	41	51	594	12
12	55	47	41	52	41	44	52	55	51	55	49	45	587	12
13	44	44	48	51	50	58	46	53	50	45	46	46	581	12
14	47	50	57	53	50	59	54	54	49	41	44	51	609	12
15	54	43	50	46	53	53	63	63	48	50	53	51	627	12
16	54	54	51	44	51								254	5
17						48	41	45	44	48	45	41	312	7
18	41	41	41	42	37	42	41	42	47	44	39	42	499	12
19	41	41	39	37	43	46	44	42	37	48	46	44	508	12
20	51	44	40	41	42	42	43	43	41	34	41	38	500	12
21	50	42	58	46	45	49	50	49	46	51	51	46	583	12
22	49	53	47	47	47	50	53	56	45	47	48	53	595	12
23	48	47	51	46	57	58	56	55	47	51	49	55	620	12
24	52	50	59	54	56	62	56	50	54	54	56	49	652	12
25	54	56	49	50	58	65	59	50	58	49	51	52	651	12
26	59	56	52	50	61	57	61	66	63	66	59	44	694	12
27	51	54	51	62	56	64	58	67	54	59	57	52	685	12
28	58	50	48	56	58	57	60	60	65	63	57	52	684	12
29	56	56	49	61	54	57	62	64	62	65			586	10
30						66	56	56	53	64	56	57	408	7
31	51	57	54	59	54	58	59	62	50	52	48	51	655	12
SUM	1396	1359	1388	1376	1444	1489	1495	1468	1373	1388	1349	1339	16864	553

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 33

FEBRUARY 1939

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY
 BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
 CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	48	55	49	55	55	60	57	58	58	57	57	53	662	12
2	55	52	57	55	54	64	60	54	62	60	50	52	675	12
3	53	53	49	40	53	50	55	60	50	54	45	41	603	12
4	48	48	48	53	58	51	56	54	51	47	45	44	603	12
5	47	49	47	46	49	61	52	54	53	50	46	35	589	12
6	40	35	47	50	46	44	52	49	45	34	43	41	526	12
7	48	46	50	46	38	45	52	51	50	47	45	56	574	12
8	44	53	40	42	40	47	45	50	46	43	44	42	536	12
9	44	41	40	42	52	50	46	51	52	47	41	46	552	12
10	52	43	48	42	47	50	47	43	42	46	42	48	550	12
11	52	53	49	47	54	50	57	53	49	48	43	47	602	12
12	42	39	55	40	46	51	42	45	45	45	38	40	528	12
13	42	40	41	37	46	49	42	47	46	40	44	48	522	12
14	49	37	44	46	51	48	51	44	55	45	40	45	555	12
15	46	45	43	50	44	46	48	55	48	39	44	42	550	12
16	48	41	39	41	43	47	48	47	45	37	33	35	504	12
17	42	46	41	38	43	45	47	46	40	44	39	35	506	12
18	43	49	40	46	42	48	45	52	43	40	44	41	533	12
19	46	46	42	48	52	48	47	42	45	40	37	38	531	12
20	41	50	48	45	45	47	48	44	38	42	41	45	534	12
21	49	51	41	44	45	44	36	39	40	37	51	42	519	12
22	42	55	45	52	47	48	45	48	44	51	45	43	565	12
23	40	48	49	50	61	51	47	52	50	45	46	45	584	12
24	46	36	52	42	52	53	57	49	51	54	55	42	589	12
25	53	47	46	46	46	44	45	46	48	49	43	51	564	12
26	52	47	49	41	50	52	49	37	49	46	47	50	569	12
27	44	56	48	52	54	44	51	52	49	49	42	49	590	12
28	49	53	46	50	47	50	56	56	52	48	57	52	616	12
29														
30														
31														
SUM	1305	1314	1293	1286	1360	1387	1383	1378	1346	1284	1247	1248	15831	336

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 34

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MARCH 1939

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	49	46	51	54	49	55	52	46	45	49	49	45	590	12
2	38	51	46	48	39	42	48	45	43	49	40	35	524	12
3	47	45	47	41	45	45	55	43	47	46	44	42	547	12
4	38	41	41	44	49	41	48	37	48	40	40	38	505	12
5	46	41	40	46	53	40	46	50	44	42	45	35	528	12
6	40	43	48	47	54	47	45	52	45	42	39	53	555	12
7	52	45	46	46	46	46	55	45	47	51	49	50	578	12
8	55	49	49	43	51	52	54	55	50	51	42	54	605	12
9	54	50	51	46	46	50	52	44	47	46	44	44	574	12
10	45	42	47	43	42	45	46	37	41	49	48	48	533	12
11	37	43	51	44	50	44	46	43	44				402	9
12					40	47	47	42	52	48	49	43	368	8
13	49	49	54	52	46	52	52	54	52	45	43	46	594	12
14	52	40	42	49	47	41	55	48	43	46	33	33	529	12
15	35	36	42	42	38	50	44	38	40	37	35	41	478	12
16	43	35	35	45	48	49	52	48	42	37	39	41	514	12
17	37	49	46	42	47	38	48	45	42	40	42	40	516	12
18	40	40	42	44	47	40	40	43	44	51	42	40	513	12
19	40	42	45	42	38	57	49	53	45	44	45	35	535	12
20	45	41	43	40	47	46	45	48	36	48	38	35	512	12
21	40	43	49	46	45	55	49	51	48	50	42	42	560	12
22	46	51	40	46	46	37	49	42	48	48	42	36	531	12
23	40	48	43	45	44	44	45	47	51	41	46	29	523	12
24	36	43	51	41	49	42	46	54	50	60	51	43	566	12
25	50	46	50	42	50	47	47	50	49	48	49	55	583	12
26	46	49	47	42	50	52	53	50	52	47	55	60	603	12
27	46	55	54	56	48	51	53	52	49	51	48	52	615	12
28	43	47	49	48	44	49	50	54	54	47	42	52	579	12
29	48	49	51	58	43	51	45	47	51	50	50	45	588	12
30	41	49	40	43	44	50	52	51	49	51	50	46	566	12
31	48	40	43	60	53	48	52	47	48	47	47	37	570	12
SUM	1289	1305	1332	1341	1348	1362	1427	1376	1350	1353	1279	1252	16014	365

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 35

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

APRIL 1939

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	39	51	51	42	47	44	50	50	48	53	50	56	581	12
2	47	46	49	51	51	43	50	50	45	41	50	49	572	12
3	53	45	51	61	49	52	52	54	55	53	57	54	636	12
4	50	50	56	48	54	63	61	60	52	49	53	56	652	12
5	51	56	52	54	48	52	53	50	56	50	46	53	621	12
6	48	45	43	47	49	46	53	50	50	52	50	49	582	12
7	50	41	46	49	40	49	43	49	48	47	52	49	563	12
8	32	49	45	45	48	59	50	49	57	48	48	39	569	12
9	46	36	38	47	40	42	43	44	34	40	38	37	485	12
10	33	39	39	38	40	39	35	46	39	38	36	32	454	12
11	35	47	42	46	37	37	44	43	36	31	31	35	464	12
12	45	48	33	48	44	37	35	40	40	40	35	40	485	12
13	38	37	46	39	43	42	36	33	37	38	47	39	475	12
14	38	34	40	41	36	44	47	52	44	39	45	45	505	12
15	44	46	52	41	36	34	44	50	43	51	44	44	529	12
16	40	45	42	43	44	44	46	47	51	39	46	46	533	12
17	49	41	42	48	38	50	45	43	37	38	40	36	507	12
18	31	41	39	38	38	41	44	41	39	36	36	31	455	12
19	32	40	44	39	40	35	28	36	35	42	39	42	452	12
20	44	43	35	38	32	36	41	35	44	42	32	39	461	12
21	29	34	31	37	33	43	44	45	40	34	43	41	454	12
22	39	33	36	43	37	46	49	40	33	41	37	38	472	12
23	35	32	38	33	15	13	15	26	10	15	25	22	279	12
24	26	23	21	35	28	27	23	- 1	3	1	10	9	205	12
25	14	11	17	22	15	21	9	7	12	21	19	20	188	12
26	24	36	26	24	24	22	25	25	22	20	35	28	311	12
27	39	38	39	42	31	28	29	25	23	29	35	40	398	12
28	40	42	36	23	34	33	32	33	32	29	33	33	400	12
29	40	44	38	40	35	34	45	41	43	35	41	40	476	12
30	37	44	39	47	33	49	40	37	49	42	42	40	499	12
31														
SUM	1168	1217	1206	1249	1139	1205	1211	1200	1157	1134	1195	1182	14263	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 36

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MAY 1939

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	37	41	36	35	33	37	29	38	33	45	31	23	418	12
2	16	24	22	31	37	40	42	43	37	29	26	22	369	12
3	22	35	30	32	43	34	33	35	35	35	26	27	387	12
4	29	25	35	34	36	38	40	37	35	40	35	31	415	12
5	26	27	33	40	39	36	36	37	35	30	17	20	376	12
6	8	7	10	18	14	21	19	14	25	18	16	15	185	12
7	27	21	20	19	23	26	26	24	23	28	24	13	274	12
8	11	12	22	31	35	37	34	31	21	33	19	18	304	12
9	26	29	24	29	37	28	38	32	33	26	29	25	356	12
10	21	25	28	34	35	33	27	39	37	27	25	25	356	12
11	27	23	35	30	35	26	37	35	34	32	35	32	381	12
12	36												36	1
13					47	40	48	42	44	40	39	29	329	8
14					42	49	45	38	41	44	40	38	488	12
15	35	41	38	37										
16	40	34	36	37	44	41	45	41	42	40	39	42	481	12
17	40	41	38	40	38	43	40	42	41	38	44	38	483	12
18	41	45	39	37	44	39	45	44	44	53	47	39	517	12
19	44	37	38	39	43	48	39	39	41	35	46	46	495	12
20	39	45	40	43	42	46	42	54	47	51	45	47	541	12
21	49	46	44	45	42	48	48	42	50	47	37	43	541	12
22	42	38	49	46	47	57	51	49	45	49	47	37	557	12
23	45	41	44	46	38	46	49	39	49	47	41	40	525	12
24	39	43	49	45	37	48	48	46	49	38	40	39	521	12
25	41	41	39	39	47	44	37	47	37	40	40	40	492	12
26	36	44	40	38	43	41	46	40	48	40	41	39	496	12
27	45	43	45	49	46	50	52	44	46	49	42	39	550	12
28	38	43	41	41	49	47	39	38	41	41	40	45	503	12
29	45	46	43	43	40	40	53	45	45	40	25	38	503	12
30	35	45	38	35	45	37	41	43	45	40	38	31	473	12
31	38	33	41	38	37	43	45	44	37	35	42	39	472	12
SUM	942	975	997	1031	1091	1123	1126	1100	1096	1070	977	931	12459	345

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 37

JUNE 1939

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY
 BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, $+45$, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
 CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE— 75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	30	35	34	38	35	39	42	43	49	38	37	38	458	12
2	35	42	35	41	41	39	44	49	49	40	39	42	496	12
3	36	33	41	41	50	42	43	48	42	46	42	41	505	12
4	45	40	45	45	49	47	44	39	44	36	48	44	526	12
5	39	43	41	46	38	47	54	43	42	44	44	43	524	12
6	40	36	42	48	46	38	49	42	40	46	42	39	508	12
7	37	47	37	47	38	37	50	50	40	45	42	42	512	12
8	42	41	45	49	49	41	40	41	40	43	45	39	515	12
9	46	40	44	42	42	49	44	45	48	47	43	44	534	12
10	42	38	39	43	43	43	51	45	42	36	44	36	502	12
11	43	44	46	46	45	45	47	47	50	44	43	44	544	12
12	43	48	45	46	44	47	44	45	44	53	42	37	538	12
13	40	45	41	42	42	45	34	42	49	42	32	29	483	12
14	31	41	38	36	43	43	50	48	47	36	43	40	496	12
15	40	44	50	44	54	47	47	51	52	47	39	40	555	12
16	43	50	43	39	50	49	46	52	47	47	43	34	543	12
17	46	40	50	35	54	41	51	43	42	48	42	43	535	12
18	46	47	46	49	54	43	45	44	49	46	44	43	556	12
19	38	50	46	45	37	41	41	44	37	44	43	47	513	12
20	45	53	37	39	44	42	44	38	46	36	41	41	506	12
21	46	42	43	47	48	43	43	45	50	47	51	36	541	12
22	35	45	43	43	48	44	46	41	47	44	47	41	524	12
23	46	46	46	45	46	50	42	48	49	41	35	40	534	12
24	47	49	44	45	47	55	56	51	47	48	49	45	583	12
25	45	53	44	55	55	51	54	47	54	59	47	49	613	12
26	42	48	48	51	50	49	45	47	53	43	46	45	567	12
27	43	48	43	51	44	46	54	47	49	46	44	51	566	12
28	49	47	52	46	51	53	45	54	49	44	48	38	576	12
29	44	38	42	43	44	49	47	40	45	42	37	38	509	12
30	36	44	38	39	35	37	39	41	35	39	35	38	456	12
31														
SUM	1240	1317	1288	1326	1366	1342	1381	1360	1377	1317	1277	1227	15818	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 38

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JULY 1939

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	36	43	46	34	45	42	41	36	37	38	41	41	480	12
2	44	45	44	39	43	39	45	45	43	43	39	40	509	12
3	44	45	52	48	53	41	52	54	48	49	47	46	579	12
4	47	46	53	43	43	41	42	53	47	36	32	40	523	12
5	32	34	38	44	44	47	41	50	39	33	37	41	480	12
6	47	48	39	43	44	46	42	51	41	46	55	44	546	12
7	46	47	48	41	40	41	55	46	39	30	40	40	513	12
8	45	49	50	53	42	49	48	44	52	51	40	48	571	12
9	50	46	56	57	51	53	48	49	63	54	56	57	640	12
10	51	56	55	54	61	55	63	53	56	56	58	51	669	12
11	55	49	55	54	56	55	57	45	55	50	46	47	624	12
12	42	47	45	40	40	47	47	49	42	44	42	43	528	12
13	43	46	45	48	37	49	51	47	42	49	47	48	552	12
14	46	44	41	56	49	47	52	54	57	46	41	46	579	12
15	49	55	45	45	46	48	47	47	50	43	48	51	574	12
16	52	40	42	47	49	48	51	43	48	47	43	46	556	12
17	48	41	53	52	48	52	56	55	52	55	49	53	614	12
18	47	44	55	49	56	51	56	44	48	54	46	55	605	12
19	45	53	57	50	56	56	44	47	39	46	44	50	587	12
20	48	50	46	48	47	58	45	40	53	46	43	51	575	12
21	47	47	54	56	50	47	41	43	43	46	45	41	560	12
22	48	45	54	49	53	53	48	47	58	57	49	57	618	12
23	57	56	51	58	51	56	56	47	47	45	61	54	639	12
24	56	57	53	54	57	51	54	61	55	45	55	53	651	12
25	48	52	54	54	53	54	58	57	54	53	53	51	641	12
26	53	57	58	54	64	59	53	53	51	50	34	49	635	12
27	49	54	50	48	55	53	58	51	49	53	52	47	619	12
28	55	47	60	45	58	56							321	6
29					59	54	49	47	58	51	57		375	7
30	55	60	64	57	56	51	68	58	54	59	58	61	701	12
31	58	66	58	59	58	60	56	59	52	57	61	54	698	12
SUM	1388	1422	1461	1434	1447	1449	1475	1428	1414	1381	1362	1405	17066	361

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 39

AUGUST 1939

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, ± 45 , (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SU	NO. OF VALUES
1	60	56	53	60	63	55	63	55	53	57	57	55	687	12
2	61	56	60	56	62	66	62	55	54	50	65	61	708	12
3	50	50	62	58	61	69	64	61	58	51	46	53	683	12
4	59	50	55	56	55	63	64	60	63	67	60	68	720	12
5	60	60	59	63	56	60	57	62	68	55	65	59	724	12
6	57	58	55	56	58	57	68	60	58	48	58	50	683	12
7	62	59	64	63	59	65	61	65	51	54	57	52	712	12
8	57	59	56	62	67	59	70	65	63	59	63	59	739	12
9	54	58	64	63	59	59	59	54	57	61	64	62	714	12
10	60	59	61	60	58	58	60	66	61	58	59	57	717	12
11	62	60	64	60	58	58	58	60	55	44	46	39	664	12
12	48	40	36	29	32	27	40	51	44	44	49	50	490	12
13	44	60	49	49	60	57	55	55	52	49	43	46	619	12
14	51	46	50	55	54	51	54	61	50	46	43	45	606	12
15	45	52	52	45	49	49	43	43	44	46	41	46	555	12
16	50	47	40	56	51	60	53	49	54	54	55	43	612	12
17	57	52	53	63	56	56	55	53	54	51	50	46	646	12
18	51	62	53	56	61	64	60	59	57	53	57	51	684	12
19	51	51	56	59	67	68	65	54	52	57	65	50	695	12
20	56	59	57	67	59	61	54	54	42	48	56	47	670	12
21	56	53	54	53	56	62	60	54	52	48	55	48	651	12
22	46	46	44	45	41	48	45	45	37	30	39	39	505	12
23	34	45	42	41	54	59	57	54	50	53	53	45	587	12
24	49	52	54	50	55	58	51	59	58	58	58	50	642	12
25	55	51	50	57	55	58	56	64	57	57	54	59	673	12
26	56	58	53	61	61	58	56	59	56	62	65	59	704	12
27	52	66	67	67	64	64	63	59	55	57	57	58	729	12
28	62	57	58	61	58	59	59	56	58	53	57	50	688	12
29	48	55	56	55	59	63	58	61	55	53	56	56	675	12
30	52	50	53	59	59	56	55	53	57	54	59	46	653	12
31	50	57	50	58	54	59	59	47	49	46	49	52	630	12
SUM	1655	1684	1680	1743	1761	1806	1784	1753	1674	1623	1701	1601	20465	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 40

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

SEPTEMBER 1939

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	51	50	50	43	51	49	44	49	49	48	47	49	580	12
2	55	48	59	49	55	61	62	53	51	50	48	46	637	12
3	53	51	55	62	57	54	56	54	41	43	55	48	629	12
4	46	55	47	55	51	52	51	53	46	49	52	44	601	12
5	53	51	53	51	53	51	54	51	56	50	47	51	621	12
6	41	56	59	58	59	53	51	56	60	49	56	55	653	12
7	59	53	51	53	59	59	57	57	63	53	53	51	668	12
8	53	54	49	50	60	56	57	53	52	56	59	51	650	12
9	57	47	55	57	58	62	61	48	50	56	56	51	658	12
10	51	58	58	55	55	56	54	56	53	51	54	48	649	12
11	50	48	47	56	59	50	55	49	57	47	50	42	610	12
12	40	45	47	49	56	52	58	50	62	48	51	43	601	12
13	50	54	57	53	54	55	56	61	48	38	45	46	617	12
14	54	47	57	51	49	52	51	56	41	54	51	50	613	12
15	52	45	48	54	54	52	49	49	47	56	53	49	608	12
16	55	52	48	49	46	47	47	46	48	56	55	56	605	12
17	52	51	54	50	48	53	64	59	54	48	43	46	622	12
18	51	51	56	57	59	61	56	55	54	50	49	52	651	12
19	51	54	53	57	65	61	48	52	54	50	62	51	658	12
20	56	54	61	53	54	53	55	57	53	55	55	58	664	12
21	52	58	59	59	60	54	60	68	63	63	63	57	716	12
22	54	57	61	61	59	65	56	67	61	57	60	56	714	12
23	65	55	64	53	61	57	61	56	66	58	58	59	713	12
24	58	59	59	60	59	59	59	63	60	65	58	53	712	12
25	61	55	63	60	57	64	66	62	64	62	63	59	736	12
26	62	66	64	54	61	63	63	54	56	55	61	55	714	12
27	59	65	58	58	55	55	55	59	55	56	56	58	689	12
28	59	54	50	64	56	57	57	55	59	57	61	49	678	12
29	51	48	57	61	57	64	48	46	56	54	45	53	640	12
30	53	67	56	60	60	65	53	49	53	54	63	52	685	12
31														
SUM	1604	1608	1655	1652	1687	1692	1664	1643	1632	1588	1629	1538	19592	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 41

OCTOBER 1939

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, ± 45 , (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	61	65	56	62	64	66	60	58	62	50	57	57	718	12
2	62	57	64	66	59	54	56	56	58	57	55	54	698	12
3	52	55	44	62	71	61	65	62	60	45	51	45	673	12
4	50	49	47	52	43	51	48	45	51	53	48	50	587	12
5	48	46	49	52	48	53	52	58	46	50	56	50	608	12
6	56	59	56	64	61	63	54	65	56	49	54	54	691	12
7	59	57	56	53	47	55	55	63	54	51	63	56	669	12
8	54	68	53	58	61	66	59	55	58	52	57	65	706	12
9	64	51	59	61	56	62	72	60	56	58	53	57	709	12
10	60	57	58	61	61	64	67	58	57	52	58	64	717	12
11	51	56	59	65	55	56	56	52	54	48	58	56	666	12
12	57	55	56	55	67	69	57	52	53	56	54	54	685	12
13	40	44	31	32	39	40	41	39	34	35	42	39	456	12
14	42	57	52	48	48	43	43	38	40	44	54	48	557	12
15	49	53	54	58	52	43	52	52	49	50	47	57	616	12
16	50	59	51	52	52	55	54	48	44	47	61	51	624	12
17	46	56	54	53	53	57	46	52	49	46	51	46	609	12
18	56	50	57	46	58	52	49	50	49	59	50	52	628	12
19	57	57	50	49	53	55	51	59	48	51	60	56	646	12
20	57	52	46	56	56	63	58	63	46	54	50	54	655	12
21	51	60	57	59	60	52	60	66	57	58	54	60	694	12
22	61	56	54	49	62	58	58	60	58	50	48	50	664	12
23	58	50	58	55	66	58	54	59	57	56	52	56	679	12
24	61	60	57	62	64	61	58	59	62	66	59	61	730	12
25	63	58	60	62	58	66	67	67	56	67	67	62	753	12
26	61	63	54	66	59	65	63	53	61	60	58	61	724	12
27	58	60	60	59	68	62	62	63	65	58	56	55	726	12
28	57	58	55	58	60	58	55	56	58	55	59	52	681	12
29	61	61	57	64	61	61	58	64	67	54	54	68	730	12
30	58	60	68	56	62	64	62	64	58	60	62	60	734	12
31	64	73	63	66	64	62	64	57	56	59	57	59	744	12
SUM	1724	1762	1695	1761	1788	1795	1756	1753	1679	1650	1705	1709	20777	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 42

NOVEMBER 1939

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	62	55	59	56	63	60	66	67	64	62	61	61	736	12
2	62	59	59	61	58	63	66	68	62	61	58	57	734	12
3	60	55	64	65	66	68	63	60	60	66	64	59	750	12
4	60	62	63	63	69	65	59	61	59	52	54	60	727	12
5	52	57	58	56	61	72	60	56	58	61	50	58	701	12
6	50	48	53	51	53	62	57	60	55	53	57	55	654	12
7	59	66	59	59	65	52	57	57	55	49	58	58	694	12
8	49	56	60	60	66	59	59	58	60	57	56	58	698	12
9	62	69	67	56	55	67	63	68	56	60	59	62	744	12
10	62	64	68	65	65	66	61	64	57	64	64	62	762	12
11	70	69	55	61	65	61	73	64	63	64	62	64	771	12
12	57	56	62	60	52	58	65	60	62	63	60	59	714	12
13	53	61	59	63	62	60	58	63	55	58	62	66	720	12
14	58	61	59	55	69	65	62	60	74	65	67	62	757	12
15	60	58	63	57	51	58	58	59	57	63	61	60	705	12
16	65	64	58	63	54	65	57	70	58	68	69	68	759	12
17	60	60	60	62	62	68	63	62	66	67	59	75	764	12
18	58	77	57	67	59	69	60	65	65	58	55	65	755	12
19	56	56	64	60	63	62	57	53	55	54	54	54	688	12
20	61	60	74	59	67	60	71	65	62	60	57	57	753	12
21	60	64	65	68	70	64	58	63	61	59	61	66	757	12
22	62	55	66	60	63	64	68	67	69	65	54	58	751	12
23	57	59	60	64	61	64	66	64	63	58	60	61	737	12
24	63	58	63	64	67	72	60	59	64	59	63	63	755	12
25	66	70	59	64	63	65	68	66	60	71	64	61	777	12
26	73	52	61	66	64	63	68	60	66	61	54	53	741	12
27	67	54	59	71	64	65	61	58	60	72	63	69	763	12
28	63	56	60	57	61	66	62	66	62	56	66	54	729	12
29	67	60	62	59	65	65	65	58	68	67	53	60	749	12
30	65	57	61	62	54	62	63	65	66	55	59	60	729	12
31														
SUM	1819	1798	1837	1834	1857	1910	1874	1866	1842	1828	1784	1825	22074	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 43

DECEMBER 1939

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, ± 45 , (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	67	58	59	57	61	63	68	69	59	62	58	60	741	12
2	54	64	52	57	58	64	57	62	49	56	54	53	680	12
3	53	47	52	58	56	51	54	51	48	58	55	47	630	12
4	48	57	48	64	55	60	57	53	59	57	50	61	669	12
5	54	56	58	62	54	62	56	59	56	52	61	54	684	12
6	62	57	50	49	58	58	61	51	56	59	60	54	675	12
7	61	63	52	64	58	64	64	57	60	54	58	50	705	12
8	62	56	67	56	59	65	67	64	59	54	57	53	719	12
9	52	50	60	64	58	61	53	66	62	52	54	56	688	12
10	55	61	61	61	55	58	62	54	54	58	50	60	689	12
11	60	56	60	63	58	65	65	64	64	66	65	53	739	12
12	58	61	69	53	63	61	58	62	60	59	52	71	727	12
13	57	68	60	64	66	62	66	62	48	57	62	60	732	12
14	68	71	73	66	64	65	57	65	67	61	59	67	783	12
15	58	63	70	59	63	70	70	65	70	64	75	66	793	12
16	59	57	63	58	69	68	68	68	67	65	62	72	776	12
17	69	65	61	72	74	61	68	62	65	70	54	62	783	12
18	71	75	64	62	56	63	71	65	67	63	65	62	784	12
19	62	65	67	65	64	66	63	63	71	65	64	58	773	12
20	66	57	62	68	71	67	61	60	67	65	59	61	764	12
21	65	61	62	65	72	74	62	71	69	68	61	65	795	12
22	64	68	61	69	62	68	70	63	63	61	52	58	759	12
23	65	65	59	61	61	64	62	57	56	71	52	63	736	12
24	49	59	64	62	57	68	59	60	64	60	59	57	718	12
25	60	56	51	67	57	68	62	68	54	60	56	52	711	12
26	58	62	62	60	65	60	61	56	59	55	69	66	733	12
27	66	58	50	62	60	62	58	67	63	56	59	60	721	12
28	54	50	60	57	59	60	66	57	57	48	56	52	676	12
29	57	62	56	61	60	58	61	62	58	54	63	56	708	12
30	57	60	57	63	56	64	65	62	60	56	56	55	711	12
31	60	58	53	56	61	61	59	69	51	56	61	62	707	12
SUM	1851	1866	1843	1905	1890	1961	1931	1914	1862	1842	1818	1826	22509	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 44

JANUARY 1940

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, ± 45 , (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510 mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	63	56	61	60	61	67	60	57	65	61	65	63	739	12
2	64	61	57	69	60	67	70	58	57	60	65	57	745	12
3	69	75	77	69	70	75	70	71	62	62	59	59	818	12
4	69	58	59	58	56	59	58	54	67	52	64	58	712	12
5	57	50	55	55	51	57	70	65	63	64	56	61	704	12
6	52	60	59	59	61	70	72	63	58	63	57	62	736	12
7	63	60	58	55	58	67	67	68	70	62	62	57	747	12
8	61	59	61	55	60	56	66	70	61	69	64	56	738	12
9	56	54	60	56	57	62	66	68	64	61	62	57	723	12
10	58	65	59	66	59	66	63	59	63	61	64	66	749	12
11	55	59	57	55	59	64	63	65	63	60	63	57	720	12
12	63	52	58	66	69	66	61	67	66	68	63	64	763	12
13	63	55	59	61	64	66	63	65	64	67	63	65	755	12
14	56	66	55	58	64	62	70	67	62	62	56	52	730	12
15	61	54	52	66	65	63	60	65	66	61	65	61	739	12
16	68	63	52	72	61	67	62	70	67	66	66	68	782	12
17	61	66	66	58	69	62	66	72	63	67	68	61	779	12
18	69	65	60	61	64	71	62	65	62	57	57	58	751	12
19	56	56	66	64	71	67	62	59	66	53	59	61	740	12
20	61	64	63	66	58	65	62	69	59	61	63	63	754	12
21	63	56	62	59	64	66	63	61	63	64	57	70	748	12
22	64	58	59	56	53	59	71	64	67	69	54	59	733	12
23	58	60	56	66	65	62	63	59	65	61	53	56	724	12
24	52	65	56	66	65	70	65	57	64	49	47	44	700	12
25	54	59	58	53	64	62	60	50	54	55	51	48	668	12
26	59	56	54	61	58	54	57	55	55	63	57	54	683	12
27	55	57	56	57	64	55	65	60	57	60	62	61	709	12
28	64	65	66	56	65	65	68	66	68	73	71	61	788	12
29	73	64	61	65	68	67	70	66	73	61	68	62	798	12
30	63	55	63	64	67	64	70	64	67	62	54	62	755	12
31	60	54	50	60	65	56	58	62	67	63	56	58	709	12
SUM	1890	1847	1835	1892	1935	1979	2003	1961	1968	1917	1871	1841	22939	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 45

FEBRUARY 1940

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	64	62	64	62	53	64	61	62	69	57	57	61	736	12
2	53	62	55	57	64	54	63	70	59	63	60	62	722	12
3	53	57	63	51	59	61	72	58	58	58	59	51	700	12
4	62	65	58	62	66	63	62	70	61	60	56	53	738	12
5	61	56	64	63	52	58	62	64	66	63	64	56	729	12
6	59	62	67	63	66	69	59	57	59	61	59	64	745	12
7	60	57	59	58	59	62	65	70	63	64	56	54	727	12
8	54	57	61	62	59	55	63	64	71	62	64	60	732	12
9	59	69	67	62	67	64	65	61	65	59	59	62	759	12
10	62	66	69	60	61	59	60	62	60	69	68	59	755	12
11	58	67	53	60	60	58	71	61	69	60	59	63	739	12
12	62	59	59	63	63	62	58	64	56	61	64	67	738	12
13	59	60	66	65	50	72	68	56	63	61	54	61	735	12
14	60	62	62	67	64	63	67	63	65	60	62	64	759	12
15	63	55	63	67	66	65	65	64	60	58	52	64	742	12
16	61	62	65	64	61	65	68	65	59	63	61	62	756	12
17	64	66	65	62	57	61	71	59	64	60	61	61	751	12
18	59	59	62	57	54	72	63	59	64	60	60	53	722	12
19	67	64	55	66	67	63	53	68	63	75	66	66	773	12
20	64	57	62	69	65	65	73	62	59	61	56	47	740	12
21	50	55	59	62	56	59	54	62	58	61	54	48	678	12
22	56	59	61	56	64	66	59	60	54	53	51	55	694	12
23	55	59	52	58	66	58	56	49	62	63	52	58	688	12
24	60	56	56	57	57	66	49	58	56	56	63	59	693	12
25	58	53	56	60	58	59	59	63	59	60	49	56	690	12
26	51	65	57	54	58	63	55	61	65	56	46	58	689	12
27	53	58	58	59	58	61	59	61	52	56	55	52	682	12
28	56	56	58	53	67	53	55	49	54	54	48	52	655	12
29	57	55	56	58	51	62	60	56	57	55	52	53	672	12
30														
31														
SUM	1700	1740	1752	1757	1748	1802	1795	1778	1770	1749	1667	1681	20939	348

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 46

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MARCH 1940

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, ± 45 , (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	53	53	54	54	56	57	62	51	56	52	57	51	656	12
2	56	57	62	52	50	59	55	52	52	57	55	54	661	12
3	56	53	54	52	54	56	50	45	57	54	60	50	641	12
4	59	60	51	54	56	57	61	55	49	58	55	59	674	12
5	60	65	62	64	66	63	63	53	58	62	62	63	741	12
6	60	53	62	61	66	62	61	63	54	72	66	62	742	12
7	61	55	62	64	59	71	64				57	56	549	9
8	55	59	57	61	53	56	54	56	64	67	61	59	702	12
9	60	51	54	55	59	67	65	62	66	66	57	54	716	12
10	59	62	60	66	67	67	61	60	51	59	59	51	722	12
11	59	52	51	60	58	64	61	66	69	63	62	63	728	12
12	55	55	62	56	46	63	55	58	59	63	62	58	692	12
13	54	51	53	59	58	58	66	63	65	63	57	53	700	12
14	64	60	58	62	63	59	61	61	68	65	60	59	740	12
15	58	59	64	57	68	59	60	65	58	54	57	58	717	12
16	56	57	58	58	56	62	59	63	61	58	50	53	691	12
17	60	53	54	58	56	62	66	61	64	59	55	59	707	12
18	62	60	57	60	70	68	67	65	63	64	60	55	751	12
19	60	61	59	60	63	68	67	63	64	58	66	61	750	12
20	69	57	66	66	61	61	55	66	59	52	55	57	724	12
21	63	61	67	64	61	58	66	72	60	62	59	62	755	12
22	66	64	65	61	68	61	63	64	65	64	62	59	762	12
23	58	63	58	57	55	65	62	57	63	59	63	61	721	12
24	67	64	64	60	58	47	42	42	30	41	49	45	609	12
25	55	52	48	54	38	51	51	58	50	60	56	57	630	12
26	59	49	55	56	47	50	51	51	52	48	62	51	631	12
27	50	48	46	47	41	52	52	53	45	53	49	58	594	12
28	56	53	55	52	54	54	54	53	51	55	58	54	649	12
29	62	48	52	58	55	50	56	51	50	57	57	53	649	12
30	56	56	47	44	44	44	49	43	39	39	40	43	544	12
31	43	50	43	34	38						27	25	260	7
SUM	1707	1636	1655	1668	1647	1700	1695	1672	1642	1684	1671	1622	19999	364

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 47

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

APRIL 1940

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, ± 45 , (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	26	25	30	37	44	38	44	42	38	40	38	34	436	12
2	35	45	37	38	45	56	44	41	48	46	47	48	530	12
3	49	51	49	48	44	49	41	41	28	37	42	31	510	12
4	50	45	46	52	53	52	45	38	43	37	44	49	554	12
5	50	59	57	47	47	49	54	56	52	54	61	48	634	12
6	56	58	56	52	56	54	54	56	47	41	50	56	636	12
7	57	51	60	61	56	62	58	57	61	51	60	58	692	12
8	58	66	57	62	65	60	63	61	63	58	65	52	730	12
9	57	51	54	58	64	69	57	60	59	59	56	58	702	12
10	61	63	64	57	63	66	62	57	63	57	63	60	736	12
11	58	61	59	62	65	63	61	57	54	64	58	56	718	12
12	50	58	46	64	66	63	64	67	58	66	51	66	719	12
13	56	54	66	69	55	60	59	55	55	59	58	60	706	12
14	68	60	65	69	72	64	60	63	51	65	64	58	759	12
15	61	62	61	66	66	72	66	72	71	61	62	58	778	12
16	63	62	63	56	64	63	58	65	69	63	66	66	758	12
17	60	61	65	67	63	63	59	62	59	60	67	56	742	12
18	58	63	66	70	56	50	61	64	61	65	62	60	736	12
19	62	60	61	67	66	64	62	67	62	61	58	57	747	12
20	61	71	65	70	64	76	64	65	55	63	55	49	758	12
21	56	62	57	61	59	63	55	61	49	54	56	57	690	12
22	60	63	60	61	52	62	63	63	62	58	55	57	716	12
23	56	61	62	58	61	56	64	58	62	63	56	62	719	12
24	59	61	56	58	58	56	56	66	57	54	54	63	698	12
25	61	63	61	56	62	52	50	54	57	61	67	49	693	12
26	51	62	53	48	51	55	61	62	52	54	52	57	658	12
27	61	56	57	62	63	58	58	61	65	55	58	60	714	12
28	54	58	52	56	54	60	56	61	59	68	60	66	704	12
29	61	58	58	58	64	65	65	61	66	62	64	57	739	12
30	57	66	62	58	64	62	64	66	57	52	54	55	717	12
31														
SUM	1672	1736	1705	1748	1762	1782	1728	1759	1683	1688	1703	1663	20629	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 48

MAY 1940

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
 CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	52	52	55	61	62	61	62	60	54	58	59	60	696	12
2	54	55	54	62	62	62	65	64	64	61	58	55	716	12
3	55	56	61	59	56	62	69	61	75	71	59	61	745	12
4	49	56	58	60	55	63	64	63	64	62	60	54	708	12
5	56	51	56	57	57	65	70	68	64	66	57	61	728	12
6	58	50	56	62	66	68	65	59	64	61	72	59	740	12
7	58	64	60	70	64	70	69	70	72	69	70	59	795	12
8	55	57	55	62	62	63	72	70	70	68	71	64	769	12
9	65	64	62	68	58	63	65	67	67	61	60	69	769	12
10	61	61	64	65	62	61	62	69	62	64	62	63	756	12
11	69	72	71	59	59	67	64	64	64	59	64	71	783	12
12	65	67	68	64	66	75	61	63	64	65	61	65	784	12
13	64	69	63	67	64	68	65	71	72	70	69	66	808	12
14	66	62	68	71	62	68	64	71	73	65	66	62	798	12
15	61	64	63	67	65	66	63	60	61	62	59	67	758	12
16	62	68	69	64	61	61	66	57	56	58	63	69	754	12
17	64	60	56	66	65	62	54	70	66	70	57	62	752	12
18	64	69	68	72	77	76	72	67	67	62	54	64	812	12
19	55	60	68	60	70	70	65	64	60	61	58	58	749	12
20	53	60	60	64	59	64	68	61	65	63	62	63	742	12
21	58	63	69	61	60	59	66	60	61	58	53	60	728	12
22	66	62	58	59	65	63	64	64	60	55	58	50	724	12
23	50	48	56	49	58	56	54	56	53	39	47	41	607	12
24	48	53	58	67	58	48	50	47	49	52	48	56	634	12
25	56	59	53	59	54	50	55	55	52	51	53	48	645	12
26	51	51	82	55	54	51	62	59	59	54	54	52	684	12
27	48	37	51	50	59	66	62	55	61	62	54	61	666	12
28	61	55	57	61	60	65	67	64	62	53	63	55	723	12
29	66	58	58	62	64	65	66	64	61	66	61	59	750	12
30	60	65	60	57	60	69	70	63	59	67	69	59	758	12
31	60	59	64	61	68	70	66	60	68	58	60	56	750	12
SUM	1810	1827	1901	1921	1912	1977	1987	1946	1949	1891	1861	1849	22831	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 49

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JUNE 1940

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	56	61	67	62	60	65	55	64	53	63	58	60	724	12
2	59	52	52	61	55	59	59	60	61	61	65	60	704	12
3	54	63	50	63	56	66	61	63	63	67	65	62	733	12
4	66	67	63	63	58	62	61	69	67	58	49	62	745	12
5	57	57	57	60	57	61	69	64	68	66	62	63	741	12
6	61	68	54	69	59	67	67	75	67	61	59	60	767	12
7	65	61	57	65	62	65	69	63	63	64	63	59	756	12
8	60	66	60	54	62	66	66	69	65	62	65	62	757	12
9	64	57	63	61	63	60	60	66	64	61	60	58	737	12
10	66	63	64	67	66	60	64	62	59	67	58	64	760	12
11	64	68	64	73	69	74	66	72	61	74	61	66	812	12
12	68	65	62	71	69	66	65	67	67	64	64	63	791	12
13	63	66	65	64	74	66	64	65	64	62	60	61	774	12
14	59	59	68	58	60	57	57	60	62	62	59	65	726	12
15	57	63	63	59	48	58	55	59	62	56	59	65	704	12
16	63	64	66	60	62	53	58	61	57	57	62	62	725	12
17	58	60	60	61	66	68	72	66	63	60	63	56	753	12
18	58	54	60	60	60	69	66	71	62	54	60	56	730	12
19	57	56	63	67	57	69	64	60	60	53	57	59	722	12
20	61	60	63	64	65	65	66	64	69	65	47	61	750	12
21	60	66	71	69	68	67	69	60	64	65	61	56	776	12
22	71	65	60	53	62	61	56	64	59	64	58	54	727	12
23	59	61	60	54	62	66	60	63	61	65	61	63	735	12
24	64	61	63	63	61	69	65	61	58	63	62	63	753	12
25	61	67	75	65	56	44	41	49	44	49	49	45	645	12
26	45	47	52	53	51	50	57	53	44	49	52	51	604	12
27	51	53	47	57	54	55	60	55	54	58	57	53	654	12
28	59	53	48	57	60	57	51	54	50	46	58	56	649	12
29	58	52	57	56	60	61	58	68	54	49	57	58	688	12
30	45	57	66	63	70	65	59	57	55	59	61	59	716	12
31														
SUM	1789	1812	1820	1852	1832	1871	1840	1884	1800	1804	1772	1782	21858	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 50

JULY 1940

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, ± 45 , (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	52	61	55	54	60	64	60	62	59	62	60	58	707	12
2	60	68	61	56	62	58	62	59	64	56	61	60	727	12
3	57	57	57	59	56	61	63	61	65	68	53	59	716	12
4	63	63	61	64	67	62	61	62	58	57	58	56	732	12
5	61	57	59	72	66	68	58	59	62	62	64	60	748	12
6	63	68	62	63	62	61	57	66	62	62	65	70	761	12
7	51	62	56	65	51	67	70	62	66	59	66	58	733	12
8	60	57	66	67	66	66	62	63	63	65	59	60	754	12
9	60	68	66	64	74	68	64	63	68	70	62	61	788	12
10	68	67	71	65	68	69	66	56	62	61	61	61	775	12
11	63	63	62	63	62	64	55	59	62	62	58	56	729	12
12	60	54	63	60	57	58	60	65	63	56	56	65	717	12
13	54	60	64	60	64	63	68	61	57	50	51	54	706	12
14	58	62	58	59	63	65	61	66	58	61	58	63	732	12
15	51	57	66	63	75	63	65	62	60	57	63	66	748	12
16	61	61	58	59	65	64	74	73	63	63	57	63	761	12
17	66	73	63	69	69	67	69	64	69	60	61	64	794	12
18	58	65	58	80	68	71	74	72	66	66	66	60	804	12
19	63	61	67	66	65	73	66	71	68	68	68	67	803	12
20	63	70	70	70	65	77	69	67	58	64	63	62	798	12
21	69	61	70	71	71	58	72	58	62	60	61	63	776	12
22	71	67	58	69	68	69	72	64	62	67	61	64	792	12
23	64	65	68	65	67	68	70	67	71	63	63	59	790	12
24	66	63	68	63	56	70	67	65	56	67	63	58	762	12
25	58	57	63	59	64	60	70	70	56	64	60	66	747	12
26	63	58	53	64	56	68	60	63	69	69	62	62	747	12
27	72	58	61	63	58	64	60	62	63	63	66	62	752	12
28	67	70	58	61	63	61	56	61	61	66	63	60	747	12
29	63	62	71	67	71	72	68	71	64	63	67	64	803	12
30	68	67	69	62	69	65	65	61	60	63	60	62	771	12
31	59	58	54	60	57	56	60	64	63	62	58	61	712	12
SUM	1912	1940	1936	1982	1985	2020	2004	1979	1940	1936	1894	1904	23432	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 51

AUGUST 1940

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	55	53	55	52	57	62	62	58	57	66	58	52	687	12
2	54	60	61	59	58	60	61	60	58	53	56	58	698	12
3	53	56	53	72	69	63	68	51	52	61	51	51	700	12
4	45	53	52	57	62	58	56	56	62	61	67	53	682	12
5	51	54	63	62	63	60	58	51	56	49	54	58	679	12
6	54	58	56	64	66	58	63	63	61	52	56	60	711	12
7	59	60	73	68	56	60	75	66	73	71	70	68	799	12
8	65	63	70	73	68	75	67	76	69	67	65	65	823	12
9	62	68	76	69	61	63	59	61	65	65	63	58	770	12
10	68	58	55	64	58	64	66	69	70	64	61	66	763	12
11	59	75	63	65	67	53	74	71	70	64	67	67	795	12
12	65	64	68	67	67	67	68	62	63	63	68	57	779	12
13	66	70	63	62	63	65	66	59	58	67	62	62	763	12
14	66	72	67	64	60	70	69	63	67	73	70	60	801	12
15	62	63	75	72	70	71	63	63	66	63	68	66	802	12
16	62	70	70	65	67	68	66	70	66	65	65	64	798	12
17	74	63	69	79	72	60	63	64	64	62	65	68	803	12
18	66	65	71	70	68	78	68	71	69	63	66	59	814	12
19	60	60	65	64	60	71	68	64	59	56	62	65	754	12
20	56	53	65	61	66	58	65	66	58	69	56	55	728	12
21	57	66	67	69	67	68	67	65	63	58	60	60	767	12
22	55	58	54	64	61	64	63	61	58	59	63	63	723	12
23	57	62	68	65	68	66	66	62	66	68	62	61	771	12
24	69	63	66	66	68	70	70	78	57	66	66	68	807	12
25	63	69	77	61	69	68	68	62	65	67	68	67	804	12
26	69	60	56	62	67	69	63	65	66	67	64	55	763	12
27	60	55	62	64	68	67	72	69	60	57	62	59	755	12
28	59	53	58	62	59	55	68	58	61	54	55	66	708	12
29	59	66	61	63	67	65	69	61	61	62	55	61	750	12
30	63	62	53	64	64	58	67	69	58	62	57	53	730	12
31	56	63	69	71	59	63	69	61	59	71	64	66	771	12
SUM	1869	1915	1981	2020	1995	1997	2047	1975	1937	1945	1926	1891	23498	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 52

SEPTEMBER 1940

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, ± 45 , (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE— 75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	66	61	62	65	73	64	70	64	64	66	61	62	778	12
2	64	65	66	67	67	62	67	67	72	66	55	64	782	12
3			59	58	60	71	60	61	69	62	64	67	631	10
4	64	65	67	65	61	68	63	62	55	62	70	58	760	12
5	59	65	64	55	67	68	66	76	58	61	63	60	762	12
6	56	65	59	69	57	64	67	52	57	58	59	56	719	12
7	63	64	61	62	63	66	64	63	60	64	58	60	748	12
8	60	54	63	58	64	59	60	58	53	57	71	60	717	12
9	56	58	64	62	65	65	59	62	69	65	55	66	746	12
10	60	60	60	68	65	65	68	66	71	67	68	64	782	12
11	62	62	65	63	65	72	65	62	67	64	64	62	773	12
12	71	66	64	66	62	73	69	64	64	65	67	55	786	12
13	63	63	56	59	64	67	69	65	62	73	67	58	766	12
14	67	65	68	62	60	63	77	67	69	62	76	61	797	12
15	54	63	60	68	71	63	62	59	69	63	65	59	756	12
16	68	69	63	67	62	64	67	61	64	54	56	60	755	12
17	59	67	67	54	64	69	66	58	62	61	61	65	753	12
18	64	64	60	63	67	70	69	64	65	70	73	63	792	12
19	62	65	72	66	69	68	62	60	63	68	64	68	787	12
20	60	55	59	67	69	62	66	69	61	66	62	54	750	12
21	69	60	65	69	65	60	59	68	59	60	67	56	757	12
22	60	57	60	66	57	63	64	58	65	59	59	54	722	12
23	52	63	64	62	59	59	69	65	64	64	59	64	744	12
24	56	59	59	64	59	71	66	62	68	63	58	57	742	12
25	63	59	60	54	62	55	59	65	52	49	65	66	709	12
26	62	62	60	62	63	64	59	64	61	51	58	55	721	12
27	62	52	59	54	56	56	59	55	62	65	60	60	700	12
28	62	62	61	67	65	64	69	58	58	56	63	55	740	12
29	67	58	62	63	66	68	59	66	58	69	57	58	751	12
30	57	68	69	59	65	65	63	69	62	64	64	63	768	12
31														
SUM	1788	1796	1819	1826	1852	1877	1882	1829	1814	1812	1825	1743	21863	358

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 53

OCTOBER 1940

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	68	62	60	67	68	69	62	56	65	61	58	55	751	12
2	61	72	63	62	56	54	57	67	58	68	54	58	730	12
3	61	63	63	64	62	64	65	63	59	50	59	65	738	12
4	68	63	68	60	64	69	61	59	54	60	60	65	751	12
5	60	62	71	67	65	71	58	62	61	59	56	54	746	12
6	63	57	60	58	62	60	57	58	59	54	62	52	702	12
7	59	64	64	53	50	54	59	60	51	58	50	57	679	12
8	59	60	62	64	63	71	60	69	60	56	58	64	746	12
9	53	67	69	66	58	68	70	59	64	60	59	59	752	12
10	64	64	66	68	66	64	65	69	67	63	60	74	790	12
11	61	66	64	63	65	58	65	70	63	60	71	58	764	12
12	59	60	62	52	57	62	59	58	66	55	62	57	709	12
13	59	58	62	58	65	59	58	60	62	60	62	63	726	12
14	56	63	57	62	62	72	68	64	70	63	70	64	771	12
15	66	61	65	69	74	73	70	56	66	60	61	74	795	12
16	66	61	64	62	63	61	69	63	71	65	64	60	769	12
17	63	63	62	61	69	70	72	73	61	70	62	61	787	12
18	67	67	76	60	64	70	70	64	63	58	58	56	773	12
19	57	63	62	60	67	59	62	57	58	59	55	56	715	12
20	49	63	61	67	64	59	61	56	56	58	53	48	695	12
21	60	63	61	64	67	56	65	57	61	55	51	58	718	12
22	65	51	50	61	59	55	54	62	61	52	53	64	687	12
23	60	57	60	64	61	58	62	62	62	51	53	57	707	12
24	55	57	48	57	64	59	64	67	54	65	57	48	695	12
25	56	56	46	58	59	45	53	45	53	45	40	49	605	12
26	49	52	58	48	53	63	52	71	48	55	51	47	647	12
27	51	47	58	60	58	59	58	63	38	44	44	49	629	12
28	53	58	58	54	67	59	70	60	59	61	56	57	712	12
29	54	57	57	61	61	59	59	62	61	63	60	59	713	12
30	62	64	67	59	55	58	64	61	64	62	53	57	726	12
31	62	63	56	63	71	64	59	58	62	62	56	62	738	12
SUM	1846	1884	1900	1892	1939	1922	1928	1911	1857	1812	1768	1807	22466	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 54

NOVEMBER 1940

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	61	51	55	57	62	60	70	58	63	52	54	54	697	12
2	48	62	54	46	62	63	63	56	56	62	56	60	688	12
3	61	52	53	62	57	64	60	57	57	55	57	53	688	12
4	59	62	60	67	59	53	63	61	74	58	64	57	737	12
5	56	62	58	66	62	70	58	72	57	63	55	54	733	12
6	66	58	58	64	77	62	60	62	64	57	57	63	748	12
7	64	58	58	65	65	64	74	65	59	60	65	56	753	12
8	62	54	63	69	60	64	56	72	54	58	60	61	733	12
9	61	63	67	68	76	62	61	56	64	62	57	59	756	12
10	71	61	60	63	64	69	59	68	62	67	67	60	771	12
11	62	68	62	68	61	62	56	65	54	73	66	64	761	12
12	62	59	59	62	71	66	53	63	64	65	65	58	747	12
13	64	66	61	62	63	67	65	51	52	57	47	47	702	12
14	52	64	56	46	50	50	54	51	56	55	47	49	630	12
15	46	54	47	52	45	51	52	61	48	46	46	52	600	12
16	55	45	46	54	51	55	54	51	52	57	55	42	617	12
17	41	56	52	50	44	49	62	44	52	57	48	38	593	12
18	51	47	50	49	51	55	54	50	58	38	52	45	600	12
19	39	49	54	50	52	57	49	34	50	44	50	45	573	12
20	57	55	61	58	51	49	56	58	55	53	49	55	657	12
21	55	56	59	55	51	54	55	58	49	58	59	51	660	12
22	59	61	65	60	67	56	57	53	55	59	54	59	705	12
23	53	44	52	51	59	59	56	61	52	47	48	47	629	12
24	54	54	57	49	55	60	58	59	58	53	61	53	671	12
25	60	58	69	59	67	60	59	67	59	55	45	55	713	12
26	61	59	53	62	62	65	64	60	50	60	50	58	704	12
27	55	59	57	58	62	57	61	67	72	62	70	46	726	12
28	49	66	50	59	66	60	58	75	69	66	62	48	728	12
29	64	64	62	58	51	67	59	63	64	53	63	56	724	12
30	60	57	56	54	74	58	57	65	55	58	50	54	698	12
31														
SUM	1708	1724	1714	1743	1797	1788	1763	1783	1734	1710	1679	1599	20742	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 55

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

DECEMBER 1940

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	64	49	56	49	58	53	55	63	63	65	59	56	690	12
2	58	52	60	61	61	57	59	56	58	61	52	65	700	12
3	53	56	62	59	60	60	57	69	63	61	60	64	724	12
4	57	56	55	51	54	55	64	60	62	63	62	56	695	12
5	61	59	59	62	58	69	72	66	65	67	56	62	756	12
6	55	50	61	66	58	70	65	65	66	62	67	56	741	12
7	57	54	62	61	65	64	65	74	67	61	61	60	751	12
8	56	56	66	62	58	63	67	68	66	68	58	62	750	12
9	57	65	63	59	59	70	76	67	66	60	63	54	759	12
10	56	51	56	67	62	60	66	62	60	63	60	48	711	12
11	54	51	58	53	58	64	56	60	48	46	53	52	653	12
12	46	54	60	59	53	59	60	54	43	49	53	50	640	12
13	46	42	49	51	48	57	55	58	46	49	49	43	593	12
14	50	55	63	49	50	49	61	55	54	48	56	52	642	12
15	59	56	51	59	42	59	58	61	58	58	50	49	660	12
16	54	56	54	50	50	59	57	56	53	51	50	59	649	12
17	48	51	63	53	55	61	62	62	59	67	54	52	687	12
18	59	64	61	57	53	60	68	71	60	62	52	54	721	12
19	60	52	52	53	62	63	60	67	57	58	57	54	695	12
20	51	58	58	58	49	62	56	64	56	61	55	50	678	12
21	62	61	57	51	56	59	57	58	62	54	49	54	680	12
22	59	58	61	68	54	57	62	54	57	51	62	56	699	12
23	48	54	53	51	56	58	65	66	67	62	56	49	685	12
24	53	61	56	64	51	53	56	57	54	62	60	55	682	12
25	52	49	48	54	50	58	61	63	53	53	58	49	648	12
26	64	58	58	59	61	54	55	57	69	56	59	62	712	12
27	63	51	56	51	53	61	49	62	48	45	62	58	659	12
28	53	61	50	61	55	47	54	50	57	58	51	57	654	12
29	45	57	60	42	50	57	58	66	50	51	58	55	649	12
30	59	60	49	49	51	53	44	53	45	43	45	49	600	12
31	51	54	53	48	48	62	53	49	54	50	51	47	620	12
SUM	1710	1711	1770	1737	1698	1833	1853	1893	1786	1765	1738	1689	21183	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 56

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JANUARY 1941

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	49	55	56	56	51	49	42	44	42	48	47	46	585	12
2	47	55	55	39	44	50	48	58	47	49	55	57	604	12
3	48	46	54	47	48	52	50	54	52	58	55	52	616	12
4	52	53	50	46	52	52	58	64	55	61	56	65	664	12
5	48	59	56	51	54	66	60	61	55	57	51	54	672	12
6	53	52	49	51	56	58	56	64	55	52	39	51	636	12
7	61	42	55	51	52	53	60	62	56	52	55	51	650	12
8	48	54	57	58	51	46	61	58	52	51	52	49	637	12
9	55	45	52	49	59	52	54	67	56	60	55	51	655	12
10	53	59	50	59	53	62	63	60	63	61	59	52	694	12
11	46	53	56	60	48	48	59	54	46	59	47	47	623	12
12	54	48	51	56	64	56	54	57	47	52	55	46	640	12
13	49	57	57	55	59	55	54	62	49	57	65	48	667	12
14	51	50	54	58	60	58	52	54	59	60	53	55	664	12
15	51	59	61	51	54	55	56	51	51	48	52	58	647	12
16	55	56	50	58	58	50	51	54	50	50	59	62	653	12
17	50	52	54	54	51	57	51	51	54	51	59	49	633	12
18	50	48	50	48	52	55	58	53	64	50	45	55	628	12
19	53	51	50	48	48	50	62	57	56	60	51	50	636	12
20	52	55	49	49	47	57	55	51	53	47	49	40	604	12
21	47	47	54	48	52	42	44	52	54	51	50	48	589	12
22	44	46	50	48	53	54	51	50	48	45	51	52	592	12
23	55	52	42	55	54	59	63	50	68	50	55	49	652	12
24	46	52	58	54	60	55	63	63	55	66	50	51	673	12
25	49	59	55	59	51	55	63	51	54	59	58	55	668	12
26	52	60	58	56	65	50	55	58	57	49	51	49	660	12
27	57	56	54	52	56	58	48	54	56	56	56	59	662	12
28	57	57	49	57	62	58	56	52	56	48	58	59	669	12
29	51	56	55	57	55	59	61	59	59	45	55	53	665	12
30	58	54	63	56	59	60	53	68	58	56	63	53	701	12
31	53	53	51	61	66	53	56	57	57	44	49	47	647	12
SUM	1594	1641	1655	1647	1694	1684	1717	1750	1684	1652	1655	1613	19986	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 57

FEBRUARY 1941

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +45, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	52	52	55	53	53	54	60	66	58	59	59	57	678	12
2	53	52	60	65	57	63	62	54	54	51	52	55	678	12
3	59	58	61	57	59	61	56	61	59	51	61	43	686	12
4	54	43	55	56	50	63	59	57	54	61	52	56	660	12
5	54	54	55	57	58	50	61	46	47	57	58	53	650	12
6	46	54	55	54	59	49	60	53	50	57	58	58	653	12
7	46	48	46	56	51	50	61	58	47	57	49	53	622	12
8	50	59	58	55	56	57	57	58	57	56	60	54	677	12
9	63	58	62	56	69	57	61	67	58	67	61	55	734	12
10	59	57	57	63	64	62	54	59	68	54	51	55	703	12
11	54	45	58	54	56	54	61	63	63	61	68	58	695	12
12	63	56	55	66	64	67	69	60	65	56	55	59	735	12
13	55	51	52	50	55	55	68	69	56	57	48	57	673	12
14	59	61	54	63	64	57	60	58	55	58	54	54	697	12
15	60	58	55	55	64	64	63	59	57	63	60	52	710	12
16	52	52	56	53	53	50	52	59	59	55	61	59	661	12
17	55	54	54	59	52	55	65	64	58	51	56	51	674	12
18	58	50	59	56	54	58	67	55	58	53	55	52	675	12
19	46	53	50	49	53	55	51	54	55	53	50	50	619	12
20	49	53	49	52	54	54	52	55	54	51	41	48	612	12
21	49	44	47	48	57	58	57	57	52	52	52	57	630	12
22	47	53	53	47	52	61	57	51	53	60	51	52	637	12
23	48	49	53	53	58	57	50	59	50	56	53	53	639	12
24	54	51	60	53	60	51	60	63	55	59	61	61	688	12
25	55	52	54	59	61	53	54	59	59	54	61	56	677	12
26	61	58	60	59	68	65	62	64	65	53	55	51	721	12
27	60	57	58	53	62	63	62	54	61	63	51	64	708	12
28	59	54	56	55	53	58	59	62	60	58	65	56	695	12
29														
30														
31														
SUM	1520	1486	1547	1556	1616	1601	1660	1644	1587	1583	1558	1529	18887	336

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 58

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MARCH 1941

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	59	69	68	61	52	54	65	50	58	43	36	48	663	12
2	52	51	52	48	52	49	58	58	61	54	50	56	641	12
3	60	66	63	67	67	62	65	67	61	65	62	64	769	12
4	65	63	61	66	63	60	65	61	68	68	70	77	787	12
5	69	72	70	70	78	70	73	71	74	75	72	68	862	12
6	75	59	70	72	78	76	83	81	72	79	75	86	906	12
7	78	79	80	75	79	83	83	77	78	84	84	81	961	12
8	79	69	74	71	74	67	84	73	66	74	74	67	872	12
9	67	70	71	68	69	81	77	75	75	75	73	82	883	12
10	80	73	86	71	78	79	81	91	83	81	74	73	950	12
11	71	74	72	79	71	80	79	77	76	79	76	70	904	12
12	66	74	66	68	74	76	74	76	73	71	60	70	848	12
13	76	77	75	74	69	71	69	72	72	79	73	77	884	12
14	73	71	74	74	81	83	80	80	82	73	71	67	909	12
15	80	70	75	77	77	75	81	80	80	76	76	68	915	12
16	71	67	62	78	67	79	77	77	73	74	69	72	866	12
17	71	69	69	68	75	70	80	78	75	76	70	64	865	12
18	70	68	70	69	73	79	76	77	75	75	69	69	870	12
19	68	61	61	62	79	72	78	71	60	65	70	64	811	12
20	64	71	82	71	73	72	73	70	64	75	73	76	864	12
21	73	70	64	73	71	71	72	77	72	76	76	74	869	12
22	74	69	61	69	77	71	75	76	79	69	73	68	861	12
23	66	67	68	80	66	70	70	78	73	78	66	63	845	12
24	67	73	65	62	73	77	77	73	74	65	68	71	845	12
25	64	68	69	79	70	77	81	74	71	64	64	73	854	12
26	66	71	66	70	68	75	76	74	70	67	59	64	826	12
27	75	76	71	68	76	73	69	78	65	68	73	66	858	12
28	65	71	67	74	79	78	73	65	74	76	81	72	875	12
29	66	68	72	74	68	69	79	68	79	78	73	74	868	12
30	81	74	65	68	79	73	79	69	58	56	46	61	809	12
31	56	53	60	68							59	54	350	6
SUM	2091	2080	2069	2106	2156	2172	2252	2194	2141	2138	2056	2085	25540	366

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 59

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

APRIL 1941

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +80, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	65	61	56	59	63	59	60	63	58	60	64	68	736	12
2	60	69	66	61	55	58	56	62	62	48	73	68	738	12
3	61	68	77	62	65	59	68	66	60	61	59	60	766	12
4	68	64	69	69	63	67	67	66	61	64	68	64	790	12
5	70	65	70	63	77	66	69	65	71	78	72	68	834	12
6	66	69	74	75	73	65	70	72	75	72	73	73	857	12
7	77	68	72	73	81	72	82	75	69	78	76	72	895	12
8	66	71	79	80	76	79	77	73	70	69	72	67	879	12
9	66	70	73	67	73	75	73	77	70	70	74	74	862	12
10	69	78	78	68	67	77	75	74	74	72	71	73	876	12
11	64	74	61	72	68	80	85	72	76	71	76	67	866	12
12	73	71	72	71	80	71	76	72	70	66	73	81	876	12
13	70	76									65	69	280	4
14	75	77	67	81	69	75	80	78	74	80	75	82	913	12
15	76	72	76	80	76	79	74	80	79	75	73	64	904	12
16	64	75	74	75	71	70	72	70	70	69	69	80	859	12
17	64	65	60	65	68	73	73	71	73	71	73	66	822	12
18	66	65	63	70	68	70	76	72	70	68	67	62	817	12
19	68	67	67	66	66	68	66	76	77	66	67	68	822	12
20	71	75	73	76	71	68	74	77	78	69	66	67	865	12
21	66	70	70	63	65	73	79	83	79	68	76	71	863	12
22	74	76	76	76	70	72	72	79	73	75			743	10
23			71	72							71	66	280	4
24	64	75	71	69	72	80	70	75	73	65	71	73	858	12
25	74	76	60	74	66	72	73	76	66	67	70	72	846	12
26	69	75	75	79	66	80	66	67	64	72	71	62	846	12
27	72	67	73	70	69	62	68	70	73	72	74	65	835	12
28	67	82	61	64	74	79	76	71	78	77	76	76	881	12
29	79	72	74	68	73	78	77	69	72	74	72	78	886	12
30	82	72	75	75	67	76	70	79	73	72	74	79	894	12
31														
SUM	1862	1913	1886	1895	1882	1931	1952	1951	1915	1874	1925	1900	22886	342

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 60

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MAY 1941

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	76	69	75	75	77	69	73	66	67	69	71	64	851	12
2	71	73	67	74	72	69	76	78	72	77	71	66	866	12
3	68	68	71	67	81	71	73	79	77	72	74	70	871	12
4	68	79	65	69	71	78	81	72	79	65	70	73	870	12
5	71	67	70	68	65	76	70	72	78	78	70	74	859	12
6	77	77	76	71	79	70	72	77	72	69	70	69	879	12
7	69	78	74	64	79	80	77	78	75	68	70	71	883	12
8	69	67	67	68	75	71	74	69	66	69	72	71	838	12
9	68	65	67	71	77	72	83	75	81	66	60	64	849	12
10	63	67	67	67	75	71	75	79	78	73	76	70	861	12
11	77	73	72	74	82	76	80	73	84	69	78	70	908	12
12	76	76	79	76	72	77	78	82	75	76	74	74	915	12
13	71	72	80	62	72	72	82	63	75	71	71	65	856	12
14	72	76	71	63	75	75	84	67	65	68	74	67	857	12
15	74	78	74	74	62	70	70	75	70	75	64	67	853	12
16	73	70	65	80	79	81	75	72	73	66	67	64	865	12
17	61	76	60	71	72	74	81	78	76	63	72	63	847	12
18	63	69	68	69	70	69	70	65	72	65	73	66	819	12
19	79	76	78	67	74	72	69	79	73	73	72	73	885	12
20	71	73	82	76	68	75	80	78	74	76	71	81	905	12
21	72	77	75	75	82	82	69	75	74	76	82	69	908	12
22	80	67	73	72	69	73	73	75	71	74	83	75	885	12
23	66	66	70	67	73	78	70	73	71	79	69	69	851	12
24	75	70	73	74	76	75	66	71	75	72	66	67	860	12
25	77	81	75	74	67	69	65	80	72	77	65	72	874	12
26	65	70	70	71	76	69	77	72	77	77	75	83	882	12
27	76	69	86	77	75	76	80	74	73	66	79	80	911	12
28	71	76	83	80	79	81	82	71	80	79	76	73	931	12
29	81	80	77	70	77	72	79	75	66	84	79	80	920	12
30	74	78	77	75	83	75	83	76	76	80	79	79	935	12
31	80	75	75	80	77	80	73	87	72	74	74	77	924	12
SUM	2234	2258	2262	2221	2311	2298	2340	2306	2289	2246	2247	2206	27218	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 61

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JUNE 1941

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	80	80	70	74	81	82	80	84	72	82	72	75	932	12
2	75	79	79	77	83	81	75	80	80	81	85	76	951	12
3	73	76	78	72	80	81	78	78	69	79	70	76	910	12
4	74	73	80	73	88	77	72	75	74	82	73	81	922	12
5	78	84	87	78	82	82	80	81	79	71	83	83	968	12
6	75	82	77	85	87	89	84	78	81	79	83	78	978	12
7	77	82	88	81	72	78	81	70	74	82	77	79	941	12
8	82	82	82	79	87	79	75	79	79	76	80	80	960	12
9	78	78	88	80	82	82	77	75	76	72	65	67	920	12
10	74	71	77	80	75	74	80	74	71	57	48	56	837	12
11	61	67	59	68	67	73	68	70	67	70	56	65	791	12
12	58	68	77	66	72	80	78	77	72	67	63	75	853	12
13	69	70	72	72	74	77	74	66	76				650	9
14											68	79	147	2
15	75	83	83	77	77	87	78	71	78	73	83	73	938	12
16	81	74	89	83	83	80	85	78	80	86	73	81	973	12
17	80	88	90	85	83	86	88	80	80	95	92	76	1023	12
18	80	81	80	79	79	79	79	78	84	82	73	80	954	12
19	77	84	81	81	77	80	82	74	88	75	78	78	955	12
20	82	81	78	83	88	80	83	84	85	78	81	79	982	12
21	75	72	78	81	79	81	78	75	75	71	79	74	918	12
22	68	80	75	86	85	77	81	87	79	82	79	76	955	12
23	74	74	76	81	80	79	86	86	87	76	76	67	942	12
24	72	69	75	77	71	87	84	86	88	82	83	73	947	12
25	73	80	74	77	75	80	84	76	80	72	79	76	926	12
26	71	76	84	81	89	85	78	72	76	72	72	75	931	12
27	68	84	77	78	76	88	76	83	84	79	68	78	939	12
28	81	79	87	78	73	84	76	79	81	77	86	81	962	12
29	73	74	83	77	76	79	72	73	69	78	79	81	914	12
30	75	86	78	73	82	75	76	84	80	79	78	76	942	12
31														
SUM	2090	2187	2230	2190	2229	2265	2214	2187	2188	2155	2114	2115	26164	347

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 62

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JULY 1941

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	78	83	76	79	82	84	80	83	80	76	81	75	957	12
2	78	74	76	79	78	87	81	86	82	74	79	69	943	12
3	82	83	84	74	84	86	80	81	71	74	79	79	957	12
4	76	77	74	73	82	71	81	72	84	71	77	72	910	12
5	81	88	82	92	83	86	76	81	74	58	61	62	924	12
6	76	72	82	81	73	69	64	76	69	70	64	71	867	12
7	82	66	78	80	84	74	73	82	74	64	66	69	892	12
8	71	73	82	77	76	73	76	75	81	67	74	70	895	12
9	70	82	78	72	77	79	77	81	78	75	84	67	920	12
10	74	84	76	81	75	69	68	58	72	72	68	84	881	12
11	70	80	78	77	67	70	73	71	76	72	69	80	883	12
12	75	75	70	72	72	79	73	78	84	76	76	79	909	12
13	76	73	73	71	71	72	83	82	74	81	79	70	905	12
14	80	86	77	81	84	76	76	86	74	72	80	83	955	12
15	80	76	77	82	80	85	78	81	80	75	78	76	948	12
16	83	77	77	74	81	77	74	76	73	81	72	76	921	12
17	81	79	77	80	80	82	86	79	84	89	80	84	981	12
18	86	86	78	83	82	82	85	78	77	75	86	83	981	12
19	74	80	83	80	81	83	81	79	80	72	78	78	949	12
20	75	81	78	78	73	82	78	85	85	79	79	77	950	12
21	84	86	91	89	87	83	89	75	73	89	79	85	1010	12
22	88	83	88	83	86	86	80	84	84	83	83	91	1019	12
23	82	84	82	77	82	77	82	74	83	86	79	85	973	12
24	82	86	80	82	75	85	82	90	84	83	87	77	993	12
25	76	81	80	84	79	89	90	75	77	77	79	78	965	12
26	92	84	83	87	89	83	83	81	82	80	84	80	1008	12
27	74	79	81	82	89	80	75	68	90	85	77	79	959	12
28	72	87	76	84	81	87	81	82	87	82	74	82	975	12
29	89	82	82	77	81	90	84	82	84	83	76	79	989	12
30	80	86	82	86	81	89	79	88	91	83	78	80	1003	12
31	79	90	78	82	85	87	78	85	85	76	79	76	980	12
SUM	2446	2503	2459	2479	2480	2502	2446	2454	2472	2380	2385	2396	29402	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 63

AUGUST 1941

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	75	80	77	81	85	85	88				75	77	723	9
2	81	79	94	83	82	88	76	82	83	85	80	86	999	12
3	88	78	80	81	86	74	80	87	76	79	70	83	962	12
4	85	91	80	75	60	69	57	55	50	53	51	66	792	12
5	72	71	75	73	72	79	79	77	67	69	62	59	855	12
6	64	69	85	69	67	72	73	75	86	74	74	78	886	12
7	74	75	81	76	77	77	84	78	84	77	75	74	932	12
8	77	85	75	88	83	84	78	79	81	76	75	76	957	12
9	71	82	85	80	86	75	85	83	86	76	81	83	973	12
10	83	68	76	80	80	76	86	82	77	76	79	75	938	12
11	71	75	85	82	82	87	81	86	76	77	82	76	960	12
12	82	85	84	77	84	79	78	83	75	81	79	77	964	12
13	81	82	82	85	81	88	78	82	80	79	85	79	982	12
14	89	87	92	82	84	77	81	84	86	82	82	87	1013	12
15	75	84	84	82	94	87	80	94	83	89	75	83	1010	12
16	86	85	90	87									348	4
17								85	83	92	81	81	422	5
18	92	82	83	82	83	88	94	82	85	84	84	89	1028	12
19	81	85	86	87	88	86	87	84	84	85	83	84	1020	12
20	81	82	83	88	92	86	87	83	81	82	87	73	1005	12
21	81	83	85	88	78	87	88	85	84	83	84	92	1018	12
22	79	88	84	82	89	91	77	74	82	75	77	79	977	12
23	86	80	82	94	81	89	84	83	87	90	92	80	1028	12
24	82	86	84	97	86	87	81	80	84	83	84	94	1028	12
25	80	80	89	85	89	84	90	84	86	93	77	84	1021	12
26	88	76	77	84	87	75	82	81	79	83	78	83	973	12
27	83	84	78	76	91	91	79	77	83	77	75	72	966	12
28	78	74	78	79	74	79	69	86	72	75	71	73	908	12
29	68	72	68	64	73	71	73	68	74	73	71	73	848	12
30	78	69	73	85	83	77	76	76	77	73	67	75	909	12
31	81	76	75	82	75	81	81	69	75	81	78	77	931	12
SUM	2231	2228	2283	2286	2287	2284	2244	2239	2223	2210	2158	2210	26883	354

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 64

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

SEPTEMBER 1941

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	80	80	78	73	79	78	78	81	70	70	81	77	925	12
2	84	68	82	83	78	84	75	74	79	70	75	77	929	12
3	73	83	80	91	86	79	67	82	74	79	76	77	947	12
4	79	78	78	85	85	87	86	81	82	82	84	81	988	12
5	85	81	84	90	78	84	79	79	82	74	77	83	976	12
6	80	75	90	85	79	88	87	86	80	86	87	80	1003	12
7	85	88	79	78	84								414	5
8														
9														
10														
11						85	83	81	86	83	76	80	574	7
12	84	82	81	90	85	82	79	85	83	74	80	78	983	12
13	82	83	85	84	91	82	80	87	82	80	78	79	993	12
14	74	82	86	92	79	88	80	81	80	88	89	85	1004	12
15	90	86	86	83	90	85	79	87	82	84	74	83	1009	12
16	79	77	76	88	82	81	83	81	81	90	82	79	979	12
17	88	83	89	86	87	90	79	77	84	89	81	81	1014	12
18	81	72	63	73	64	71	83	80	71	72	71	72	873	12
19	55	60	69	67	75	62	68	67	61	63	57	62	766	12
20	71	75	66	70	76	74	75	68	70	71	76	74	866	12
21	75	73	76	77	93	76	69	74	76	74	66	73	902	12
22	71	70	75	68	81	70	72	72	76	79	79	75	888	12
23	73	72	86	77	78	83	74	84	79	81	71	71	929	12
24	74	77	77	71	81	73	78	77	77	79	71	78	913	12
25	79	82	86	77	75	91	82	77	83	79	80	77	968	12
26	77	79	78	83	79	75	81	76	75	76			779	10
27							79	80	81	77	84	80	481	6
28	79	82	77	78	76	82	86	83	83				726	9
29						84	85	92	86	90	82	89	608	7
30	82	89	85	78	92	84	90	87	81	85	85	81	1019	12
31														
SUM	1639	1628	1678	1688	1714	1692	1643	1667	1633	1649	1620	1623	19874	296

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 65

OCTOBER 1941

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	85	85	87	88	85	82	92	88	84	86	79	87	1028	12
2	86	74	80	82	84	90	85	86	85	83	78	81	994	12
3	86	81	81	80	91	86	90	79	91	83	85	81	1014	12
4	83	87	86	89	88	80	86	75	83	79	87	82	1005	12
5	81	87	90	81	89	80	87	84	93	83	81	78	1014	12
6	86	87	77	77	80	81	83	84	87	78	75	80	975	12
7	74	72	78	88	89	82	89	73	79	79	76	81	960	12
8	89	81	80	89	86	82	88	86	72	77	76	84	990	12
9	77	90	83	76	84	89	85	82	79	77	76	78	976	12
10	72	73	80	81	88	82	83	79	85	82	80	74	959	12
11	79	76	85	90	88	78	76	78	77	72	78	81	958	12
12	75	74	82	85	88	76	85	79	78	85	81	75	963	12
13	78	85	85	81	81	90	88	79	77	82	77	77	980	12
14	87	76	78	83	86	87	81	97	79	76	85	90	1005	12
15	81	87	89	86	90	92	89	93	85	83	91	84	1050	12
16	87	81	87	83	87	86	90	95	91	88	90	84	1049	12
17	76	85	79	82	81	92	79	89	81	90	80	80	994	12
18	83	89	75	78	89	73	85	84	78	83	83	88	988	12
19	77	84	79	82	75	82	87	84	90	85	80	76	981	12
20	77	81	75	88	90	88	91	88	79	84	79	76	996	12
21	89	84	85	88	85	93	83	80	81	92	87	77	1024	12
22	83	78	85	79	80	81	83	88	89	84	77	84	991	12
23	86	77	76	82	82	83	86	88	94	81	83	100	1018	12
24	83	83	79	78	87	92	85	86	83	88	91	96	1031	12
25	88	86	83	76	86	84	88	79	89	86	73	75	993	12
26	78	81	80	76	84	74	75	76	78	80	84	79	945	12
27	77	75	75	85	79	79	85	77	84	84	81	86	967	12
28	86	86	81	90	81	83	85	82	89	85	79	85	1012	12
29	90	90	87	74	81	83	83	90	81	82	18	19	878	12
30	78	84	83	85	91	85	80	84	83	85	81	90	1009	12
31	84	92	90	89	90	73	85	82	74	81	77	81	998	12
SUM-	2541	2551	2540	2571	2645	2588	2637	2594	2578	2563	2448	2489	30745	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 66

NOVEMBER 1941

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +80, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	82	92	87	94	91	87	85	84	89	93	89	90	1063	12
2	89	86	90	84	92	82	94	89	84	83	80	78	1031	12
3	80	82	83	81	90	88	97	88	90	77	80	77	1013	12
4	80	84	84	77	84	87	84	94	84	83	78	80	999	12
5	73	79	81	81	90	87	86	86	82	76	75	78	974	12
6	81	82	81	88	90	82	80	83	76	81	79	77	980	12
7	76	82	90	81	85	74	74	88	77	79	81	81	968	12
8	80	81	90	74	80	87	84	83	80	81	79	78	977	12
9	81	77	82	77	74	90	84	80	84	83	82	86	980	12
10	72	82	81	80	79	78	85	89	77	78			801	10
11			83	84	81	79	84	85	90	83	80	83	832	10
12	79	86	90	69	81	84	89	85	79	82	86	82	992	12
13	85	81	90	88	82	86	88	94	86	83	72	84	1019	12
14	80	86	82	86	84	80	85	77	78	77	90	80	985	12
15	82	78	80	90	86	83	91	80	82	87	83	89	1011	12
16	76	75	83	83	88	77	86	85	85	87	80	81	986	12
17	79	85	71	82	84	97	87	88	86	80	81	83	1003	12
18	81	84	86	76	91	92	80	83					673	8
19									74				74	1
20							89	80	86	81	80	82	498	6
21	86	81	79	82	88	77	83	83	78	78	87	84	986	12
22	84	85	85	76	85	87	77	77	79	76	74	76	961	12
23	77	82	80	79	84	82	81	83	77	87	78	76	966	12
24	75	77	80	81	84	83	88	85	85	75	78	83	974	12
25	80	90	77	79	82	84	83	88	74	77	85	83	982	12
26	89	88	80	87	86	76	80	90	77	86	81	82	1002	12
27	89	79	89	70	86	87	72	86	82	78	72	79	969	12
28	78	79	80	88	78	76	83	85	75	76	79	78	955	12
29	75	70	82	84	75	81	82	76	73	86	78	81	943	12
30	85	71	76	78	78	80	71	77	84	77	71	78	926	12
31														
SUM	2021	2038	2072	2039	2107	2084	2094	2114	2026	2028	1998	2024	24645	335

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 67

DECEMBER 1941

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +80, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	69	69	75	74	72	68	66	67	76	76	68	58	838	12
2	61	63	61	75	74	69	80	70	70	81	68	70	842	12
3	60	69	64	68	71	68	68	74	68	70	64	68	812	12
4	58	68	72	70	76	71	65	69	69	71	61	60	810	12
5	70	70	67	65	69	72	71	76	78	68	70	69	845	12
6	73	72	78	74	77	77	83	79	83	75	72	63	906	12
7	69	75	77	79	73	81	74	76	79	84	80	80	927	12
8	81	79	80	75	70	82	81	82	71	79	81	79	940	12
9	77	81	80	84	85	88	85	71	80	93	76	75	975	12
10	76	77	81	82	81	81	78	85	84	81	77	74	957	12
11	74	84	82	76	93	82	81	91	84	78	84	79	988	12
12	76	74	71	85	81	86	83	78	76	85	77	77	949	12
13	75	75	79	79	84	83	82	82	77	73	78	81	948	12
14	83	74	77	73	83	89	78	84	85	79	77	83	965	12
15	79	81	84	77	82	84	80	76	78	86	85	84	976	12
16	83	78	81	84	90	89	86	85	80	79	86	82	1003	12
17	83	88	83	78	78	85	80	81	85	86	82	89	998	12
18	80	84	78	86	64	78	76	76	70	79	74	87	932	12
19	74	72	71	79	74	79	80	73	78	85	80	79	924	12
20	77	84	84	78	87	76	82	82	79	86	72	79	966	12
21	79	76	87	79	77	79	79	88	79	80	70	83	956	12
22	77	75	77	88	77	94	80	85	81	85	81	89	989	12
23	89	80	94	80	84	82	88	87	84	82	77	90	1017	12
24	75	82	82	74	86	78	79	76	79	82	83	77	953	12
25	80	87	83	78	79	90	80	85	86	79	73	81	981	12
26	78	86	80	84	90	78	82	79	80	81	79	74	971	12
27	77	78	83	78	80	81	74	76	74	74	78	82	935	12
28	75	77	76	81	75	81	72	73	80	65	75	71	901	12
29	68	75	81	79	79	78	76	81	86	86	77	80	946	12
30	76	74	78	81	79	74	76	82	79	88	83	74	944	12
31	76	81	76	81	77	78	76	80	79	82	83	74	943	12
SUM	2328	2388	2422	2424	2447	2481	2421	2449	2437	2478	2371	2391	29037	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 68

JANUARY 1942

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +80, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	83	87	79	91	91	83	87	76	81	89	87	84	1018	12
2	85	85	80	80	84	87	80	86	76	85	82	79	989	12
3	85	83	93	86	89	90	85	88	83	85	85	81	1033	12
4	88	79	82	87	82	84	86	82	78	85	17	89	939	12
5	75	81	82	86	84	85	85	88	84	85	83	79	997	12
6	83	76	82	84	84	84	85	93	84	90	85	93	1023	12
7	86	82	89	83	81	89	88	92	88	85	82	78	1023	12
8	85	82	86	78	82	91	82	87	97	91	85	83	1029	12
9	88	84	88	86	79	86	82	84	87	83	82	81	1010	12
10	80	91	91	80	87	78	84	83	86	91	80	78	1009	12
11	80	77	78	76	82	88	86	89	92	77	78	82	985	12
12	82	84	80	83	82	87	88	89	85	88	81	88	1017	12
13	80	82	91	90	92	86	86	91	78	85	74	74	1009	12
14	89	85	85	88	88	84	81	87	80	82	85	86	1020	12
15	82	90	79	88	83	81	79	81	82	82	90	76	993	12
16	88	94	80	85	79	79	78	92	79	84	80	82	1000	12
17	82	98	82	87	81	81	83	89	80	86	86	87	1022	12
18	73	76	78	75	82	85	78	82	82	84	78	76	949	12
19	76	82	88	93	77	88	84	90	89	80	80	79	1006	12
20	72	80	81	80	81	85	92	86	86	74	83	86	986	12
21	79	86	87	75	88	84	86	83	82	84	81	89	1004	12
22	78	86	82	88	81	82	86	83	78	79	79	78	980	12
23	76	82	79	85	84	86	84	82	81	77	90	76	982	12
24	84	80	72	89	83	87	81	77	81	82	81	80	977	12
25	87	77	85	87	88	79	97	80	84	85	81	90	1020	12
26	75	84	79	98	80	88	87	81	92	83	83	83	1013	12
27	74	78	84	84	86	86	95	85	94	83	92	74	1015	12
28	83	75	86	88	78	90	89	81	90	83	84	79	1006	12
29	80	87	79	73	77	92	89	84	91	91	86	86	1015	12
30	83	81	84	83	82	80	84	87	88	83	79	83	997	12
31	82	82	83	85	91	96	87	82	79	81	77	83	1008	12
SUM	2523	2576	2574	2621	2588	2651	2644	2640	2617	2602	2496	2542	31074	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 69

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

FEBRUARY 1942

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +80, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	76	81	76	83	80	90	89	82	87	76	82	74	976	12
2	81	76	79	75	83	90	93	85	87	85	86	88	1008	12
3	81	83	92	83	81	80	86	80	90	83	84	86	1009	12
4	85	88	90	84	88	86	89	87	81	84	83	77	1022	12
5	89	79	82	84	85	84	86	90	84	86	82	81	1012	12
6	77	72	81	80	86	72	79	87	88	80	78	83	963	12
7	85	80	81	79	82	79	82	83	81	79	81	78	970	12
8	77	86	79	73	84	84	80	86	79	83	81	77	969	12
9	73	72	89	83	77	80	84	87	85	78	82	80	970	12
10	79	76	84	83	85	80	85	93	90	85	79	78	997	12
11	86	82	84	83	92	90	93	91	87	94	88	86	1056	12
12	79	85	75	84	81	86	84	94	90	87	82	80	1007	12
13	84	72	76	83	78	85	80	89	78	82	82	80	969	12
14	74	72	81	80	79	85	92	86	82	86	91	86	994	12
15	75	86	83	77	84	86	90	91	84	83	81	83	1003	12
16	74	82	82	91	86	88	87	87	93	83	87	84	1024	12
17	79	84	91	79	88	91	88	84	100	86	82	92	1044	12
18	80	84	80	90	81	79	87	84	80	87	82	78	992	12
19	89	89	83	81	93	84	87	82	95	85	81	85	1034	12
20	86	86	75	87	86	89	82	83	84	85	87	77	1007	12
21	79	76	89	76	88	81	72	84	84	80	78	84	971	12
22	80	80	83	85	88	89	83	84	82	82	82	85	1003	12
23	72	81	81	80	84	82	88	76	81	80	81	71	957	12
24	72	71	72	69	72	71	75	79	83	75	77	72	888	12
25	66	75	67	70	75	76	85	75	81	68	75	70	883	12
26	66	79	82	81	83	78	81	81	78	77	81	70	937	12
27	81	82	78	80	82	74	75	78	80	81	74	77	942	12
28	87	82	77	76	80	78	80	73	78	72	77	73	933	12
29														
30														
31														
SUM	2212	2241	2272	2259	2331	2317	2362	2361	2372	2292	2286	2235	27540	336

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 70

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MARCH 1942

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	76	69	45	24	50	40	51	37	15	16	27	37	487	12
2	40	36	42	41	37	42	37	44	48				367	9
3														
4						53	53	55	55	62	58	54	390	7
5	59	54	58	59	60	58	55	60	57	57	55	63	695	12
6	62	63	72	70	58	56	65	65	67	64	54	62	758	12
7	85	74	66	70	61	68	63	74	73	65	69	64	832	12
8	71	73	62	57	50	59	70	67	59	69	65	62	764	12
9	54	54	50	58	50	69	59	59	63	59	61	58	694	12
10	63	59	68	56	54	53	61	65	63	63	59	64	728	12
11	57	61	52	57	66	70	69	67	73	73	74	67	786	12
12	67	64	62	63	74	68	75	71	83	71	72	70	840	12
13	73	65	70	73	69	76	73	81	79	78	75	81	893	12
14	66	65	74	69	68	78	81	78	79	79	77	69	883	12
15	77	72	70	74	79	81	77	74	84	72	74	71	905	12
16	65	71	74	81	78	75	87	69	81	77	68	80	906	12
17	76	77	76	85	81	79							474	6
18						84	82	82	81	71	79	77	556	7
19	70	68	79	78	69	77	77	69	67	67	72	66	859	12
20	76	76	82	74	82	77	77	75	81	75	79	76	930	12
21	84	83	81	76	85	84	77	79	79	76	73	81	958	12
22	80	81	82	77	85	74	86	83	76	82	76	73	955	12
23	73	78	87	80	88	78	81	85	84	83	86	76	979	12
24	81	83	88	79	75	84	86	91	82	81	81	78	989	12
25	73	85	92	84	86	87	90	79	82	78	81	73	990	12
26	77	91	85	83	85	85	91	84	83	79	72	71	986	12
27	83	72	78	79	78	83	78	81	86	68	72	73	931	12
28	82	81	80	79	74	79	73	71	71	76	79	75	920	12
29	70	84	77	91	70	80	75	76	84	72	74	84	937	12
30	66	74	73	79	73	72	79	81	78	72	77	72	896	12
31	79	76	76	78	79	78	86	80	77	71	70	62	912	12
SUM	1869	1876	1883	1848	1846	1889	1942	1901	1906	1823	1822	1808	22413	341

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 71

APRIL 1942

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	71	65	78	70	78	79	65	65	75	66	70	70	852	12
2	70	72	77	76	71	66	79	62	74	70	76	71	864	12
3	71	78	79	75	82	74	78	71	72	73	70	72	895	12
4	78	74	90	83	77	84	75	72	83	71	76	76	939	12
5	72	72	78	82	80	75	81	77	73	78	73	71	912	12
6	76	83	85	85	83	79	81	85	74	74	74	81	960	12
7	74	73	83	82	78	77	66	80	78	66	69	86	912	12
8	83	81	79	81	75	91	86	82	82	90	81	78	989	12
9	73	83	80	80	80	80	82	84	79	77	77	75	950	12
10	87	72	82	76	74	75	81	73	75	69	77	73	914	12
11	72	73	78	76	76	82	79	90	84	81	75	73	939	12
12	80	69	72	72	76	81	84	86	80	82	75	74	931	12
13	74	71	73	89	77	86	84	86	78	77	88	74	957	12
14	71	77	78	79	78	76	80	80	72	67	68	70	896	12
15	74	79	76	76	75	82	76	77	76	67	64	74	896	12
16	75	77	72	79	71	76	81	79	83	78	84	78	933	12
17	78	70	83	77	83	77	71	82	76	77	77	65	916	12
18	77	69	89	77	85	80	79	84	83	84	78	70	955	12
19	73	78	80	76	77	79	76	84	71	83	79	81	937	12
20	73	73	80	85	84	75	82	87	84	89	91	79	982	12
21	79	87	79	88	78	89	93	84	89	79	82	84	1011	12
22	82	82	84	80	85	84	81	79	80	87	73	79	976	12
23	80	82	81	82	88	85	87	82	79	85	79	73	983	12
24	80	83	78	78	80	86	87	78	85	76	74	76	961	12
25	78	80	81	82	82	85	79	81	77	74	84	73	956	12
26	74	77	79	78	75	69	83	84	76	87	73	75	930	12
27	71	78	83	72	77	82	80	84	81	80	81	76	945	12
28	73	82	78	81	74	81	85	90	74	82	81	67	948	12
29	82	71	76	78	73	83	87	75	76	83	77	67	928	12
30	68	81	77	77	83	78	87	84	82	75	73	72	937	12
31														
SUM	2269	2292	2388	2372	2355	2396	2415	2407	2351	2327	2299	2233	28104	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 72

MAY 1942

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	77	79	75	81	78	81	84	80	81	76	79	76	947	12
2	85	79	85	73	80	87	81	85	85	84	81	76	981	12
3	79	81	86	85	87	78	81	82	80	82	78	70	969	12
4	72	79	73	77	83	79	76	76	72	74	76	78	915	12
5	72	83	87	80	80	76	76	77	77	70	75	84	937	12
6	78	78	81	71	79	82	87	71	81	71	75	88	942	12
7	75	70	88	81	84	80	82	86	81	78	74	77	956	12
8	82	86	78	73	83	87	88	82	82	84			825	10
9											84	76	160	2
10	79	84	82	80	87	87	87	84	80	80	80	80	990	12
11	75	84	83	81	77	84	84	86	83	84	78	77	976	12
12	80	83	85	79	80	83	76	75	81	89	85	76	972	12
13	85	81	75	76	85	84	83	90	84	82	86	79	990	12
14	84	83	91	86	82	84	82	89	86	83	84	87	1021	12
15	81	93	78	86	79	83	80	86	83	88	83	87	1007	12
16	76	83	87	84	87	84	75	84	83	85	83	81	992	12
17	87	82	84	80	86	88	92	80	84	88	81	82	1014	12
18	83	83	90	83	90	86	87	95	84	89	85	82	1037	12
19	81	77	81	84	90	87	83	91	90	86	81	85	1016	12
20	98	84	88	85	82	89	83	89	86	81	77	84	1026	12
21	78	82	87	86	87	86	90	87	84	84	82	86	1019	12
22	82	77	86	78	87	87	78	79	80	81	87	74	976	12
23	78	86	76	84	86	86	82	85	77	76	83	82	981	12
24	81	83	77	78	90	84	81	87	90	89	79	81	1000	12
25	76	76	81	88	83	87	83	91	82	82	89	86	1004	12
26	84	79	76	88	81	87	85				85	89	754	9
27	80	92	80	89	83	80	92	84	84	86	84	83	1017	12
28	85	82	83	83	80	85	87	81	79	87	83	82	997	12
29	94	83	82	98	91	81	89	83	86	83	78	88	1036	12
30	87	84	81	82	87	82	90	87	82	86	79	88	1015	12
31	89	89	85	81	82	89	85	94	86	89	82	84	1035	12
SUM	2277	2300	2317	2299	2352	2349	2336	2364	2311	2313	2267	2283	27768	357

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 73

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JUNE 1942

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	85	88	84	77	85	86	90	85	81	88	86	87	1022	12
2	84	81	82	81	84	85	83	86	86	93	89	81	1015	12
3	81	92	81	81	85	90	91	84	90	86	91	87	1039	12
4	89	85	87	88	89	86	85	88	84	85	94	81	1041	12
5	92	88	93	95	92	90	88	88	84	91	94	81	1076	12
6	86	88	81	91	85	88	90	89	90	84	89	86	1047	12
7	83	88	87	91	92	95	89	93	93	86	95	89	1081	12
8	92	91	93	89	94	93	91	92	80	94	88	86	1083	12
9	90	82	82	93	93	84	92	92	91	95	80	95	1069	12
10	90	88	92	99	94	89	94	95	88	90	101	95	1115	12
11	97	101	89	88	93	90	93	88	93	86	87	81	1086	12
12	89	97	87	89	88	88	98	91	94	94	89	83	1087	12
13	88	94	85	90	89	90	92	94	85	92	94	96	1089	12
14	90	87	84	89	90	92	95	87	84	91	90	89	1068	12
15	96	95	90	90	92	105	91	91	92	98	92	88	1120	12
16	95	84	87	90	104	95	93	94	80	86	91	88	1087	12
17	83	86	92	87	83	95	87	88	82	77	84	79	1023	12
18	85	83	80	80	83	87	83	80	81	81	85	84	992	12
19	85	84	83	94	89	94	81	87	84	80	77	74	1012	12
20	77	79	79	82	83	77	80	86	72	88	80	80	963	12
21	73	82	80	84	86	80	79	86	78	89	86	81	984	12
22	85	86	89	86	85	92	86	79	81	90	81	82	1022	12
23	89	83	86	90	89	79	88	80	88	87	86	82	1027	12
24	92	76	91	91	86	85	85	82	85	77	90	78	1018	12
25	85	88	84	95	88	89	78	90	87	86	85	80	1035	12
26	85	91	91	86	84	87	88	92	81	87	84	88	1044	12
27	80	83	90	81	89	87	86	91	86	88	84	84	1029	12
28	86	86	86	90	85	86	89	94	84	100	93	86	1065	12
29	78	88	88	82	82	94	88	86	81	91	86	92	1036	12
30	79	84	91	88	89	83	83	81	93	91	85	79	1026	12
31														
SUM	2589	2608	2594	2637	2650	2661	2636	2639	2558	2651	2636	2542	31401	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 74

JULY 1942

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	78	80	79	86	85	87	90	83	91	87	86	84	1016	12
2	91	91	81	93	94	91	83	88	86	88	90	85	1061	12
3	82	85	88	92	87	85	85	90	85	92	95	91	1057	12
4	84	92	83	90	91	89	96	92	85	89	86	81	1058	12
5	91	90	86	83	89	91	95	90	84	80	90	86	1055	12
6	79	81	87	93	91	84	97	88	93	89	88	94	1064	12
7	83	93	91	97	90	92	95	87	88	92	89	90	1087	12
8	81	81	92	93	93	81	89	96	90	90	94	92	1072	12
9	79	82	82	91	89	92	88	85	84	84	90	89	1035	12
10	89	89	89	85	84	89	89	96	90	89	74	78	1041	12
11	81	81	82	84	88	85	88	92	81	90	80	80	1012	12
12	80	82	82	84	86	80	84	87	79	81	77	74	976	12
13	84	77	83	88	84	82	85	81	87	75	78	72	976	12
14	80	89	77	84	81	87	86	80	85	85	75	75	994	12
15	79	84	87	83	78	81	85	86	74	91	84	89	1001	12
16	82	84	86	92	82	82	86	83	82	85	77	87	1008	12
17	78	84	86	82	88	87	82	87	82	84	87	79	1006	12
18	90	81	81	92	91	84	81	87	79	88	85	88	1027	12
19	80	91	91	85	90	86	78	89	87	91	86	88	1042	12
20	87	85	83	86	95	86	90	85	88	83	90	87	1045	12
21	85	83	91	86	79	84	89	91	76	87	87	81	1019	12
22	89	86	89	87	81	89	84	88	87	87	86	90	1043	12
23	85	80	89	88	88	89	87	87	89	93	81	92	1048	12
24	82	82	83	80	85	87	84	85	84	84	84	90	1010	12
25	89	86	86	87	89	92	83	93	87	88	90	86	1056	12
26	83	83	85	91	84	95	87	87	95	104	83	81	1058	12
27	85	91	86	79	84	83	92	92	95	81	87	77	1032	12
28	87	90	87	93	89	89	96	88	90	90	88	84	1071	12
29	90	90	90	91	85	91	93	85	83	86	88	91	1063	12
30	87	94	90	92	93	88	90	89	93	87	89	84	1076	12
31	80	87	88	89	87	95	92	85	84	88	87	91	1053	12
SUM	2600	2654	2660	2726	2700	2703	2729	2722	2663	2708	2661	2636	32162	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 75

AUGUST 1942

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	91	91	87	88	87	86	101	84	85	98	81	85	1064	12
2	85	99	92	88	89	92	95	99	94	91	87	87	1098	12
3	88	89	81	88	87	90	94	96	96	93	93	90	1085	12
4	96	89	92	97	95	93	90	97	89	91	86	97	1112	12
5	96	96	98	91	93	96	90	99	91	90	89	104	1133	12
6	91	91	96	95	93	98	94	97	102	94	89	101	1141	12
7	99	89	90	99	99	93	91	98	91	88	89	102	1128	12
8	89	89	91	90	85	91	102	94	91	88	93	85	1088	12
9	94	90	95	92	97	94	96	87	87	94	94	87	1107	12
10	98	94	86	97	94	92	94	93	94	86	87	89	1104	12
11	87	91	98	96	96	93	93	85	95	94	87	81	1096	12
12	93	93	96	94	96	99	92	90	97	89	98	88	1125	12
13	89	88	93	97	98	94	97	88	95	98	88	81	1106	12
14	88	89	87	98	92	92	89	91	91	95	96	82	1090	12
15	99	87	93	96	100	94	96	93	95	94	97	98	1142	12
16	95	96	92	90	97	97	91	94	89	90	90	90	1111	12
17	81	90	93	94	96	97	102	99	87	92	87	87	1105	12
18	90	88	90	90	102	90	96	91	83	97	86	91	1094	12
19	92	89	96	97	100	97	91	87	90	86	83	88	1096	12
20	89	88	85	94	97	93	104	99	85	90	84	96	1104	12
21	91	94	93	86	98	87	92	89	89	97	85	98	1099	12
22	90	92	94	97	91	91	84	83	89	91	82	92	1076	12
23	87	83	91	92	91	93	97	87	92	87	91	93	1084	12
24	92	82	91	97	93	90	95	88	93	101	90	88	1100	12
25	95	93	98	88	98	94	91	97	91	93	93	87	1118	12
26	93	98	94	95	97	92	90	94	89	97	87	85	1111	12
27	87	90	96	112	93	92	84	89	97	93	99	93	1125	12
28	93	91	97	101	96	97	96	89	97	101	93	95	1146	12
29	92	94	97	98	100	93	85	96	97	89	93	92	1126	12
30	97	98	93	100	102	102	101	93	96	90	95	96	1163	12
31	97	94	102	101	101	95	101	92	98	96	100	95	1172	12
SUM	2844	2825	2877	2938	2953	2897	2914	2858	2855	2873	2792	2823	34449	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 76

SEPTEMBER 1942

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +80, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	103	95	97	93	92	95	98	95	91	97	94	93	1143	12
2	97	100	100	92	97	94	104	93	101	99	93	102	1172	12
3	93	87	87	98	100	95	101	91	96	103	94	93	1138	12
4	99	92	97	95	97	91	92	100	97	94	90	94	1138	12
5	97	100	90	101	91	93	95	94	93	101	101	101	1157	12
6	88	98	99	95	93	95	94	96	92	97	107	100	1154	12
7	100	94	93	104	93	95	90	95	101	96	99	102	1162	12
8	102	96	97	95	107	96	91	103	88	94	97	91	1157	12
9	101	92	93	99	96	99	97	99	94	100	99	97	1166	12
10	94	100	91	93	101	100	93	99	101	100	94	103	1169	12
11	96	100	94	103	103	99	101	99	91	94	92	100	1172	12
12	95	92	89	95	97	94	100	97	96	90	89	90	1124	12
13	88	90	93	94	94						85	87	631	7
14	92	101	89	88	96	96	96	90	97	84	92	97	1118	12
15	91	88	92	95	82	89	96	89	80	93	89	94	1078	12
16	92	91	86	92	99	97	98	98	93	85	93	94	1118	12
17	95	90	93	97	93	91	91	89	91	96	88	93	1107	12
18	91	99	101	94	91	90	98	94	87	91	95	86	1117	12
19	101	91	95	95	92	101	95	96	91	94	93	95	1139	12
20	89	88	91	95	87	93	103	99	92	99	89	93	1118	12
21	90	93	98	94	93	92	94	98	92	85	100	106	1135	12
22	94	93	96	91	95	95	99	89	93	91	97	84	1117	12
23	109	96	97	98	92	100	95	95	91	88	92	99	1152	12
24	95	96	92	94	101	99	99	95	89	91	93	99	1143	12
25	99	95	93	103	99	98	90	103	93	99	100	94	1166	12
26	95	90	111	107	95	98	106	99	91	107	104	96	1199	12
27	100	101	101	100	104	98	91	93	106	97	90	96	1177	12
28	102	101	97	96	102	91	97	95	101	101	98	101	1182	12
29	100	91	97	94	99	93	103	108	104	115	97	95	1196	12
30	93	90	105	101	96	101	93	98	103	93	101	96	1170	12
31														
SUM	2793	2740	2761	2797	2783	2768	2800	2789	2735	2774	2760	2784	33284	355

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 77

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

OCTOBER 1942

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	93	92	101	104	95	105	99	95	87	100	102	104	1177	12
2	98	102	102	95	98	92	107	103	96	97	92	100	1182	12
3	101	97	92	97	95	97	101	103	102	97	97	93	1172	12
4	95	100	104	95	96	92	92	87	95	91	89	94	1130	12
5	91	96	96	102	93	98	94	96	96	97	101	99	1159	12
6	95	103	94	101	100	105	102	99	100	99	93	94	1185	12
7	104	107	97	100	98	95	97	91	86	100	95	92	1162	12
8	88	99	100	97	98	93	97	93	92	92	94	93	1136	12
9	93	89	95	97	95	99	103	96	95	90	95	92	1139	12
10	97	88	89	89	99	96	99	94	95	96	90	92	1124	12
11	97	91	94	89	93	93	94	93	91	95	93	97	1120	12
12	100	93	90	91	94	94	102	99	103	93	94	86	1139	12
13	89	90	97	90	101	87	91	89	92	93	94	86	826	9
14	91	89	86	92	94	94	101	91	95	99	95	97	1124	12
15	93	101	93	94	89	87	93	90	96	91	94	89	1110	12
16	98	94	83	90	87	97	102	98	96	86	92	92	1115	12
17	91	84	94	97	96	98	93	95	98	92	85	90	1113	12
18	91	95	91	100	96	90	100	96	93	86	89	89	1116	12
19	92	85	103	89	90	84	89	91	103	84	95	90	1095	12
20	100	97	87	92	99	91	94	93	96	87	87	84	1107	12
21	87	92	90	93	93	99	84	95	98	88	95	91	1105	12
22	88	96	88	95	104	104	88	90	98	101	95	89	1136	12
23	92	90	96	101	93	94	90	97	105	99	99	96	1152	12
24	94	97	100	91	96	87	97	102	91	95	99	88	1137	12
25	93	95	96	96	93	98	90	98	99	95	93	84	1130	12
26	92	97	92	93	88	102	102	97	91	95	98	100	1147	12
27	100	101	96	98	88	100	101	97	104	102	97	98	1182	12
28	92	100	87	89	97	107	97	97	99	88	96	88	1137	12
29	95			92	96	103	94	95	98	94	94	91	952	10
30	90	93	91	103	102	98	96	88	88	85	92	85	1111	12
31	95	90	100	93	96	93	94	83	88	91	86	91	1100	12
SUM	2731	2753	2727	2763	2755	2782	2798	2747	2776	2711	2722	2677	32942	367

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 78

NOVEMBER 1942

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	89	102	94	93	90	93	90	93	95	92	96	94	1121	12
2	91	93	87	87	95	98	89	101	96	83	96	94	1110	12
3	98	94	91	97	88	93	96	93	99	90	87	92	1118	12
4	96	90	98	90	99	95	99	93	96	98	91	92	1137	12
5	95	97	91	94	94	92	93	98	97	96	103	93	1143	12
6	87	95	84	92	86	89	93	99	90	102	95	84	1096	12
7	91	79	83	94	97	96	94	92	90	91	93	83	1083	12
8	96	87	94	100	100	92	88	101	96	96	93	91	1134	12
9	86	85	94	94	96	93	96	90	104	91	87	87	1103	12
10	96	100	93	91	96	96	99	97	90	89	90	85	1122	12
11	94	93	100	92	90	91	85	84	91	89	92	85	1086	12
12	95	89	95	94	98	85	96	100	100	91	90	90	1123	12
13	95	95	88	90	87	92	91	92	88	97	92	88	1095	12
14	92	86	89	93	95	94	85	96	95	95	94	94	1108	12
15	81	97	92	91	91	92	89	85	85	95	90	95	1083	12
16	93	88	90	93	97	94	97	96	88	84	97	96	1113	12
17	89	87	98	96	91	98	94	93	92	95	94	89	1116	12
18	96	95	98	89	95	95	102	104	99	91	93	93	1150	12
19	94	96	84	95	99	107	92	88	96	102	93	90	1136	12
20	96	88	89	93	89	91	98	96	93	88	91	95	1107	12
21	88	92	95	94	89	99	94	90	94	96	104	97	1132	12
22	101	96	98	90	96	98	101	104	109	104	91	89	1177	12
23	86	101	95	100	100	102	94	100	106	102	94	94	1174	12
24	92	97	98	95	104	94	100	105	95	100	100	101	1181	12
25	95	99	100	95	92	89	102	104	97	97	90	96	1156	12
26	99	93	97	89	95	98	101	93	94	93	91	102	1145	12
27	94	87	99	85	102	87	86	88	93	89	96	98	1104	12
28	96	95	98	102	93	96	98	99	94	89	97	101	1158	12
29	98	98	101	94	96	93	92	99	95	93	103	100	1162	12
30	104	97	90	99	106	101	103	104	97	97	94	95	1187	12
31														
SUM	2803	2791	2803	2801	2846	2833	2837	2877	2854	2815	2817	2783	33860	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 79

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

DECEMBER 1942

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	96	100	102	103	103	99	98	91	90	101	94	92	1169	12
2	93	104	102	92	102	102	93	97	98	95	94	81	1153	12
3	102	85	95	99	95	99	90	100	90	101	98	96	1150	12
4	93	103	101	99	93	98	100	97	91	98	88	97	1158	12
5	88	97	90	97	99	99	93	92	102	96	99	91	1143	12
6	83	92	93	96	93	90	92	89	85	82	90	88	1073	12
7	94	94	93	96	95	105	98	93	99	97	97	99	1160	12
8	93	92	98	102	98	104	93	103	88	89	95	98	1153	12
9	94	95	97	93	90	97	92	105	95	92	90	101	1141	12
10	106	98	99	92							93	92	580	6
11	97	93	95	88	90	99	98	86	94	95	92	89	1116	12
12	91	94	94	96	99	97	95	90	95	91	98	98	1138	12
13	98	98	92	94	93	91	93	94	94	94	102	93	1136	12
14	92	96	92	102	92	104	102	105	95	105	96	99	1180	12
15	96	100	103	98	95	95	94	94	89	100	97	94	1155	12
16	96	93	100	96	97	100	95	97	100	98	91	102	1165	12
17	98	100	93	105	97	102	101	99	97	96	94	95	1177	12
18	102	94	96	96	102	98	90	95	88	90	91	98	1140	12
19	101	100	86	93	96	98	102	94	89	89	98	90	1136	12
20	94	102	95	96	95	100	101	101	100	92	90	91	1157	12
21	86	97	93	93	99	100	98	92	94	97	92	96	1137	12
22	88	86	85	92	92	90	106	96	93	95	93	91	1107	12
23	86	94	96	93	95	94	94	98	96	93	92	87	1118	12
24	90	97	94	86	89	94	96	84	83	88	91	93	1085	12
25	88	90	89	95	93	87	89	94	93	97	94	92	1101	12
26	88	90	91	95	90	90	92	94	95	97	98	93	1113	12
27	84	83	90	98	93	85	86	89	101	95	89	82	1075	12
28	90	88	95	94	93	90	87	96	93	88	89	91	1094	12
29	85	88	90	92	100	92	95	96	99	91	99	93	1120	12
30	96	83	95	94	88	95	93	97	85	94	88	92	1100	12
31	85	89	96	97	93	93	95	99	96	92	91	90	1116	12
SUM	2767	2817	2831	2870	2849	2887	2851	2857	2807	2828	2810	2792	33966	366

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 80

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JANUARY 1943

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	90	98	90	99	89	93	95	105	83	98	94	89	1123	12
2	95	87	91	92	90	98	88	93	91	94	89	90	1098	12
3	90	93	95	94	95	97	93	88	93	96	95	89	1118	12
4	88	92	88	88	97	94	96	98	91	94	98	96	1120	12
5	99	88	95	86	93	93	92	95	84	93	93	93	1104	12
6	98	90	93	96	97	97	96	96	94	97	96	95	1145	12
7	97	90	98	90	93	92	100	93	93	94	97	96	1133	12
8	88	95	95	83	94	99	99	88	90	102	94	91	1118	12
9	90	104	99	96	101	93	97	99	95	92	86	96	1148	12
10	93	89	93	95	89	95	93	94	97	95	98	82	1113	12
11	96	93	99	96	99	98	92	99	95	96	98	96	1157	12
12	95	103	96	100	92	90	97	93	93	94	92	92	1137	12
13	95	93	92	98	91	96	91	101	93	103	95	92	1140	12
14	96	91	96	97	96	100	97	99	97	89	101	94	1153	12
15	97	95	98	99	104	94	99	97	88	90	93	97	1151	12
16	94	100	103	97	97	101	90	102	98	99	99	89	1169	12
17	105	100	100	102	101	100	100	95	96	98	91	97	1185	12
18	98	90	95	92	97	92	91	87	100	98	99	91	1130	12
19	95	101	100	98	97	93	94	92	94	98	97	94	1153	12
20	96	101	95	96	94	94	94	95	95	96	86	98	1140	12
21	85	94	90	93	97	103	97	98	95	98	96	92	1138	12
22	92	94	94	92	99	96	101	98	98	100	93	91	1148	12
23	88	102	96	98	103	96	97	98	99	100	91	80	1148	12
24	88	97	98	94	105	104	99	95	100	88	93	97	1158	12
25	93	94	93	107	96	100	98	101	98	95	99	98	1172	12
26	93	101	98	99	93	105	100	101	91	97	96	95	1169	12
27	97	95	84	96	99	94	95	97	89	95	101	90	1132	12
28	94	90	95	97	100	92	100	99	92	94	97	97	1147	12
29	93	99	103	92	100	86	96	87	95	92	95	95	1133	12
30	93	99	91	93	97	91	93	98	93	94	91	98	1131	12
31	98	93	92	95	95	94	93	96	91	89	89	95	1120	12
SUM	2909	2951	2945	2950	2990	2970	2963	2977	2901	2958	2932	2885	35331	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 81

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

FEBRUARY 1943

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	93	99	96	96	101	98	103	99	96	93	97	91	1162	12
2	95	88	93	88	89	102	93	98	96	94	98	93	1127	12
3	90	96	94	96	90	91	99	102	102	89	93	89	1131	12
4	89	89	92	90	94	93	98	94	100	93	96	88	1116	12
5	86	100	88	91	95	98	97	94	94	92	95	84	1114	12
6	91	95	98	89	101	90	89	92	87	95	88	88	1103	12
7	91	94	95	92	90	97	99	100	88	95	92	91	1124	12
8	90	83	91	93	93	96	101	93	111				851	9
9					103	99	101	98	95	101	99	93	789	8
10	91	97	97	90	98	93	92	97	93	94	90	95	1127	12
11	87	98	80	90	105	92	98	96	91	104	99	94	1134	12
12	88	96	100	87	97	99	101	93	101	97	99	95	1153	12
13	85	94	93	92	98	99	93	88	83	84	94	91	1094	12
14	92	94	92	88	91	83	93	86	87	86	85	87	1064	12
15	82	98	88	92	91	89	96	87	89	87	91	88	1078	12
16	91	87	83	90	85	84	94	93	85	84	81	74	1031	12
17	82	91	75	92	87	95	98	92	84	84	86	82	1048	12
18	94	90	87	81	82	90	92	102	87	96	93	84	1078	12
19	81	91	95	94	94	94	94	90	88	98	81	88	1088	12
20	88	99	89	82	92	88	95	99	90	81	82	84	1069	12
21	91	97	89	99	93	93	89	88	88	93	93	85	1098	12
22	93	87	95	93	89	87	95	94	97	90	91	90	1101	12
23	90	93	91	86	95	96	92	94	100	89	89	88	1103	12
24	91	91	88	87	88	94	100	93	97	85	89	89	1092	12
25	95	89	85	96	95	92	98	88	95	90	90	91	1104	12
26	94	91	95	92	93	94	85	88	95	86	86	92	1091	12
27	89	93	97	93	93	90	92	94	92	96	102	101	1132	12
28	95	100	92	93	94	97	94	102	99	94	101	81	1142	12
29														
30														
31														
SUM	2334	2437	2367	2359	2420	2418	2469	2443	2404	2369	2381	2303	28704	329

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 82

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MARCH 1943

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	94	91	101	105	95	100	90	91	93	96	100	98	1154	12
2	101	94	96	98	101	86	89	89	96	96	93	93	1132	12
3	95	93	95	91	102	96	96	90	83	94	82	90	1107	12
4	94	86	82	90	90	91	83	91	93	95	89	84	1068	12
5	93	81	98	85	92	84	100	96	92	98	92	95	1106	12
6	91	89	97	93	96	96	97	96	95	92	84	88	1114	12
7	90	97	92	99	97	101	94	97	99	96	92	97	1151	12
8	93	98	91	102	91	105	100	95	103	92	97	93	1160	12
9	93	101	99	100	91	94	93	88	97	98	90	104	1148	12
10	97	87	97	91	96	95	98	95	91	93	96	100	1136	12
11	94	94	102	103	99	102	102	97	95	95	97	99	1179	12
12	98	93	99	94	95	93	96	96	87	96	93	89	1129	12
13	97	95	91	94	93	89	94	93	96	93	88	100	1123	12
14	92	95	86	92	93	98	97	91	94	94	90	89	1111	12
15	90	92	97	88	88	96	99	94	95	98	98	89	1124	12
16	85	91	97	92	98	92	106	91	96	97	98	93	1136	12
17	91	87	98	90	92	104	98	90	99	98	89	92	1128	12
18	96	99	103	94	94	99	104	97	89	93	99	96	1163	12
19	90	89	95	87	92	91	98	98	98	90	90	86	1104	12
20	82	88	95	92	93	89	91	90	88	92	92	93	1085	12
21	87	89	99	101	97	97	104	94	99	96	87	88	1138	12
22	84	89	90	90	96	91	93	102	92	84	89	86	1086	12
23	81	84	86	91	94	91	91	89	88	90	85	84	1054	12
24	79	86	96	90	88	93	88	88	90	80	83	76	1037	12
25	88	92	88	89	97	97	91	85	89	82	85	96	1079	12
26	83	94	97	92	93	100	92	88	89	92	99	88	1107	12
27	92	90	95	89	98	91	93	83	88	87	92	81	1079	12
28	95	92	98	97	91	98	101	93	89	83	94	94	1125	12
29	95	99	93	101	94	107	90	96	102	91	91	93	1152	12
30	95	86	94	99	93	97	98	92	85	93	91	85	1108	12
31	93	87	92	92	96						88	91	639	7
SUM	2735	2741	2847	2819	2829	2863	2866	2775	2790	2774	2745	2739	33523	367

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 83

APRIL 1943

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	94	93	95	86	100	91	93	93	90	92	91	94	1112	12
2	90	91	94	99	86	91	92	102	90	81	93	90	1099	12
3	87	86	98	93	86	91	97	91	96	83	91	95	1094	12
4	92	84	102	96	88	95	91	93	94	93	97	91	1116	12
5	92	95	90	97	98	95	92	88	91	84	89	88	1099	12
6	98	92	91	94	94	94	89	97	96	93	92	90	1120	12
7	87	92	91	92	98	94	98	94	97	101	94	97	1135	12
8	87	93	90	95	90	96	91	88	96	97	89	86	1098	12
9	94	83	86	95	92	98	95	88	103	91	90	79	1094	12
10	82	89	91	81	86	76	88	98	96	91	85	86	1049	12
11	81	89	85	87	90	93	84	95	96	97	88	88	1073	12
12	83	87	95	92	91	86	94	94	90	88	83	92	1075	12
13	92	94	92	95	85	92	100	88	96	93	91	88	1106	12
14	93	92	98	90	89	90	91	97	92	94	95	90	1111	12
15	92	91	89	95	92	88	91	99	83	99	92	89	1100	12
16	80	94	80	92	94	96	95	99	85	85	81	85	1066	12
17	89	83	91	87	93	95	100	95	94	88	96	82	1093	12
18	92	81	85	97	91	98	88	92	92	86	86	89	1077	12
19	98	90	90	91	99	90	87	92	96	91	89	86	1099	12
20	89	86	84	97	92	98	96	94	95	89	91	84	1095	12
21	91	90	86	89	95	95	89	95	93	87	92	93	1095	12
22	91	99	93	88	91	97	95	94	89	97	88	87	1109	12
23	84	91	92	85	85	95	88	92	88	88	84	86	1058	12
24	93	83	100	95	89	89	93	94	88	97	93	89	1103	12
25	99	96	94	101	94	91	89	87	97	95	91	97	1131	12
26	96	101	87	94	96	106	105	99	99	96	90	100	1169	12
27	94	102	89	87	96	96	95	97	91	85	98	89	1119	12
28	94	87	95	90	92	102	86	91	85	89	84	91	1086	12
29	92	88	87	85	91	87	93	91	83	92	85	92	1066	12
30	87	87	90	95	94	98	91	95	94	93	82	81	1087	12
31														
SUM	2713	2709	2730	2760	2757	2803	2776	2812	2775	2735	2690	2674	32934	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 84

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MAY 1943

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +80, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	79	87	80	88	90	92	95	97	94	91	84	79	1056	12
2	89	91	85	84	91	86	90	89	92	84	88	81	1050	12
3	85	87	86	99	90	93	85	82	91	80	84	85	1047	12
4	86	76	90	97	101	98	96	95	95	94	91	90	1109	12
5	93	92	94	94	84	87	91	98	98	91	95	87	1104	12
6	85	92	94	98	89	91	100	97	100	96	88	91	1121	12
7	87	86	86	90	93	94	93	91	96	92	100	87	1095	12
8	97	94	87	79	94	91	91	95	90	91	93	89	1091	12
9	79	88	91	92	88	99	101	98	84	91	88	84	1083	12
10	89	90	91	89	91	92	97	95	96	89	86	100	1105	12
11	85	96	93	89	84	88	87	91	92	95	90	86	1076	12
12	90	99	90	99	94	95	88	94	78	86	85	84	1082	12
13	84	86	91	91	89	96	93	86	78	87	80	81	1042	12
14	84	85	89	90	90	90	95	91	82	84	92	87	1059	12
15	95	91	91	93	92	97	89	95	96	84	84	86	1093	12
16	86	99	98	89	93	90	92	91	89	82	86	90	1085	12
17	89	91	87	92	84	92	93	89	86	87	91	89	1070	12
18	93	89	85	90	86	86	94	89	85	87	89	89	1068	12
19	84	77	79	91	97	85	89	89	94	79	86	84	1034	12
20	87	93	84	90	91	96	93	93	85	81	85	84	1062	12
21	89	95	87	96	97	92	88	82	82	84	90	95	1077	12
22	92	94	86	90	90	97	87	106	88	89	83	92	1094	12
23	89	88	93	93	94	86	91	95	92	105	83	91	1100	12
24	88	90	88	85	89	89	87	97	94	80	88	79	1054	12
25	87	83	75	93	96	87	95	93	92	89	83	88	1061	12
26	87	90	92	94	93	94	99	89	94	81	83	82	1078	12
27	94	95	89	89	100	86	90	88	90	88	84	84	1077	12
28	94	85	83	93	98	89	90	93	94	89	88	82	1078	12
29	100	85	86	96	92	91	96	94	98	91	87	97	1113	12
30	96	84	84	96	92	88	93	98	97	95	84	80	1087	12
31	91	82	91	93	92	88	93	98	91	92	91	101	1103	12
SUM	2753	2760	2725	2842	2844	2825	2861	2878	2813	2734	2709	2704	33448	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 85

JUNE 1943

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	83	90	86	99	88	93	93	105	88	99	95	90	1109	12
2	85	82	93	89	91	87	92	91	101	96	91	91	1089	12
3	89	100	93	92	91	96	82	98	98	90	94	89	1112	12
4	87	82	84	90	94	96	95	93	88	93	88	83	1073	12
5	82	85	86	91	90	102	96	101	91	101	88	86	1099	12
6	94	95	98	86	94	92	97	86	88	93	88	90	1101	12
7	91	92	82	82	84	95	89	98	96	92	84	92	1077	12
8	90	89	85	88	88	93	91	90	94	89	85	88	1070	12
9	91	84	96	94	91	95	97	95	93	88	91	81	1096	12
10	88	86	87	92	90	97	90	84	86	80	80	94	1054	12
11	89	88	89	92	90	97	92						637	7
12														
13						82	94				85	90	351	4
14						91	83	85	88	87	95	99	1068	12
15	89	87	86	88	90									
16	95	94	102	98	90	96	96	93	90	90	94	93	1131	12
17	92	91	89	95	93	102	93	86	100	94	90	95	1120	12
18	96	100	94	91	95	97	94	100	95	97	100	92	1151	12
19	92	93	87	103	90	93	97	88	93	99	87	96	1118	12
20	93	90	84	91	92	95	90	86	89	83	87	86	1066	12
21	90	86	94	90	89	90	96	88	91	87	91	91	1083	12
22	87	89	88	99	87	98	91	92	90	90	89	87	1087	12
23	88	87	88	88	93	94	91	86	88	91	89	81	1064	12
24	93	92	84	88	89	95	97	94	96	92	92	89	1101	12
25	90	89	91	85	98	93	97	93	105	85	92	91	1109	12
26	87	93	88	85	88	86	96	94	96	96	89	90	1088	12
27	99	96	88	92	97	92	94	105	96	87	95	88	1129	12
28	92	91	86	90	97	95	93	99	98	96	94	97	1128	12
29	84	86	89	92	92	96	97	91	96	92	94	94	1103	12
30	87	94	91	92	94	102	93	99	96	97	93	93	1131	12
31														
SUM	2334	2343	2319	2370	2375	2461	2420	2420	2430	2384	2355	2346	28557	323

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 86

JULY 1943

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	94	95	95	93	98	95	93	98	95	88	93	89	1126	12
2	91	90	90	97	90	89	85	103	95	86	90	90	1096	12
3	90	90	89	88	94	96	90	97	99	98	92	94	1117	12
4	87	94	93	98	85	99	97	98	99	94	90	87	1121	12
5	93	93	86	91	92	89	95	91	96	90	90	87	1093	12
6	91	82	92	92	91	90	94	94	92	94	94	97	1103	12
7	84	90	88	91	92	95	97	86	86	93	93	88	1083	12
8	87	91	97	92	95	92	94	96	88	87	90	88	1097	12
9	88	91	94	96	91	92	82	85	95	92	87	87	1080	12
10	95	94	96	90	95	92	92	87	87	91	94	101	1114	12
11	90	88	97	96	89	84	86	86	94	95	91	91	1087	12
12	92	98	101	96	92	98	90	87	92	92	96	89	1123	12
13	87	91	82	90	88	81	91	95	93	93	83	74	1048	12
14	84	79	79	88	83	90	94	95	89	84	84	75	1024	12
15	70	78	86	98	96	90	94	81	87	79	69	81	1009	12
16	84	87	84	83	89	92	86	79	83	82	86	83	1018	12
17	78	82	85	90	82	88	84	88	82	85	84	84	1012	12
18	89	83	85	85	82	89	93	90	90	92	85	83	1046	12
19	77	77	86	82	91	89	92	86	81	80	83	81	1005	12
20	82	81	80	85	87	84	90	87	91	83	84	83	1017	12
21	82	83	88	84	88	92	90	89	86	96	75	87	1040	12
22	84	84	86	89	84	88	92	95	93	91	81	86	1053	12
23	80	86	87	90	89	92	91	91	86	93	88	83	1056	12
24	90	87	86	88	95	100	91	94	84	88	91	85	1079	12
25	84	82	89	82	87	102	84	83	91	86	85	86	1041	12
26	86	75	85	84	94	91	84	95	92	87	85	93	1051	12
27	84	87	87	93	86	90	89	92	95	93	84	81	1061	12
28	80	90	92	90	101	93	96	89	96	95	90	98	1110	12
29	88	87	82	96	88	94	99	91	99	96	93	84	1097	12
30	87	95	88	86	93	93	96	102	96	89	93	94	1112	12
31	93	90	87	86	86	93	87	90	96	88	87	86	1069	12
SUM	2671	2700	2742	2789	2793	2842	2818	2820	2828	2780	2710	2695	33188	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 87

AUGUST 1943

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	96	92	90	92	88	86	100	97	90	97	88	89	1105	12
2	90	94	93	94	95	99	98	96	90	99	87	94	1129	12
3	85	85	86	85	89	86	93	95	95	90	92	91	1072	12
4	85	92	94	95	99	91	106	82	87	89	88	88	1096	12
5	90	88	93	88	87	99	92	95	101	83	91	89	1096	12
6	89	97	92	95	100	96	95	97	91	98	90	88	1128	12
7	86	86	93	90	97	93	95	99	89	92	80	75	1075	12
8	82	86	79	91	95	90	96	92	90	80	81	86	1048	12
9	84	89	85	85	87	93	92	88	84	88	88	82	1045	12
10	87	85	83	85	87	87	87	95	81	83	83	82	1025	12
11	87	82	87	92	90	96	87	89	81	88	85	85	1049	12
12	90	82	100	89	92	85	92	87	88	88	82	80	1055	12
13	82	86	87	88	94	91	86	89	90	89	89	91	1062	12
14	89	93	83	90	100	94	91	90	89	95	91	83	1088	12
15	87	87	85	81	86	95	82	98	91	87	86	85	1050	12
16	90	84	91	85	92	88	84	90	87	89	83	83	1046	12
17	83	85	82	91	90	89	84	84	91	91	87	90	1047	12
18	95	88	89	95	96	101	97	94	85	105	92	92	1129	12
19	93	99	90	101	95	93	88	90	86	94	87	92	1108	12
20	86	88	90	88	87	96	84	98	87	87	86	87	1064	12
21	94	89	92	96	84	102	88	96	84	88	93	90	1096	12
22	85	90	94	88	93	95	89	83	84	89	86	86	1062	12
23	85	85	84	90	92	90	78	81	77	83	88	87	1020	12
24	84	85	93	85	80	87	86	83	91	79	87	81	1021	12
25	88	91	90	93	83	88	89	89	94	93	97	87	1082	12
26	89	90	92	89	91	93	101	94	88	88	89	88	1092	12
27	93	93	91	100	97	94	99	91	96	93	90	91	1128	12
28	93	94	93	99	95	92	100	96	89	102	97	95	1145	12
29	86	99	96	95	100	101	99	97	91	88	93	81	1126	12
30	71	72	73	72	82	88	80	77	74	78	75	71	913	12
31	78	87	92	95	90	94	90	81	85	84	77	74	1027	12
SUM	2702	2743	2762	2802	2833	2872	2828	2813	2726	2777	2708	2663	33229	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 88

SEPTEMBER 1943*

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	72	75	83	94	79	95	91	94	82	86	83	83	1017	12
2	87	94	89	87	94	94	92	88	91	87	83	93	1079	12
3	89	94	90	97	87	84	85	88	84	82	86	90	1056	12
4	90	86	87	91	90	80	81	87	86	92	85	84	1039	12
5	89	93	96	78	94	87	88	88	92	88	86	96	1075	12
6	84	82	88			86	96	95	89	85	94	87	886	10
7	97	90	92	94	93	93	99				91	90	839	9
8	81	89	87	97	87	83	95	101	91	86	86	84	1067	12
9	87	88	85	88	94	99	90	99	88	90	83	85	1076	12
10	89	87	83	80	90	89	92	90	82	87	86	89	1044	12
11	68	87	88	86	85	89	91	90	91	95	96	84	1050	12
12	87	89	84	93	90	83	93	88	83	86	84	92	1052	12
13	84	87	82	91	82	91	87	88	86	90	91	91	1050	12
14	87	89	89	87	88	96	83	95	88	87	90	91	1070	12
15	91	92	91	98	88	99	89	84	88	90	87	86	1083	12
16	81	89	85	92	94	90	92	95	84	98	95	90	1085	12
17	97	97	88	87	90	98	84	93	87	90	89	97	1097	12
18	93	95	96	87	90	92	92	90	92	97	92	91	1107	12
19	90	90	96	92	90	92	96	90	88	98	88	89	1099	12
20	89	97	94	98	91	98	83	89	91	99	84	97	1110	12
21	91	94	94	100	89	99	89	100	100	89	91	89	1125	12
22	89	91	90	94	93	91	94	96	95	95	97	98	1123	12
23	90	90	94	89	94						95	98	650	7
24	92	92	95	97	96	104	93	95	98	90	95	89	1136	12
25	94	101	93	97	99	93	92	105	98	94	99	101	1166	12
26	104	94	93	95	94	97	96	93	94	97	89	101	1147	12
27	89	89	96	92	90	96	100	94	91	97	94	88	1116	12
28	96	103	97	94	89	97	89	95	89	85	90	91	1115	12
29	94	83	98	87	99	94	98	88	86	94	88	97	1106	12
30	92	90	96	90	96	90	101	98	97	85	88	80	1103	12
31														
SUM	2392	2455	2445	2469	2448	2500	2456	2501	2422	2454	2405	2446	29393	350

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

*NOTE: No records for October, 1943

TABLE 89

NOVEMBER 1943*

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +80, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1											89	95	184	2
2	96	90	98	98	98	97	95	97	96	95	100	92	1152	12
3	97	96	93	97	97	91	93	97	98	100	96	91	1146	12
4	92	96	106	99	102	106	103	99	103	96	98	95	1195	12
5	98	92	100	93	98	106	101	105	96	88	98	98	1173	12
6	99	93	91	93	95	98	99	100	97	95	86	96	1142	12
7	90	93	92	94	96	91	93	99	101	98	86	90	1123	12
8	91	94	85	96	93	96	100	94	97	89	86	95	1116	12
9	84	89	97	89	84	100	93	95	87	94	91	87	1090	12
10	97	94	97	95	99	97	102	99	101	96	90	97	1164	12
11	95	104	94	102	99	92	101	91	94	97	93	90	1152	12
12	94	88	92	92	99	88	95	94	93	95	96	90	1116	12
13	91	95	97	102	102	93	96	89	103	99	97	90	1154	12
14	94	89	90	98	96	97	94	101	95	99	90	98	1141	12
15	94	97	91	95	96	98	97	102	101	101	96	94	1162	12
16	98	86	97	91	97	96	93	98	89	93	92	95	1125	12
17	94	92	93	93	88	93	107	96	95	93	95	91	1132	12
18	92	94	97	93	95	95	99	99	94	89	91	91	1129	12
19	97	92	96	96	95	106	100	102	95	91	92	93	1155	12
20	94	95	96	98	93	102	96	99	96	94	96	94	1153	12
21	88	94	94	95	99	96	90	92	100	95	91	96	1130	12
22	90	98	90	95	97	101	95	94	92	93	94	92	1131	12
23	90	95	95	89	99	95	105	95	100	102	96	91	1152	12
24	94	99	100	92	96	93	92	100	93	98	101	84	1142	12
25	93	90	94	94	90	96	100	94	98	93	100	92	1134	12
26	91	93	93	90	93	101	101	102	92	100	89	88	1133	12
27	91	91	98	89	98	95	101	99	96	95	97	92	1142	12
28	94	94	85	87	98	86	93	100	93	87	85	73	1075	12
29	82	86	89	88	81	92	91	94	97	100	91	82	1073	12
30	86	89	94	93	97	89	82	83	83	91	92	95	1074	12
31														
SUM	2686	2698	2734	2728	2770	2786	2807	2809	2775	2756	2705	2652	32906	350

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

*Note: No records for October, 1943

TABLE 90

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

DECEMBER 1943

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	82	86	88	94	92	90	92	101	96	91	84	91	1087	12
2	91	86	86	87	90	92	98	100	88	83	92	95	1088	12
3	95	89	90	94	86	90	101	110	98	91	90	87	1121	12
4	93	90	87	89	98	90	94	100	90	96	85	94	1106	12
5	92	90	86	98	90	96	94	95	103	94	90	95	1123	12
6	97	93	95	90	89	99	98	86	88	97	98	89	1119	12
7	87	95	95	92	92	94	100	99	97	95	95	94	1135	12
8	99	95	98	96	100	97	91	92	89	90	95	88	1130	12
9	88	92	101	102	102	101	94	97	98	93	96	88	1152	12
10	92	88	96	101	98	98	104	98	88	90	94	93	1140	12
11	95	92	94	98	93	98	91	96	93	84	92	99	1125	12
12	92	94	93	97	90	95	102	92	94	88	95	94	1126	12
13	96	103	86	86	96	95	99	88	91	104	87	99	1130	12
14	92	91	94	93	99	93	98	96	103	95	94	85	1133	12
15	93	89	91	85	100	91	94	95	93	98	93	90	1112	12
16	91	92	96	91	101	103	101	102	100	94	98	101	1170	12
17	99	100	96	92	91	96	95	101	98	95	90	96	1149	12
18	98	94	99	97	98	100	102	94	89	97	94	104	1166	12
19	100	97	104	95	91	99	99	97	101	97	92	99	1171	12
20	110	91	99	98	95	108	99	101	101	94	98	102	1196	12
21	97	104	99	97	107	104	92	94	101	96	93	97	1181	12
22	94	97	102	102	98	100	96	100		100	95	94	1169	12
23	93	107	104	97	92	103	99	105	101	92	95	93	1181	12
24	104	97	91	104	105	99	97	100	98	99	95	93	1182	12
25	98	102	95	101	92	100	98	94	107	102	98	97	1184	12
26	92	102	103	100	104	91	94	102	102	101	98	101	1190	12
27	98	96	100	94	97	100	95	100	101	97	94	98	1170	12
28	98	99	98	97	91	99	104	96	92	102	105	95	1176	12
29	97	95	95	97	95	100	92	107	101	99	98	103	1179	12
30	90	91	99	97	95	102	100	92	105	95	92	88	1146	12
31	90	96	100	99	101	98	107	106	101	98	104	91	1191	12
SUM	2933	2933	2960	2960	2968	3021	3020	3036	2998	2947	2919	2933	35628	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 91

JANUARY 1944

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	95	91	101	103	98	97	108	96	98	102	92	91	1172	12
2	91	88	96	95	95	103	97	96	90	85	89	95	1120	12
3	98	99	99	101	91	99	100	97	97	99	91	93	1164	12
4	96	99	100	106	102	98	106	103	99	96	100	98	1203	12
5	94	99	98	103	98	94	97	99	95	94	96	98	1165	12
6	96	94	91	94	94	99	101	108	93	102	99	99	1170	12
7	97	93	98	99	98	93	101	100	98	99	89	92	1157	12
8	92	96	97	96	99	97	99	104	92	96	103	90	1161	12
9	96	97	99	97	101	98	99	98	96	103	107	95	1186	12
10	95	94	98	101	92	95	104	107	100	97	105	100	1188	12
11	93	90	95	97	96	97	93	99	98	100	95	93	1146	12
12	97	98	104	89	87	99	107	96	93	96	92	89	1147	12
13	98	92	94	104	104	98	101	102	101	94	103	97	1188	12
14	93	88	90	97	93	99	98						658	7
15										98	102	99	299	3
16	92	93	96	93	100	93	99	94	96	95	97	98	1146	12
17	95	94	94	105	97	98	93	97	98	98	95	89	1153	12
18	96	96	108	106	102	100	101	93	101	90	101	95	1189	12
19	100	100	100	95	96	96	99	107	103	101	99	98	1194	12
20	94	100	104	100	104	104	102	107	103	102	100	94	1214	12
21	93	95	97	104	109	101	94	99	99	104	97	96	1188	12
22	104	105	95	99	101	107	88	98	104	100	92	97	1190	12
23	97	103	102	98	94	97	93	109	101	90	96	99	1179	12
24	96	102	101	106	101	104	104	98	109	100	99	99	1219	12
25	92	104	101	101	101	105	95	99	113	100	103	97	1211	12
26	101	97	93	94	97	108	104	103	101	98	102	94	1192	12
27	106	102	99	98	99	108	102	96	96	104	99	95	1204	12
28	99	97	99	100	106	100	108	100	106	98	101	102	1216	12
29	94	101	94	93	96	98	95	101	99	97	93	95	1156	12
30	94	101	95	96	100	101	96	103	101	94	95	98	1174	12
31	93	96	102	101	101	100	100	106	98	99	96	101	1193	12
SUM	2784	2816	2850	2874	2859	2887	2886	2915	2878	2833	2826	2777	34185	358

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 92

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

FEBRUARY 1944

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	100	107	99	100	105	103	95	108	95	98	94	92	1196	12
2	100	103	105	104	102	99	103	93	97	102	109	106	1223	12
3	104	97	100	101	95	104	108	97	99	99	104	94	1202	12
4	91	96	103	101	100	100	108	104	99	106	100	98	1206	12
5	102	104	108	94	100	97	108	96	101	92	102	104	1208	12
6	102	102	100	102	100	105	103	98	98	101	99	102	1212	12
7	100	103	92	101	102	100	99	96	101	94	100	107	1195	12
8	99	97	93	94	96	99	104	103	104	97	100	103	1189	12
9	97	88	96	100	97	95	104	109	98	93	101	102	1180	12
10	92	104	94	95	104	103	101	102	108	96	98	99	1196	12
11	98	93	99	105	102	95	97	100	101	101	101	102	1194	12
12	98	94	102	92	91	95	106	98	100	95	101	97	1169	12
13	97	94	104	99	98	96	98	94	91	91	91	101	1154	12
14	92	98	98	99	104	104	101	91	82	92	94	93	1148	12
15	97	90	94	96	91	90	100	91	93	89	93	88	1112	12
16	98	96	94	100	88	92	96	90	104	92	98	97	1145	12
17	97	93	99	100	89	101	101	95	105	106	95	90	1171	12
18	99	92	100	104	99	105	99	102	93	96	105	96	1190	12
19	93	88	97	96	99	96	101	107	97	100	98	99	1171	12
20	93	98	104	102	103	98	99	107	97	93	93	98	1185	12
21	94	103	102	100	103	99	104	105	96	100	94	104	1204	12
22	103	100	100	101	97	95	111	96	101	94	101	97	1196	12
23	102	100	102	109	99	101	95	97	90	101	105	104	1205	12
24	103	102	98	102	102	114	107	91	96	104	100	104	1223	12
25	98	101	96	103	96	99	102	99	95	102	108	99	1198	12
26	99	106	97	100	100	103	99	100	95	96	97	94	1186	12
27	101	107	102	104	101	96	102	102	101	100	97	99	1212	12
28	103	99	103	103	96	106	106	105	108	102	106	99	1236	12
29	98	96	101	99	103	101	109	105	97	94	95	105	1203	12
30														
31														
SUM	2850	2851	2882	2906	2862	2891	2966	2881	2842	2826	2879	2873	34509	348

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 93

MARCH 1944

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	99	105	107	97	99	94	100	99	102	104	98	103	1207	12
2	101	101	103	93	95	97	108	100	100	100	101	94	1193	12
3	96	100	107	102	105	95	106	93	104	96	107	104	1215	12
4	98	102	104	112	101	97	98	110	98	95	96	101	1212	12
5	99	96	104	101	104	111	103	94	104	102	103	95	1216	12
6	93	93	102	95	96	103	95	100	98	100	97	91	1163	12
7	98	104	98	100	98	99	104	105	97	100	92	101	1196	12
8	97	99	82	100	101	94	102	102	90	99	94	98	1158	12
9	96	97	101	93	94	101	106	107	104	95	101	96	1191	12
10	97	96	94	96	95	102	98	103	105	100	92	114	1192	12
11	98	101	100	102	100	89	96	111	103	97	93	103	1193	12
12	99	100	94	96	101	110	102	97	95	106	101	100	1201	12
13	99	95	100	95	101	107	101	105	101	106	102	104	1216	12
14	99	103	102	104	106	107	112	111	105	103	102	102	1256	12
15	105	108	102	103	99	99	98	95	95	92	96	101	1193	12
16	104	100	102	104	101	104	107	99	100	95	102	93	1211	12
17	97	97	93	99	109	105	102	101	98	101	109	101	1212	12
18	93	100	100	92	99	99	109	103	94	101	101	97	1188	12
19	99	99	98	108	105	99	104	109	106	99	104	110	1240	12
20	104	106	94	99	108	96	109	101	94	98	101	107	1217	12
21	101	101	100	107	102	109	100	114	102	101	104	107	1248	12
22	113	100	101	105	103	107	107	105	100	104	103	97	1245	12
23	98	101	102	107	100	107	106	111	100	110	114	107	1263	12
24	103	103	99	108	104	102	103	111	109	106	112	103	1263	12
25	104	96	102	107	101	100	109	109	106	104	105	104	1247	12
26	106	103	92	105	91	90	84	83	77	82	93	86	1092	12
27	96	100	105	99	98	94	94	85	88	91	88	93	1131	12
28	96	100	101	99	97	95	101	99	94	94	98	103	1177	12
29						102	103	98	100	96	97	106	702	7
30	102	96	104	99	102	98	108	100	101	104	108	97	1219	12
31	105	100	102	103	90	104	111	98	107	104	108	99	1231	12
SUM	2995	3002	2995	3030	3005	3014	3083	3060	2977	2989	3025	3011	36186	367

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 94

APRIL 1944

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	105	104	101	105	103	104	93	95	103	105	101	102	1221	12
2	109	116	101	103	106	103	105	104	97	93	99	93	1229	12
3	104	86	93	95	102	95	95	89	102	92	102	98	1153	12
4	98	96	99	92	101	98	103	105	92	107	91	96	1178	12
5	100	91	101	92	107	96	105	105	99	92	96	92	1176	12
6	103	100	101	103	104	102	103	100	110	97	93	96	1212	12
7	94	109	99	100	98	103	106	104	98	104	94	96	1205	12
8	100	96	98	102	98	97	101	97			104	104	997	10
9	97	103	101	97	96							107	601	6
10	95	100	107	100	108	111	106	96	101	103	95	104	1226	12
11	96	102	100	100	105	109	99	97	97	96	101	101	1203	12
12	102	102	99	100	95	103	103	103	100	100	101	102	1210	12
13	103	103	105	102	115	109	99	108	104	102	94	99	1243	12
14	104	103	107	108	99	98	102	111	94	102	105	101	1234	12
15	103	107	103	93	108	96	101	103	110	92	95	92	1203	12
16	93	102	103	98	101	98	102	111	96	98	95	96	1193	12
17	106	102	108	96	95	104	108	106	93	99	96	101	1214	12
18	98	102	104	105	116	106	100	101	91	89	101	105	1218	12
19	105	102	101	101	98	106	105	102	95	103	91	99	1208	12
20	102	102	103	103	106	107	108	104	106	98	95	97	1231	12
21	102	104	102	105	99	99	104	104	96	100	97	97	1209	12
22	103	99	97	98	100	110	108	108	100	99	95	102	1219	12
23	103	94	100	109	109	114	106	101	101	97	95	105	1234	12
24	112	105	100	104	107	112	108	102	104	107	104	105	1270	12
25	109	101	115	114	100	104	99	109	98	102	104	99	1254	12
26	103	104	106	100	107	107	102	100	104	105	99	99	1236	12
27	112	106	112	113	113	102	109	107	96	103	104	97	1274	12
28	109	106	108	105	106	108	108	111	103	103	110	106	1283	12
29	109	104	103	113	108	113	109	107	106	105	107	101	1285	12
30	92	100	106	108	115	97	107	97	100	96	96	104	1218	12
31														
SUM	2874	2852	2884	2865	2931	2914	2903	2890	2796	2789	2756	2785	34239	352

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 95

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MAY 1944

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	103	105	106	109	104	106	109	105	101	105	94	100	1247	12
2	99	99	105	96	97	107	102	103	104	99	98	95	1204	12
3	97	96	94	97	106	110	104	101	103	101	96	95	1200	12
4	97	94	99	103	104	97	99	96	97	101	99	100	1186	12
5	100	102	95	93	99	105	100	98	98	102	95	90	1177	12
6	109	104	98	103	110	112	110	103	103	93	99	100	1244	12
7	105	107	106	97	93	103	112	98	93	102	104	99	1219	12
8	104	104	101	99	106	101	101	102	101	102	104	103	1228	12
9	112	107	105	101	109	104	101	110	102	101	106	99	1257	12
10	110	104	110	111	104	98	105	107	99	108	104	107	1267	12
11	103	110	103	105	103	108	105	107	110	103	110		1167	11
12						101	104	107	104	108	101	103	728	7
13	105	107	112	99	114	104	114	110	109	115	109	110	1308	12
14	111	116	105	104	113	107	97	107	109	100	104	114	1287	12
15	103	106	108	116	103	108	107	109	100	112	102	109	1283	12
16	109	106	105	109	115	109	114	100	109	107	108	104	1295	12
17	107	106	113	111	105	111	115	113	102	101	114	98	1296	12
18	111	110	102	103	112	108	111	113	108	109	113	106	1306	12
19	114	111	111	110	105	97	106	103	103	101	95	105	1261	12
20	105	111	106	100	115	108	111	114	103	98	101	104	1276	12
21	116	111	102	112	104	103	103	106	106	100	101	103	1267	12
22	105	114	107	116	108	103	105	108	107	105	108	101	1287	12
23	119	105	109	109	106	98	109	108	108	116	107	102	1296	12
24	107	106	117	100	108	119	106	106	106	104	100	107	1286	12
25	109	103	107	106	103	116	101	119	103	107	98	103	1275	12
26	101	104	100	114	107	103	110	104	112	108	112	100	1275	12
27	100	107	106	102	104	101	110	106	105	109	104	108	1262	12
28	109	108	104	102	104	102	111	109	110	110	106	109	1284	12
29	110	108	106	106	99	106	99	107	104	110	111	115	1281	12
30	105	103	104	101	97	102	110	111	100	106	113	105	1257	12
31	100	108	104	93	100	106	106	108	105	100	96	102	1228	12
SUM	3082	3072	3047	3022	3054	3054	3088	3084	3010	3032	3001	2993	36539	366

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 96

JUNE 1944

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	106	105	102	100	104	108	107	108	104	96	96	100	1236	12
2	105	105	94	101	100	106	101	104	108	112	101	101	1238	12
3	90	102	106	102	101	105	109	102	108	98	100	102	1225	12
4	105	104	104	98	103	109	115	105	104	103	108	100	1258	12
5	99	98	106	102	109	109	106	108	109	107	101	112	1266	12
6	111	107	113	105	120	107	106	109	110	100	103	104	1295	12
7	100	108	106	106	106	114	112	107	109	101	107	110	1286	12
8	112	111	117	102	117	103	111	104	103	108	110	110	1308	12
9	107	103	103	105	102	107	111	107	116	109	108	105	1283	12
10	106	116	109	104	106	109	121	111	106	108	109	113	1318	12
11	108	104	115	111	118	107	105	109	107	102	101	104	1291	12
12	106	113	114	110	112	116	116	109	103	105	100	109	1313	12
13	108	113	111	113	111	118	107	103	108	107	101	107	1307	12
14	114	107	111	121	119	112	113	111	113	101	111	106	1339	12
15	103	104	117	103	110	113	113	107	112	120	109	103	1314	12
16	112	104	110	100	103	114	110	104	107	105	114	109	1292	12
17	108	102	106	112	105	105	113	111	110	101	106	104	1283	12
18	113	109	106	110	112	108	96	104	105	106	112	110	1291	12
19	106	109	104	109	105	106	119	111	108	109	113	122	1321	12
20	103	114	107	112	114	106	121	110	109	109	102	110	1317	12
21	113	102	104	106	119	111	111	119	103	104	110	103	1305	12
22	112	114	110	111	112	124	108	116	109	102	103	106	1327	12
23	108	113	108	104	115	107	112	107	103	106	110	102	1295	12
24	114	116	109	113	99	111	102	107	100	104	104	114	1293	12
25	100	113	105	103	103	111	112	97	113	107	102	109	1275	12
26	108	107	104	108	102	113	110	112	101	104	108	100	1277	12
27	96	107	113	105	110	104	114	107	105	108	112	108	1289	12
28	111	110	107	110	111	110	109	105	100	107	104	110	1294	12
29	110	103	113	105	106	111	112	104	94	108	111	105	1282	12
30	111	104	111	114	105	107	110	114	101	101	107	106	1291	12
31														
SUM	3205	3227	3245	3205	3259	3291	3312	3232	3188	3158	3183	3204	38709	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 97

JULY 1944

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	116	113	113	107	105	109	118	104	110	105	111	113	1324	12
2	105	114	115	113	108	100	103	107	109	107	105	109	1295	12
3	110	106	111	114	119	105	112	102	106	109	108	103	1305	12
4	101	117	118	117	115	112	114	106	106	110	107	108	1331	12
5	112	111	112	111	107	117	111	114	109	109	115	111	1339	12
6	122	115	120	109	108	112	110	109	105	102	111	109	1332	12
7	112	105	110	105	116	115	114	116	108	111	115	108	1335	12
8	111	110	109	105	106	116	114	108	109	104	111	108	1311	12
9	112	102	112	116	112	104	107	103	108	103	110	108	1297	12
10	119	107	108	111	111	111	113	115	104	103	111	109	1322	12
11	113	109	111	119	112	117	108	108	109	109	116	111	1342	12
12	112	111	118	106	110	106	110	111	109	107	106	111	1317	12
13	108	103	106	110	114	117	108	122	108	112	113	110	1331	12
14	106	107	101	117	110	113	106	107	100	111	116	115	1309	12
15	108	108	112	110	112	112	109	123	108	111	113	99	1325	12
16	107	101	112	101	108	121	112	110	110	110	113	107	1312	12
17	121	118	110	104	110	107	110	110	117	110	117	108	1342	12
18	113	105	114	111	119	106	114	112	109	121	113	108	1345	12
19	115	113	107	107	108	111	108	102	105	110	109	115	1310	12
20	111	116	106	111	115	111	120	105	106	114	121	109	1345	12
21	107	107	111	111	110	114	110	105	107	107	107	108	1304	12
22	109	119	111	117	108	115	114	113	114	115	113	107	1355	12
23	122	112	116	116	107	108	114	108	111	119	112	115	1360	12
24	109	111	106	116	106	108	114	112	121	112	114	117	1346	12
25	115	117	112	113	111	108	118	108	111	116	112	103	1344	12
26	116	107	113	113	108	110	116	113	118	108	122	115	1359	12
27	108	110	114	107	111	113	114	106	107	103	116	110	1319	12
28	115	102	113	110	111	120	115	115	113	115	112	113	1354	12
29	113	106	114	111	108	112	107	115	119				1005	9
30			113	117	116	113	115	111	109	104	129	110	1137	10
31	115	107	137	107	116	99	116	111	118	118	101	120	1365	12
SUM	3250	3183	3258	3214	3213	3217	3252	3185	3175	3191	3250	3187	38575	367

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 98

AUGUST 1944

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	118	112	112	116	115	117	117	120	119	120	115	109	1390	12
2	110	115	116	109	116	123	121	115	111	107	109	116	1368	12
3	113	109	110	113	118	115	111	111	108	115	116	109	1348	12
4	115	120	115	108	110	118	113	117	110	102	113	112	1353	12
5	115	115	107	110	121	115	112	112	109	113	106	108	1343	12
6	114	115	118	117	109	117	111	117	113	109	105	111	1356	12
7	109	117	106	109	109	113	115	113	113	113	114	106	1337	12
8	112	120	117	112	108	116	111	108	108	108	115	104	1339	12
9	119	117	116	115	122	109	113	121	110	121	115	117	1395	12
10	120	123	114	117	120	118	117	113	118	116	115	111	1402	12
11	116	112	104	119	117	112	118	115	107	109	116	116	1361	12
12	112	120	117	113	117	124	115	120	113	110	111	112	1384	12
13	117	111	108	112	114	122	115	115	114	112	114	102	1356	12
14	111	116	110	116	116	107				101	113	106	996	9
15	107	108	113	110	120	114	113	116	118	109	112	109	1349	12
16	114	118	113	112	122	112	113	109	108	111	115	102	1349	12
17	114	118	104	118	109	107	111	114	107	116	109	108	1335	12
18	115	111	113	113	114	116	110	106	108	115	114	108	1343	12
19	117	107	113	116	114	110	107	116	114	112	108	111	1345	12
20	108	126	107	109	98	113	120	114	116	112	107	109	1339	12
21	115	109	114	109	112	115	113	111	114	121	106	109	1348	12
22	122	117	108	110	112	126	118	115	117	115	113	113	1386	12
23	112	109	118	109	112	115	117	120	111	110	113	109	1355	12
24	120	117	121	127	121	121	116	119	117	113	111	112	1415	12
25	114	114	116	112	116	109	114	116	119	110	115	114	1369	12
26	112	114	106	116	109	116	116	115	118	112	108	112	1354	12
27	113	105	111	110	109	112	110	118	115	113	111	101	1328	12
28	109	106	108	115	110	107	111	106	110	104	114	111	1311	12
29	112	117	122	122	107	117	118	117	110	107	113	115	1377	12
30	115	114	115	118	114	122	117	123	106	113	112	114	1383	12
31	115	114	113	115	117	118	119	113	122	111	115	116	1388	12
SUM	3424	3430	3375	3411	3412	3469	3432	3445	3383	3359	3360	3306	40806	369

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 99

SEPTEMBER 1944

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	113	111	119	112	113	108	114	117	105	109	114	118	1353	12
2	115	116	116	107	112	114	111	115	117	113	114	117	1367	12
3	118	115	112	113	118	114	111	117	113	108	112	116	1367	12
4	114	110	118	112	113	115	120	116	113	118	122	114	1385	12
5	109	119	118	120	121	117	119	112	113	115	111	110	1384	12
6	121	120	123	114	123	104	117	106	123	111	114	118	1394	12
7	113	121	120	123	110	110	121	133	124	124	113	116	1428	12
8	116	123	113	116	118	119	118	124	109	119	115	120	1410	12
9	119	125	122	115	115	119	115	114	119	116	112	116	1407	12
10	113	118	116	115	118	120	108	113	122	119	115	114	1391	12
11	114	115	108	110	120	116	120	123	112	118	109	117	1382	12
12	115	119	115	121	117	118	119	116	110	115	119	116	1400	12
13	120	119	114	119	124	123	122	115	112	117	118	109	1412	12
14	117	117	121	125	120	118	122	123	122	115	114	112	1426	12
15	121	121	122	120	116	115	123	111	110	107			1166	10
16						110	116	122	117	118	114	118	815	7
17	116	121	118	116	117	112	115	114	110	110	109	116	1374	12
18	113	115	120	114	120	117	123	119	119	114	116	118	1408	12
19	111	115	117	116	118	113	123	118	111	118	109	111	1380	12
20	110	118	111	114	117	116	119	111	106	115	116	108	1361	12
21	110	110	105	111	112	117	108	118	119	108	108	114	1340	12
22	118	116	115	113	112	115	116	127	113	113	107	112	1371	12
23	117	123	118	112	121	121	115	117	116	118	111	116	1405	12
24	114	110	117	116	113	121	108	123	114	116	118	113	1383	12
25	108	113	111	108	112	109	109	111	112	114	115	112	1328	12
26	109	109	115	109	122	108	120	115	109	108	109	118	1351	12
27	122	112	120	116	121	116	120	123	106	127	116	102	1401	12
28	115	108	114	118	123	109	114	114	117	120	111	117	1380	12
29	117	120	116	115	113	116	115	111	115	113	114	119	1384	12
30	117	124	130	116	118	119	115	118			110	117	1184	10
31														
SUM	3085	3138	3132	3100	3163	3105	3142	3165	3081	3111	3061	3089	37372	351

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 100

OCTOBER 1944

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	111	113	124	111	113	119	122	114	124	117	105	114	1387	12
2	109	117	115	113	114	123	113	106	105				1015	9
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27									116	119	105	107	447	4
28	112	112	112	114	114	116	112	124	120	117	109	115	1377	12
29	111	111	121	118	111	113	110	116	104	122	118	111	1366	12
30	121	115	112	110	107	109	108	121	121	112	112	112	1360	12
31	117	114	117	114	114	116	117	109	116	111	110	111	1366	12
SUM	572	565	586	567	559	573	569	584	585	579	554	563	6856	73

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 101

NOVEMBER 1944

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	109	122	118	114	116	108	118	124	110	113	108	110	1370	12
2	114	113	118	108	116	112	112	111	119	116	115	119	1373	12
3	123	119	115	113	129	115	110	112	106	114	120	111	1387	12
4	111	112	125	111	115	115	114	118	112	106	112	107	1358	12
5	117	113	110	111	106	122	113	111	109	104	104	109	1329	12
6	109	115	108	115	112	110	112	113	107	107	106	108	1322	12
7	110	110	111	106	115	115	111	115	113	117	111	110	1344	12
8	109	117	110	108	120	113	111	120	110	104	109	100	1331	12
9	114	103	111	109	114	111	115	118	110	113	108	109	1335	12
10	118	113	117	109	107	110	103	115	108	115	105	114	1334	12
11	111	116	118	111	105	114	111	105	109	111	105	113	1329	12
12	112	111	118	118	107	110	113	116	116	110	105	106	1342	12
13	109	119	117	101	109	109	118	112	107	111	113	111	1336	12
14	117	124	124	126	119	112	113	117	117	109	110	116	1404	12
15	117	112	113	116	122	121	118	111	108	122	103	111	1374	12
16	113	126	118	121	113	122	120	109	113	114	113	110	1392	12
17	113	114	104	104	114	106	115	106	109	111	109	110	1315	12
18	111	108	110	112	113	110	110	114	107	115	121	113	1344	12
19	112	119	115	111	112	112	114	111	119	112	105	111	1353	12
20	115	112	120	113	123	114	114	106	112	114	110	113	1366	12
21	111	118	105	109	115	108	113	110	111	122	109	115	1346	12
22	113	116	113	109	106	104	114	115	121	116	112	109	1348	12
23	115	113	107	105	114	118	104	116	105	115	105	112	1329	12
24	113	107	114	115	121	117	115	110	112	110	109	107	1350	12
25	115	112	109	112	114	113	114	115	109	113	115	115	1356	12
26	120	119	117	118	122	125	120	118	109	114	103	118	1403	12
27	123	126	123	117	108	111	114	118	117	116	111	114	1398	12
28	112	114	121	121	114	115	115	111	109	103	112	109	1356	12
29	114	111	110	112	114	113	115	114	118	113	111	109	1354	12
30	111	115	106	109	110	106	112	115	112	107	106	111	1320	12
31														
SUM	3411	3449	3425	3364	3425	3391	3401	3406	3344	3367	3285	3330	40598	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 102

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

DECEMBER 1944

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	113	101	107	115	115				111	120	120	115	1017	9
2	112	112	106	110	107	112	116	109	110	109	107	107	1317	12
3	108	112	111	105	106	112	116	110	119	110	113	115	1337	12
4	110	101	114	112	108	112	113	110	112	104	101	107	1304	12
5	99	109	102	104	106	112	113	115	109	107	105	117	1298	12
6	107	115	109	105	112	114	114	111	105	100	109	106	1307	12
7	109	113	109	111	116	115	114	113	111	107	112	108	1338	12
8	111	112	110	107	106	108	105	117	112	111	113	116	1328	12
9	113	121	108	116	110	116	119	107	110	109	104	107	1340	12
10	108	108	108	112	110	108	114	103	116	112	104	111	1314	12
11	112	103	110	110	118	109	108	108	112	103	101	106	1300	12
12	108	108	112	118	111	112	114	118	109	109	113	111	1343	12
13	115	110	105	101	112	110	108	116	115	114	105	109	1320	12
14	110	110	110	107	109	97	111	117	112	108	103	108	1302	12
15	111	106	99	104	100	105	113	113	107	101	96	100	1255	12
16	95	87	90	96	96	94	98	97	97	86	85	84	1105	12
17	96	106	110	104	101	101	108	105	104	94	100	96	1225	12
18	106	100	107	111	113	105	100	109	97	105	108	100	1261	12
19	110	109	115	116	117	109	113	98	110	104	100	113	1314	12
20	108	113	119	103	106	106	112	105	97	105	100	112	1286	12
21	94	105	111	107	105	108	105	107	111	100	105	106	1264	12
22	104	101	102	98	103	105	107	100	103	110	105	99	1237	12
23	102	106	98	107	111	110	108	114	109	100	103	104	1272	12
24	100	106	112	109	104	104	108	111	103	103	107	104	1271	12
25	106	114	112	109	114	108	98	109	108	106	101	106	1291	12
26	111	107	112	109	105	111	108	109	106	100	97	95	1270	12
27	101	101	101	108	109	99	110	115	110	101	106	112	1273	12
28	115	108	108	102	103	110	109	110	106	110	100	100	1281	12
29	102	109	106	107	102	109	110	112	107	106	115	104	1289	12
30	108	110	106	114	107	104	107	111	105	107	105	104	1288	12
31	109	106	117	111	112	110	104	114	111	113	106	111	1324	12
SUM	3200	3228	3239	3233	3239	3235	3283	3293	3243	3154	3129	3178	38654	369

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 103

JANUARY 1945

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	108	112	107	113	105	103	112	101	112	101	105	107	1286	12
2	110	105	102	112	105	109	106	108	110	110	100	109	1286	12
3	109	115	116	115	103	114	103	113	101	104	112	106	1311	12
4	115	105	112	114	109	106	116	109	100	116	108	106	1316	12
5	107	111	112	114	117	115	113	114	115	108	115	108	1349	12
6	112	113	109	107	110	113	110	116	110	110	114	112	1336	12
7	104	106	113	114	118	125	110	104	118	113	115	114	1354	12
8	110	113	116	114	111	108	121	110	111	115	106	112	1347	12
9	120	110	115	114	112	112	105	111	110	104	109	115	1337	12
10	120	113	112	108	104	111	107	119	107	108	108	107	1324	12
11	119	104	113	108	105	104	102	100	109	116	111	105	1296	12
12	116	109	107	110	104	115	105	106	112	112	103	101	1300	12
13	108	106	112	107	108	104	109	111	96	96	102	105	1264	12
14	95	103	110	105	108	106	100	106	103	104	101	94	1235	12
15	108	96	102	106	103	106	102	105	104	99	108	107	1246	12
16	112	113	106	106	108	111	107	99	97	101	102	108	1270	12
17	108	112	113	110	110	107	105	111	96	107	98	105	1282	12
18	113	95	104	108	103	106	100	105	102	109	106	111	1262	12
19	103	109	108	105	107	107	102	103	97	99	103	111	1254	12
20	102	109	105	109	108	104	101	100	99	108	102		1147	11
21						109	107	103	106	94	102	110	731	7
22	114	108	112	106	112	124	115	105	112	101	107	107	1323	12
23	114	104	107	106	108	107	109	109	106	102	99	106	1277	12
24	107	108	113	116	105	100	107	107	109	104	102	109	1287	12
25	106	111	110	104	102	105	102	112	106	115	115	106	1294	12
26	107	112	103	103	110	110	99	104	109	117	106	100	1280	12
27	101	103	99	108	102	112	103	113	105	105	103	105	1259	12
28	106	106	112	98	112	103	112	108	101	97	102	101	1258	12
29	105	107	107	103	104	106	111	110	112	106	110	107	1288	12
30	105	114	113	95	104	107	105	109	121	111	100	103	1287	12
31	100	100	99	104	93	108	111	102	104	105	99	105	1230	12
SUM	3162	3123	3164	3133	3102	3164	3109	3130	3095	3095	3069	3092	37438	366

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 104

FEBRUARY 1945

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	107	109	107	109	108	106	110	107	108	108	105	106	1290	12
2	100	101	102	106	114	110	119	112	116	116	112	109	1317	12
3	107	115	104	106	110	112	113	108	107	109	115	106	1312	12
4	107	106				100	108	104	103	99	103	101	931	9
5	114	108	104	108	110	115	115	106	115	108	107	104	1314	12
6	114	106	108	112	106	109	108	112	108	109	103	104	1299	12
7	111	107	116	113	109	115	105	100	106	104	108	110	1304	12
8	115	106	113	102	114	109	110	103	107	108	109	109	1305	12
9	112	104	108	106	112	108	107	118	110	115	113	108	1321	12
10	105	106	109	109	108	108	112	112	106	106	107	112	1300	12
11	112	113	101	108	118	107	110	108	107	107	109	111	1311	12
12	109	108	108	111	121	107	105	101	108	104	105	112	1299	12
13	111	116	108	113	104	115	118	101	109	104	113	112	1324	12
14	117	113	114	107	118	124	116	113	109	115	111	110	1367	12
15	110	105	108	109	106	111	111	109	106	105	103	107	1290	12
16	101	106	109	106	104	109	112	111	105	114	100	99	1276	12
17	114	108	111	113	108	105	106	105	104	106	103	95	1278	12
18	105	108	111	108	106	109	106	101	100	105	103	106	1268	12
19	101	118	113	106	113	112	111	114	107	107	105	104	1311	12
20	111	109	108	99	106	105	109	104	106	115	105	110	1287	12
21	108	105	108	111	108	111	108	111	108	113	102	108	1301	12
22	113	106	109	108	109	110	122	111	107	107	111	107	1320	12
23	110	112	115	111	113	111	117	115	117	112	107	103	1343	12
24	107	108	111	108	115	113	109	101	108	110	108	110	1308	12
25	107	117	101	106	107	108	113	102	110	107	107	113	1298	12
26	109	114	105	105	115	110	103	109	102	111	113	110	1306	12
27	103	107	94	105	106	109	109	98	107	103	114	103	1258	12
28	107	104	107	104	118	103	107	107	118	104	101	106	1286	12
29														
30														
31														
SUM	2940	2939	2912	2909	2986	2971	2991	2899	2921	2932	2899	2894	35193	333

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 105

MARCH 1945

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	100	106	105	111	108	114	104	112	103	109	110	109	1285	12
2	104	107	105	112	106	107	108	109	104	106	98	99	1265	12
3	105	99	101	101	118	103	113	108	101	106	111	104	1270	12
4	109	114	109	106	107	102	102	106	104	100	105	101	1265	12
5	109	105	112	104	106	114	116	115	105	112	110	102	1310	12
6	110	109	107	111	109	105	117	112	109	107	101	113	1310	12
7	108	106	103	112	113	106	107	111	111	99	102	106	1284	12
8	101	112	112	108	108	116	107	112	102	102	98	101	1279	12
9	96	99	105	92	102	104	102	106	105	104	98	106	1219	12
10	92	112	90	94	92	99	102	98	87	95	94	93	1148	12
11	96	101	99	100	101	104	106	91	93	91	92	99	1173	12
12	99	99	97	96	94	93	96	94	96	90	91	97	1142	12
13	92	95	103	99	92	96	95	93	94	90	93	89	1131	12
14	95	103	90	96	90	101	91	93	104	92	93	102	1150	12
15	87	93	87	99	88	88	90	87	92	98	92	91	1092	12
16	85	85	85	95	97	99	97	93	93	84	92	88	1093	12
17	95	89	93	93	84	103	94	96	101	98	95	92	1133	12
18	94	92	98	95	90								469	5
19	94	98	98	94	92	91	99	98	88	98	95	101	1146	12
20	92	96				97	95	109	101	103	91	90	874	9
21	102	89	98	102	98	95	93	97	103	90	103	106	1176	12
22	96	94				102	95	97	99	100	102	98	883	9
23	90	99	106	99	96	93	104	108	109	101	94	95	1194	12
24	93	102	97	101	103	98	99	102	105	103	102	93	1198	12
25	100	103	97	106	100	105	93	101	108	100	99	98	1210	12
26	96	103	101	98	103	105	99	100	114	94	100	105	1218	12
27	100	91	105	101	106	110	104	102	104	98	96	88	1205	12
28	88	96	99	89	82	86	95	80	82	78	87	96	1058	12
29	103	101	95	95	91	98	97	95	98	89	93	97	1152	12
30	99	100	95	94	97	97	97	99	93	97	101	97	1166	12
31	92	95	100	94	100	94	101	99	96	100	94	91	1156	12
SUM	2740	2811	2794	2802	2777	2826	2828	2817	2804	2731	2739	2759	33428	359

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 106

APRIL 1945

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510 mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	94	95	91	99	94	98	89	97	98	97	85	91	1128	12
2	90	98	94	94	92	98	105	98	105	102	96	100	1172	12
3	104	104	99	97	96	99	102	104	104	101	97	106	1213	12
4	97	95	95	103	103	101	106	105	103	96	82	92	1178	12
5	92	101	92	84	94	93	99	106	106	97	98	94	1156	12
6	100	100	99	95	103	106	105	105	98	104	94	99	1208	12
7	102	102	99	97	103	97					101	96	797	8
8	104	97	110	102	101	105	99	100	101	106	100	105	1230	12
9	108	101	101	104	102	102	103	109	107	100	105	102	1244	12
10	95	99	98	102	98	105	101	102	100	105	98	99	1202	12
11	95	101	102	102	100	105	102	104	96	103	104	95	1209	12
12	104	99	104	108	108	109	104	102	104	101	103	97	1243	12
13	105	110	100	108	101	100	108	96	96	102	105	109	1240	12
14	109	109	108	112	102	106	106	105	102	94			1053	10
15			102	101	104	107	102	102	99	103	105	101	1026	10
16	103	103	102	109	101	101	115	107	103	102	107	105	1258	12
17	99	109	106	101	106	104	103	104	107	107	101	98	1245	12
18	103	104	105	107	110	107	102	97	112	105	101	103	1256	12
19	100	107	101	108	103	107	104	99	97	105	99	100	1230	12
20	102	104	104	102	108	105	102	100	94	103	107	109	1240	12
21	91	98	99	98	95	103	95	96	103	101	99	104	1182	12
22	109	102	101	95	105	108	105	101	103	100	99	100	1228	12
23	112	106	109	104	103	108	106	106	111	101	98	102	1266	12
24	102	108	109	99	102	96	102	104	106	96	99	100	1223	12
25	99	102	103	104	105	107	100	102	101	99	101	101	1224	12
26	111	99	96	99	106	106	109	100	99	107	103	100	1235	12
27	104	103	107	109	99	96	103	97	110	98	106	96	1228	12
28	99	102	104	103	109	111	104	101	117	101	97	101	1249	12
29	101	103	107	102	99	105	101	105	103	100	102	106	1234	12
30	99	106	96	107	112	103	98	102	105	97	97	99	1221	12
31														
SUM	2722	2756	2734	2745	2755	2788	2772	2749	2789	2736	2683	2713	32942	352

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 107

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MAY 1945

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	111	101	102	110	96	101	103	109	104	111	107	106	1261	12
2	110	112	108	107	103	98	102	108	99	105	110	97	1259	12
3	107	102	112	104	106	97	112	116	103	103	100	110	1272	12
4	103	103	94	103	102	109	98	107	97	105	104	110	1235	12
5						104	103	111	107	100	109	101	735	7
6	102	105	105	103	107	111	102	106	96	102	99	100	1238	12
7	106	109	121	111	108	103	103	111	106	106	113	110	1307	12
8	101	117	109	112	107	100	104	103	110	108	103	103	1277	12
9	104	110	103	107	96	114	109	102	109	104	103	119	1280	12
10	109	102	107	106	114	103	110	107	110	114	106	101	1289	12
11	100	99	102	111	108	108	114	112	109	107	101	102	1273	12
12	100	100	99	106	103	104	102	112			100	100	1026	10
13	99	108	104	119	107	113	106	100	109	107	100	102	1274	12
14	96	99	100	105	106	110	104	102	104	102	99	97	1224	12
15	103	102	96	105	114	113	110	101	98	104	105	17	1168	12
16						110	98	101	101	92	108	99	709	7
17	101	105				103	106	107	110	100	100	101	933	9
18	101	100	108	106	102	97	102	100	105	100	110	102	1233	12
19	108	102	98	110	109	96	100	112	106	101	99	98	1239	12
20	98	102	102	102	105	98	104	104	102	103	101	100	1221	12
21	106	106	108	106	103	108	100	101	108	108	107	96	1257	12
22	108	114	104	103	105	108					100	101	843	8
23	103	112	115	106	104	105	108	106	103	104			1066	10
24						108	113	107	104	102	107	107	748	7
25	108			104	106	120	99	104	106	92	107	96	1042	10
26	106	105	108	110	104	104	113	106	107	105	104	104	1276	12
27	105	100	105	104	112	106	108	105	106	103	101	98	1253	12
28	102	100	103	109	107	104	109	105	108	105	106	99	1257	12
29	106	104	110	112	104	111	108	106	105	97	104	111	1278	12
30	116	104	109	109	104	97	107	109	100	111	105	103	1274	12
31	111	100	98	110	103	106	110	114	102	114	112	104	1284	12
SUM	2410	2392	2412	2481	2427	2407	2438	2446	2403	2425	2399	2289	28929	344

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 108

JUNE 1945

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +80, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	115	114	115	107	99	102	104	104	107	117	105	112	1301	12
2	102	109	118	105	105	106	105	111	112	110	100	103	1286	12
3	103	107	111	110	105	112	115	111	106	105	108	107	1300	12
4	108	106	109	110	116	113	115	108	109	111	112	104	1321	12
5	112	104	109	109	111	109	109	110	111	112	117	111	1324	12
6	107	109	104	114	110	109	111						764	7
7														
8						118	112	111	115	109	114	106	785	7
9	107	107	113	110	110	103	107	101	104	110	110	110	1292	12
10	118	111	112	119	124	116	110	120	115	106	107	107	1365	12
11	102	108	106	120	109	108	106	112	108	109	107	120	1315	12
12	110	105	108	107	109	115	108	108	112	106	104	103	1295	12
13	103	108	116	114	118	107	108	110	116	103	108	104	1315	12
14	103	111	108	109	101	107	107	104	106	105	101	102	1264	12
15	112	103	109	110	100	103	105	107	107	106	102	100	1264	12
16	101	105	104	101	106	109	113	108	105	109	102	92	1255	12
17	109	108	101	108	108	108	118	109	105	113	105	103	1295	12
18	97	98	106	105	110	110	108	112	110	106	106	111	1279	12
19	107	101	104	109	100	106	104	99			111	112	1053	10
20	113	105	105	103	103	107	110	110	101	107	109	108	1281	12
21	107	114	111	106	110	118	114	113	107	115	104	104	1323	12
22	108	114	109	104	109	106	107	111	107	106	106	101	1288	12
23	104	111	109	106	109	113	110	113	111	105	112	108	1311	12
24	111	105	115	110	110	114	107	110	112	109	109	104	1316	12
25	115	107	118	108									448	4
26							111		106	111	109	105	542	5
27	108	111	109	108	115	108	114	116	113	98	103	112	1315	12
28	103	104	103	107	114	111	117	115	109	107	107	107	1304	12
29	108	106	105	113	127	112	115	111	103	113	107	103	1323	12
30	107	106	114	109	113	112	104	111	110	116	96	105	1303	12
31														
SUM	2571	2580	2625	2610	2641	2629	2636	2645	2606	2604	2547	2541	31235	321

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 109

JULY 1945

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	111	100	108	108	110	114	113	106	107	105	102	104	1288	12
2	102	100	102	97	110	112	107	114	111	104	102	110	1271	12
3	104	109	101	104	114	119	106	111	104	114	107	104	1297	12
4	95	99	101	103	107	109	103	112	117	105	99	100	1250	12
5	100	101	106	116	104	112	111	114	118	108	103	106	1299	12
6	99	111	108	102	105	107	114	113	110	105	104	107	1285	12
7	105	102	109	105	110	108	106	116	114	112	115	106	1308	12
8	105	111	113	104	113	115	108	108	115	112	106	101	1311	12
9	104	107	95	101	111	110	111	113	99	110	102	111	1274	12
10	109	117	114	107	114	114	112	116	111	111	104	102	1331	12
11	110	103	113	113	118	121	115	109	115	118	105	107	1347	12
12	108	111	109	109	110	121	119	107	109	111	111	115	1340	12
13	119	108	105	113	114	108	117	113	110	119	117	107	1350	12
14	112	109	112	104	121	113	115	113	114	114	108	109	1344	12
15	108	114	123	107	118	116	110	117	110	109	102	112	1346	12
16	109	110	109	118	116	114	116	110	110	110	106	115	1343	12
17	110	116	117	113	120	118	113	114	120	104	112	109	1366	12
18	107	103	109	112	106	108	114	111	109	115	108	113	1315	12
19	110	110	112	111	111	115	120	103	107	109	107	114	1329	12
20	120	112	108	115	111	113	105	112	119	116	114	106	1351	12
21	111	112	115	111	111	111	111	105	114	113	99	114	1327	12
22	118	112	116	114	114	115	110	114	114	113	101	116	1357	12
23	114	115	115	110	109	113	113	104	97	103	104	113	1310	12
24	107	102	109	103	111	115	111	109	114	109	109	108	1307	12
25	103	99	112	112	108	110	115	110	111	117	106	108	1311	12
26	109	112	112	118	114	106	115	111	104	108	112	108	1329	12
27	111	124	105	109	115	110	120	115	118	109	104	105	1345	12
28	114	113	122	115	117	113	125	114	111	109	108	106	1367	12
29	110	106	121	127	109	108	113	114	114	112	109	113	1356	12
30	118	115	117	110	122	115	115	113	113	110	114	102	1364	12
31	106	112	105	110									433	4
SUM	3262	3263	3318	3291	3373	3383	3383	3341	3339	3314	3200	3251	39718	364

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 110

AUGUST 1945

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1						113	113	111	115	109	105	116	782	7
2	113	109	107	113	118	105	122	115	114	113	110	104	1343	12
3	115	102	108	109	113	115	114				110	112	998	9
4	108	101	106	110	118	107	105	108	100	107	108	109	1287	12
5	111	114	109	117	105	112	115	113	112	116	108	115	1347	12
6	109	116	112	116	112	116	116	109	112	124	112	107	1361	12
7	113	99	122	115	113	116	115	113	117				1023	9
8														
9							105	110					215	2
10	116								112	111	117	116	572	5
11						118	111			117	122	115	583	5
12	109	119			117	109	128	119	116	116	117	109	1159	10
13	109	114			120	119	118	122	112	113	126	115	1168	10
14	114	122	118	119	113	119	116	118	123	106	105	105	1378	12
15	116					119	118	113	111	112	124	108	921	8
16	112	125	115	110	119	120	124	117	114	111	113	118	1398	12
17	107	118	116	117	112	120	112	115	112	117	113	123	1382	12
18	114	114	112	118	121	126	115	119	115	112	113	119	1398	12
19	117	115	109	120	117	121	112	112	115	113	112	119	1382	12
20	106	108	114	114	118	116	118	127	110	112	115	108	1366	12
21	112	116	118	108	116	109	122	126	110	117	112	114	1380	12
22	110	122	121	113	121	111	128	110	116	114	115	112	1393	12
23	111	99	110	111	121	117	122	116	125	114	105	107	1358	12
24	106	112	113	108	114	114	110	117	114	116	105	116	1345	12
25	108	108	113	111	117	109	112	112	103	109	111	113	1326	12
26	108	106	101										315	3
27						109	110	115	106	107	110	110	767	7
28	109	112	109	115	122	108	119	123	125	111	110		1263	11
29						110	117	108	111	109	111	119	785	7
30	115	106	120			125	117	119	113	117	111	109	1152	10
31	117	117	117			116	110	114	116	117	119	114	1157	10
SUM	1658	1699	1693	1705	1742	1722	1749	1734	1695	1701	1657	1689	20444	293

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 111

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

SEPTEMBER 1945

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	104	120	111	118	115	111	117	117	112	102	111	110	1348	12
2	108	118	121			121	113	119	112	120	111	110	1147	10
3	112	117	122	107	113	125	118	114	119	119	119	111	1396	12
4	112	114	124	124	122	118	107	109	110	114	115	118	1387	12
5	113	113	112	115	108	108	116	115	118	112	110	111	1351	12
6	117	116	115	114	117	111	121	118	114	110	120	118	1391	12
7	113	128	121	108	117	109	115	115	116	115	117	112	1386	12
8	122	112	111	118	111	116	110	114	114	116	112	114	1370	12
9	121	118	115	115	117	120	122	117	115	119	118	112	1409	12
10	114	114	114			122	117	119	118	121	115	114	1168	10
11	113	110	118	116	118	112	120	116	121	110	117	111	1382	12
12	114	113	115	117	116	114	118	114	117	113	116	116	1383	12
13	113	115	119	124	121	123	116	118	114	119	113	115	1410	12
14	111	123	122	115	120	109	114	111	115	113	115	109	1377	12
15	111	113	121	124							121	117	707	6
16	116	123	127	119	122	118	126	117	116	112	113	117	1426	12
17	126	118	114	124	115	120	109	120	124	109	113	112	1404	12
18	124	112	128	120	117	109	106	112	108	116	118	107	1377	12
19	117	110	114	116							117	112	686	6
20	114	114	108	118	115	117	112	112	109	115	118	110	1362	12
21	114	112	126	115							108	107	682	6
22	114	115	116	107	108	114	119	106	115	112	113	113	1352	12
23	111	115	117	124	121	109	114	116	120	112	102	114	1375	12
24	112	109	116	118	113	116	118	111	109	112	112	112	1358	12
25	114	111	108	117	107	113	110	106	109	106	111	109	1321	12
26	111	113	111	106	111	112	113	109	105	107	117	117	1332	12
27	122	116	113	120	110	118	117	109	118	113	110	112	1378	12
28	113	107	106	108	111	113	109	114	105	116	107	114	1323	12
29	113	121	109	114	116	113	118	116	117	112	109	111	1369	12
30	121	105	110	111	114	121	116	113	116	121	115	115	1378	12
31														
SUM	2876	2878	2888	2897	2875	2869	2881	2839	2856	2825	2841	2820	34345	338

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 112

OCTOBER 1945

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	106	125	117	119	117	115	112	111	118	115	113	104	1382	12
2	121	120	122	115	112	123	117	107	112	116	120	123	1408	12
3	111	115	111	106	108	126	120	118	121	113	118	112	1379	12
4	120	115	108	121	117	124	124	117	124	112	118	109	1409	12
5	122	123	112	118	118	119	120	119	113	115	114	111	1404	12
6	118	115	121	108	114	116	112	115	121	114	118	113	1385	12
7	118	119	109	120	115	119	115	116	117	119	115	110	1392	12
8	110	121	122	119	129	114	111	113	119	120	122	117	1417	12
9	116	114	115	121	114	112	118	121	120	119	116	119	1405	12
10	122	125	122	112	119	122	108	118	117	103	108	129	1405	12
11	120	120	120	111	124	114	114	119	120	107	110	110	1389	12
12	115	123	131	125	121	116	129	115	100	110	114	118	1417	12
13	118	116	113	123	115	119	124	118	112	115	118	116	1407	12
14	115	117	121	122							116	111	702	6
15	125	115	117	120	110	114	113	119	113	114	112	119	1391	12
16	115	118	112	110			113	114	118	117	106	105	1128	10
17	117	119	122	122	109	115	119	122	108	117	112	116	1398	12
18	126	123	112	114	115	111	124	116	122	112	111	111	1397	12
19	120	123	124	129	111	123	114	114	120	115	113	109	1415	12
20	105	111	117	119	110	126	117	120	112	107	106	111	1361	12
21	106	108	116	109							111	101	661	6
22	117	109	110	122	117	121	117	114	113	118	110	109	1377	12
23	108	112	118	114	116	114	116	105	111	105	113	110	1342	12
24	111	108	113	120	115	109	104	105	110	122	112	110	1339	12
25	115	115	116	115	114	114	108	114	109	115	113	119	1367	12
26	121	116	117	111	115	112	108	117	116	118	101	115	1367	12
27	118	111	112	116	119	122	110	112	111	113	103	110	1357	12
28	116	113	113	114	119	114	124	121	120	109	111	112	1386	12
29	108	116	110	113	113	110	124	116	112	110	111	116	1359	12
30	116	120	124	115	120	116	116	117	115	114	107	114	1394	12
31	118	111	111	112	117	115	118	130	120	104	115	118	1389	12
SUM	3258	3273	3259	3274	3243	3275	3256	3249	3226	3171	3154	3200	38838	358

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 113

NOVEMBER 1945

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	105	117	113	110	106	111	116	109	104	115	114	111	1331	12
2	111	110	99	107	115	110	111	111	110	111	114	114	1323	12
3	117	111	110	114	114	114	121	111	114	111	108	109	1354	12
4	104	114	113	112	116	117	116	110	118	116	112	120	1368	12
5	115	120	122	106	113	115	121	109	113	109	105	106	1354	12
6	105	115	106	112	119	116	116	117	118	112	121	117	1374	12
7	119	116	115	116	117	118	115	121	116	117	113	112	1395	12
8	121	113	121	112	109	112	122	118	113	110	109	111	1371	12
9	112	117	116	111	109	120	118	111	106	102	109	110	1341	12
10	103	113	117	110	110	112	120	114	110	102	108	117	1336	12
11	106	113	117	114	114	115	119	112	124	113	110	114	1371	12
12	115	120	109	111	106	116	113	110	117	112	117	115	1361	12
13	115	110	118	108	115	122	111	111	107	104	110	115	1346	12
14	118	121	114	110	113	112	112	101	116	104	106	107	1334	12
15	113	108	114	122	113	112	120	117	104	106	114	107	1350	12
16	108	112	102	111	106	106	104	111	111	110	108	101	1290	12
17	120	103	107	105	107	103	110	116	112	106	106	105	1300	12
18	109	100	116	109	106	111	112	109	110	110	108	109	1309	12
19	104	103	106	115	106	113	109	109	107	115	113	119	1319	12
20	102	110	110	110	107	112	109	112	106	108	107	103	1296	12
21	111	111	103	104	109	110	105	107	111	109	108	106	1294	12
22	109	112	108	111	106	98	111	117	114	113	101	105	1305	12
23	99	112	113	110	110	115	114	111	115	116	106	113	1334	12
24	104	100	119	105	112	112	116	116	118	114	111	111	1338	12
25	115	110	121	112	114	120	120	114	124	105	110	115	1380	12
26	125	121	111	112	124	117	111	108	107	111	112	103	1362	12
27	107	105	101	107	116	111	109	107	110	109	101	110	1293	12
28	102	105	114	107	116	107	113	122	112	117	111	112	1338	12
29	112	104	108	105	118	116	116	124	118	114	106	120	1361	12
30	115	109	100	111	112	110	116	114	116	114	101	105	1323	12
31														
SUM	3321	3335	3343	3309	3358	3383	3426	3379	3381	3315	3279	3322	40151	360

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

TABLE 114

DECEMBER 1945

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, +60, (IN UNITS OF 0.1% OF THE TOTAL COSMIC-RAY IONIZATION)
CORRECTED FOR BURSTS AND FOR BAROMETRIC PRESSURE TO 510mm Hg

VALUES CENTERED AT HOURS INDICATED IN FIRST ROW OF TABLE—75° WEST MERIDIAN TIME

DAY	1	3	5	7	9	11	13	15	17	19	21	23	SUM	NO. OF VALUES
1	121	107	105	110	112	123	112	124	111	112	114	118	1369	12
2	114	107	112	112	117	109	125	119	101	112	114	112	1354	12
3	113	110	110	112	116	123	119	122	117	120	113	111	1386	12
4	110	115	110	106	114	118	119	113	110	107	109	108	1339	12
5	106	113	113	111	109	113	112	117	120	118	112	111	1355	12
6	106	110	107	114	112	111	116	106	110	108	115	112	1327	12
7	118	116	113	114	107	103	113	113	108	105	110	108	1328	12
8	114	111	108	110	107	112	106	112	108	118	115	109	1330	12
9	113	107	117	109	107	115	121	113	114	107	105	110	1338	12
10	123	122	121	112	113	114	107	116	116	114	118	108	1384	12
11	109	113	102	108	110	116	117	104	114	124	107	107	1331	12
12	113	113	119	115	111	111	114	107	110	109	108	115	1345	12
13	105	110	125	115	120	115	109	116	111	115	107	110	1358	12
14	110	107	107	103	112	122	122	125	107	103	106	109	1333	12
15	117	118	102	108	104	112	115	114	115	110	106	113	1334	12
16	107	95	104	105	108	105	111	113	102	117	106	112	1285	12
17	101	105	107	109	105	109	111	109	116	110	110	107	1299	12
18	101	106	116	106	110	108	111	121	107	109	105	107	1307	12
19	109	103	109	115	123	104	112	123	105	104	103	96	1306	12
20	95	104	105	100	100	106	107	103	107	99	106	99	1231	12
21	111	115	109	105	115	112	110	105	100	111	112	111	1316	12
22	111	103	108	111	113	112	110	110	110	101	114	117	1320	12
23	114	105	103	107	100	107	112	103	103	94	104	94	1246	12
24	95	98	105	109	105	105	108	103	114	103	89	93	1227	12
25	91	110	99	102	99	99	104	100	94	95	97	103	1193	12
26	103	97	92	105	108	106	98	106	99	104	100	97	1215	12
27	106	107	105	102	99	105	102	105	105	100	107	113	1256	12
28	98	105	101	95	105	100	102	105	99	104	97	96	1207	12
29	102	104	103	99	102	101	101	109	108	96	108	107	1240	12
30	102	98	110	108	101	117	107	105	108	105	107	108	1276	12
31	109	87	103	111	111	107	108	116	107	102	101	102	1264	12
SUM	3347	3321	3350	3348	3375	3420	3441	3457	3356	3336	3325	3323	40399	372

(A) SUMS AT BOTTOM OF PAGE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

(B) LAST COLUMN INDICATES THE NUMBER OF COMPLETE BIHOURLY VALUES AVAILABLE FOR EACH DAY; SUM AT BOTTOM OF THIS COLUMN INCLUDES THE NUMBER OF BIHOURLY VALUES IN INCOMPLETE DAYS

Table 115. Daily mean departures from balance, +45 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, Huancayo Magnetic Observatory, 1936

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1							54	54	50	49	55	40
2							52	56	51	53	50	44
3							49	56	50	53	46	48
4							52	56	52	53	46	43
5							51	54	52	56	45	45
6							52	51	52	58 ^a	48	42
7							54	50	51	53 ^c	47	44 ^a
8							51	51	52	52	50	41
9							47	52	54	52	47	43
10							45	50	50	47	45	44
11							45	47	51	52	43 ^c	47
12							46	51	53	50	45	46 ^a
13						44	45	52	54	48	45	42
14						44	47	54 ^b	58	50	48 ^a	41
15						44	48	57	60 ^b	52	50	43
16						47	47	60 ^d	57	52	48 ^b	42 ^e
17						48	48	60	55	59	47	44
18						44	51	60	57	55	49	44
19						43	56	57	57	54	47 ^c	47 ^b
20						45	57	56	56	55	49	41
21						46	57 ^a	61 ^f	56	52	48	44
22						46	57	60	57	55	51	42 ^b
23						49	55	59	56	54	47	44
24						53	58 ^c	60	53	54	49	44
25						54	59	55	54	51	49	44
26						53	61 ^c	54	55	52	46	46
27						51	60 ^b	55	56	51	46	41 ^c
28						54	59	52	46	52	42	44
29						53	57	55	45 ^b	52	37	42
30						52	54	54	49	50	35	45 ^b
31							55	49		52		42
Mean						48.3	52.5	54.8	53.3	52.5	46.7	43.5
No. of hours						216	363	360	356	368	351	356

Table 116. Daily mean departures from balance, +45 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, Huancayo Magnetic Observatory, 1937

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	41	43	38	38	26	29	32	28	31	31	36	30
2	44 ^b	43	35 ^a	36	30	31	35	27	30	27	34	32
3	48	38	35	35	35	34 ^c	37	25	35	24	36	35
4	47	39	35	30 ^g	32	31	39	27	33	19	37	37
5	48	38	34	39 ^d	34	22	36	24	35	22	37	33
6	45	41	34	39	36	26	34	28	30	20	33	35
7	44	43	33	39	35	28	34	28	31	24	38	33
8	43	45	36	37 ^b	36	32	33	29	32	30	35	32
9	44	45	34	36 ^b	36	32	33	28 ^e	27	30	32	33
10	43 ^b	38	36	39	37	30	27	32	30 ^b	26	30	34
11	42	39	37	41	39	31	30	33	26 ⁱ	22	28	36
12	40	39	38	40	38	26	31	32	31	20	26	34
13	42	40 ^a	38	40	39	26	30	29	33	26	27	36
14	41	38	37	37	33	24	31	30	28	26 ^b	35	37
15	44	39	39	36	33	25	31	34	26	29 ^j	31	39
16	39	39	36	36	36	22	30	34	27	32	31	38
17	40	40	36 ^b	33	38	25	31	34	29	33	34	36
18	43 ^b	40 ^b	36 ^b	37	39	28	35	32	29	31	36	37
19	42	38	39	38	40	29	35	32	31	31	32	33
20	45 ^c	36 ^c	40	38	40	28	26	35	34	32	28	33
21	...	39 ^e	41	39	37	29 ^d	27	35	34	33	27	34
22	41 ^f	38 ^d	39	39	34	21 ^f	29	37	35	32	28 ^c	33
23	43	39	43	41	41	15	26	38	30	32	27 ^d	29
24	48 ^b	43	42	43	36	20	29	35	30	31	27 ^b	24 ^f
25	43	38 ^a	42	34	35 ^a	24	33	36	32	29	30 ^d	32
26	46	44	45	18	32	26	32	36	33	28	29	33
27	40	42	38	10	33	20	32	35	32	29	31	33
28	47	43	40	10	29	23	31	36	35	32	32	33
29	48		42	8	24	26	33	34	37	29	30	36
30	46		37 ^b	17	28	31	36	34	36	32	28	36
31	40		38		30		34	33		33		38
Mean	43.6	40.2	37.9	33.3	34.5	26.5	32.0	31.8	31.4	28.2	31.5	34.0
No. of hours	343	320	365	345	371	347	372	367	349	360	347	366

Table 117. Daily mean departures from balance, +45 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, Huancayo Magnetic Observatory, 1938

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	35	26	35	35	40	42	50	45	46	28	51	50
2	36 ^h	26	33	33	40	45	48	45	48	38	51	47
3	34 ^d	26	36	35	38	44	43	43	51	42	54	54
4	34	30	38	39	40	44	48	33	47	46	56	53
5	33	30	37	38	40	42	44	35	51	48	56	54
6	34	29	37	33 ^e	41	40	47	40	53	50	57	54
7	30	22	38	19 ^k	39	41	46	45	51	52	57	54
8	33	18	35 ^b	24	38	33	48	51	54	51	57	56
9	32	20	40 ^j	27 ^c	35	37	46	52	51	49	56	56
10	35	23	40 ^d	33 ^h	36	37	46	48	54	52	55	50
11	37	19	42	29 ^g	32	39	46	49	52	55	52	44
12	41	21	36	24	23	40	50	49	51	53	54	42
13	40	23	35	18	26	38	45	49	57	54	54	45
14	36	20	35	11	26	43	38	46	43	55	54	43
15	33	16	35	15	26	43	38	51	55	56	46	44
16	31	19	35	12	29	43	40	51	50	57	45	50
17	- 8	23	36	16	30	44 ^c	44	52	50	56	44 ^g	48
18	0	23	33 ^g	24	32	47	48	53	52	49	49	46
19	7	32	29 ^e	27	36	48	47	53	50	51	48	40
20	17	35 ^g	35	28 ^d	36	49	46	54	52	47	52	42
21	22	35 ^d	33	33	41	49	43	53	52	48	53	44
22	- 7	34	30	36 ^c	40	49	43	54	46	49	54	46
23	9	35	24	33	48	48	46	48	42	50	52	49
24	15	36	29	33	43	47	49	46	44	54	52	50
25	7	35	30	37	38	50	48	46	46	55	50	51
26	3	34	28	36	38	49	50	46	48	54	50	51
27	18	31	32	38	42	50	51	45	40	53	50	50
28	22	35	36	38	42	50	50	45	34	51	54	48
29	26		37	38	39	50	49	51	32	56	54	54
30	27		36	37	40	52	51	45	28	53	53	58
31	29		36		41		47	46		53		56
Mean	24.2	27.0	34.5	29.3	36.6	44.4	46.3	47.4	47.7	50.4	52.3	49.3
No. of hours	360	325	344	319	372	357	372	372	360	372	353	372

Table 118. Daily mean departures from balance, +45 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, Huancayo Magnetic Observatory, 1939

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	59	55	49	48	35	38	40	57	48	60	61	62
2	58	56	44	48	31	41	42	59	53	58	61	57
3	54	50	46	53	32	42	48	57	52	56	62	52
4	56	50	42	54	35	44	44	60	50	49	61	56
5	54	49	44	52	31	44	40	60	52	51	58	57
6	54	44	46	48	15	42	46	57	54	58	54	56
7	56	48	48	47	23	43	43	59	56	56	58	59
8	52	45	50	47	25	43	48	62	54	59	58	60
9	51	46	48	40	30	44	53	60	55	59	62	57
10	51	46	44	38	30	42	56	60	54	60	64	57
11	50	50	45 ^c	39	32	45	52	55	51	56	64	62
12	49	44	46 ^d	40	36 ^k	45	44	41	50	57	60	61
13	48	44	50	40	41 ^d	40	46	52	51	38	60	61
14	51	46	44	42	41	41	48	50	51	46	63	65
15	52	46	40	44	41	46	48	46	51	51	59	66
16	51 ^g	42	43	44	40	45	46	51	50	52	63	65
17	44 ^e	42	43	42	40	45	51	54	52	51	64	65
18	42	44	43	38	43	46	50	57	54	52	63	65
19	52	44	45	38	41	43	49	58	55	54	57	64
20	42	44	43	38	45	42	48	56	55	55	63	64
21	49	43	47	38	45	45	47	54	60	58	63	66
22	50	47	44	39	46	44	52	42	60	55	63	63
23	52	49	44	23	44	44	53	49	59	57	61	61
24	54	49	47	17	43	49	54	54	59	61	63	60
25	54	47	49	16	41	51	53	56	61	63	65	59
26	58	47	50	26	41	47	53	59	60	60	62	61
27	57	49	51	33	46	47	52	61	57	60	64	60
28	57	51	48	33	42	48	54 ^f	57	56	57	61	56
29	59 ^b		49	40	42	42	54 ^e	56	53	61	62	59
30	58 ^e		47	42	39	38	58	54	57	61	61	59
31	55		48		39		58	52		62		59
Mean	52.2	47.0	46.0	39.6	37.1	43.9	49.4	55.0	54.3	55.9	61.3	60.5
No. of hours	353	336	365	360	345	360	361	372	360	372	360	372

Table 119. Daily mean departures from balance, +45 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, Huancayo Magnetic Observatory, 1940

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	62	61	55	36	58	60	59	57	65	63	58	58
2	62	60	55	44	60	59	61	58	65	61	57	58
3	68	58	53	42	62	61	60	58	63 ^b	62	57	60
4	59	62	56	46	59	62	61	57	63	63	61	58
5	59	61	62	53	61	62	62	57	64	62	61	63
6	61	62	62 ^f	53	62	64	63	59	60	58	62	62
7	62	61	61 ^f	58	66	63	61	67	62	57	63	63
8	62	61	58	61	64	63	63	69	60	62	61	62
9	60	63	60	58	64	61	66	64	62	63	63	63
10	62	63	60	61	63	63	65	64	65	66	64	59
11	60	62	61	60	65	68	61	66	64	64	63	54
12	64	62	58	60	65	66	60	65	66	59	62	53
13	63	61	58	59	67	64	59	64	64	60	58	49
14	61	63	62	63	66	60	61	67	66	64	52	54
15	62	62	60	65	63	59	62	67	63	66	50	55
16	65	63	58	63	63	60	63	66	63	64	51	54
17	65	63	59	62	63	63	66	67	63	66	49	57
18	63	60	63	61	68	61	67	68	66	64	50	60
19	62	64	62	62	62	60	67	63	66	60	48	58
20	63	62	60	63	62	62	66	61	62	58	55	56
21	62	56	63	58	61	65	65	64	63	60	55	57
22	61	58	64	60	60	61	66	60	60	57	59	58
23	60	57	60	60	51	61	66	64	62	59	52	57
24	58	58	51	58	53	63	64	67	62	58	56	57
25	56	58	52	58	54	54	62	67	59	50	59	54
26	57	57	53	55	57	50	62	64	60	54	59	59
27	59	57	50	60	56	54	63	63	58	52	60	55
28	66	55	54	59	60	54	62	59	62	59	61	54
29	66	56	54	62	62	57	67	62	63	59	60	54
30	63		45	60	63	60	64	61	64	60	58	50
31	59		37 ^e		62		59	64		62		52
Mean	61.7	60.2	57.0	57.3	61.4	60.7	63.0	63.2	62.8	60.4	57.5	56.8
No. of hours	372	348	364	360	372	360	372	372	358	372	360	372

Table 120. Daily mean departures from balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, Huancayo Magnetic Observatory, 1941

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	64	72	55	61	71	78	80	80 ^c	77	86	89	70
2	65	72	53	62	72	79	79	83	77	83	86	70
3	66	72	64	64	73	76	80	80	79	84	84	68
4	70	70	66	66	72	77	76	66	82	84	83	68
5	71	69	72	70	72	81	77	71	81	84	81	70
6	68	69	76	71	73	82	72	74	84	81	82	76
7	69	67	80	75	74	78	74	78	83 ^g	80	81	77
8	68	71	73	73	70	80	75	80	...	82	81	78
9	70	76	74	72	71	77	77	81	...	81	82	81
10	73	75	79	73	72	70	73	78	...	80	80 ^b	80
11	67	73	75	72	76	66	74	80	82 ^e	80	83 ^b	82
12	68	76	71	73	76	71	76	80	82	80	83	79
13	71	71	74	70 ^h	71	72 ^c	75	82	83	82	85	79
14	70	73	76	76	71	74 ^j	80	84	84	84	82	80
15	69	74	76	75	71	78	79	84	84	88	84	81
16	69	70	72	71	72	81	77	87 ^h	82	87	82	84
17	68	71	72	68	71	85	82	84 ^g	84	83	84	83
18	67	71	72	68	68	80	82	86	73	82	84 ^d	78
19	68	67	68	68	74	80	79	85	64	82	74 ^k	77
20	65	66	72	72	75	82	79	84	72	83	83 ^f	80
21	64	68	72	72	76	76	84	85	75	85	82	80
22	64	68	72	74 ^b	74	80	85	81	74	83	80	82
23	69	68	70	70 ^h	71	78	81	86	77	85	80	85
24	71	72	70	72	72	79	83	86	76	86	81	79
25	71	71	71	70	73	77	80	85	81	83	82	82
26	70	75	69	70	74	78	84	81	65	79	84	81
27	70	74	72	70	76	78	80	80	80 ^f	81	81	78
28	71	73	73	73	78	80	81	76	81 ^c	84	80	75
29	70		72	74	77	76	82	71	87 ^e	73	79	79
30	73		67	74	78	78	84	76	85	84	77	79
31	69		58 ^f		77		82	78		83		79
Mean	68.6	71.2	70.5	70.6	73.3	77.6	79.1	80.4	79.0	82.6	82.0	78.1
No. of hours	372	336	366	342	372	347	372	354	296	372	335	372

Table 121. Daily mean departures from balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, Huancayo Magnetic Observatory, 1942

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	85	81	41	71	79	85	85	89	95	98	93	97
2	82	84	41 ^c	72	82	85	88	92	98	98	92	96
3	86	84	...	75	81	87	88	90	95	98	93	96
4	78	85	56 ^e	78	76	87	88	93	95	94	95	96
5	83	84	58	76	78	90	88	94	96	97	95	95
6	85	80	63	80	78	87	89	95	96	99	91	89
7	85	81	69	76	80	90	91	94	97	97	90	97
8	86	81	64	82	82 ^b	90	89	91	96	95	94	96
9	84	81	58	79	80 ^j	89	86	92	97	95	92	95
10	84	83	61	76	82	93	87	92	97	94	94	97 ^f
11	82	88	66	78	81	90	84	91	98	93	90	93
12	85	84	70	78	81	91	81	94	94	95	94	95
13	84	81	74	80	82	91	81	92	90 ^e	92 ^c	91	95
14	85	83	74	75	85	89	83	91	93	94	92	98
15	83	84	75	75	84	93	83	95	90	92	90	96
16	83	85	76	78	83	91	84	93	93	93	93	97
17	85	87	79 ^f	76	84	85	84	92	92	93	93	98
18	79	83	79 ^e	80	86	83	86	91	93	93	96	95
19	84	86	72	78	85	84	87	91	95	91	95	95
20	82	84	78	82	86	80	87	92	93	92	92	96
21	84	81	80	84	85	82	85	92	95	92	94	95
22	82	84	80	81	81	85	87	90	93	95	98	92
23	82	80	82	82	82	86	87	90	96	96	98	93
24	81	74	82	80	83	85	84	92	95	95	98	90
25	85	74	82	80	84	86	88	93	97	94	96	92
26	84	78	82	78	84 ^c	87	88	93	100	96	95	93
27	85	79	78	79	85	86	86	94	98	98	92	90
28	84	78	77	79	83	89	89	96	98	95	96	91
29	85		78	77	86	86	89	94	100	95 ^b	97	93
30	83		75	78	85	86	90	97	98	93	99	92
31	84		76		86		88	98		92		93
Mean	83.5	82.0	70.9	78.1	82.5	87.3	86.4	92.7	95.4	94.7	94.0	94.4
No. of hours	372	336	341	360	357	360	372	372	355	367	360	366

Table 122. Daily mean departures from balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, Huancayo Magnetic Observatory, 1943

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	94	97	96	93	88	92	94	92	85		92 ^j	91
2	92	94	94	92	88	91	91	94	90		96	91
3	93	94	92	91	87	93	93	89	88		96	93
4	93	93	89	93	92	89	93	91	87		100	92
5	92	93	92	92	92	92	91	91	90		98	94
6	95	92	93	93	93	92	92	94	89 ^b		95	93
7	94	94	96	95	91	90	90	90	93 ^c		94	95
8	93	94 ^c	97	92	91	89	91	87	89		93	94
9	96	99 ^d	96	91	90	91	90	87	90		91	96
10	93	94	95	87	92	88	93	85	87		97	95
11	96	94	98	89	90	91 ^e	91	87	88		96	94
12	95	96	94	90	90	...	94	88	88		93	94
13	95	91	94	92	87	...	87	88	88		96	94
14	96	89	93	93	88	88 ^h	85	91	89		95	94
15	96	90	94	92	91	89	84	88	90		97	93
16	97	86	95	89	90	94	85	87	90		94	98
17	99	87	94	91	89	93	84	87	91		94	96
18	94	90	97	90	88	96	87	94	92		94	97
19	96	91	92	92	86	93	84	92	92		96	98
20	95	89	90	91	88	89	85	89	92		96	100
21	95	92	95	91	90	90	87	91	94		94	98
22	96	92	90	92	91	91	88	88	94		94	97
23	96	92	88	88	92	89	88	85	93 ^e		96	98
24	96	91	86	92	88	92	90	85	95		95	98
25	98	92	90	94	88	92	87	90	97		94	99
26	97	91	92	97	90	91	88	91	96		94	99
27	94	94	90	93	90	94	88	94	93		95	98
28	96	95	94	90	90	94	92	95	93		90	98
29	94		96	89	93	92	91	94	92		89	98
30	94		92	91	91	94	93	76	92		88	96
31	93		91 ^e		92		89	86				99
Mean	94.9	92.4	93.0	91.5	89.9	91.3	89.2	89.2	90.9		94.4	95.8
No. of hours	372	329	367	360	372	323	372	372	350		350	372

Table 123. Daily mean departures from balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, Huancayo Magnetic Observatory, 1944

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	98	100	101	102	104	103	110	116	113	116	114	113 ^c
2	93	102	99	102	100	103	108	114	114	113 ^c	114	110
3	97	100	101	96	100	102	109	112	114	.....	116	111
4	100	100	101	98	99	105	111	113	115	.....	113	109
5	97	101	101	98	98	106	112	112	115	.....	111	108
6	98	101	97	101	104	108	111	113	116	.....	110	109
7	96	100	100	100	102	107	111	111	119	.....	112	112
8	97	99	96	100 ^b	102	109	109	112	118	.....	111	111
9	99	98	99	100 ^f	105	107	108	116	117	.....	111	112
10	99	100	99	102	106	110	110	117	116	.....	111	110
11	96	100	99	100	106 ^a	108	112	114	115	.....	111	108
12	96	97	100	101	104 ^e	109	110	115	117	.....	112	112
13	99	96	101	104	109	109	111	113	118	.....	111	110
14	93 ^e	96	105	103	107	112	109	111 ^c	119	.....	117	108
15	100 ⁱ	93	99	100	107	110	110	112	117 ^b	.....	114	105
16	96	95	101	99	108	108	109	112	116 ^e	.....	116	92
17	96	98	101	101	108	107	112	111	114	.....	110	102
18	99	99	99	102	109	108	112	112	117	.....	112	105
19	100	98	103	101	105	110	109	112	115	.....	113	110
20	101	99	101	103	106	110	112	112	113	.....	114	107
21	99	100	104	101	106	109	109	112	112	.....	112	105
22	99	100	104	102	107	111	113	116	114	.....	112	103
23	98	100	105	103	108	108	113	113	117	.....	111	106
24	102	102	105	106	107	108	112	118	115	.....	112	106
25	101	100	104	104	106	106	112	114	111	.....	113	108
26	99	99	91	103	106	106	113	113	113	.....	117	106
27	100	101	94	106	105	107	110	111	117	112 ^h	116	106
28	101	103	98	107	107	108	113	109	115	115	113	107
29	96	100	100 ^e	107	107	107	112 ^c	115	115	114	113	107
30	98		102	102	105	108	114 ^b	115	118 ^b	113	110	107
31	99		103		102		114	116		114		110
Mean	98.5	99.2	100.4	101.8	105.0	107.6	110.8	113.3	115.5	113.7	112.7	107.6
No. of hours	358	348	367	352	366	360	367	369	351	73	360	369

Table 124. Daily mean departures from balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, Huancayo Magnetic Observatory, 1945

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	107	108	107	94	105	108	107	111 ^e	112	115	111	114
2	107	110	105	98	105	107	106	112	115 ^b	117	110	113
3	109	109	106	101	106	108	108	111 ^c	116	115	113	116
4	110	103 ^c	105	98	103	110	104	107	116	117	114	112
5	112	110	109	96	105 ^e	110	108	112	113	117	113	113
6	111	108	109	101	103	109 ^e	107	113	116	115	114	111
7	113	109	107	100 ^d	109	.....	109	114 ^c	116	116	116	111
8	112	109	107	102	106	112 ^e	109	108 ^j	114	118	114	111
9	111	110	102	104	107	108	106	114 ^g	117	117	112	112
10	110	108	96	100	107	114	111	.....	117 ^b	117	111	115
11	108	109	98	101	106	110	112	117 ^g	115	116	114	111
12	108	108	95	104	103 ^b	108	112	116 ^b	115	118	113	112
13	105	110	94	103	106	110	112	117 ^b	118	117	112	113
14	103	114	96	105 ^b	102	105	112	115	115	117 ^f	111	111
15	104	108	91	103 ^b	97	105	112	115 ^d	114 ^f	116	112	111
16	106	106	91	105	101 ^e	105	112	116	119	113	108	107
17	107	106	94	104	104 ^c	108	114	115	117	116	108	108
18	105	106	94 ^g	105	103	107	110	116	115	116	109	109
19	104	109	96	102	103	105 ^b	111	115	114 ^f	118	110	109
20	104 ^a	107	97 ^c	103	102	107	113	114	114	113	108	103
21	104 ^e	108	98	98	105	110	111	115	114 ^f	110 ^f	108	110
22	110	110	98 ^c	102	105 ^d	107	113	116	113	115	109	110
23	106	112	100	106	107 ^b	109	109	113	115	112	111	104
24	107	109	100	102	107 ^e	110	109	112	113	112	112	102
25	108	108	101	102	104 ^b	112 ^h	109	110	110	114	115	99
26	107	109	102	103	106	108 ^g	111	105 ⁱ	111	114	114	101
27	105	105	100	102	104	110	112	110 ^e	115	113	108	105
28	105	107	88	104	105	109	114	115 ^a	110	116	112	101
29	107		96	103	106	110	113	112 ^e	114	113	113	103
30	107		97	102	106	109	114	115 ^b	115	116	110	106
31	102		96		107		108 ^h	116 ^b		116		105
Mean	107.2	108.4	99.2	101.8	104.7	108.6	110.3	113.2	114.6	115.3	111.5	108.6
No. of hours	366	333	359	352	344	321	364	293	338	358	360	372

Table 125. Daily mean departures from balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, Huancayo Magnetic Observatory, 1946

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	105	110	80	81	92	94	94	78	96	97	102	100 ^e
2	109	107	78 ^b	84	90	92	96	...	102	104	103	100
3	101	107	84 ^b	88	93	94	92	...	102	102 ^b	103	108
4	100	99	89	91	93	93	93	...	105	101	105 ^g	109
5	102	82	89	91	90 ^b	91	93	87 ^d	105	100	96 ^d	103
6	109	70	94	96	76	90	92	91	106	97 ^h	98	103
7	108	64	93	95	70	83	92	90	102	105 ^d	99	103
8	109	57	93	93	66	84	91	97	103	103	101 ^a	103
9	110	62	89	92	74	84	90	93	102	106	102	101
10	106	74	78	93	76	84	93	92	102	104	98 ^a	106
11	110	75	83	90	75	86	93	91	104	102	103 ^d	104
12	109	81	98 ^h	86	78	85	96	89	102	102	99	106
13	108	85	86 ^d	84 ^a	80	89	99	89	103	101	105	105
14	111	77	90	81 ^d	82	90	98	90	108	100	106	107
15	111	59	92	81 ^e	84	87	93	87	103 ^d	94	95	110
16	107	66	92	83 ^a	85	92	94	85	105 ^e	93	92	108
17	107	75	94 ^e	87 ^f	83	96	95	91	99	99	94 ^a	107
18	109	79	96	90 ^f	82	94	92	94	92	101	104 ^j	109
19	108	78 ^b	93	92 ^f	86	89	93	97	81	100	100 ^f	105
20	105	66	96	90 ^f	88	87	92	96 ^b	80	94	100 ^k	106
21	108 ^a	70	89	90 ^l	87	81	92	101 ^f	80	91	104 ^a	106
22	109 ^e	73	92	90 ^e	85	85	90	103	67	97	102 ^f	103 ^b
23	108	79	92	91 ^c	87	86	90	102	65	95	103 ^f	102 ^d
24	104	79	86	89 ^f	88	86	86	100	79	99 ^h	92 ^e	102
25	105	80	90	84 ^d	86	88	91	95	86	100 ^e	94	103
26	106	86	89	86 ^f	91	89	89	95	89	103	98	102
27	106	87	92	81 ^f	89	89	16	97	92	99	100	102 ^b
28	106	85	68	86	91	84	32	97	89	101	101	103 ^d
29	108		74	89	94	86	57	103	96	104	101	101
30	109		74	93	90	89	64	105	97	101	103 ^b	104
31	110		81		92		74	99		101		106
Mean	107.2	79.0	87.5	88.0	84.6	88.2	85.5	94.0	94.7	99.9	100.0	104.4
No. of hours	366	334	351	286	370	360	372	324	351	345	298	355

Table 126. Diurnal variation in departures from balance, +450 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Huancayo Magnetic Observatory, 1936

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan														
Feb														
Mar														
Apr														
May														
Jun	477	476	487	488	525	524	512	496	453	446	459	458	483	18
Jul	497	517	516	530	549	535	549	514	481	499	494	499	515	27
Aug	535	551	551	551	586	586	563	535	520	518	510	520	544	28
Sep	531	533	541	542	554	569	550	547	510	514	507	508	534	28
Oct	523	530	545	536	549	557	528	510	497	501	489	511	523	29
Nov	476	478	471	490	479	486	477	467	437	450	438	457	467	26
Dec	430	443	428	430	455	443	462	448	426	410	418	427	435	24
I	453	460	450	460	467	464	470	458	432	430	428	442	451	50
II	527	533	543	539	552	563	539	528	504	508	498	510	528	57
III	503	515	518	523	553	548	541	515	485	488	488	492	514	73
Year	494	503	504	507	524	525	517	500	474	475	471	481	498	180

Table 127. Diurnal variation in departures from balance, +450 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, for days with complete records by months, seasons, and year, Huancayo Magnetic Observatory, 1937

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	440	436	438	423	443	452	444	438	420	418	424	438	435	24
Feb	411	400	399	405	406	424	426	416	415	395	394	389	407	22
Mar	371	386	386	380	406	403	391	382	377	372	355	366	381	27
Apr	330	330	338	341	348	357	366	325	305	314	305	307	331	26
May	340	329	345	355	355	373	375	349	338	321	324	322	344	30
Jun	264	269	265	276	269	282	280	263	240	251	246	253	263	27
Jul	303	323	317	338	350	362	351	331	297	285	290	299	320	31
Aug	324	317	330	337	341	348	334	314	296	294	296	300	319	30
Sep	312	326	327	320	331	318	331	309	314	317	276	320	317	28
Oct	287	286	290	272	296	308	312	284	256	267	263	268	283	29
Nov	329	316	304	310	327	329	350	339	326	298	302	315	321	26
Dec	336	341	322	350	365	377	367	353	328	325	332	327	344	30
I	379	373	366	372	385	396	397	386	372	359	363	369	377	102
II	325	332	335	328	345	346	350	325	313	318	300	315	328	110
III	308	310	314	326	329	341	335	314	293	288	289	294	312	118
Year	337	338	338	342	353	361	361	342	326	322	317	326	339	330

Table 128. Diurnal variation in departures from balance, +450 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Huancayo Magnetic Observatory, 1938

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	224	227	224	237	248	250	253	243	227	220	228	224	234	29
Feb	254	269	268	268	262	294	296	265	257	251	241	246	264	26
Mar	326	334	334	326	355	363	369	361	358	340	321	326	343	26
Apr	277	305	283	287	307	323	304	290	284	285	279	286	293	23
May	349	369	354	375	389	398	398	376	350	340	349	350	367	31
Jun	438	446	449	452	467	477	461	461	425	410	424	419	444	29
Jul	450	465	472	476	482	490	491	454	452	445	441	441	463	31
Aug	452	482	473	488	507	508	491	483	459	451	451	450	475	31
Sep	484	484	479	499	499	498	497	474	458	459	452	448	478	30
Oct	499	517	502	506	516	529	526	513	489	482	482	481	504	31
Nov	515	523	527	544	528	555	542	527	525	512	514	503	526	29
Dec	501	497	489	485	493	510	510	493	495	476	473	487	492	31
I	374	379	377	384	383	402	400	382	376	365	364	365	379	115
II	396	410	400	404	419	428	424	410	397	392	384	385	404	110
III	422	440	437	448	461	468	460	444	422	412	416	415	437	122
Year	397	410	405	412	421	433	428	412	398	390	388	388	407	347

Table 129. Diurnal variation in departures from balance, +450 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Huancayo Magnetic Observatory, 1939

Month	1	3	5	7	9	11	13	15	17	19	21	23	Complete days	No. of complete days
Jan	517	503	514	510	535	552	554	544	509	514	500	496	520	27
Feb	466	469	462	459	486	495	494	492	481	459	445	446	471	28
Mar	445	450	456	463	465	470	492	475	466	467	441	432	460	29
Apr	389	406	402	416	380	402	404	400	386	378	398	394	396	30
May	336	348	356	368	390	401	402	393	391	382	349	333	371	28
Jun	413	439	429	442	455	447	460	453	459	439	426	409	439	30
Jul	479	490	504	494	499	500	509	492	488	476	470	484	490	29
Aug	534	543	542	562	568	583	575	565	540	524	549	516	550	31
Sep	535	536	552	551	562	564	555	548	544	529	543	513	544	30
Oct	556	568	547	568	577	579	566	565	542	532	550	551	559	31
Nov	606	599	612	611	619	637	625	622	614	609	595	608	613	30
Dec	597	602	595	615	610	633	623	617	601	594	586	589	605	31
I	546	543	546	549	562	579	574	569	551	544	532	535	552	116
II	481	490	489	500	496	504	504	497	484	476	483	472	490	120
III	440	455	458	466	478	483	486	476	470	455	448	436	462	118
Year	489	496	498	505	512	522	521	514	502	492	488	481	501	354

Table 130. Diurnal variation in departures from balance, +450 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Huancayo Magnetic Observatory, 1940

Month	1	3	5	7	9	11	13	15	17	19	21	23	Complete days	No. of complete days
Jan	610	596	592	610	624	638	646	633	635	618	604	594	617	31
Feb	586	600	604	606	603	621	619	613	610	603	575	580	602	29
Mar	589	564	571	575	568	586	584	577	566	581	576	559	575	29
Apr	557	579	568	583	587	594	576	586	561	563	568	554	573	30
May	584	589	613	620	617	638	641	628	629	610	600	596	614	31
Jun	596	604	607	617	611	624	613	628	600	601	591	594	607	30
Jul	617	626	624	639	640	652	646	638	626	624	611	614	630	31
Aug	603	618	639	652	644	645	660	637	625	627	621	610	632	31
Sep	617	619	627	630	639	647	649	631	626	625	629	601	628	29
Oct	595	608	613	610	626	620	622	617	599	585	570	583	604	31
Nov	569	575	571	581	599	596	588	594	578	570	560	533	576	30
Dec	552	552	571	560	548	591	598	611	576	569	561	545	569	31
I	579	581	584	589	594	612	613	613	600	590	575	563	591	121
II	590	592	595	600	605	612	608	603	588	588	586	574	595	119
III	600	609	621	632	628	640	640	633	620	616	606	604	621	123
Year	590	594	600	607	609	621	620	616	603	598	589	580	602	363

Table 131. Diurnal variation in departures from balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Huancayo Magnetic Observatory, 1941

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	664	679	684	681	696	693	704	715	693	683	684	670	687	31
Feb	693	681	703	706	727	722	743	737	717	715	706	696	712	28
Mar	697	693	690	702	719	724	751	731	714	713	685	695	706	30
Apr	690	709	699	602	697	715	723	723	709	694	713	704	706	27
May	721	728	730	717	746	741	755	744	738	724	725	712	732	31
Jun	746	781	796	782	796	809	791	781	782	770	755	755	779	28
Jul	789	807	793	800	800	807	789	792	797	768	769	773	790	31
Aug	797	796	815	816	817	816	801	800	794	789	771	789	800	28
Sep	780	775	799	804	816	808	782	794	778	785	771	773	789	21
Oct	820	823	819	829	853	835	851	837	832	827	790	803	826	31
Nov	808	815	829	816	843	834	838	846	810	811	800	810	822	25
Dec	751	770	781	782	789	800	781	790	786	799	765	771	781	31
I	729	736	749	746	764	762	767	772	751	752	739	737	751	115
II	747	750	752	759	771	770	777	771	758	755	740	744	757	109
III	763	778	784	779	790	793	784	779	778	763	755	757	775	118
Year	746	755	762	761	775	775	776	774	762	757	745	746	761	342

Table 132. Diurnal variation in departures from balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Huancayo Magnetic Observatory, 1942

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	814	831	830	846	835	855	853	852	844	839	805	820	835	31
Feb	790	800	812	807	833	828	844	843	847	819	816	798	820	28
Mar	719	722	724	711	710	727	747	731	733	701	701	695	718	26
Apr	756	764	796	791	785	799	805	802	784	776	766	744	781	30
May	813	821	828	821	840	839	834	844	825	826	810	815	826	28
Jun	863	869	865	879	883	887	879	880	853	884	879	847	872	30
Jul	839	856	858	879	871	872	880	878	859	874	858	850	865	31
Aug	917	911	928	948	953	935	940	922	921	927	901	911	925	31
Sep	963	945	952	965	960	954	966	962	943	957	952	960	956	29
Oct	942	949	940	953	950	959	965	947	957	935	939	923	947	29
Nov	934	930	934	934	949	944	946	959	951	938	939	928	941	30
Dec	922	939	944	957	950	962	950	952	936	943	937	931	944	30
I	865	875	880	886	892	897	898	902	894	885	874	869	885	119
II	845	845	853	855	851	860	871	860	854	842	840	830	850	114
III	858	864	870	882	887	883	883	881	864	878	862	856	872	120
Year	856	861	868	874	877	880	884	881	871	868	859	852	869	353

Table 133. Diurnal variation in departures from balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Huancayo Magnetic Observatory, 1943

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	938	952	950	952	965	958	956	960	936	954	946	931	950	31
Feb	898	937	910	907	931	930	950	940	925	911	916	886	920	26
Mar	912	914	949	940	943	954	955	925	930	925	915	913	931	30
Apr	904	903	910	920	919	934	925	937	925	912	897	891	915	30
May	888	890	879	917	917	911	923	928	907	882	874	872	899	31
Jun	898	901	892	912	913	947	931	931	935	917	906	902	915	26
Jul	862	871	885	900	901	917	909	910	912	897	874	869	892	31
Aug	872	885	891	904	914	926	912	907	879	896	874	859	893	31
Sep	886	909	906	915	907	928	910	926	897	909	891	906	907	27
Oct	....	....	....	....	....	....	....	....	....	....	....	....	....	...
Nov	926	930	943	941	955	961	968	969	957	950	933	914	946	29
Dec	946	946	955	955	957	974	974	979	967	951	942	946	958	31
I	927	941	940	939	952	956	962	962	946	942	934	919	944	117
II	901	909	922	925	923	938	930	929	917	915	901	903	918	87
III	880	887	887	908	911	925	919	919	908	898	882	876	900	119
Year	903	912	916	924	929	940	937	937	924	918	906	899	921	323

Table 134. Diurnal variation in departures from balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Huancayo Magnetic Observatory, 1944

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	960	971	983	991	986	996	995	1005	992	977	974	958	982	29
Feb	983	983	994	1002	987	997	1023	993	980	974	993	991	992	29
Mar	998	1001	998	1010	1002	1005	1028	1020	992	996	1008	1004	1005	30
Apr	1026	1019	1030	1023	1047	1041	1037	1032	999	996	984	995	1019	28
May	1063	1059	1051	1042	1053	1053	1065	1064	1038	1046	1035	1032	1050	29
Jun	1068	1076	1082	1068	1086	1097	1104	1077	1063	1053	1061	1068	1075	30
Jul	1121	1098	1123	1108	1108	1109	1121	1098	1095	1100	1121	1099	1109	29
Aug	1141	1143	1125	1137	1137	1156	1144	1148	1128	1120	1120	1102	1134	30
Sep	1143	1162	1160	1148	1171	1150	1164	1172	1141	1152	1134	1144	1153	27
Oct	1144	1130	1172	1154	1118	1146	1138	1168	1170	1158	1108	1126	1143	5
Nov	1137	1150	1142	1121	1142	1130	1134	1135	1115	1122	1095	1110	1128	30
Dec	1067	1076	1080	1078	1080	1078	1094	1098	1081	1051	1043	1059	1074	30
I	1037	1045	1050	1048	1049	1050	1062	1058	1042	1031	1026	1030	1044	118
II	1078	1078	1090	1084	1084	1086	1092	1098	1076	1076	1058	1067	1080	90
III	1098	1094	1095	1089	1096	1104	1108	1097	1081	1080	1084	1075	1092	118
Year	1071	1072	1078	1074	1076	1080	1087	1084	1066	1062	1056	1057	1072	326

Table 135. Diurnal variation in departures from balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Huancayo Magnetic Observatory, 1945

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	1090	1077	1091	1080	1070	1091	1072	1079	1067	1067	1058	1066	1076	29
Feb	1089	1089	1079	1077	1106	1100	1108	1074	1082	1086	1074	1072	1086	27
Mar	979	1004	998	1001	992	1009	1010	1006	1001	975	978	985	995	28
Apr	1008	1021	1013	1017	1020	1033	1027	1018	1033	1013	994	1005	1017	27
May	1048	1040	1049	1079	1055	1047	1060	1063	1045	1054	1043	995	1048	23
Jun	1071	1075	1094	1088	1100	1095	1098	1102	1086	1085	1061	1059	1085	24
Jul	1087	1088	1106	1097	1124	1128	1128	1114	1113	1104	1067	1084	1103	30
Aug	1106	1133	1129	1137	1161	1148	1166	1156	1130	1134	1105	1126	1136	15
Sep	1150	1151	1155	1159	1150	1148	1152	1136	1142	1130	1136	1128	1145	25
Oct	1164	1169	1164	1169	1158	1170	1163	1160	1152	1132	1126	1143	1156	28
Nov	1107	1112	1114	1103	1119	1128	1142	1126	1127	1105	1093	1107	1115	30
Dec	1080	1071	1081	1080	1089	1103	1110	1115	1083	1076	1073	1072	1086	31
I	1092	1087	1091	1085	1096	1106	1108	1098	1090	1084	1074	1079	1091	117
II	1075	1086	1082	1087	1080	1090	1088	1080	1082	1062	1058	1065	1078	108
III	1078	1084	1094	1100	1110	1104	1113	1109	1094	1094	1069	1066	1093	92
Year	1082	1086	1089	1091	1095	1100	1103	1096	1089	1080	1067	1070	1087	317

Table 136. Diurnal variation in departures from balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 510 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Huancayo Magnetic Observatory, 1946

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	1054	1070	1080	1077	1088	1088	1072	1075	1067	1068	1075	1038	1071	29
Feb	769	780	794	795	799	804	810	798	806	794	781	763	791	27
Mar	862	859	887	882	891	884	896	879	888	859	878	842	876	26
Apr	882	900	919	902	901	902	926	911	909	889	880	873	900	15
May	815	819	846	845	845	865	863	870	868	849	824	814	844	30
Jun	868	869	863	900	884	882	893	895	902	893	874	856	882	30
Jul	852	859	857	864	871	887	857	872	883	848	826	828	859	31
Aug	910	922	927	957	957	949	941	960	968	961	914	907	940	25
Sep	929	930	956	947	958	941	970	961	941	936	933	898	942	28
Oct	989	981	991	1013	1015	987	996	1000	1014	999	997	986	997	26
Nov	1000	1001	1002	997	1000	1000	1001	1000	992	992	977	988	996	16
Dec	1033	1056	1064	1053	1046	1059	1038	1047	1059	1052	1038	1041	1049	26
I	964	977	985	980	983	988	980	980	981	976	968	958	977	98
II	916	918	938	936	941	928	947	938	938	921	922	900	929	95
III	861	867	873	892	889	896	888	899	905	888	860	851	881	116
Year	914	921	932	936	938	937	938	939	941	928	917	903	929	309

Table 137. Frequency distribution of bursts according to size by four-hourly 75th west meridian time intervals, burst-sizes in units of 0.1 per cent of the total ions produced per hour by cosmic rays, Huancayo Magnetic Observatory, 1941

Month	Hour	0	6	7	8	9	10-19	20-29	30-39	40-49	> 50	6-9*	10-19*	20-29*	30-39*	40-49*	Sums	No. of complete hours
Jan-Feb																		
Mar-Apr	1- 4	204	7	8	6	4	15	1	1		2						248	240
	5- 8	209	11	4	2	1	13	3	1		1						245	241
	9-12	201	9	7	4	6	10	1	1		1						241	234
	13-16	198	8	4	7	6	14	1		1							239	232
	17-20	195	11	7	6	4	9	2	2	1							237	235
	21-24	206	11	9	6	2	11	5	1								251	238
May-Jun	1- 4	198	8	13	5	7	17	5	2	1	2						258	240
	5- 8	217	12	5	3	2	5	2									246	240
	9-12	203	8	17	4	2	7	4			2						247	240
	13-16	212	8	8	6	3	8	3	1								249	240
	17-20	207	8	4	6	3	13	2									243	239
	21-24	200	12	9	8	2	11	2		1	2						247	240
Jul-Aug	1- 4	200	7	12	7	8	21	1									256	244
	5- 8	212	7	9	4	6	14	1			1						254	244
	9-12	222	6	5	3	2	9		1								248	241
	13-16	217	8	4	3	2	12		1								247	240
	17-20	208	9	7	4	2	10	4		2	1						247	240
	21-24	210	5	7	9	3	15	3			1						253	244
Sep-Oct	1- 4	185	6	10	6	2	9	5	1	1	1						226	220
	5- 8	187	9	14	2	6	9	2		1							230	220
	9-12	183	10	14	3	5	17										232	225
	13-16	194	12	8	5	1	11	1			1						233	228
	17-20	187	11	7	6	6	13	2	1	1							234	227
	21-24	189	6	11	4	1	9				1						221	216
Nov-Dec	1- 4	195	11	10	4	3	21	2	1	1	1						249	232
	5- 8	216	9	7	3	4	11	2									252	237
	9-12	207	8	11	4	5	12	3	1	1							252	237
	13-16	205	8	7	4	3	18	3									248	241
	17-20	205	10	13	2	6	10	1			1					1	249	238
	21-24	196	12	7	4	3	20	1			2						245	231
Year	1-24	6088	267	258	140	110	374	62	15	12	20					1	7327	7065

Table 138. Frequency distribution of bursts according to size by four-hourly 75th west meridian time intervals, burst-sizes in units of 0.1 per cent of the total ions produced per hour by cosmic rays, Huancayo Magnetic Observatory, 1942

Month	Hour	0	6	7	8	9	10- 19	20- 29	30- 39	40- 49	>50	6-9 *	10- 19 *	20- 29 *	30- 39 *	40- 49 *	Sums	No. of com- plete hours
Jan-Feb	1- 4	206	8	7	7	4	21				1						254	236
	5- 8	202	20	8	10	1	8	4									253	235
	9-12	209	11	5	3	6	17	1									252	236
	13-16	199	18	11	4	5	14	3	2		1						257	235
	17-20	205	18	11	5	5	10	4	1				1		1		261	234
	21-24	192	20	12	5	3	12	2			1						247	234
Mar-Apr	1- 4	195	12	7	7	3	12	2	2	2							242	232
	5- 8	204	11	7	14	3	11	2									252	232
	9-12	209	20	6	6	2	9		2	1							255	237
	13-16	191	14	6	13	4	18	1		1							248	237
	17-20	206	13	6	5	2	6	2	1	1							242	233
	21-24	197	8	8	6	3	13	1	2		2						240	232
May-Jun	1- 4	209	13	13	6	3	15	1		1						1	262	240
	5- 8	211	15	11	4	1	13	1									256	240
	9-12	205	16	9	6	2	14	3								1	256	240
	13-16	198	11	14	7		24	3	1		1						259	240
	17-20	192	9	23	14	4	17	2		1							262	238
	21-24	206	10	14	5	5	12	1	1	1							255	241
Jul-Aug	1- 4	218	16	8	3	4	14	3	3		1						270	248
	5- 8	215	15	6	5	5	14	2									262	248
	9-12	211	16	8	6	8	14	2			1						266	248
	13-16	204	18	16	8	4	9	4	1	1					1		266	247
	17-20	204	17	15	12	6	20	4									278	248
	21-24	201	21	11	11	5	13	5		1							268	248
Sep-Oct	1- 4	206	16	17	13	1	7	2	2	1		1					266	243
	5- 8	214	18	17	6	4	8		2	1						2	272	242
	9-12	205	21	16	9	1	14	4	1		1					1	273	243
	13-16	207	21	14	14	2	17	3	2					2	1	1	284	240
	17-20	199	16	14	8	2	17	2		1	1						260	239
	21-24	208	14	17	10	4	17	2	2								274	240
Nov-Dec	1- 4	219	16	18	6	5	11	3	1					1			280	244
	5- 8	302	28	18	5	5	13	1		2							274	244
	9-12	185	24	16	9	10	13	1	1					1		1	261	240
	13-16	201	16	25	7	8	14	3					2				276	240
	17-20	192	21	18	8	4	25	1							1	2	272	240
	21-24	197	28	20	3	3	18	2	1							1	273	244
Year	1-24	7324	589	452	270	137	504	77	28	15	10	1	3	4	4	10	9428	8638

Table 139. Frequency distribution of bursts according to size by four-hourly 75th west meridian time intervals, burst-sizes in units of 0.1 per cent of the total ions produced per hour by cosmic rays, Huancayo Magnetic Observatory, 1943

Month	Hour	0	6	7	8	9	10-19	20-29	30-39	40-49	>50	6-9*	10-19*	20-29*	30-39*	40-49*	Sums	No. of complete hours
Jan-Feb	1- 4	199	10	15	8	4	18	1									255	232
	5- 8	187	17	19	8	5	15	4	2	1							258	232
	9-12	193	20	10	9	4	18		2		1						257	236
	13-16	201	20	15	13	2	16	1						1			269	234
	17-20	205	23	17	13	2	14	1					1				276	234
	21-24	200	15	13	11	5	14	3	1	2							264	232
Mar-Apr	1- 4	210	17	16	7	1	13	1									265	244
	5- 8	200	17	13	8	4	15	4	1								262	244
	9-12	218	17	11	8	3	13			1							271	243
	13-16	211	16	19	7	2	15	2	1	1							274	240
	17-20	178	26	14	7	5	10	1	2					1	1		245	241
	21-24	235	23	10	9	2	20	1	1						1		302	244
May-Jun	1- 4	192	10	13	8	1	17	4	1		1						247	232
	5- 8	187	12	11	13	3	22	3	3		2						256	232
	9-12	198	18	12	6	11	13	1									259	234
	13-16	193	15	16	13	4	17	1	1		1					1	262	233
	17-20	198	12	11	8	6	15	2		1							253	229
	21-24	196	17	11	6	6	15	3		2	1		1				258	232
Jul-Aug	1- 4	206	24	14	2	6	11	1	1								265	248
	5- 8	217	16	4	8	3	14	3									265	248
	9-12	215	23	6	5	8	10	1	1								269	248
	13-16	216	20	10	12	2	16	1			1						278	248
	17-20	195	24	13	7	4	21	3	2		1				1	1	272	246
	21-24	207	22	12	10	4	15	1	2	1	1						275	248
Sep-Oct	1- 4	100	10	5	4	3	12		1								135	120
	5- 8	105	4	2	4	2	7	3									127	118
	9-12	95	9	7	1	4	9	1	2								128	118
	13-16	91	12	7	7	2	7	3									129	114
	17-20	87	12	8	3	2	11	2			1						126	114
	21-24	106	9	7	3	1	7	1									134	120
Nov-Dec	1- 4	189	19	18	14	3	20	2	4					1	1		271	240
	5- 8	209	26	13	7	3	11										269	240
	9-12	225	14	7	6	8	11	1								1	273	240
	13-16	207	22	17	12	8	18	4	1								289	240
	17-20	202	22	12	6	1	19	1	1					1			265	241
	21-24	216	21	7	9	6	13	2							1		275	244
Year	1-24	6689	614	415	282	140	512	63	30	9	10		2	4	5	3	8778	7883

Table 140. Frequency distribution of bursts according to size by four-hourly 75th west meridian time intervals, burst-sizes in units of 0.1 per cent of the total ions produced per hour by cosmic rays, Huancayo Magnetic Observatory, 1944

Month	Hour	0	6	7	8	9	10-19	20-29	30-39	40-49	>50	6-9*	10-19*	20-29*	30-39*	40-49*	Sums	No. of complete hours
Jan-Feb	1- 4	210	25	13	9	2	15	1	1	1							277	236
	5- 8	201	19	12	9	4	13		1							1	260	236
	9-12	214	21	14	5	5	14	1									274	236
	13-16	205	20	15	8	5	17	1	1		1		1				274	235
	17-20	199	23	21	12	7	14		1								277	233
	21-24	208	15	14	6	4	14	4									265	236
Mar-Apr	1- 4	214	10	9	3		14	1									251	240
	5- 8	212	7	13	8	1	12	2			1						256	239
	9-12	201	12	14	13	3	13	4									260	236
	13-16	206	10	10	8	4	9	2									249	237
	17-20	206	12	15	6	1	15	1	1		1						258	236
	21-24	220	7	9	6	4	10	1	1						1		259	242
May-Jun	1- 4	202	8	12	9	4	17	3		1							256	240
	5- 8	207	17	6	5	5	12			1	1						254	240
	9-12	216	8	4	5	3	17	2			1						256	243
	13-16	215	13	5	6	2	14	2		1							258	244
	17-20	226	9	3	5	3	12	3			1						262	244
	21-24	211	10	9	4	4	14				1					1	254	242
Jul-Aug	1- 4	211	9	6	13	6	15	2	2		2					1	267	244
	5- 8	228	11	11	6	4	8	4		1							273	248
	9-12	223	14	8	7	2	13	2	2								271	248
	13-16	222	9	16	5	3	9	4	2	1							271	245
	17-20	218	19	11	6	3	25	1			1						284	246
	21-24	223	17	8	9	6	10	1	1	1					2		278	244
Sep-Oct	1- 4	124	11	11	3		9	2							1		161	140
	5- 8	122	10	10	4	2	7										155	140
	9-12	131	4	10	4	2	5			1	1						158	142
	13-16	127	7	5	3	1	15	2	1								161	145
	17-20	133	10	9	3	4	8	1	1		1						170	144
	21-24	119	9	9	4	2	6			1	1						151	140
Nov-Dec	1- 4	221	8	11	3	1	15	1									260	244
	5- 8	227	9	7	3	4	10	2									262	244
	9-12	216	17	10	5	5	13	2	1	1						1	271	242
	13-16	225	17	15	4	5	6		1		2						275	241
	17-20	224	15	7	7	5	14	5			1		1	1			280	244
	21-24	228	7	11	5	3	24	2			1		1				282	244
Year	1-24	7195	449	373	221	119	458	59	17	10	17		3	1	4	4	8930	8080

Table 141. Frequency distribution of bursts according to size by four-hourly 75th west meridian time intervals, burst-sizes in units of 0.1 per cent of the total ions produced per hour by cosmic rays, Huancayo Magnetic Observatory, 1945

Month	Hour	0	6	7	8	9	10-19	20-29	30-39	40-49	>50	6-9*	10-19*	20-29*	30-39*	40-49*	Sums	No. of complete hours
Jan-Feb	1- 4	203	13	12	6	2	18	2		1							257	232
	5- 8	214	11	16	3	7	8	1	1								261	229
	9-12	206	9	9	4	6	13	4	2		2						255	232
	13-16	201	17	12	10	7	15	4		1	3	1					271	236
	17-20	210	10	12	4	1	14	2	3		2						258	236
	21-24	228	6	6	4	5	6	3	1	1	2						262	234
Mar-Apr	1- 4	207	17	11	2	4	9	2		1	3					1	257	242
	5- 8	205	15	11	6	4	9	2			1						253	238
	9-12	212	15	16	5	1	18	3									270	236
	13-16	202	15	7	6	5	14	1		1							251	235
	17-20	213	19	3	7	2	12	2			1						259	239
	21-24	203	12	10	9	7	15		1	2	1						260	241
May-Jun	1- 4	208	6	11		3	14			1							243	219
	5- 8	196	9	7	5	6	9	2	1		1						236	215
	9-12	219	12	4	3	5	4	3									250	224
	13-16	226	10	11	8	3	9	1	2								270	227
	17-20	213	19	13	3	4	10	2	1							1	266	223
	21-24	208	9	14	7	2	14	1	1								256	227
Jul-Aug	1- 4	193	17	6	6	3	16	4		2			1			1	249	220
	5- 8	177	14	5	3	2	15	1	2	1		1					222	203
	9-12	194	16	15	4	2	13	3			1						248	222
	13-16	203	10	9	11	5	18		1								257	228
	17-20	192	14	14	7	9	12										248	226
	21-24	204	18	4	10	1	13	2									252	226
Sep-Oct	1- 4	216	8	15	5	3	14	1		1							263	244
	5- 8	218	15	14	4	3	12	2	3								271	237
	9-12	186	14	13	3	3	14	2	1		3					1	240	226
	13-16	204	21	11	8	5	8	3	2	1							263	232
	17-20	197	16	15	8	4	11	1	3								255	228
	21-24	229	10	13	3	5	13		1	2							276	242
Nov-Dec	1- 4	216	11	14	2	4	12	1	1								261	244
	5- 8	208	14	13	8	5	16	1	2				1				268	244
	9-12	208	15	8	9	6	23	1						1			271	244
	13-16	212	14	6	5	5	13	4	3					1			263	244
	17-20	223	11	6	9	2	15	1								1	268	244
	21-24	213	9	7	6	8	15	3	1								262	244
Year	1-24	7467	471	373	203	149	464	65	33	15	20	2	2	2	1	5	9272	8363

Table 142. Frequency distribution of bursts according to size by four-hourly 75th west meridian time intervals, burst-sizes in units of 0.1 per cent of the total ions produced per hour by cosmic rays, Huancayo Magnetic Observatory, 1946

Month	Hour	0	6	7	8	9	10-19	20-29	30-39	40-49	>50	6-9*	10-19*	20-29*	30-39*	40-49*	Sums	No. of complete hours
Jan-Feb	1- 4	203	7	6	9	1	18	2		1							247	230
	5- 8	205	7	11	7	1	16	3	1	1							252	229
	9-12	209	9	9	8	3	6	4	1		1						250	233
	13-16	199	11	15	9	3	14	2	2								255	235
	17-20	211	7	6	4	3	13	1									245	236
	21-24	205	8	5	4	2	13	3	1								241	233
Mar-Apr	1- 4	173	3	10	6	1	14		1	1	1						215	201
	5- 8	182	7	8	5	2	8		1								213	201
	9-12	206	10	5	4	1	14	2	0	1	1	1					245	224
	13-16	215	6	6	3	1	10	1		1	1						244	233
	17-20	206	5	11	4	1	11	1	1			1					241	230
	21-24	178	6	10	4		9	2			1						210	207
May-Jun	1- 4	210	7	6	4	2	18	3		1							251	244
	5- 8	213	9	7	5	3	18	2	2		1						260	244
	9-12	207	9	7	8	1	12	3	1		1						249	244
	13-16	203	10	9	10	1	9	4	1		1	1					249	244
	17-20	216	4	4	8	4	10		1		2						249	241
	21-24	215	10	7	9		13	2	1			1					258	244
Jul-Aug	1- 4	207	5	11	7	1	13	3	2		1						250	244
	5- 8	207	6	11	9		12	2								1	248	244
	9-12	214	3	12	6	3	14	1									253	245
	13-16	221	2	9	5	2	9	3	1		1						253	248
	17-20	221	5	6	11	1	15	2	1								262	247
	21-24	216	7	4	5	1	12	1									246	244
Sep-Oct	1- 4	211	6	4	5	2	13	3	1								245	232
	5- 8	204	3	9	6	3	10	3	1	1	2						242	232
	9-12	206	4	3	9	1	11	3	1		1						239	233
	13-16	216	4	6	5	1	11	2									245	236
	17-20	206	4	4	7		13	4	1	2							241	231
	21-24	199	10	10	7	1	13	1									241	230
Nov-Dec	1- 4	182	5	6	6	2	14	2									217	208
	5- 8	178	7	5	8		15	1		2	1						217	208
	9-12	192	6	5	5	1	14	1		1	1					1	227	219
	13-16	202	5	7	8	1	15	2	1								241	232
	17-20	210	7	4	11	2	11	4		1						1	251	237
	21-24	189	10	7	9	4	14		1								234	219
Year	1-24	7342	234	265	240	56	455	73	24	13	17	4				3	8726	8342

Table 143. Daily mean departures from balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, Cheltenham Magnetic Observatory, 1937

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1				72	47	39	42	36	37	42	57	68
2				71	48	41	47	39	38	42	57	74
3				70	55	41	43	33	40	38	69	73
4				66	54	40	48	30	40	33	72	71
5				61	57	29	44	27	39	36	67	72
6				53	59	30	38	32	40	38	67	75
7				69	58	35	39	32	40	42	64	82
8				63	57	42	38	31	45	53	59	76
9				65	55	39	36	32	49	50	58	78
10				75	59	34	33	32	43	48	60	78
11				82	60	42	39	36	43	49	60	78
12				76	52	41	37	34	46	42	54	76
13				68	52	34	34	37	50	50	51	73
14				63	56	33	36	39	44	60	59	72
15				65	57	34	33	40	42	62	67	68
16				68	55	33	35	38	45	61	69	63
17				57	57	32	36	36	51	53	72	63
18				51	55	35	43	38	50	47	73	58
19				58	58	37	39	35	48	45	70	63
20			62	60	58	38	33	41	50	58	72	66
21			67	59	50	36	33	41	50	61	78	70
22			71	62	45	36	36	38	49	59	72	62
23			69	64	53	30	38	40	44	59	68	57
24			65	64	54	30	35	40	45	66	62	56 ^a
25			68	53	54	34	36	37	45	60	60	54 ^b
26			75	41	47	35	38	37	48	54	62	65
27			71	30	50	29	41	38	52	57	58	66
28			78	36	43	30	41	38	51	63	57	63
29			76	30	45	36	45	38	51	57	63	68
30			76	38	42	31	43	39	46	51	62	70
31			71		40		41	37		58		67
Mean			70.8	59.6	52.6	35.2	38.7	36.2	45.4	51.7	64.0	68.5
No. of hours			144	360	372	360	372	372	360	372	360	369

Table 144. Daily mean departures from balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, Cheltenham Magnetic Observatory, 1938

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	68	68	72	57	60	49	48	40	49	38	58	68
2	71	62	66	60	54	49	45	42	52	43	55	66
3	71	60	68	70	53	51	46	39	55	47	54	65
4	72	63	70	70	57	53	48	30	49	51	58	64
5	70	63	59	69	52	53	48	34	52	51	53	61
6	69	55	61	60	57	48	48	38	54	52	58	71
7	65	53	70	46	53	46	45	43	49	56	56	70
8	75	53	72	44	49	40	48	44	50	51	60	69
9	74	45	69	50	51	43	47	48	53	46	62	71
10	74	49	71	58	59	41	47	44	52	53	56	68
11	75	52	75	52	55	42	47	40	51	51	55	60
12	74	53	75	55	51	43	50	44	50	55	53	57
13	76	47	64	46	52	48 ^l	49	45	50	56	60	66
14	72	42	58	36	44	...	43	44	41	58	65	62
15	73	53	62	41	45	...	41	46	48	58	63	63
16	59	56	56	27	46	50 ^g	43	49	52	56	58	63
17	16	55	60	34	44	51	42	47	51	54	50	58
18	36	51	61	41	42	52	45	48	46	52	50	61
19	47	56	54	48	44	53	45	50	45	52	53	58
20	49	64	60	45	45	50	47	49	50	54	60	62
21	50	62	57	47	47	50	46 ^l	51	52	59	57	64
22	27	66	54	51	53	50	45 ^d	52	54	54	60	63
23	37	65	50	53	50	50	56	37	42	60	60	59
24	41	76	58	50	51	50	50	47	52	50	62	65
25	31	81	58	51	47	52	49	48	54	59	68	74
26	43	79	53	52	45	49 ^d	52	47	47	54	72	66
27	66	74	62	50	43	49	49	45	41	56	77	66
28	69	84	63	52	50	57	47	49	34	59	76	74
29	58		57	57	46	56	49	50	36	60	68	72
30	59		57	63	50	53	48	46	36	61	66	78
31	64		53		48		48	47		61		81
Mean	59.1	60.2	62.1	51.2	49.8	49.2	46.8	44.9	47.7	53.5	60.1	65.9
No. of hours	372	336	372	360	372	315	359	372	360	372	360	372

Table 145. Daily mean departures from balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, Cheltenham Magnetic Observatory, 1939

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	74	72	65	62	48	35	33	47	43	48	56	62
2	71	67	68	67	43	35	33	44	43	51	59	64
3	67	62	66	70 ^b	42	34	35	43	39	35	62	67
4	68	69	59	72	39	32	30	48	37 ^b	29	61	67
5	67	69	54	62	33	34	24	50	42 ^b	31	56	69
6	69	58	58	58	11	36	28	46	42	39 ^a	58	65
7	65	64	65	67	20 ^j	38	29	50	38	43	58	59
8	67	63	68	64	28 ^g	35	33	45	35	44	65	63
9	61	60	61	59	26	35	36	45	38	42 ^b	61	54
10	58 ^j	55	66	47	33	34	40	47	43 ^c	...	56	60
11	...	58	63	46	33	37	42	43	42	...	60	66
12	70 ^f	64	60	57	38	40	38	22	40	...	65	60
13	65 ^d	61	65	59	44	36	32	33	37	23 ^h	68	65
14	67	56	60	55	46	34	33	34	33	41	66	73
15	74	56	57	52	48	38	39	31	33	41	61	71
16	66	58	63	52	44	35	42	35	34	40	62	69
17	59	58	73	41	41	35	42	40	30 ^k	44 ^c	63	66
18	62	58	77	39	40	40	37	42	...	42	59	64
19	67	51	69	45 ^c	38	31	36	42	...	42	61 ^k	62
20	69	57	65	43 ^c	41	29	37	35	...	42	64 ^h	67
21	63	60	70	42	43	33	37	39	...	50	69	78
22	67	76	67	45	44	33	36	28	...	54	73	72
23	71	85	62	34	42	35	35	35	...	56	65	60
24	69	72	59	22	38	40	36	44	...	52	69	67
25	77	68	58	14	38	41	40	43	...	48	73	64
26	79	57	56 ^e	26	38	40	36	44	...	44	67	63
27	88	60	61	37	41	38	37	46	...	40	62	68
28	76	59	63	40	36	38	39	46	...	50	64	66
29	71		63	49	36	31	43	44	...	56	63	68
30	65		55	54	33	29	42	45	...	53	64	71
31	77		62		35		44	44		56		78
Mean	69.0	62.6	63.2	49.3	37.4	35.4	36.3	41.3	38.2	44.1	63.0	66.1
No. of hours	340	336	367	355	355	360	372	372	186	322	341	372

Table 146. Daily mean departures from balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, Cheltenham Magnetic Observatory, 1940

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	82	71	66	38	59	53	52	42	45	47	51	59
2	82	79	64	45	67	52	52	40	46	50	56	66
3	79	74	62	40	73	55	50	37	46	48	56	76
4	72	71	70	45	68	55	50	38	46	48	54	68
5	72	69	77	57	63	57	49	37	45	47	53	69
6	77	65	82	60	64 ^b	54	47	42	46	43	64	66
7	70	73	77	56	74	54	46	46	45	42	69	64
8	73	72	78	56	56	52	46	49	46	52	70	72
9	71	71	79	67	59	51	49	45	47	56	61	70
10	70	66	78	68	70	53	43	43	50	55	60	58
11	67	71	75	65	70	51	42 ^d	44	54	52	56	57
12	71	63	68	67	70	51	46	42	55	52	54	53
13	70	71	68	80	62	53	45	43	52	51	55	52
14	66	79	68	83	60	45	46	44	51	51	52	61
15	78	77	79	72	59	42	47	47 ^a	48	57	56	56
16	79	73	75	65	63	44	47 ^a	45	50	61	60	53
17	81 ^b	69	72	63	60	46	48 ^a	44	50	60	57	61
18	...	69	72	60 ^g	61	47	48	42	49	62	52	62
19	76 ^d	73	74	63 ⁱ	59	46	48	41	46	72 ^b	47	62
20	86	82	75	67	57	53	47	49	47	59	51	60
21	84	77	79	66	55	58	46	49	48	56 ^h	50	63
22	82	77	79	67	57	53	46	50	47	...	49	63
23	74	75	84	64	44	47	46	50	49	50 ^d	46	63
24	73	73	65	67	45	47 ^d	42	55	45	52	56	60
25	78	78	69	61	50	45 ^k	44	52	46	48 ^c	60	56
26	88	76	63	60	49	45 ^d	43	47	52	45	59	56
27	84	70	56	69	52	42	45	44	45	52	60	49
28	82	69	57	66	60	41	44	43	49	53	72	50
29	80	71	54	60	57	48	45	42	46	56	65	61
30	81		42	58	56	52	41	40	51	52	62	60
31	74		48		55		41	42		59		56
Mean	76.8	72.6	69.5	61.8	59.8	49.7	46.2	44.3	48.1	52.9	57.1	60.7
No. of hours	354	348	372	344	370	341	366	371	360	343	360	372

Table 147. Daily mean departures from balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, Cheltenham Magnetic Observatory, 1941

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	57	...	58	55	60	46	39	40	36	46	54	51
2	58	...	49	60	64	51	42	41	39	50	64	53
3	63	...	50	53	66	50	44	44	42	47	64	48
4	71	...	64	56	60	52	40 ^b	32	42	48	61	44
5	69	...	68	56	52	56	39	35	43	48	60	48
6	62 ^a	...	68	65	50	54	34	40	48	46	54	56
7	61	...	67	64	52	48	42	44	47	44	65	63
8	66	...	68	66	57	50	41	44	46	47	65	68
9	69	...	72	62	62	52	44	42	44	48	66	71
10	70	...	70	62	64	41	40	45	45	51	70	70
11	...	...	70	62	66	40	37	45	53	59	71	72
12	...	...	72	61	67	42	38	46	57	53	68	69
13	...	...	77	57	61	35	43	52	55	54	62	61
14	...	...	76	52	56	45	42	48	46	49	57	73
15	...	71	71	54	52	48	46	47	42	49	62	75
16	...	73	67	51	45	51	45	48	40	55	64	73
17	...	74	76	57	54	55	43	52	47	53	61	71
18	...	74	77	49	60	54	45	52	35	50	56	60
19	...	71	65	52	56	46	45	47	31	52	56	63
20	...	71	63	52	51	50	50	50	34	55	59	72
21	...	74	65	61	53	48	48	52	38	55	65	70
22	...	75	63	65	49	49	51	48	39	55	62	68
23	...	77	63	60	49	49	49	52	36	57	61	65
24	...	69	66	56	58	47	48	51	41	63	69	70
25	...	69	70	60	57	44	45	46	44	63	70	66
26	...	69	68	61	51	43	47	45	47	57	68	64
27	...	75	69	62	51	46	44	43	51	52	63	64
28	...	82	72	65	47	42	44	42	48	67 ^d	58	71
29	...		79	58	53	40	45	39	50	60 ^e	56	75
30	...		73	60	60	40	44	40	47	57	58	71
31	...		56		54		39	38		56		73
Mean	64.6	73.1	67.5	58.5	56.0	47.5	43.0	44.8	43.8	53.1	62.3	65.1
No. of hours	119	168	372	360	372	360	370	372	360	363	360	372

Table 148. Daily mean departures from balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, Cheltenham Magnetic Observatory, 1942

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	70	81	21	64	58	63	52	48	52	62	67	77
2	74	87	35	66	62	56	50	45	53	62	67	93
3	72	86	40	62	59	56	55	47	55	60	68	84
4	66	79	46	62	58	58	51	53	55	57	62	84
5	74	75	51	56	62	58	54	54	52	61	61	78
6	82	71	57	56	63	60	56	54	51	63	57	76
7	87	76	68	56	60	59	57	55	53	61	65	78
8	87 ^b	79	51	62	62	58	56	54	52	61	67	83
9	77	74	54	60	67	58	54	50	50	61	68	84
10	85	76	61	60	67	60	47	49	54	64	65	76
11	79	76	56	68	64	55	48	50	58	64	76	78
12	75	85	65	71	61	57	44	52	57	63	78	80
13	71	82	64	67	58	57	38	50	50	57	79	87
14	70	79	64	62	62	57	41	52	50	58	80	84
15	74	77	68	55	60	61	44	50	50	59	68	79
16	74	67	60	56	62	61	42	48	50	56 ¹	64	87
17	71	68	60	60	58	55	45	48	51	...	62	86
18	65	79	73	66	55 ^b	55	43	48	50	...	65	86
19	71	85	68	71	58	49	46	51	48	...	67	83
20	78	91	69	70	56	47	48 ^c	47	51	66 ^h	64	89
21	85	96	66	70	61	48	48	45	56	64	66	81
22	80	86	76	68	59	51	50	48	56	66	72	74
23	77	80	77	62	59	58	49	50	58	65	66	71
24	71	72	75	60	66	57	46	46	58	62	70	69
25	75	76	71	59	68	57	47	57	57	62	73	71
26	69	78	74	57	62	54	45	50	56	64	68	68
27	77	78	70	59	59	54	44	50	53	74	79	72
28	79	88	71	56	55	54	50	50	59 ^b	62	77	67
29	79		72 ^f	56	56	54	49	54	62 ^b	57	74	63
30	76		...	54	54	53	48	57	62	51	76	76
31	72		77 ^d		55		49	56		54		83
Mean	75.9	79.9	62.0	61.8	60.2	56.0	48.3	50.6	53.9	61.3	69.0	78.9
No. of hours	370	336	350	360	370	360	369	372	358	319	360	372

Table 149. Daily mean departures from balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, Cheltenham Magnetic Observatory, 1943

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	79	83	85	71	77	57	56	46	39	48 ⁱ	57	62 ^d
2	77	88	82	78	66	60	55	44	40	46 ^d	58	59
3	71	82	90	84	62	57	50	44	40	50	66	62
4	82	76	86	77	75	55	49	40	36	54	71	66
5	90	75	80	79	69	56	47	40	39	54	68	66
6	86	74	74	85	64	55	47	45	38	50	58	67
7	82	82	83 ^c	72	64	53	50	46	47	47	54	67
8	84	81	89 ^d	71	61	54	44	37	45	49	56	62
9	85	77	86	71	63	54	47	40	47	53	66	62
10	91	70	78	68	59	54	45	36	52	57	72	69
11	83	76	76	71	59	52	43	41	52	53	74	76
12	86	88	76	69	59	49	45	44	51	51	70	78
13	88	87	80	77	60	44	48	40	46	47	75	79
14	86	96	76	84	65	52	41	42	48	49	75	79
15	86	97	73	86	61	49	41	46	45	51	70	80
16	74	92	71	72	52	53	42	40	49	55	73	81
17	71	84	76	67	57	54	39	46	54	60	78	79
18	68	80	74	65	58	58	39	48	53	63	66	74
19	72	76 ^b	68	66	56	57	37 ^e	43	50	59	62	70
20	79	77	66	72	58	54	...	45	52	57	64	78
21	77	78	76	75	60	55	46 ^d	47	50	55	66	75 ^c
22	71	73	80	75	64	56	50	45	51	58	69	76
23	71	72	76	73	62	55	46	42	55	58	74	84
24	68	72	74	70	67	52	44	42	63	59	67	82
25	69	84	75	68	64	53 ^a	43	42	66	62	65	72
26	71	86	72	69	60	49	42	44	59	62	66	66
27	73	92	73	67	63	54	46	47	49	57	70	67
28	72	84	82	70	66	53	56	48	48	62	70	74
29	72		84	68	61	54	48	49	52	62	58 ⁱ	80
30	77		72	63	61	58	47	29	52	53	...	77
31	81		67		56		50	37		58		79
Mean	78.1	81.5	77.4	72.8	62.2	53.9	46.1	42.7	48.9	54.8	66.8	72.5
No. of hours	372	334	365	360	372	359	351	372	360	359	339	365

Table 150. Daily mean departures from balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, Cheltenham Magnetic Observatory, 1944

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	79	83	87	77	62	61	65	58	56 ^b	61	72	92
2	74	83	85	74	62	64	67	55	59 ^b	65	75	92
3	72	85	81	76	62	64	64	49	59	65	74	86
4	75	85	80	87	63	64	62	50	64 ^b	61 ^c	77	83
5	69	81	83	90	65	62	57	55	64	55	81	76
6	82	86	77	79	68	60	59	56	61 ⁱ	58	84	82
7	83	87	78	71	72	62	57	57	65 ⁱ	63 ^b	76	79
8	83	82	87	71	69	65 ^d	61	60	68	72	70	86
9	84	81	91	65	68	62	58	55 ^b	66	76	73	86
10	81	76	86	66	68	61	59	54	64	77	79	86
11	77	76	78	66	68	64	59	54	61	71	80	87
12	78	89	75	70	70	62	58	55	61	66	78	97
13	79	86	75	80	70	60	57	58	60	62	73 ^e	94
14	72	71	71	72	72	61	56	55	64	68	74 ^d	93
15	71	76	73	69	72	60	55	56	63	70	72	83
16	76	75	72	71	72	57	57	57	64	72	82	69
17	77	72	79	74	71	56	59 ^f	57	64	72	86	73
18	74	72	75	75	70	61	60 ^d	61	64	68	84	78
19	75	80	76	72	71	60	58	55	64	63	85	90
20	90	78	74	71	68	70	58	56	64	65	84	84
21	73	80	81	65	68	65	62	57	66	66	91	81
22	74	73	74	68	66	61	60	56	68	75	91	82
23	76	77	72	67	66	58	61	63	70	72	95	75
24	76	76	79	65	67	63	58	64	69	76	91 ^b	74
25	69	80	78	70	66	62	56	68 ^c	67	75	85	74
26	65	72	60	70 ^c	64	59 ^e	60	68 ^a	63 ^g	76	77	79
27	68	68	59	74	61	55 ^a	58	61	64 ^c	82	80	74
28	66	77	70	82	63	56	58	56 ⁱ	60	76	78	77
29	76	81	71	74	60	55	61	55 ^g	65	77	80	80
30	80		72	66	60	59	59	56 ^h	63	73	85	78
31	83		85		62		60	57		69		73
Mean	76.0	78.9	76.9	72.6	66.6	61.0	59.3	57.2	63.7	69.3	80.3	82.0
No. of hours	372	348	372	357	372	350	362	342	326	367	349	372

Table 151. Daily mean departures from balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization corrected to 760 mm Hg, on 75th west meridian time, Cheltenham Magnetic Observatory, 1945

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	81	96	78	61	84	63	53	53	55	62	70	81
2	85	94	74 ^b	57	80	62	54	54	60	67	62	74
3	86	92	69	64	73	69	60	55	62	70	70	80
4	83	80	74	61	78	70	56	57	61	71	80	82
5	89	80	72	67	84	73	53	54	59	70	71	77
6	86	79	71	66 ^e	79	69	53	55	58	69	63	75
7	79	82	75	...	72	69	55	55	56	67	66	79
8	83	87	77	...	72	66	58	59	59	64	66	76
9	88	84	76	70 ^d	75	61	54	60	58	71	61	80
10	89	79	77	66	76	57	54	57	60	72	66	89
11	89	81	73	66	72	56	60	57	63	69	69	87
12	79	81	71	68	64	58	59	53	62	65	66	91
13	75	74 ⁱ	66	61	64	60	53	55	64	65	68	82
14	77	86	66	68	62	55	55	56	60	71 ^b	76 ^c	80
15	80	79	56	69	59	55	55	59	62	...	84	82
16	84	75 ^b	56	65	65	54	55 ^a	64	62	...	70	90
17	82	82	58	65	63	57	...	61	57	59 ^e	67	87
18	83	84	66	74	65	61	54 ^d	61	52	61	73	83
19	80	89 ^d	61	78	71	62	53	58	56	63	72	83
20	82	81	65	73	67	63	54	57	58	70	76	84
21	83	76	73	71	61	60	55	54	61	66	74	86
22	83	73	77	71	62	63	55	52	64	65	79	85
23	93	85	71	68	68	57	59 ^h	57	57	65	89	86
24	94	86	66	61	74	59	...	53	58	65	82	77
25	92	82	66	63	68	60	57 ^d	55	56	65	80	69
26	94	78	65	67	70	64	53	55	59	72	78	73 ^f
27	85	78	68	74	64	60	55	48	61	67	75	77
28	85	81	57	73	64	55	56	49	62	66	78	73
29	88		53	74	63	58	51	53	61	66	85	74
30	91		63	74	68	51	51	60	66	71	83	82
31	95		66		68		54	59		68		85
Mean	85.2	82.2	67.9	67.7	69.5	60.9	55.0	56.0	59.6	67.0	73.6	80.9
No. of hours	372	321	370	327	372	360	331	372	360	341	357	366

Table 152. Daily mean departures from balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, Cheltenham Magnetic Observatory, 1946

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	84	86	50	46	52	41	38	18	36	51	46	63
2	80	88	51	38	52	43	33	24	41	44	46	68
3	66	81	55	46	55	47	31	23	49	40	45	71
4	69	73	50	51	53	46	32	23	49	41	50	70
5	67	57	52	57 ^c	48	52	29	25	39	43	54	65
6	64	35	53	61	38	43	32	29	37	40	46	70
7	63	28	53	62	35	27	29	32	38	39	46	68
8	68	24	56	57 ^g	33	29	32	30	41	45	51	66
9	66	30	60	58 ^f	36	32	31	29	38	47	49	64
10	69	41	49	61 ^c	36	37	30	31	45	42	44	64
11	72	47	56	60	30	34	35	35	50 ^d	38	43	66
12	73	46	53	59	40	32	38	35	50	38	54	59
13	84	43	51 ^b	57	41	35	37	33	49 ^f	43	59 ^h	68
14	82	49	51	51	38	40	36	31	...	45	...	68
15	81	41	54	45	38	41	38	27	...	42	53 ^d	72
16	80	40	57	51	34	45	...	27	49 ^g	41	41	59 ^b
17	84	50	60	50	40	41	32 ^d	28	38 ^b	42	48	62
18	81 ^b	55	62	51	41	36	32	33	34 ^h	44	56	72
19	82	49	65	56	42	37	30	34	...	51	52 ^c	69
20	82	48	64	53	41 ^c	32	32	39	25 ^h	46	53	58
21	80	51	58	53	...	28	36	45	25	44	53	62
22	82	52	56 ^e	47	36 ^d	27	34	41 ^a	8	44	58	72
23	79	59	54	46	41	39	27	43	8	43	62	63
24	80	62	52	47	38	35	26	43	17	44	46	67
25	79	66	49 ^g	51	38	36	74	40	23	48	45	78
26	78	63	...	54	42	37	41	40	31	47	46	65
27	82	61	...	58	44	42	-30	39	28	39	56	61
28	80	60	...	53	50	32	-12	38	29	47	59	56
29	77		30 ^f	49	51	32 ^c	-3	41	36	48	60	56
30	76		35	48	44	34	5	44	46	47	58	64
31	77		43		41		12	39		41		62
Mean	76.3	53.0	52.8	52.5	41.7	37.1	27.9	33.5	35.5	43.6	51.0	65.4
No. of hours	370	336	316	341	353	357	356	371	289	372	333	370

Table 153. Diurnal variation in departures from balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Cheltenham Magnetic Observatory, 1937

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan														
Feb														
Mar	692	724	732	709	702	720	715	715	722	678	709	672	708	12
Apr	602	593	602	602	607	620	615	619	603	570	569	565	597	30
May	521	516	510	508	540	540	549	548	533	520	505	524	526	31
Jun	361	358	357	342	346	372	366	350	347	352	348	370	356	30
Jul	368	386	389	386	404	403	414	390	377	372	380	371	387	31
Aug	340	349	362	376	369	381	389	363	366	351	349	345	362	31
Sep	434	460	447	453	455	463	456	455	476	449	446	443	453	30
Oct	512	512	514	513	515	513	520	523	513	512	524	494	514	31
Nov	641	622	635	635	632	639	644	649	653	646	642	631	639	30
Dec	681	667	680	674	703	716	716	723	710	705	687	685	696	29
I	661	644	658	654	668	678	680	686	682	676	664	658	668	59
II	560	572	574	569	570	579	576	578	578	552	562	544	568	103
III	398	402	404	403	415	424	430	413	406	399	396	402	408	123
Year	540	539	545	542	551	560	562	559	555	542	541	535	548	285

Table 154. Diurnal variation in departures from balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Cheltenham Magnetic Observatory, 1938

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	583	563	578	574	586	581	606	615	608	603	599	589	590	31
Feb	600	599	591	587	604	608	619	614	604	605	597	596	602	28
Mar	610	620	604	621	614	636	640	628	635	623	604	618	621	31
Apr	511	504	525	514	522	523	531	527	512	495	493	491	512	30
May	500	492	476	497	503	525	521	503	494	493	473	486	497	31
Jun	474	494	490	488	502	528	507	506	499	474	469	482	493	25
Jul	468	472	461	466	469	480	478	491	456	469	461	452	469	29
Aug	430	435	437	441	461	469	464	465	444	463	439	444	449	31
Sep	459	472	476	483	481	492	495	488	466	484	450	469	476	30
Oct	518	528	515	530	525	554	543	551	542	531	526	546	534	31
Nov	584	598	581	605	598	605	619	617	616	602	597	586	601	30
Dec	657	644	642	643	652	674	680	686	666	660	649	660	659	31
I	606	601	598	602	610	617	631	633	624	618	610	608	613	120
II	524	531	530	537	536	551	552	548	539	533	518	531	536	122
III	468	473	466	473	484	500	492	491	473	475	460	467	477	116
Year	533	535	531	537	543	556	558	557	545	542	529	535	542	358

Table 155. Diurnal variation in departures from balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Cheltenham Magnetic Observatory, 1939

Month	1	3	5	7	9	11	13	15	17	19	21	23	Complete days	No. of complete days
Jan	666	674	683	694	685	712	714	697	711	704	684	699	694	27
Feb	612	608	609	627	636	643	664	659	640	604	600	616	626	28
Mar	617	618	623	630	622	652	657	680	646	627	621	627	633	30
Apr	486	491	493	483	496	501	492	511	482	472	483	475	489	28
May	376	364	373	368	386	382	398	422	394	401	394	346	384	29
Jun	345	324	346	340	346	363	386	371	366	349	361	341	353	30
Jul	367	348	351	342	378	362	368	388	375	365	360	353	363	31
Aug	391	397	389	391	422	430	418	435	435	428	413	406	413	31
Sep	385	383	371	372	359	398	392	414	418	382	363	340	381	13
Oct	437	436	431	444	451	462	482	476	464	461	455	446	454	24
Nov	614	610	613	637	624	643	653	643	637	629	630	631	630	28
Dec	652	652	646	642	654	660	679	689	676	673	662	642	660	31
I	636	636	638	650	650	664	678	672	666	652	644	647	652	114
II	481	482	480	482	482	503	506	520	502	486	480	472	489	95
III	370	358	365	360	383	384	392	404	392	386	382	362	378	121
Year	496	492	494	497	505	517	525	532	520	508	502	494	506	330

Table 156. Diurnal variation in departures from balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Cheltenham Magnetic Observatory, 1940

Month	1	3	5	7	9	11	13	15	17	19	21	23	Complete days	No. of complete days
Jan	760	750	761	755	765	764	777	773	796	779	761	760	767	28
Feb	700	724	725	717	736	735	741	746	735	727	710	703	725	29
Mar	687	690	694	702	682	708	722	705	703	691	678	691	696	31
Apr	600	606	603	620	613	639	639	659	639	609	594	605	619	28
May	585	586	594	588	597	590	602	630	614	604	587	583	597	30
Jun	481	503	492	471	508	512	508	505	515	520	505	504	502	27
Jul	461	449	439	433	450	455	484	486	483	472	471	447	461	28
Aug	438	424	424	439	432	436	451	453	462	450	452	448	442	30
Sep	472	476	470	462	485	489	483	501	492	494	471	482	481	30
Oct	503	509	509	511	503	538	547	535	542	528	528	525	523	26
Nov	551	564	553	565	572	578	584	588	586	582	569	564	571	30
Dec	584	595	591	604	598	607	621	635	627	607	611	601	607	31
I	649	658	658	660	668	671	681	686	686	674	663	657	668	118
II	566	570	569	574	571	594	598	600	594	580	568	576	580	115
III	491	490	487	483	497	498	511	518	518	512	504	496	500	115
Year	569	573	571	572	579	588	597	601	599	589	578	576	583	348

Table 157. Diurnal variation in departures from balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Cheltenham Magnetic Observatory, 1941

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	623	592	640	611	647	660	656	684	651	668	691	666	650	9
Feb	717	741	722	723	726	716	728	763	751	738	724	731	732	14
Mar	669	668	670	664	664	674	702	693	693	684	661	655	675	31
Apr	577	571	590	584	588	594	594	603	597	580	569	565	585	30
May	559	546	559	553	547	580	571	575	567	555	554	554	560	31
Jun	448	485	454	462	481	468	502	497	488	473	458	445	472	30
Jul	424	433	422	427	420	448	436	447	426	436	423	431	431	30
Aug	435	423	449	441	450	469	474	461	449	455	435	439	448	31
Sep	448	423	429	428	431	463	447	449	441	430	444	431	439	30
Oct	527	509	503	508	517	528	546	536	539	522	527	527	524	29
Nov	617	612	607	619	612	632	645	627	640	621	621	625	623	30
Dec	635	637	636	627	639	650	674	680	661	652	651	644	650	31
I	648	646	651	645	656	664	676	688	681	670	672	666	664	84
II	555	543	548	546	550	565	572	570	568	554	550	545	556	120
III	466	472	471	471	474	491	496	495	482	480	468	467	478	122
Year	556	554	557	554	560	573	581	584	577	568	563	559	566	326

Table 158. Diurnal variation in departures from balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Cheltenham Magnetic Observatory, 1942

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	737	734	739	744	755	767	765	794	763	763	754	744	755	30
Feb	739	771	767	785	812	801	823	828	812	798	791	787	796	28
Mar	632	619	617	611	601	616	609	600	608	613	597	610	611	28
Apr	611	607	638	602	624	637	624	622	611	617	608	596	616	30
May	600	582	594	589	589	610	601	630	622	602	609	617	604	30
Jun	559	554	557	557	556	560	565	564	564	557	563	557	559	30
Jul	474	467	467	463	469	491	496	500	490	499	489	483	482	30
Aug	491	486	487	478	504	514	522	532	514	524	532	490	506	31
Sep	538	542	525	534	528	534	553	549	538	529	537	536	537	29
Oct	593	623	590	605	611	618	615	636	625	608	616	610	613	26
Nov	680	660	680	680	686	687	700	711	706	692	701	690	690	30
Dec	778	783	763	766	778	806	804	819	810	797	778	781	789	31
I	734	737	737	744	758	765	773	788	773	762	756	750	758	119
II	594	598	592	588	591	601	600	602	596	592	590	588	594	113
III	531	522	526	522	530	544	546	556	548	546	548	537	538	121
Year	620	619	618	618	626	637	640	649	639	633	631	625	630	353

Table 159. Diurnal variation in departures from balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, for days with complete records by months, seasons, and year, Cheltenham Magnetic Observatory, 1943

Month	1	3	5	7	9	11	13	15	17	19	21	23	Complete days	No. of complete days
Jan	764	774	767	763	776	786	805	805	796	779	775	780	781	31
Feb	807	792	801	816	816	824	843	846	819	820	820	812	818	27
Mar	761	754	754	758	769	787	790	803	781	762	751	742	768	29
Apr	719	735	719	709	725	738	748	743	726	732	715	725	728	30
May	627	614	595	599	610	635	655	652	637	627	613	606	623	31
Jun	544	548	523	509	534	544	558	557	553	543	532	531	540	29
Jul	456	448	443	449	453	459	477	491	495	496	451	452	464	28
Aug	400	412	412	439	438	442	458	434	435	431	414	417	428	31
Sep	491	498	488	480	485	484	490	504	484	482	497	497	490	30
Oct	540	530	544	530	558	561	565	581	579	559	553	548	554	29
Nov	655	656	639	670	653	676	669	701	708	689	675	670	672	28
Dec	712	711	705	730	715	727	753	752	743	730	732	725	728	29
I	734	733	728	745	740	753	768	776	766	754	750	747	750	115
II	628	629	666	619	634	642	648	658	642	634	629	628	635	118
III	507	506	493	499	509	520	537	534	530	524	502	502	514	119
Year	623	623	616	621	628	639	651	656	646	637	627	626	633	352

Table 160. Diurnal variation in departures from balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Cheltenham Magnetic Observatory, 1944

Month	1	3	5	7	9	11	13	15	17	19	21	23	Complete days	No. of complete days
Jan	763	735	727	748	748	739	782	785	771	757	759	764	756	31
Feb	794	774	784	774	792	800	797	807	805	778	784	783	789	29
Mar	777	770	759	764	783	765	782	770	769	759	779	761	770	31
Apr	723	723	717	739	725	724	747	751	733	726	701	705	726	29
May	661	674	667	661	657	664	660	665	679	670	672	668	666	31
Jun	606	613	600	600	608	624	617	618	628	611	594	611	611	27
Jul	593	593	593	608	611	591	592	598	596	578	577	589	593	29
Aug	553	555	560	569	565	573	590	569	577	562	571	545	567	25
Sep	640	656	633	636	641	649	657	657	633	633	629	639	642	23
Oct	687	714	703	698	701	697	702	684	683	700	694	700	697	29
Nov	807	779	786	804	804	813	813	822	812	815	808	798	805	27
Dec	811	822	821	825	837	829	835	834	827	809	798	792	820	31
I	794	778	780	788	795	795	807	812	803	790	787	784	792	118
II	707	716	703	709	712	709	722	716	704	704	701	701	709	112
III	604	609	605	610	610	613	615	612	620	605	604	603	609	112
Year	701	701	696	702	706	706	715	713	709	700	697	696	703	342

Table 161. Diurnal variation in departures from balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Cheltenham Magnetic Observatory, 1945

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	846	856	856	839	850	853	865	850	863	857	843	848	852	31
Feb	829	828	823	823	810	833	826	836	824	816	819	840	826	25
Mar	660	665	665	679	697	685	685	688	695	665	665	677	677	30
Apr	675	675	654	665	686	688	689	695	678	681	661	675	677	26
May	692	669	698	694	696	701	699	702	700	705	699	682	695	31
Jun	598	611	610	590	614	619	623	624	611	599	594	605	608	30
Jul	543	543	525	533	540	560	562	577	566	551	529	544	548	25
Aug	539	541	553	535	541	557	585	589	584	568	558	568	560	31
Sep	583	608	578	592	584	584	618	627	620	594	592	580	596	30
Oct	678	643	660	673	689	682	673	681	685	659	651	676	671	27
Nov	741	735	714	727	718	736	749	731	733	746	736	724	732	29
Dec	794	798	797	805	810	827	828	836	813	810	812	816	812	30
I	802	804	798	798	797	812	817	813	808	806	802	807	806	115
II	649	648	639	652	664	660	666	673	670	650	642	652	655	113
III	593	591	596	588	598	609	617	623	615	606	595	600	603	117
Year	681	681	678	679	686	694	700	703	698	687	680	686	688	345

Table 162. Diurnal variation in departures from balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 75th west meridian time, for days with complete records; by months, seasons, and year, Cheltenham Magnetic Observatory, 1946

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	743	749	755	756	771	778	780	759	769	770	752	755	761	30
Feb	505	493	519	506	525	546	559	560	548	548	527	516	529	28
Mar	522	526	514	519	541	534	570	552	563	556	532	524	538	24
Apr	499	510	498	501	513	545	538	552	518	512	507	503	516	26
May	398	406	414	421	420	436	442	420	440	417	392	400	417	28
Jun	369	336	342	347	371	376	387	403	385	389	378	391	373	29
Jul	258	253	242	259	270	270	350	317	297	284	270	258	277	29
Aug	318	323	309	303	309	334	365	352	332	353	356	333	332	30
Sep	329	344	340	308	315	349	348	356	337	350	352	339	339	21
Oct	440	438	420	416	435	440	437	443	449	453	435	434	437	31
Nov	507	515	500	509	510	517	504	521	502	486	489	503	505	26
Dec	660	657	664	659	633	669	665	667	652	641	646	661	656	30
I	604	604	610	608	610	628	627	627	618	611	604	609	613	114
II	448	454	443	436	451	467	473	476	467	468	456	450	457	102
III	336	330	327	332	342	354	366	373	364	361	349	346	350	116
Year	463	463	460	459	468	483	495	492	483	480	470	468	474	332

Table 163. Frequency distribution of bursts according to size by four-hourly 75th west meridian time intervals, burst-sizes in units of 0.1 per cent of the total ions produced per hour by cosmic rays, Cheltenham Magnetic Observatory, 1942

Month	Hour	0	6	7	8	9	10-19	20-29	30-39	40-49	> 50	6-9*	10-19*	20-29*	30-39*	40-49*	Sums	No. of complete hours
Jan-Feb	1- 4	227	3			1	6	1									238	236
	5- 8	216	4	3	3	2	9	3									240	235
	9-12	228	1				5	1									235	234
	13-16	222	6	3	2	4	3		1								241	236
	17-20	220	2	2	3	3	6		1								237	236
	21-24	227	1		2	1	4				• 1						236	236
Mar-Apr	1- 4	224	2			4	4	1	1								236	236
	5- 8	216	4	3	2	3	9										237	236
	9-12	226	2	4		2	4	3									241	240
	13-16	223	4	2	1	1	5	3									239	237
	17-20	230	3		1		3	1									238	236
	21-24	220	6	1	1	1	8										237	236
May-Jun	1- 4	230	5	4	1	2	3										245	244
	5- 8	224	2	2	1	3	8	3									243	240
	9-12	226	9	2	3	2	2	2		1							247	244
	13-16	230	4	4		1	4	1									244	243
	17-20	234	4	3	1		2	1									245	244
	21-24	229	6		3	1	3	1	1								244	244
Jul-Aug	1- 4	235	2	3	1		8	1									250	248
	5- 8	226	4	1	1	5	4	1			1						243	243
	9-12	239	3	2	4		1										249	246
	13-16	236	2	2	1		6	1	1								249	248
	17-20	225	5	2	3	2	7	1									245	245
	21-24	233	4	3	2	2	1										245	245
Sep-Oct	1- 4	220	4	1	1	1	2										229	228
	5- 8	214	4	4		2	5										229	227
	9-12	213		4	1	1	3		1								224	223
	13-16	205	3	2	1	1	7	2									221	219
	17-20	216	1	1	3	3	4	1									229	228
	21-24	209	7	5	1	1	2	1	3								229	228
Nov-Dec	1- 4	220	4	6	1		7	5	1								244	244
	5- 8	230	4	2		3	7										246	243
	9-12	230	6	1		2	5		1		1						246	244
	13-16	224	3	2	4	3	7	2									245	243
	17-20	227	5	5	1	1	4	1			1						245	243
	21-24	230	2	3	2	6	1	1	1								246	244
Year	1-24	8084	131	82	51	64	169	39	12	1	4						8637	8582

Table 164. Frequency distribution of bursts according to size by four-hourly 75th west meridian time intervals, burst-sizes in units of 0.1 per cent of the total ions produced per hour by cosmic-rays, Cheltenham Magnetic Observatory, 1943

Month	Hour	0	6	7	8	9	10-19	20-29	30-39	40-49	>50	6-9*	10-19*	20-29*	30-39*	40-49*	Sums	No. of complete hours
Jan-Feb	1- 4	221	5	2	1	3	5	1									238	236
	5- 8	219	4	7	4	1	6										241	235
	9-12	213		4	2	6	8	2									235	234
	13-16	213	5	3	5	2	6	2	1								237	232
	17-20	223	5			2	7				1						238	236
	21-24	218	4	4	2*	1	10			1							240	236
Mar-Apr	1- 4	220	6	2	2	6	8	1									245	240
	5- 8	224	8	2		2	6										242	241
	9-12	221	4	6		2	9	2		1							245	243
	13-16	233	3	2	2		4		2		1						247	244
	17-20	223	2	6	2	7	3	1									244	242
	21-24	226	1	3		4	7	1									242	240
May-Jun	1- 4	229	4	1	3	1	6										244	244
	5- 8	228	5	2		5	2	2									244	242
	9-12	228	5	2	2		6		1								244	242
	13-16	224	3	4	1	3	4	2	2		1						244	242
	17-20	234	2			2	6										244	244
	21-24	227	3	5		1	4	4									244	242
Jul-Aug	1- 4	228	3		3	2	4										240	240
	5- 8	230	2	2	2	1	5	1	1								244	240
	9-12	234	3	1	1		4	1		1							245	244
	13-16	227	1	1	1	3	5	3			1						242	242
	17-20	226	4	1	3	3	5	1									243	240
	21-24	231	2		2	1	4	1									241	240
Sep-Oct	1- 4	226	3	3		5	4										241	240
	5- 8	227	3	2	3		4			1							240	239
	9-12	225	3	4		1	7	2		1							243	240
	13-16	227	1	3		2	7	2									242	240
	17-20	228	4	3			5	1									241	240
	21-24	229	2	2	1	1	4	2									241	240
Nov-Dec	1- 4	225	1	2		2	4	2									236	236
	5- 8	221	2	1	1	4	8	1									238	236
	9-12	226	1		2	1	5										235	235
	13-16	215	9	1	1	3	4										233	230
	17-20	225	2	2	2		5				1						237	236
	21-24	222	3	1	5	1	5				1						238	236
Year	1-24	8096	118	84	53	78	196	35	7	5	6						8678	8609

Table 165. Frequency distribution of bursts according to size by four-hourly 75th west meridian time intervals, burst-sizes in units of 0.1 per cent of the total ions produced per hour by cosmic rays, Cheltenham Magnetic Observatory, 1944

Month	Hour	0	6	7	8	9	10-19	20-29	30-39	40-49	>50	6-9	10-19	20-29	30-39	40-49	Sums	No. of complete hours
Jan-Feb	1- 4	225	4	1		1	8	1		1							241	240
	5- 8	220	6	2		5	4				1						238	238
	9-12	227	3	2	1	2	6	1									242	240
	13-16	226	5	3		4	1	1	2								242	238
	17-20	235	3			1	2				1						242	240
	21-24	234	3		1	1	2										241	240
Mar-Apr	1- 4	228	3	4	1	3	8	1	1								249	244
	5- 8	221	1	2	2	2	6	2	0		1						237	235
	9-12	217	5	3	4	4	6	1									240	239
	13-16	227	5	2	3	5	2	1		1							246	242
	17-20	232	3	4	2		7	1									249	244
	21-24	221	2	5	2		12	2									244	243
May-Jun	1- 4	228	5	4	2		4	1									244	241
	5- 8	222	1	3	3	1	4										234	233
	9-12	224	1	3	1	1	2	2									234	236
	13-16	223	1	2	2	1	6				1						236	236
	17-20	227	1	4	2		4				1						239	238
	21-24	221	2	3	1	1	4		1		1						234	233
Jul-Aug	1- 4	225	3	4	1	2	3	2									240	240
	5- 8	209	6	3	1	2	6		1								228	228
	9-12	209	2	3	1	3	11		1		1						231	231
	13-16	212	3	2	2	3	2	1									225	223
	17-20	219	5	2	2	3	2			1							234	232
	21-24	219	2	1	5	3	4		1	2							237	237
Sep-Oct	1- 4	222	3	3	1	3	4		1								237	236
	5- 8	210	6			2	6	1	1	1	1						228	225
	9-12	220	6	2	1	3	4	2									238	232
	13-16	209	7	5	2	4	7										234	233
	17-20	223	5	4		2	2	1									237	237
	21-24	215	4	1		4	4	1	1								230	230
Nov-Dec	1- 4	224	4	5	1	2	5		1								242	240
	5- 8	221	6	4	1	3	6										241	238
	9-12	218	5	4	7		8	2			3						247	243
	13-16	221	5	5	1	3	6	2	1								244	241
	17-20	218	8	2	2	1	11	1			1						244	240
	21-24	226	7	3	2		6				1						245	240
Year	1-24	7978	141	100	57	75	185	27	12	6	13						8594	8526

Table 166. Frequency distribution of bursts according to size by four-hourly 75th west meridian time intervals, burst-sizes in units of 0.1 per cent of the total ions produced per hour by cosmic rays, Cheltenham Magnetic Observatory, 1945

Month	Hour	0	6	7	8	9	10-19	20-29	30-39	40-49	>50	6-9*	10-19*	20-29*	30-39*	40-49*	Sums	No. of complete hours
Jan-Feb	1- 4	212	6	6	2	3	7			1							237	236
	5- 8	204	6	3	1	4	4	1									223	221
	9-12	214	6	6	1	2	3	5									237	235
	13-16	220	2	3	1	3	6	1			1						237	236
	17-20	221	4	3		3	4		1								236	236
	21-24	221	2	3		1	7	2									236	236
Mar-Apr	1- 4	219	3	1		3	3		1	1							231	231
	5- 8	211	2	1		4	8	3	1		1						231	229
	9-12	220	1	2	2	1	7		1								234	233
	13-16	211	1	9	1		7	1		1							231	229
	17-20	216	7	3		1	3	2									232	231
	21-24	221	2	2	1	1	4		1								232	230
May-Jun	1- 4	227	7	2	1	1	7										245	244
	5- 8	221	3	3	3	1	5										236	236
	9-12	223	2	2	2	5	11	2									247	243
	13-16	235	1	1	1	1	4	1									244	244
	17-20	226	3	4		1	3	7									244	244
	21-24	223	8		3	2	9				1						246	244
Jul-Aug	1- 4	225	3	3	1	1	4	4									241	240
	5- 8	223	3	1	2	3	6			1							239	237
	9-12	234	1	1		2	6										244	242
	13-16	229	1	4	3	1	3	2									243	243
	17-20	230	1	2		3	5	1	2								244	244
	21-24	229	1	3			9	2									244	243
Sep-Oct	1- 4	220	4	1	1	1	4	1									232	232
	5- 8	222	3		2		4	2									233	232
	9-12	223	0	4		2	3	1									233	232
	13-16	227	2	1	2	1	4										237	235
	17-20	224	2	1	4	1	4	1									237	236
	21-24	223	1	1	4		3	1	1								234	232
Nov-Dec	1- 4	227	5	1	3		8	1									245	244
	5- 8	218	6	2	1	1	12	3	1								244	241
	9-12	219	7	4	1	2	7	2	1	1							244	242
	13-16	237	1	1	1	3	3	1									247	244
	17-20	220	5	2	1	4	10	1	2								245	244
	21-24	227	6	6	4	2	4										249	244
Year	1-24	8002	118	92	50	66	205	41	12	5	3						8594	8545

Table 167. Frequency distribution of bursts according to size by four-hourly 75th west meridian time intervals, burst-sizes in units of 0.1 per cent of the total ions produced per hour by cosmic rays, Cheltenham Magnetic Observatory, 1946

Month	Hour	0	6	7	8	9	10-19	20-29	30-39	40-49	>50	6-9*	10-19*	20-29*	30-39*	40-49*	Sums	No. of complete hours
Jan-Feb	1- 4	220	3	2	1	3	3	1		2							235	235
	5- 8	219	6	3	1	2	9										240	234
	9-12	212	8	3	1	2	14	2	2								244	235
	13-16	216	3	2	1	6	5	2									235	234
	17-20	217	4	1		1	9				1						233	231
	21-24	220	7	1		4	6	1			1						240	236
Mar-Apr	1- 4	226	9	1	1	1	6		1								245	244
	5- 8	230	2		2	3	6		1		1						245	244
	9-12	226	3	3			3	2									237	237
	13-16	217	4	3	2	1	7	4	2								240	239
	17-20	221	7	7	2	1	1	1			1						241	241
	21-24	229	6	3	1		7										246	244
May-Jun	1- 4	223	3	2	2		6	2									238	237
	5- 8	223	4	6	1		5										239	236
	9-12	219	3	3	3	1	7	6	1								243	240
	13-16	221	7		4		6	1									239	237
	17-20	221	4	3	2		7	1	1								239	237
	21-24	226	1	3	1	4	6	1		1							243	238
Jul-Aug	1- 4	227	4	2	1	2	2	1	2								241	241
	5- 8	230	4	2	1	1	1				1						240	240
	9-12	221	5	2	4		10	2	2								246	243
	13-16	221	6	2	2	3	11										245	244
	17-20	233	3	3		1	4										244	242
	21-24	235	2	3	2		5	2		1							250	244
Sep-Oct	1- 4	219	4	2	1	1	4	1	1								233	232
	5- 8	213	2	1	2		10	2									230	227
	9-12	210	7	2			8										227	226
	13-16	215		4	2		11	1									233	230
	17-20	219	2	2	2		8	1	1								235	232
	21-24	216	3	1	2		9	2	1								234	232
Nov-Dec	1- 4	222		4	2		7	1	1								237	236
	5- 8	221	3	1	1		10	1	2								239	236
	9-12	218	3	4	3		5	1	1								235	234
	13-16	228	2	1	2		2										235	233
	17-20	227	1	2	3		4										237	235
	21-24	224	1	2	3	2	2	2		1							237	236
Year	1-24	7985	136	86	58	39	226	41	19	5	5						8600	8522

Table 167. Frequency distribution of bursts according to size by four-hourly 75th west meridian time intervals, burst-sizes in units of 0.1 per cent of the total ions produced per hour by cosmic rays, Cheltenham Magnetic Observatory, 1946

Month	Hour	0	6	7	8	9	10-19	20-29	30-39	40-49	>50	6-9*	10-19*	20-29*	30-39*	40-49*	Sums	No. of complete hours
Jan-Feb	1- 4	220	3	2	1	3	3	1		2							235	235
	5- 8	219	6	3	1	2	9										240	234
	9-12	212	8	3	1	2	14	2	2								244	235
	13-16	216	3	2	1	6	5	2									235	234
	17-20	217	4	1		1	9				1						233	231
	21-24	220	7	1		4	6	1			1						240	236
Mar-Apr	1- 4	226	9	1	1	1	6		1								245	244
	5- 8	230	2		2	3	6		1		1						245	244
	9-12	226	3	3			3	2									237	237
	13-16	217	4	3	2	1	7	4	2								240	239
	17-20	221	7	7	2	1	1	1			1						241	241
	21-24	229	6	3	1		7										246	244
May-Jun	1- 4	223	3	2	2		6	2									238	237
	5- 8	223	4	6	1		5										239	236
	9-12	219	3	3	3	1	7	6	1								243	240
	13-16	221	7		4		6	1									239	237
	17-20	221	4	3	2		7	1	1								239	237
	21-24	226	1	3	1	4	6	1		1							243	238
Jul-Aug	1- 4	227	4	2	1	2	2	1	2								241	241
	5- 8	230	4	2	1	1	1				1						240	240
	9-12	221	5	2	4		10	2	2								246	243
	13-16	221	6	2	2	3	11										245	244
	17-20	233	3	3		1	4										244	242
	21-24	235	2	3	2		5	2		1							250	244
Sep-Oct	1- 4	219	4	2	1	1	4	1	1								233	232
	5- 8	213	2	1	2		10	2									230	227
	9-12	210	7	2			8										227	226
	13-16	215		4	2		11	1									233	230
	17-20	219	2	2	2		8	1	1								235	232
	21-24	216	3	1	2		9	2	1								234	232
Nov-Dec	1- 4	222		4	2		7	1	1								237	236
	5- 8	221	3	1	1		10	1	2								239	236
	9-12	218	3	4	3		5	1	1								235	234
	13-16	228	2	1	2		2										235	233
	17-20	227	1	2	3		4										237	235
	21-24	224	1	2	3	2	2	2		1							237	236
Year	1-24	7985	136	86	58	39	226	41	19	5	5						8600	8522

Table 170. Daily mean departures from balance (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°5 east meridian time, Christchurch Magnetic Observatory, 1938
(All values positive except as indicated)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	4	- 4	1	4	15	21	40	36	22	-13	9	- 1
2	0	- 5	0	1	16	20	37	36	23	- 9	13	- 3
3	- 4	- 2	5	0	17	23	39	38	25	- 4	12	2
4	- 5	- 1	11	1	14	27	34	36	30	5	9	9
5	1	- 3	11	7	11	28	32	22	23	4	6	5
6	0	-10	12	6	17	23	32	22	22	14	5	8
7	1	- 9	2	2	18	19	31	25	23	17	6	8
8	1	-15	- 2 ^b	- 5	21	19	32	26	23	9	6	5
9	7	-13	- 7 ^h	3	16	11	36	28	24	7	10 ^d	8
10	11	-11	9	0	19	11	31	31	23	12	6	3
11	0	-12	16 ^d	- 2	18	20	34	24	23	18	2	0
12	3	-22	14 ^d	- 4	9	20	32	21	20	15	6	-10
13	1	- 9	...	1	0	21	35	23	19	14	2	-10
14	1	- 7	- 4 ^d	-20	7	22	32	28	16	14	7	- 9
15	- 1	- 7	2	-10	4	27	28	26	14	13	0	- 5
16	- 1	- 8	5	- 8	6	26	28	29	14	15	- 2 ^a	1
17	-12	- 6	3	- 9	10	29	31	30	18	14	- 6	- 1
18	-37 ^b	- 6	7	- 6	10	23	26	34	25	10	- 1	- 4
19	-25	- 4	3	- 8	15	29	32	31	22	3	3	- 2
20	-23	- 3	3	- 2	22	29	32	31	22	7	6	- 5
21	-21	- 3	5	5	20	33	31	29	23	10	1	0 ^b
22	-23	- 2	8	9	23	35	30	26	19	10	15	4 ^h
23	-28	- 3	0	8	24	34	26	26	14	13	11	2
24	-17	- 2	0	3	24	32	29	24	14	15	- 1	0
25	- 7	- 2	1	5	24	35	29	23	17	11	- 4	5
26	-27	- 2	- 3	8	18	34	26	17	18	9	2	7
27	-14	- 1	- 2	7	24	29	31	14	13	8	3	1
28	-11	0	5	7	23	30	35	14	5	10	1	-11
29	- 8		17	11	13	35	38	12	3	11	- 1	- 5
30	- 5		7	9	19	34	36	18	- 2	15	- 2	2
31	- 1		4		20		35	19		12		5
Mean	- 7.7	- 5.5	4.3	0.8	16.0	25.1	32.3	25.8	18.5	9.3	4.1	0.3
No. of hours	370	336	342	360	372	360	372	372	360	372	355	362

Table 171. Daily mean departures from balance (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°5 east meridian time, Christchurch Magnetic Observatory, 1938
(All values negative except as indicated)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	+ 7	11	12	15	8	4	9	+11	+ 2	1	6	8
2	+ 2	10	19	9	19	6	3	+12	+ 1	+ 2	1	5
3	+ 2	12	18	5	17	5	0	+13	+ 5	1	+ 1	7
4	+ 2	12	17	+ 2	17	3	+ 4	+15	+ 4	13	5	11
5	2	12	15	+ 1	16	7	+ 6	+17	+ 3	17	8	13
6	1	12	17	2	22	7	+ 2	+16	+ 2	12	14	13
7	2	7	15	5	25	7	+ 4	+11	+ 1	13	17	8
8	+ 1	10	14	3	21	4	+ 8	+10	1	13	13	8
9	4	14	9	7	20	0	+11	+16	4	11	4	9
10	+ 4	15	11	12	20	+ 4	+ 9	+17	8	12	2	11
11	5	11	8	15	18	+ 6	+ 6	+23	10	7	+ 2	6
12	8	8	11	15	16	+ 7	2	+20	9	6	+ 6	8
13	+ 2	8	13	12	8	+ 7	5	+14	1	4	1	6
14	1	11	9	12	9	7	3	+12	4	17	2	12
15	+ 3	6	12	16	10	5	4	+ 7	6	15	2	6
16	+ 6	12	14	16	6	3	+ 3	0	2	15	6	4
17	2	20 ^f	19	20	12	+ 4	+ 6	+ 4	2	10	4	9
18	10	22	15	19	15	+ 2	+ 6	+ 5	3	10	5	5
19	8	17	13	18	16	2	+ 5	+ 4	+ 1	11	3	9
20	6	12	11	16	12	5	+ 4	+ 5	+ 4	3	5	10
21	2	9	13	12	4	1	+ 5	+ 2	0	5	4	7
22	5	8	12	12	10	0	+ 3	6	+ 1	8	1	10
23	9	12	12	14	11	+ 3	+10	19	1	12	0	12
24	1	16	11	31	14	+ 3	+14	3	+17	15	0	9
25	5	18	7	37	14	+ 5	+15	3	+ 5	9	+ 2	8
26	1	17	7	37	1	0	+18	+ 3	+ 4	3	1	3
27	0	17	7	25	5	0	+12	+ 4	+ 5	0	6	6
28	1	14	4	16	8	1	+10	+ 4	2	6	7	9
29	+ 1		3	15	13	+ 1	+14	+ 5	+ 1	4	8	17
30	4		13	13	7	8	+15	+ 5	0	+ 3		
31	11		17		3		+10	+ 5		1		16
Mean	1.9	12.6	12.2	14.2	12.8	1.1	+ 5.6	+ 7.2	0.2	8.0	4.0	8.9
No. of hours	372	330	372	360	372	360	372	372	360	372	360	372

Table 172. Daily mean departures from balance (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°.5 east meridian time, Christchurch Magnetic Observatory, 1940
(All values negative except as indicated)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	11	6	15	41	1	+ 2	1	8	11	9	12	26
2	1	10	15	23	1	0	4	5	5	7	17	22
3	5	5	14	16	3	+ 3	+ 2	10	5	14	1	22
4	8	7	7	25	6	+12	0	7	7	13	21	23
5	17	13	9	16	+ 2	+12	0	7	10	11	11	19
6	17	18	5	14	+ 5	+ 7	0	7	10	12	4	15
7	13	6	1	10	+ 5	+ 4	+ 3	8 ^a	12	15	1	15
8	10	4	7	10	+ 5	1	1	2 ^f	11	9	8	21
9	13	7	13	8	+ 6	1	1	3	12	9	12	22
10	12	3	6	1	+ 7	+ 6	3	3	8	8	15	22
11	12	8	4	+ 3	+ 5	+ 6	3	4	6	10	17	20
12	13	3	14	+ 3	+ 3	+ 3	2	6	7	14	22	20
13	7	+ 1	13	0	+ 4	+ 4	+ 1	5	6	17	24	18
14	10	+ 2	14	7	+ 9	+ 4	+ 2	4	11	8	24	21
15	9	4	13	5	2	0	+ 1	1	8	17	20	17
16	15	10	8	3	+ 5	2	+ 2	0	7	17	18	21
17	12	12	6	+ 1	+ 1	1	+ 1	+ 5	8	11	23	22
18	11	7	10	0	3	2	+ 2	1	10	8	19	17
19	11	11	11	+ 3	+ 8	1	+ 3	3	11	10	18	22
20	12	8	9	0	+ 6	+ 2	+ 2	3	12	18	14	31
21	13	10	7	+ 4	+ 8	+ 5	+ 2	9	6	20	13	24
22	13	15	2	5	+ 6	+ 4	+ 2	7	12	23	12	22
23	16	22	2	2	+ 2	+ 3	+ 3	3	14	24	14	25
24	15	18	12	5	14	+ 3	0	3	18	19	23	20
25	19	11	25	4	13	2	1	4	19	12	20	18
26	13	9	16	8	4	15	2	5	17	23	25	25 ^h
27	10	14	12	8	0	13	3	7	16	22	23	24 ^h
28	8	17	15	6	+ 3	7	3	9	16	16	22	28 ^d
29	5	20	11	6	+ 4	3	6	11	17	10	20	32
30	0		16	3	5	+ 2	5	7	13	8	21	27
31	3		33		+ 3		13	9		11		21
Mean	10.8	9.5	11.1	7.1	+ 1.8	+ 1.1	0.3	5.0	10.8	13.7	16.5	22.0
No. of hours	372	348	372	360	372	360	372	365	360	372	360	360

Table 173. Daily mean departures from balance (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°.5 east meridian time, Christchurch Magnetic Observatory, 1941
(All values negative except as indicated)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	33	29	32	27 ^e	22	15	9	10	22	16	16	38
2	34	28	49	33	20	15	11 ^b	3	23	17	16	51
3	34	28	44	29	17	14	15	6	22	12	16	42
4	33	30	39	23	17	10	15	5	17	12	24	42
5	34	23	38	21	15	2	22	17	11	15	30	41
6	32	33	33	19	21	3	32	20	10	17	30	41
7	35	37	26	10	22	1	26	16 ^b	9	17	24	35
8	31	37	29	6	17	+ 3	19	12	8	19	16	33
9	33	31	30	7	21	6	13	4	13	18	16	34
10	26	30	31	11	19	12	14	2	11	15	26	32
11	25	32	29	22	19	12 ^d	9	4	18	16	25	28
12	17	31	30	25	21	9 ^h	9	6	15	18	24	31
13	18	25	29	15	23	8	9	7	8	18	10	28
14	16	18	30	10	17	9	5	2	12	18	11	31
15	20	20	26	11	13	6	8	1	20	20	17	34
16	29	23	24	16	20	8	9	2	20	18	19	22
17	31	27	23	22	18	3	11	5	19	14	11	15
18	36	29	24	23	8	3	13	7	18	16	9	15
19	34	34	22	22	6	4	11	4	31	17	24	17
20	34	33	28	23	8	6	13	3	37	19	31	24
21	28	32	24	22	13	5	16	5	29	16	28	30
22	32	33	23	18	20	3	16	8	22	9	26	17
23	31	36	27	14	21	4	14	9	24	9	28	16
24	31	32	24	21	26	10	15	11	30	9	25	17
25	34	34	29	28	24	14	12	9	25	11	24	23
26	35	31	28	25	19	6	4	11	19	16	21	16
27	34	26	25	21	14	9	6	10	16	19	22	20
28	25	25	18	21	13	5	4	10	15	19	20	28
29	22		22	21	7	10	7	18	20	23	19	32
30	23		25 ^h	20	4	13	3	21	19	16	29	32
31	24				12		6	21		12		23
Mean	29.2	29.5	28.9	19.5	16.7	7.4	12.1	8.7	18.8	15.8	21.2	28.6
No. of hours	372	336	364	360	372	348	370	370	360	372	360	372

Table 174. Daily mean departures from balance (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°.5 east meridian time, Christchurch Magnetic Observatory, 1942
(All values negative except as indicated)

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	13	26	27	43	30	...	24	18	29			
2	15	22	76	48	26	13 ^d	28	20	24			
3	18	20	56	43	31	13	27 ^d	22	26			
4	21	20	63	44	36	14	23	19	22			
5	30	20	56	42	34	18	22	17 ^b	28			
6	23	27	61	38	35	19	16	12	34			
7	18	32	44	30	30	16	13	16 ^d	33			
8	25	33	49	18	23	14	13	16	28			
9	26	34	54	24	17	15	24	16	24			
10	22	35	61	34	15	19	25	19	20			
11	22	34	54	36	16	17	32	25	20			
12	30	35	48	34 ^b	15	18	36 ^f	21	19			
13	28	32	44	31	17	17	34 ^f	21	22			
14	30	33	36	28	21	25	31	18	30			
15	31	32	29	34	21	25	24	17 ^b	29			
16	37	29	34	41 ^c	21	22	22	22	32			
17	33	31	36	26	20	24	23	25	30			
18	27	27	37	21	22	29	21	24	28			
19	25	27	42	26	23	30	20	27	29			
20	29	26	38	29	20	35	21	22	28			
21	31	31	34	27	25	36	25	29	28			
22	28	24	38	22	22	28	25	28	32			
23	27	33	32 ^d	23	20	24	23	22	24			
24	30	41	34	23	11	26	24	19	19			
25	32	34	33 ^g	28	15	21	20	21	17			
26	28	33	34	28	29 ^b	24	19	20	17			
27	29	33 ^g	37	25	21	23	24	17	22 ^a			
28	34	36	42	22	22	21	20	20	24 ^d			
29	35		40	28	24	22	16	20	23 ^h			
30	35		40	31	22	20	16	25	...			
31	31		45		21 ^d		14	27				
Mean	27.2	30.0	43.7	30.9	22.7	21.7	22.7	20.8	25.6			
No. of hours	372	329	361	355	366	344	362	364	335			

Table 175. Daily mean departures from balance (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°.5 east meridian time, Christchurch Magnetic Observatory, 1943
(All values negative except as indicated)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1		38	32	39	37	30	28	34	46			
2		35	38	43	40	34	29	33	50			
3		39	35	37	41	32	32	32	45			
4		47	41	34	37	27	32	28	43			
5		52	44	34	29	26	37	27	46			
6		51	44	41	29	29	41	27	48			
7		44	41	42	21	34	40	31	47			
8		34	40	40	18	33	34	35	48			
9		28	40	44	23	28	32	36	48			
10		28	28	37	32	25	31	38	49			
11		34	30	44	33	29 ^d	37	39	50			
12		31	37	38	36	29 ^d	36	35	53			
13		37 ^b	44	44	36	30	40	35	55 ^g			43 ^h
14		36 ^e	39	40	36	33	43	36				54
15		39	37	41	35	33	45	43				54
16	37 ^e	36	33	41	29	37	46	44				49
17	37	39	39	43	29	33	45	43				50
18	40	46	35	41	37	32	42	41				49
19	37	45	32	40	37	28	39	40				47
20	29	51	41	35	34	27	39 ^h	38				50
21	36	46	38	33	35	31	31 ^f	35				52
22	32	47	36	31	35	29	33	36				54
23	35	50	40	36	36	31	37	34				57
24	34	43	42	36	27	27	37	37				51
25	37	36	39	29	30	24	39	34				52
26	41 ^d	33	39	24	29	26	36	40				44
27	36	39	44	33	32	24	31	41				43
28	40	37	40	35	33	27	34	43				44
29	43		42	37	31	26	35	42				48
30	38		44	38	30	23	39	46				48
31	34		40		30		35	52				55
Mean	36.6	40.0	38.5	37.7	32.2	29.2	36.6	37.3	48.3			49.7
No. of hours	183	329	372	360	372	352	358	372	149			220

Table 176. Daily mean departures from balance (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°.5 east meridian time, Christchurch Magnetic Observatory, 1944
(All values negative except as indicated)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	60	55	53	46	34	33	23	40	44	59	49	56
2	60	52	50	48	35	28	20	40	45	56	46	47
3	59	51	49	55	37	34	26	37	42	52	44	47
4	57	45	53	52	50	34	32	38	45	48	42	41
5	60	45	56	49	49	25	31	38	39	46	44	42
6	60	40	52	48	42	25	36	30	42	46	50	40
7	61	44	54	40	42	22	39	27	43	48	58	43
8	55	52	53	48	41	23	33	35	42	45	61	45
9	52	51	54	46	38	28	39	34	45	48	61	49
10	49	50	56	50	35	36	47	33	44	56	54	56
11	49 _f	52	57	55	31	38	39	30	39	48	57	61
12	52 _f	54	55	51	38	28	43 _d	33	35	46	53	57
13	48 _d	52	50	49	36	24	41 _f	36	38	43	49	56
14	47	51	48 _h	47	36	30	45	44	39	47	55	56
15	52	52	46 _d	50	33	36	41	46	41	54	52	57
16	57	55	46	48	35	35	39	51	42	52	48	59
17	55	60	45	52	37	33	39	47	41	52	44	67
18	55 _d	59	42	53	38	30	35	46	40	53	42	62
19	55 _d	59	45	49	39	30	34	43	42	51	44 _a	58
20	48	54	46	51	37	31	35	41	48	54	50 _d	60
21	51 _c	57	48	46	35	26	30	40 _f	52	54	50	65
22	54	61	52	41	30	23	30	34 _f	53	54	45	69
23	60	57	50	43	33	27	31	35	49	53	43	64
24	60	56	45	43	39	27	37	37	51	46	42	63
25	55	52	40	42	42	32	39	40	55	48	50	61
26	52	52	33	33	40	34	38	42	57	51	53	65
27	56	51	57	36	39	33	40	45	55	52	46	70
28	51	52	55	37	38	32	42	45	48	53	46	63
29	52	56	53	33	34	32	50	45	50	43	51	60
30	51		49	30	36	32	50	42	55	43	54	61
31	50		48		34		47	41		46		70
Mean	54.3	52.7	49.7	45.7	37.5	30.0	37.1	39.2	45.4	49.9	49.4	57.1
No. of hours	355	348	360	360	372	360	362	360	360	372	355	372

Table 177. Daily mean departures from balance (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°.5 east meridian time, Christchurch Magnetic Observatory, 1945
(All values negative except as indicated)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	74	72	68	76							60	76
2	74	68	71	79							68	69
3	72	65	65	76							70	68
4	69	60	60	81							73	73
5	68	66	68 _f	82							76 _b	66
6	66	66	65	82							77	63
7	62	67	64	77							73	64
8	65	66	61	73							69	66
9	66	69	71	78							78	71
10	73	67	69								74	75
11	74	69	71								76	71
12	68	69	73								76	69
13	73	68	72								71	70
14	74	68	70								72	74
15	70	69	73 _e								70	83
16	67	71 _d	80 _g								72	77
17	69	69 _b	76 _d								75	73
18	78	75	81								79	78
19	76	75	82 _h								82 _b	82
20	70	70	82								82	79
21	74	66	72								77	85
22	69	65	76								70	86
23	72	63	80								66	80
24	74	63	79								74	86
25	70	67	74								79	80
26	77	65	72								80	76 _b
27	70	67	70								74	76 _h
28	68	68	65								78	84 _d
29	67		77								83	90
30	70		77								78	84
31	76		77									80
Mean	70.8	67.6	72.2	78.2							74.4	75.9
No. of hours	372	330	342	108							356	358

Table 178. Daily mean departures from balance (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°.5 east meridian time, Christchurch Magnetic Observatory, 1946
(All values negative except as indicated)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	85	85	109	106	111	102	108	119	107	113	99	109
2	84	87	111	107	113	101	104	115	102	108	105	110
3	81	88	108	108	107	99	103	114	104	112	100	108
4	94	97	106	101	112	98	105	114	101	108	104	106
5	95	103	102	103	105	97	102	110	104	107	100	106
6	97	118	101	103	104	99	102	103	110 ^b	101	104	110
7	91	120	100	97	117	108	101	101	110	83 ^e	102	111
8	80	145	102	90 ^a	118	110	105	103	108	102 ^d	99	114
9	74	133	104	104	123	117	104	107	107	106	102	120
10	80	124	112	104	113	117	101	104	108	106	105	112
11	90	125	120	105	114	110	97 ^a	105	111	106	105	105
12	88	121	119	103	118	108	99	111	107	108	114	104
13	85	120	113	105	115	110 ^d	95	107	107	113	101	103
14	85	111	108	108	110	108 ^e	92	100	107	120	99	113
15	89	124	104	107	112	104	90	105	106	120	98	114
16	82	137	101	113	106	100	97	103	100	123	111	113
17	90	122	103	113	107	103	103	103	106	116	108 ^b	109
18	87	108	102	109	111	100	105	104	111	106	106 ^e	92
19	77	112	105	112	110	101	109	105	120	107	101	100
20	82	124	106	106	114	104	106	104	129	100	106	102
21	91	132	100	106 ^b	112	112	107	102	133	106	110	113
22	92	121	106 ^d	104	113	117	107 ^h	103	114	110	108	117
23	84	119	108	107	113	111	.....	105	145	112	113	106
24	85	110	115	110	111 ^f	109	.....	101	131	115	113	107
25	90	111	114	107	.....	109	.....	105	121	105	112	105
26	93	109	115	103	.....	111	.....	105	116	99	110	93
27	89	114	114	105	98 ^y	106	.....	106	115	101	114	103
28	82	115	114	112	98	104	.....	104	112	106	113	104
29	81		122	108	98	111	.....	100	120	105	104	107
30	84		117	104	100	105	.....	97	107	98	105	115
31	83		110		101		125 ^h	102		96		117
Mean	86.1	115.5	108.7	106.1	109.7	106.2	102.9	105.4	112.6	107.0	105.7	108.0
No. of hours	372	336	368	357	336	351	259	372	358	363	353	372

Table 179. Diurnal variation in departures from balance (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°.5 east meridian time, for days with complete records; by months, seasons, and year, Christchurch Magnetic Observatory, 1936
(All values positive except as indicated)

Month	1	3	5	7	9	11	13	15	17	19	21	23	Complete days	No. of complete days
Jan														
Feb														
Mar														
Apr	315	325	333	326	345	339	354	354	345	343	344	312	336	26
May	378	379	364	391	377	407	426	409	409	397	390	386	393	26
Jun	352	358	360	364	362	378	369	377	373	363	362	356	364	30
Jul	425	438	445	455	451	467	471	446	463	451	445	439	450	31
Aug	414	410	410	425	426	432	433	420	406	414	413	409	418	31
Sep	360	354	359	350	375	380	394	371	362	356	365	359	365	30
Oct	309	310	317	310	330	337	328	309	326	303	294	309	315	31
Nov	247	250	241	253	267	284	270	284	262	256	239	257	259	27
Dec	178	175	153	167	185	188	204	201	192	180	187	158	182	31
I	212	212	197	210	226	236	237	242	227	218	213	208	220	58
II	328	330	336	329	350	352	359	345	344	334	334	327	339	87
III	392	396	395	409	404	421	425	413	413	406	402	398	406	118
Year	311	313	309	316	327	336	340	333	328	319	316	311	322	263

Table 180. Diurnal variation in departures from balance (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°.5 east meridian time, for days with complete records; by months, seasons, and year, Christchurch Magnetic Observatory, 1937
(All values positive except as indicated)

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	112	118	113	123	127	125	141	133	123	120	125	115	123	27
Feb	87	103	99	96	101	125	119	119	114	122	112	99	108	28
Mar	92	81	78	91	84	89	107	114	87	83	84	72	88	30
Apr	112	117	123	116	123	128	123	135	122	124	105	107	119	30
May	141	143	148	149	154	178	173	172	177	155	151	138	156	31
Jun	126	137	155	139	156	149	160	162	160	144	160	155	150	30
Jul	168	171	183	192	200	193	198	187	179	176	182	174	184	30
Aug	141	143	152	142	158	159	157	133	146	143	132	122	144	31
Sep	129	144	129	139	153	153	163	153	154	138	136	131	144	30
Oct	96	97	110	104	100	105	110	117	97	84	88	92	100	29
Nov	95	95	112	98	109	122	122	127	127	114	109	95	110	30
Dec	67	42	63	64	75	85	90	84	75	67	73	50	70	30
I	90	90	97	95	103	114	118	116	110	106	105	90	103	115
II	107	110	110	112	115	119	126	130	115	107	103	100	113	119
III	144	148	160	156	167	170	172	164	166	154	156	147	159	122
Year	114	116	122	121	128	134	138	137	130	122	121	112	125	356

Table 181. Diurnal variation in departures from balance (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°.5 east meridian time, for days with complete records; by months, seasons, and year, Christchurch Magnetic Observatory, 1938
(All values positive except as indicated)

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	- 73	- 80	- 81	- 68	- 61	- 61	- 64	- 59	- 65	- 72	- 60	- 88	- 69	30
Feb	- 65	- 75	- 60	- 72	- 48	- 45	- 34	- 44	- 57	- 59	- 73	- 70	- 58	28
Mar	38	30	22	21	67	55	49	63	51	51	39	42	44	26
Apr	- 6	- 1	- 10	- 7	21	19	20	11	10	13	5	8	7	30
May	145	136	151	164	180	172	178	171	176	164	153	138	161	31
Jun	236	254	247	259	266	283	291	279	266	248	249	256	261	30
Jul	307	314	308	311	336	349	339	338	334	320	316	311	324	31
Aug	228	249	244	273	260	283	277	259	259	259	252	243	257	31
Sep	176	181	186	186	191	200	201	189	194	161	173	164	184	30
Oct	70	92	72	90	113	91	105	110	102	83	88	76	91	31
Nov	29	20	18	36	31	72	70	53	47	37	23	14	38	26
Dec	- 13	- 3	- 5	- 7	3	12	4	27	20	9	- 8	2	3	29
I	- 30	- 34	- 32	- 28	- 19	- 6	- 6	- 6	- 14	- 21	- 30	- 36	- 22	113
II	70	76	68	72	98	91	94	93	89	77	76	72	81	117
III	229	238	238	252	260	272	271	262	259	248	242	237	251	123
Year	90	93	91	99	113	119	120	116	111	101	96	91	103	353

Table 182. Diurnal variation in departures from balance (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172° 5 east meridian time, for days with complete records; by months, seasons, and year, Christchurch Magnetic Observatory, 1939
(All values negative except as indicated)

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	45	28	35	46	25	6	+ 6	+ 3	+ 3	+ 3	38	28	20	31
Feb	136	153	144	140	133	86	+ 106	+ 102	+ 111	+ 127	126	133	125	27
Mar	144	140	147	134	121	120	101	109	110	102	116	114	122	31
Apr	155	160	159	163	132	141	148	127	137	126	141	125	143	30
May	150	153	163	148	135	118	111	100	97	121	133	125	129	31
Jun	18	42	29	23	2	+ 2	+ 3	0	+ 15	4	13	20	11	30
Jul	+ 43	+ 36	+ 38	+ 65	+ 53	+ 72	+ 79	+ 62	+ 63	+ 59	+ 47	+ 51	+ 56	31
Aug	+ 46	+ 59	+ 59	+ 62	+ 78	+ 81	+ 89	+ 106	+ 100	+ 72	+ 66	+ 55	+ 73	31
Sep	21	19	33	9	+ 7	+ 14	+ 27	+ 3	+ 9	+ 1	+ 3	11	2	30
Oct	89	93	76	74	68	52	72	75	83	99	93	90	80	31
Nov	41	58	47	52	27	35	17	20	27	33	56	42	38	30
Dec	91	109	93	96	86	74	86	63	76	90	92	91	87	31
I	78	87	80	84	68	50	51	46	53	62	78	74	68	119
II	102	103	104	95	78	75	74	77	80	82	87	85	87	122
III	20	25	24	11	2	+ 9	+ 15	+ 17	+ 20	+ 2	8	10	3	123
Year	67	72	69	63	49	38	37	35	38	47	58	56	52	364

Table 183. Diurnal variation in departures from balance (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172° 5 east meridian time, for days with complete records; by months, seasons, and year, Christchurch Magnetic Observatory, 1940
(All values negative except as indicated)

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	110	121	130	118	107	119	86	88	100	95	116	98	107	31
Feb	110	103	100	115	91	90	76	67	79	75	107	115	94	29
Mar	127	127	114	130	115	114	93	83	97	91	109	114	109	31
Apr	87	93	99	82	87	60	52	38	56	81	72	70	73	30
May	1	+ 5	8	0	+ 14	+ 23	+ 47	+ 58	+ 41	+ 36	+ 26	+ 7	+ 21	31
Jun	18	5	18	3	+ 16	+ 35	+ 39	+ 32	+ 34	+ 25	0	1	+ 11	30
Jul	66	30	20	15	+ 5	+ 16	+ 15	+ 34	+ 15	+ 1	3	23	6	31
Aug	66	67	55	72	44	14	42	18	21	43	66	80	49	29
Sep	123	132	109	106	114	99	102	95	101	97	118	119	110	30
Oct	165	163	145	147	128	118	115	108	131	150	143	148	138	31
Nov	173	178	171	173	158	164	147	138	147	163	168	179	163	30
Dec	216	252	233	235	225	219	218	206	199	210	213	232	221	29
I	152	164	158	160	145	148	132	125	131	136	151	156	146	119
II	126	129	117	116	111	98	90	81	96	105	110	113	108	122
III	38	24	25	22	2	+ 15	+ 15	+ 26	+ 17	+ 5	11	24	6	121
Year	105	106	100	99	86	77	69	60	70	79	91	98	87	362

Table 184. Diurnal variation in departures from balance (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°.5 east meridian time, for days with complete records; by months, seasons, and year, Christchurch Magnetic Observatory, 1941
(All values negative except as indicated)

Month	1	3	5	7	9	11	13	15	17	19	21	23	Complete days	No. of complete days
Jan	295	300	304	311	306	305	288	282	272	272	298	299	292	31
Feb	311	316	322	324	285	294	273	262	272	292	303	296	296	28
Mar	291	306	318	310	301	256	266	268	267	271	284	295	286	30
Apr	190	216	202	210	182	185	165	174	184	195	185	220	192	29
May	178	187	177	175	172	155	151	142	157	140	177	183	166	31
Jun	85	70	80	65	79	68	48	47	72	56	84	97	71	28
Jul	136	136	123	131	118	103	121	115	129	126	127	114	123	30
Aug	88	105	96	79	75	73	53	62	74	86	106	103	83	30
Sep	201	243	200	201	184	167	166	162	141	195	197	200	188	30
Oct	180	172	169	174	154	148	141	139	144	134	164	157	156	31
Nov	214	223	226	225	214	284	188	198	208	210	220	229	212	30
Dec	304	313	298	300	312	278	264	267	262	269	285	272	285	31
I	281	288	288	290	279	265	253	247	254	261	276	274	271	120
II	216	234	222	224	205	189	184	186	184	199	208	218	206	120
III	122	124	119	112	111	100	93	92	108	102	124	124	111	119
Year	206	215	210	209	198	185	177	175	182	187	203	205	196	359

Table 185. Diurnal variation in departures from balance (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°.5 east meridian time, for days with complete records; by months, seasons, and year, Christchurch Magnetic Observatory, 1942
(All values negative except as indicated)

Month	1	3	5	7	9	11	13	15	17	19	21	23	Complete days	No. of complete days
Jan	275	276	270	283	285	256	255	235	279	269	273	290	270	31
Feb	296	318	313	323	293	291	296	284	282	276	296	308	298	27
Mar	443	468	463	454	445	427	434	446	411	415	444	457	442	29
Apr	330	320	310	315	313	298	288	280	289	286	324	326	306	28
May	252	240	249	223	211	226	208	214	202	215	224	227	224	28
Jun	223	232	226	233	197	204	200	235	219	238	208	213	219	28
Jul	227	236	224	235	224	223	197	201	212	208	220	237	220	29
Aug	220	232	208	229	210	196	208	195	198	204	213	200	209	28
Sep	255	260	254	275	258	266	246	237	245	263	251	256	256	26
Oct														
Nov														
Dec														
I	286	297	291	303	289	273	276	260	280	272	284	299	284	58
II	343	349	342	348	339	330	323	321	315	321	340	346	335	83
III	230	235	227	230	210	212	203	211	208	216	216	219	218	113
Year	286	294	287	294	279	272	268	264	268	270	280	288	279	254

Table 186. Diurnal variation in departures from balance (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°.5 east meridian time, for days with complete records; by months, seasons, and year, Christchurch Magnetic Observatory, 1943
(All values negative except as indicated)

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	408	388	364	395	372	332	340	368	354	342	372	369	365	14
Feb	422	420	406	418	419	404	389	380	388	399	400	403	404	26
Mar	388	394	397	382	389	377	372	363	368	383	390	395	383	31
Apr	393	385	402	386	366	377	362	373	380	372	370	392	380	30
May	337	342	342	322	320	337	284	292	300	298	326	343	321	31
Jun	310	290	321	312	317	286	278	257	270	286	281	297	292	28
Jul	397	396	373	378	385	361	329	341	352	362	358	393	369	29
Aug	392	382	377	367	367	361	351	348	364	382	389	395	373	31
Sep	486	492	495	455	477	475	460	453	461	496	486	466	475	12
Oct														
Nov														
Dec	514	515	522	513	494	486	481	479	478	502	504	501	499	18
I	448	434	431	442	428	407	403	409	407	414	425	424	423	58
II	422	424	431	408	411	410	398	396	403	417	415	418	413	73
III	359	352	353	345	347	336	313	310	322	332	338	357	339	119
Year	410	403	405	398	395	384	371	372	377	388	393	400	391	250

Table 187. Diurnal variation in departures from balance (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°.5 east meridian time, for days with complete records; by months, seasons, and year, Christchurch Magnetic Observatory, 1944
(All values negative except as indicated)

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	545	589	547	588	547	541	529	539	538	553	550	551	548	27
Feb	536	533	529	540	532	511	513	517	523	524	517	528	525	29
Mar	502	507	489	520	493	481	488	488	479	515	498	501	497	28
Apr	450	466	491	474	447	460	451	445	445	459	450	453	458	30
May	376	374	385	375	392	380	368	358	376	373	388	366	376	31
Jun	308	329	305	314	296	296	287	290	275	282	294	305	298	30
Jul	368	377	365	370	371	361	359	370	377	389	362	370	370	29
Aug	408	407	386	407	409	378	381	375	392	404	390	414	396	29
Sep	468	459	468	445	452	455	438	445	441	462	449	458	453	30
Oct	513	495	500	493	497	479	498	500	506	512	498	504	500	31
Nov	497	503	484	516	495	486	501	495	495	486	495	492	495	28
Dec	574	577	571	588	580	581	588	575	566	574	576	585	573	31
I	538	546	533	553	534	525	528	532	530	534	534	539	536	115
II	483	482	487	483	472	469	469	470	468	487	474	479	477	119
III	365	372	380	366	367	354	349	348	355	362	358	364	360	119
Year	462	467	460	467	458	449	449	450	451	461	455	461	458	353

Table 188. Diurnal variation in departures from balance (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°.5 east meridian time, for days with complete records; by months, seasons, and year, Christchurch Magnetic Observatory, 1945
(All values negative except as indicated)

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	713	724	708	711	705	705	698	712	699	721	694	723	709	31
Feb	691	669	687	677	668	661	661	669	678	675	672	671	673	26
Mar	725	724	722	713	735	710	694	689	702	702	731	721	714	26
Apr	794	817	802	787	792	802	743	771	774	776	789	777	785	8
May														
Jun														
Jul														
Aug														
Sep														
Oct														
Nov	741	749	736	745	743	734	741	732	738	733	753	735	740	28
Dec	770	774	761	783	746	749	729	753	741	753	750	753	755	28
I	729	729	723	729	716	712	707	716	714	720	717	720	719	113
II	760	770	762	750	764	756	718	730	738	739	760	749	750	34
III														
Year														147

Table 189. Diurnal variation in departures from balance (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 29 in. Hg, on 172°.5 east meridian time, for days with complete records; by months, seasons, and year, Christchurch Magnetic Observatory, 1946
(All values negative except as indicated)

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	872	862	853	872	862	856	834	863	862	862	864	882	862	31
Feb	1151	1168	1172	1205	1165	1137	1144	1142	1108	1133	1140	1171	1153	28
Mar	1086	1099	1093	1094	1088	1073	1074	1054	1078	1090	1105	1112	1087	30
Apr	1070	1084	1078	1070	1066	1063	1030	1042	1043	1070	1051	1060	1061	28
May	1131	1121	1128	1110	1095	1082	1070	1083	1084	1099	1090	1126	1101	27
Jun	1063	1071	1069	1076	1078	1047	1041	1025	1035	1071	1065	1062	1059	28
Jul	1037	1034	1023	1002	1028	1007	985	1015	1007	1026	1025	1026	1018	20
Aug	1062	1097	1080	1057	1033	1036	1025	1035	1034	1057	1062	1067	1054	31
Sep	1132	1128	1134	1128	1124	1101	1106	1129	1138	1143	1137	1136	1128	29
Oct	1083	1109	1087	1078	1077	1065	1050	1053	1074	1093	1091	1094	1080	29
Nov	1048	1057	1035	1058	1041	1035	1067	1041	1045	1060	1072	1064	1052	28
Dec	1095	1087	1100	1097	1094	1083	1084	1077	1088	1070	1071	1092	1086	31
I	1042	1044	1040	1058	1040	1027	1032	1031	1026	1031	1037	1052	1038	118
II	1093	1105	1098	1092	1089	1076	1065	1070	1083	1099	1096	1100	1089	116
III	1073	1081	1075	1061	1058	1043	1030	1040	1040	1063	1060	1070	1058	106
Year	1069	1077	1071	1070	1062	1049	1042	1047	1050	1064	1064	1074	1062	340

Table 190. Daily mean departures from balance, +130 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 45th west meridian time, Godhavn Magnetic Observatory, 1938

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1											110	119
2											106	113
3											100	122
4											106	122
5											103	122
6										96 ^l	105	121
7										97	107 ^a	120
8										103	107 ^a	120
9										99	109	119
10										102	114	114
11										103	117	114
12										102	119	107
13										102	120	106
14										96	116	102
15										93 ^b	109	99
16										96	106	96
17										99	106	95
18										101 ^g	107	101
19										104 ^e	109	97
20										102	117	103
21										105	110	104
22										108	111	100
23										114	110	107
24										110	110	107
25										109	114	107
26										107	116	107
27										106	119	106
28										106	121	102
29										111	123	94
30										112	123	87
31										117		99
Mean										103.7	111.7	107.5
No. of hours										289	358	372

Table 191. Daily mean departures from balance, +130 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 45th west meridian time, Godhavn Magnetic Observatory, 1939

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	103	88	99	74	53	44	32	51	49	71	82	100
2	108	89	92	73	35	44	30	50	51	78	89	99
3	102	91	87	77	50	46	33	47	48	68	82	88
4	101	93	92	78	54	46	39 ^d	49	44	64	79	90
5	97	96	91	79	55	44	29 ^e	48	43	67	71	99
6	99	93	98	79	26	48	36	48	54	60	67	97
7	99	91	94	76	39	44	38	47	51	63	74	88
8	96	88	90	74	37	49	40	47 ^g	52	64	73	85
9	92	94	91	72	39	50	45	...	50	64	73 ^b	77
10	84	96	97	72	42	51	46	55 ^e	53	69	73	75
11	80	96	99	64	38	53	40	53	50	66	77	79
12	88	93	101	62	42	52	37	31	54	65	78	85
13	83	93	94	68	44	56	36	42	58	50	74	87
14	84	100	82	69	47	53	36	44	59	54	79	95
15	96	103 ^c	84	70	46	51	40	44	60	53	85	96
16	95	95	86	73	48	50	41	44	55	58	91	100
17	104	95	82	61	45 ^g	48	43	50	58	60	96	91
18	111	100	83	61	...	44	44	51	63	64	90	81
19	110	102	91	63	53 ^e	40	47	52	62	71	93	76
20	107	106	93	54	56	40	41	49	61	73	100	73
21	105	105	97	52	61	38	43	52	57	81	104	78
22	107	107	91	62	63	32	41	38	55	74	97	82 ^h
23	102	107	93	55	64	32	33	47	57	71	92	73
24	90	101	92	40	61	37	31	52	59	61	89	65
25	100	95	90	29	60	35	37	50	56	60	87	56
26	94	95	88	39	60	40	39	48	58	69	92	56
27	86	95	85	51	57	37	39	50	52	69	91	56
28	91	99	79	49	52	41	42	52	59	77	96	51
29	91		82 ^g	50 ^b	48	36	49	53	60	72	98	53
30	94		...	53	42	31	52	57	64	69	102	56
31	88		73 ^e		45		52	55		80		63
Mean	96.2	96.6	89.9	62.6	48.7	43.7	39.7	48.5	55.1	66.6	85.8	79.0
No. of hours	372	333	348	358	360	360	363	348	360	372	358	364

Table 192. Daily mean departures from balance, +130 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 45th west meridian time, Godhavn Magnetic Observatory, 1940

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	69	90	79	47	69	56	33	37	43	53	54	72
2	64	98	79	54	72	60	31	29	44	55	55	73
3	74	100	74	59	69	58	36	28	39	62	57	82
4	80	96	76	65	65	60	37	35	45	62	59	88
5	89	96	81	66	71	56	34	31	44	66	58	94
6	95	84	86	75	75	62	33	39	37	59	62	87
7	98	91	83	78	77	58	35	43	35	55	65	91
8	99	76	84	78	71	57	37	40	46	66	70	92
9	97	82	85	77	67	51	34	32	52	75	68	87
10	97	75	81	80	66	55	34	42	57	70	77	85
11	97	66	76	78	64	46	30	37	59	71	78	86
12	92	68	71	82	61	58	25	35	56	70	78	85
13	76	59	77	79	58	56	16	34	57 ^c	76	71	89
14	66	59	88	76	53	45	26	40	54 ^e	70	77	95
15	67	60	89	66	57	41	36	41	55 ^e	69	81	93
16	89	66	85 ^e	60	53	48	34	46	58	71	79	93
17	88	71	82	63	52	43	32	45	53	72	75	97
18	89	75	79	60	51	42	30	44	52	63	75	105
19	86	79	77	54	53	39	30 ^d	44	55	58	76	101
20	82	83	77	56	52	39	35 ^e	42	57	58	77	92
21	80	84	70	50	48	37	32	38	63	50	77	82
22	86	80	69	59	51	42	33	34	59	50	79	71
23	86	76	68	59	40	37	38	38	57	46	66	63
24	90	77	57	61	40	41	35	38	49	45	70	59
25	85	76	58	66	47	34	39	39	56	43	68	46
26	88	75	60	60	49	24	38	40	52	40	67	53
27	87	76	67	65	51	26	35	37	49	52	66	54
28	81	66	75	67	53	33	34	38	53	61	63	50
29	84	80	76	69	51	31	40	39	55	63	66	52
30	78		63	69	50	30	42	43	58	65	69	54
31	75		59		49		42	45		63		57
Mean	84.3	78.1	75.2	65.9	57.6	45.5	33.7	38.5	51.6	60.6	69.4	78.3
No. of hours	372	348	367	360	372	360	363	372	352	372	360	372

Table 193. Daily mean departures from balance, +130 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 45th west meridian time, Godhavn Magnetic Observatory, 1941

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	69	79	38	39	42	32	26	...	37	56	68	53 ¹
2	71	75	32	43	45	38	31	...	33	57	69	72
3	84	77	41	46	45	38	29	...	33	48	68	77
4	88	79	45	46	39	38	23	...	33	56	64	70
5	91	78	46	48	43 ^e	33	16	...	37	62	56	66
6	83	73	54	49	...	36	19	...	43	52	54	66
7	75	81	57	48	41 ^e	32	21	...	40	41	59	74
8	69	78	58	50	32 ^h	34	22	...	33	34	74	84
9	65	76	58	50	38 ^e	36	28	22 ^e	34	38	78	91
10	66	80	60	56	45	27	30	24	42	39	77	90
11	72	82	64	60	50	19	25	29	43	37	77	86
12	76	77	54	67	39	25	25	29	39	48	80	80
13	64	70	61	70	34	37	30	22	35	49	85	79
14	52	63	68	69	35	36	25	24	42	53	84	79
15	51	58	68	68	38	39	28	24	45	61	79	77
16	59	44	59	58	35	45	29	30	47	55	78	77
17	58	30	53	61	36 ^h	40	30	33	47	58	69	77
18	60	31	44	55	38	49 ^d	29	30	29	60	70	71
19	63	32	36	56	40	45 ^e	27	27	26	60	75	70
20	69	43	43	54	45	44	30	30	31	62	78	76
21	67	48	42	54	41	46	31	31	37	65	79	82
22	66	55	44	46	40	48	30	28	45	69 ^e	85	82
23	73	57	42	48	44	38	29	30	49	69	90	80 ¹
24	77	56	56	53	37	33	30	35	44	68	90	71
25	79	53	58	57	35	28	31	38	51	55	94	68
26	78	52	57	54	30	24	27	35	47	61	92	70
27	81	58	52	52	31	24	26	33	48	54	90	75
28	89	59	51	54	33	25	26	31	50	64	84	82
29	86		52 ^e	49	30 ^c	24	29	28	52	70	86	91
30	81		54	45	36	24	23 ^h	40	55	73	95 ^a	92
31	78		47		35		...	44		74		91
Mean	72.3	62.3	51.7	53.5	38.4	34.6	26.8	30.3	40.9	56.4	77.6	77.4
No. of hours	372	336	367	360	326	351	352	291	360	367	359	357

Table 194. Daily mean departures from balance, +130 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 45th west meridian time, Godhavn Magnetic Observatory, 1942

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	97	79	4	58	39	42	37	...	53	73	77	55
2	94	78	17	56	37	43	37	30 ^k	54	70	70	62
3	77	66	16	56	46	45	36	27	58	66	77	61
4	74	70	26	59	50	45	35	27	56	66	76	62
5	80	60	29	58	47	44	40	31	52	67	80	63
6	79	60	38	61	46	41	34	37	55	64	83	70
7	77	55	61	68	46	40	35	38	55	61	90	73
8	67	50	37	68	46	33	36	41	55	71	89	74
9	86	52	24	67	46	37	29	45	58	75	88	76
10	93	58	30	68	48	41	31	40	63	75	90	80
11	91	61	27	71	43	43	28	42	61	76	85	78
12	100 ^e	66	34 ^e	66	42	38	31	43	58	71	82	88
13	100 ^k	75	49	60 ^j	44	32	28	40	49	65	77 ^b	86
14	102	77	53	...	47	34	31	43	44	68	76 ^b	84
15	96	70	61	63 ^a	51	35	29	39	44	65	64 ^a	84
16	91	67	71	62	49	33	28	36	45	59	64	78
17	90	64	73	65	46 ^j	29	31	37	51 ^j	63	68	80
18	95	62	69	59	51 ⁱ	27	31	36	58 ^e	67	76	86
19	99	55	67	63	52	26	29 ^c	42	55	64	71 ^c	90
20	100	52	69	60	50	25	...	41	60	69	63	97
21	98	60	70	66	50	30	...	38	61	71	69	91
22	94	59	71	71	53	33	...	40	52	70	75 ⁱ	90 ^f
23	102	61	73	68	46 ^k	34	...	39	46	60	76	81 ^k
24	104	53 ^g	68	65	40 ^e	32	...	37	52	56	65	...
25	98	54	56	61	44	36	36 ^d	41	50	64	61	...
26	102	57	64	64	42	33	36	39	56	66 ^f	48	...
27	96	67	61	62	38	35	40	41	59	66 ^a	38	64 ^j
28	89	82	69	58	38	37	41	41	65	58 ^b	45	70
29	84		78	44	41	37	30	43	68	65	51	92
30	85		76	41	33	40	23 ^d	46	70	70	51	101
31	85		71		34			53		75		103
Mean	91.1	63.1	52.0	61.7	44.7	36.0	32.9	39.1	55.4	67.0	70.8	79.2
No. of hours	356	329	367	337	337	360	289	349	345	363	333	309

Table 195. Daily mean departures from balance, +130 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 45th west meridian time, Godhavn Magnetic Observatory, 1943

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	93	115	101	78 ^b	65	40	27	19	29	55	70	60
2	84	112	104	79	62	37	31	21	29	58	68	61
3	87	110	102	84	60	37	35	22	31	58	74	62
4	87	105	104	80	60	42	37	20	30	52	74	69
5	94	100	101	67	62	47	29	24	37	56	72	68
6	90	98	105	68	58	45	35	29	41	67	70	67
7	88	99	109	69	56	43	32	27	45	69	71	73
8	92	99	109	79	57 ^e	41	28	11	43	70	73	77
9	96	105	112	79	56	35	22	12	40	70	78	80
10	99	108	110	70	54 ^c	33	21	20	33	66	76	75
11	106	118	112	76	55 ^d	34	28	20	34	71	70	72
12	106	112	109	77	52	29	31	19	38	71	64	70
13	111	115	108	74	48	32 ^d	37	15	41	63	52	76
14	114	111	113	77	50	34	36	13	44	55	57	84
15	107	98	109	70	51	35 ^f	31	13	41	50	55	86
16	104	108	107	70	49	41	35	15	41	52	57	82
17	101	112	102	69	43	40	29	17	48	47	66	88
18	92	112	95	67	50	38	25	16	50	47	70	92
19	85	115	84	68 ^d	54	40	15	15	49	42	70	90
20	80	111	80	77 ^k	47	38	13	12	40	34	73	83
21	74	111	82	77	39	38	9	19	42	44 ^c	67	83
22	82	114	74	77	42	41	12	22	51	45	67	82
23	88	111	65	69	45 ^e	36	16	20	53	42	73	94
24	93	101	65	64	44	34	15	16	50	52	72	101
25	95	111	68	65	40	33	13	20	52	61	75	98
26	91	116	76	65	36	36	16	26	46	61	74	100
27	95	107	82	62	37	38	23	33	53	64 ^d	71	100
28	104	105	92	58	36	38	22	33	54	66 ^c	68	98
29	104		94	58	40	34	17	31	55	65	59	83
30	112		88	56	44	32	17	17	55	62	59	84
31	114		76		40		18	21		68		86
Mean	95.7	108.5	94.8	71.0	49.4	37.3	24.4	19.9	43.2	57.5	68.2	81.4
No. of hours	372	336	372	343	355	350	372	372	360	362	360	372

Table 196. Daily mean departures from balance, +130 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 45th west meridian time, Godhavn Magnetic Observatory, 1944

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	87	88	91	58	61	32	45	37	39	66	87	83
2	82	83	81	55	60	40 ^d	43	41	42	68 ^g	96	88
3	78	78	79	56	60	40	42	40	40	62	95	93
4	82	80	74	60	64	42	40	44	37	60	94	91
5	78	92	76	61	65	48	48	43	34	64	89	87
6	75	93	71	59	62	45	46	46	40	65	89	85
7	73	89	69	60	62	53	44	44	38	69	88	84
8	74	82	69	60	65	56	44	48	45	67	87	89
9	76	76	69	57	69	60	46	50	51	68	83	93
10	81	87	68	47	72	53	48	44	54	68	82	98
11	79	100	70	49	67	49	47	48	57	68	85	100
12	81	110	64	54	64	49	48	42	59	68	76	99
13	89	112	73	57	63	48	48	39	61	72	72	100
14	96	104	81	56	59	52	48	42	65	73	67	95
15	86	107	82	58	61	50	48	44	68	77	54	97
16	87	103	82	61	59	51	47	43	70	84	60	81
17	100	106	77	62	55	57	40	46	69	89	72	83
18	105	110	70	61	49	54	38	43	69	84	75	90
19	105	102	77	65	45	53	34	44	70	82	77	91
20	105	87	78	61	47	48	32	47	69	91	83	89
21	109	82	86	66	49	43	28	50	66	92	86	92
22	109	81	83	67	54	41	33	47	59	88	81	102
23	101	79	85	70	56	26	32	56	63	86	84	101
24	95	75	83	67	56	30	33	55	65	96	82	104
25	90	62	76	67	54	26	40	55	70	88	90	103
26	96	59	60	65	51	28	50	55	64	82	105	99
27	98	76	53	70	52	34	50	58	61	82	101	94
28	96	84	52	66	50	38	42	59	61	91	96	103
29	94	92	48	67	48	43	42	50	66	89	93	93
30	90		53	64	44	45	44	47	60	79	87	86
31	88		53		37		39	47		81		97
Mean	89.8	88.9	72.0	60.9	56.8	44.5	42.2	46.9	57.1	77.4	83.9	93.2
No. of hours	372	348	372	360	372	356	372	372	360	365	360	372

Table 197. Daily mean departures from balance, +130 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 45th west meridian time, Godhavn Magnetic Observatory, 1945

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	93	90 ^d	89	60	52	30	37	34	52	68	76	88
2	79	88	84	63	50	29	41	35	48	62	72	98
3	78	92	90	66	48	30	38	38	48	52	66	106
4	89	96	88	60	46	38	35	34	55	52	62	101
5	92	98	84	54	46	42	32	37	57	52	67	100
6	87	94	92	66	55	50	30	38	59	53	71	94
7	82	102	98	70	49	52	37	48	60	53	70	96
8	91	106	94	67	51	50	40	42	56	46	67	93
9	90	96	87	69	48	48 ^d	38	43	52	43	61	81
10	85	92	76	60	50	48	45	43	55	52	61	75
11	93	96	74	60	45	49	34	44	54	58	71	73
12	86	95	72	62	46	44	34	45	57	56	79	69
13	80	99	62	62	47	44	39	43	57	57	75	69
14	71	99	65	66	51	45	38	35	59	59	78	69
15	84	96	61	64	55	41	36	34	60	61	75	68
16	80	98	71	61	58	44	32	34	64	65	70	69
17	90	104	71	61	57	45	28	35	58	62	68	62
18	83	104	74	56	53	40 ^c	27	39	66	62	72	73
19	80	101	72	49	49	40	39	41	63	63	69 ^b	78
20	76	112	71	48	52	43 ^b	46	38	60	64	63	69
21	78	120	73	49	43	39	42	40	61	60	67	71
22	78	120	66	54	46 ^c	...	43	36	61	58	72	77
23	79	117	61	49	...	40 ^d	41	41	63	61	74 ^f	80
24	78	111	60	47	...	32	36	40	63	58	...	74
25	78	107	62 ^d	53 ^d	...	33	40	44	62	57	...	79
26	76	102	64	51 ^d	...	36	36	43	61	61	...	76
27	71	97	66 ^d	47 ^b	41 ^f	37	37	44	60	64 ^b	...	78
28	70	96	53	50	46	34	34	42	61	71	...	76
29	72		51	50	48	35	37	39	69	75	81 ⁱ	79
30	71		58	52	38	30	39	44	72	76	85	82
31	79		61		29		37	49		75		79
Mean	81.3	101.0	72.6	57.5	48.1	40.3	37.0	40.1	59.0	59.9	70.9	80.1
No. of hours	372	327	364	350	315	330	372	372	360	370	283	372

Table 198. Daily mean departures from balance, +130 (in units of 0.1 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 45th west meridian time, Godhavn Magnetic Observatory, 1946

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	79	93	62 ^h	36	28	14	0	- 9	15	32		70
2	87	89	...	41	26	22	- 5	- 8	14	31		68
3	75	86	47 ^h	37	33	23	-13	- 3	11	31		69 ^c
4	78	72	43	40	29	26	- 5 ^g	- 3	17	39 ^b		78
5	88	67	45 ^d	39	33	25	...	- 4	23	31		81
6	82	44	59 ^e	40	13	24	18 ^e	- 3	23	30		81
7	80	31	63	37	4	5	14	- 2	23	32		79
8	89	15	59	33	- 7	3	15	2	32	26		80
9	95	38	56	31	- 9	0	18	3	38	21		73
10	95	44	35	36	- 8	5	16	4	36	18		71
11	96	39	40	39	- 1	5	16	6	32	18		65
12	95	44	41	31	- 5	2	20	4 ^d	32	15		59 ^e
13	103	58	38	36	8	6	18	2	35	16		55
14	104	47	34	34	15	8	15	2	38	19		56
15	101	24	28	31	13	4	11	3	36	23		67
16	104	24	29	36	14	9	12	2	41	27		72
17	105	30	28	38	9	2	12	7	42	24		77
18	106	38	37	47	15	3	10	13	30	24		76
19	97	33	39	44	16	- 1	11	20	32	29		78
20	101	30	42	42	17	- 5 ^b	10	19	29	23		82
21	102	17	42	46 ^b	21	- 3 ^b	12	16	31	13		80
22	101	22	49	35 ^f	20	- 7	8	19	15			75
23	108	35	44	34	19	-12	5	22	5			74
24	97	41	44	31	16	-10	- 1	19	8			78
25	94	46	46	29	13	- 6	48	12	11			75
26	81	41	49	37	10	- 3	27	11	13		52	74
27	78	35	51	28	6	- 2	-70 ^e	14	14		61	70
28	86	50	26	29	8	- 6	-51	14	16		66	76
29	82		8	28	8	- 6	-33	20	21		67	87
30	84		17	30	4	- 2	-22	19	21		69	88
31	93		25		11		-15	19				87
Mean	92.5	44.0	40.9	35.8	12.2	4.1	3.4	7.7	24.5	24.9	63.0	74.2
No. of hours	372	336	335	352	372	358	343	368	360	250	60	364

Table 199. Diurnal variation in departures from balance, +1300 (in units of 0.01 per cent of total cosmic-ray intensity) corrected to 760 mm Hg, on 45th west meridian time, for days with complete records; by months, seasons, and year, Godhavn Magnetic Observatory, 1938

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan														
Feb														
Mar														
Apr														
May														
Jun														
Jul														
Aug														
Sep														
Oct	1039	1058	1023	1053	1028	1049	1059	1064	1063	1043	1060	1045	1049	22
Nov	1116	1105	1095	1115	1118	1121	1130	1141	1134	1123	1120	1129	1121	28
Dec	1068	1080	1062	1062	1067	1075	1096	1082	1077	1087	1071	1070	1075	31
I	1092	1092	1078	1088	1092	1098	1113	1112	1106	1105	1096	1100	1098	59
II														22
III														
Year														

Table 200. Diurnal variation in departures from balance, +1300 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 45th west meridian time, for days with complete records; by months, seasons, and year, Godhavn Magnetic Observatory, 1939

Month	1	3	5	7	9	11	13	15	17	19	21	23	Complete days	No. of complete days
Jan	970	959	949	968	980	966	954	968	967	959	950	961	963	31
Feb	951	959	957	953	967	977	973	968	973	967	973	950	964	27
Mar	900	911	913	912	915	900	913	917	906	906	902	898	908	28
Apr	847	836	846	831	826	823	846	849	816	838	801	816	831	29
May	474	476	475	474	485	476	510	502	494	498	501	481	487	28
Jun	435	439	427	437	438	432	457	443	445	441	437	411	437	30
Jul	410	390	401	400	395	389	415	391	402	417	406	390	400	29
Aug	474	465	460	483	475	486	486	493	510	498	491	480	483	28
Sep	545	531	520	561	540	539	558	540	559	583	573	556	550	30
Oct	665	652	657	653	669	655	682	678	664	667	667	665	664	31
Nov	856	855	840	842	855	865	879	874	871	875	870	859	862	29
Dec	794	791	791	788	793	792	793	804	777	796	778	764	788	30
I	893	891	884	888	899	900	900	904	897	899	893	884	894	117
II	689	682	684	689	688	679	700	696	686	698	686	684	688	118
III	448	442	441	448	448	446	467	457	463	464	459	440	452	115
Year	677	672	670	675	678	675	689	686	682	687	679	669	678	350

Table 201. Diurnal variation in departures from balance, +1300 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 45th west meridian time, for days with complete records; by months, seasons, and year, Godhavn Magnetic Observatory, 1940

Month	1	3	5	7	9	11	13	15	17	19	21	23	Complete days	No. of complete days
Jan	842	836	826	842	850	846	838	856	836	835	846	845	842	31
Feb	748	783	767	786	780	793	797	787	793	783	768	779	780	29
Mar	757	752	744	756	754	745	756	759	742	754	733	742	750	30
Apr	653	645	651	665	670	677	668	660	673	674	659	657	663	30
May	575	555	575	560	573	590	589	603	562	583	577	565	576	31
Jun	474	460	446	445	448	458	452	445	461	464	465	442	455	30
Jul	334	334	319	340	335	321	348	355	330	351	344	351	338	29
Aug	390	387	345	380	396	397	378	383	390	394	399	390	386	31
Sep	511	511	496	513	506	504	523	517	525	532	519	513	514	28
Oct	604	595	598	605	609	614	607	609	617	619	605	587	606	31
Nov	678	697	677	683	697	694	718	712	700	692	695	691	694	30
Dec	779	776	777	790	778	780	795	800	795	783	787	762	784	31
I	762	773	762	775	776	778	787	789	781	773	774	769	775	121
II	631	626	622	635	635	635	638	636	639	645	629	625	633	119
III	443	434	421	431	438	442	442	446	436	448	446	437	439	121
Year	612	611	602	614	616	618	622	624	619	622	616	610	616	361

Table 202. Diurnal variation in departures from balance, +1300 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 45th west meridian time, for days with complete records; by months, seasons, and year, Godhavn Magnetic Observatory, 1941

Month	1	3	5	7	9	11	13	15	17	19	21	23	Complete days	No. of complete days
Jan	712	716	711	714	721	717	722	724	730	739	736	732	723	31
Feb	618	615	625	617	624	613	625	635	640	644	611	608	623	28
Mar	502	513	501	515	521	516	528	519	531	527	538	496	517	30
Apr	534	527	525	513	545	539	540	548	538	533	533	545	535	30
May	377	372	382	389	404	389	405	384	385	390	405	384	389	24
Jun	315	312	321	334	337	339	357	360	343	343	336	336	336	28
Jul	282	267	280	267	276	272	286	269	274	263	267	247	271	29
Aug	307	301	300	311	303	301	317	292	315	308	319	307	307	22
Sep	405	384	403	415	397	388	421	421	424	412	412	420	408	30
Oct	558	545	551	555	557	563	567	573	545	568	558	578	560	30
Nov	782	769	757	764	759	767	779	782	779	773	763	762	770	29
Dec	795	774	769	787	758	787	791	796	784	766	791	775	781	29
I	727	718	716	720	716	721	729	734	733	730	725	719	724	117
II	500	492	495	500	505	502	514	515	510	510	510	510	505	120
III	320	313	321	325	330	325	341	326	329	326	332	318	326	103
Year	516	508	511	515	517	516	528	525	524	522	522	516	518	340

Table 203. Diurnal variation in departures from balance, +1300 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 45th west meridian time, for days with complete records; by months, seasons, and year, Godhavn Magnetic Observatory, 1942

Month	1	3	5	7	9	11	13	15	17	19	21	23	Complete days	No. of complete days
Jan	900	891	913	900	916	912	911	911	912	901	912	879	905	29
Feb	629	612	614	621	642	681	667	653	644	642	627	600	636	27
Mar	534	550	539	538	524	518	526	520	531	515	517	508	527	30
Apr	621	605	604	624	604	603	620	630	612	617	624	635	617	27
May	446	431	426	447	451	436	474	454	447	442	444	436	444	27
Jun	358	354	364	348	373	341	374	360	373	366	365	340	360	30
Jul	330	333	315	325	333	322	350	343	346	345	333	337	334	22
Aug	388	376	376	400	397	394	398	401	406	409	410	380	395	29
Sep	554	544	555	564	560	546	559	552	554	567	559	544	555	28
Oct	681	675	670	656	661	672	688	681	678	683	681	661	674	28
Nov	716	702	699	706	708	707	712	708	694	720	689	690	704	25
Dec	783	784	782	787	785	798	791	790	818	813	801	801	794	25
I	757	747	752	754	763	774	770	766	767	769	757	742	760	106
II	598	594	592	596	587	585	598	596	594	596	595	587	593	113
III	380	374	370	380	388	373	399	390	393	390	388	373	383	108
Year	578	572	571	577	579	577	589	584	585	585	580	567	579	327

Table 204. Diurnal variation in departures from balance, +1300 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 45th west meridian time, for days with complete records; by months, seasons, and year, Godhavn Magnetic Observatory, 1943

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	958	945	941	959	958	975	967	969	955	953	960	951	958	31
Feb	1066	1071	1078	1076	1086	1100	1115	1091	1111	1086	1066	1080	1085	28
Mar	941	957	947	951	952	957	972	947	939	947	946	924	948	31
Apr	716	718	711	718	707	711	717	692	703	713	693	677	706	27
May	484	492	470	484	487	488	502	513	492	486	494	476	489	27
Jun	366	366	361	356	379	383	374	405	375	381	400	374	377	28
Jul	215	229	226	224	232	257	244	275	255	270	264	242	244	31
Aug	179	205	197	155	191	214	198	212	211	204	207	222	199	31
Sep	407	422	430	422	434	430	429	440	427	438	455	448	432	30
Oct	580	565	562	551	563	565	586	593	631	575	597	570	578	28
Nov	672	682	659	649	684	687	694	698	701	696	691	670	682	30
Dec	812	822	791	811	805	808	838	809	825	817	822	810	814	31
I	877	880	867	874	883	892	904	892	898	888	885	878	885	120
II	661	666	662	660	664	666	676	668	675	668	673	655	666	117
III	311	323	314	305	322	336	330	351	333	335	341	328	327	117
Year	616	623	614	613	623	631	637	637	635	630	633	620	626	354

Table 205. Diurnal variation in departures from balance, +1300 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 45th west meridian time, for days with complete records; by months, seasons, and year, Godhavn Magnetic Observatory, 1944

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	906	889	894	886	880	911	906	918	904	895	904	886	898	31
Feb	880	885	888	897	888	898	892	897	891	887	893	879	890	29
Mar	722	700	727	721	747	737	728	726	722	699	714	702	720	31
Apr	608	617	609	605	610	605	603	618	612	603	621	595	609	30
May	596	584	593	565	578	557	575	561	540	548	565	566	569	31
Jun	456	439	452	446	454	451	455	440	454	429	438	425	445	29
Jul	436	415	426	432	428	417	410	415	428	432	425	405	422	31
Aug	470	481	474	463	498	462	483	459	463	457	474	448	469	31
Sep	573	572	562	565	567	574	560	576	578	566	584	573	571	30
Oct	763	775	765	775	778	787	785	774	790	764	788	778	777	30
Nov	823	813	832	859	842	837	846	847	846	845	847	833	839	30
Dec	925	913	926	925	955	938	935	942	944	928	930	920	932	31
I	884	875	885	892	891	896	895	901	896	889	894	880	890	121
II	666	666	666	666	676	676	669	674	676	658	677	662	669	121
III	490	480	486	476	490	472	481	469	471	466	476	461	476	122
Year	680	674	679	678	686	681	682	681	681	671	682	668	678	364

Table 206. Diurnal variation in departures from balance, +1300 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 45th west meridian time, for days with complete records; by months, seasons, and year, Godhavn Magnetic Observatory, 1945

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	804	803	826	810	825	810	830	827	802	807	806	798	812	31
Feb	1006	1020	1018	1022	1011	1018	1025	1015	1019	1016	1004	990	1014	27
Mar	717	745	721	730	723	738	744	763	740	713	734	710	732	29
Apr	576	585	571	580	581	581	601	591	591	600	565	578	583	27
May	480	478	493	491	504	466	488	489	503	473	485	469	485	25
Jun	404	399	406	384	396	383	395	409	403	410	414	381	399	25
Jul	359	383	346	348	387	356	349	395	395	367	414	344	370	31
Aug	385	383	381	402	411	396	424	414	412	392	405	400	400	31
Sep	571	586	583	589	585	599	604	614	594	579	602	583	591	30
Oct	611	589	584	598	602	590	609	609	608	589	588	592	597	30
Nov	688	692	697	710	687	708	696	719	700	710	730	713	704	22
Dec	812	786	800	784	798	797	819	790	806	821	807	790	801	31
I	828	825	835	832	830	833	842	838	832	838	837	823	833	111
II	619	626	615	624	623	627	640	644	633	620	622	616	626	116
III	407	411	406	406	424	400	414	427	428	410	430	398	414	112
Year	618	621	619	621	626	620	632	636	631	623	630	612	624	339

Table 207. Diurnal variation in departures from balance, +1300 (in units of 0.01 per cent of total cosmic-ray ionization) corrected to 760 mm Hg, on 45th west meridian time, for days with complete records; by months, seasons, and year, Godhavn Magnetic Observatory, 1946

Month	1	3	5	7	9	11	13	15	17	19	21	23	Com- plete days	No. of com- plete days
Jan	945	938	922	935	922	935	933	927	919	912	909	902	925	31
Feb	448	442	435	439	456	449	451	455	461	435	419	404	441	28
Mar	392	386	362	359	380	386	402	414	395	407	408	385	390	26
Apr	360	342	343	347	364	357	359	380	366	354	360	336	356	28
May	115	122	91	110	108	104	134	147	141	125	149	127	123	31
Jun	25	20	20	7	44	31	67	48	79	56	77	50	44	29
Jul	18	27	18	33	52	44	67	86	98	107	81	64	58	27
Aug	46	61	78	57	89	53	90	100	99	90	102	65	78	30
Sep	217	247	239	223	260	243	244	262	260	236	256	240	244	30
Oct	248	232	231	220	246	238	258	262	222	240	266	222	240	20
Nov	588	582	582	634	602	632	658	630	656	622	692	690	631	5
Dec	722	734	727	741	750	743	763	762	759	769	758	761	749	29
I	676	674	666	687	682	690	701	694	699	684	694	689	686	93
II	304	302	294	287	312	306	316	330	311	309	322	296	307	104
III	51	58	52	52	73	58	90	95	104	94	102	76	75	117
Year	344	345	337	342	356	351	369	373	371	362	373	354	356	314

BIBLIOGRAPHY OF PUBLISHED PAPERS OF ANALYSES OF DATA FROM COMPTON-BENNETT COSMIC-RAY METERS

- Beardsley, N. F. 1940. Correlation between cosmic-ray intensity and upper air pressures and temperatures. *Phys. Rev.*, vol. 57, pp. 336-337.
- 1941. Correlation between cosmic-ray intensity at Cheltenham and the air temperatures and pressures for 1939. *Phys. Rev.*, vol. 59, pp. 233-237.
- 1941. Change in height of a mesotron-producing layer of air. *Phys. Rev.*, vol. 59, p. 402.
- Compton, A. H., and R. N. Turner. 1937. Cosmic rays on the Pacific Ocean. *Phys. Rev.*, vol. 52, pp. 799-814.
- Doan, R. L. 1936. Fluctuations in cosmic-ray ionization as given by several recording meters located at the same station. *Phys. Rev.*, vol. 49, pp. 107-122.
- Forbush, S. E. 1937. On diurnal variation in cosmic-ray intensity. *Terr. Mag.*, vol. 42, pp. 1-16.
- 1937. On the effects in cosmic-ray intensity observed during recent magnetic storm. *Phys. Rev.*, vol. 51, pp. 1108-1109.
- 1937. On sidereal diurnal variation in cosmic-ray intensity. *Phys. Rev.*, vol. 52, p. 1254.
- 1938. On cosmic-ray effects associated with magnetic storms. *Terr. Mag.*, vol. 43, pp. 203-218.
- 1938. On world-wide changes in cosmic-ray intensity. *Phys. Rev.*, vol. 54, pp. 975-988.
- 1939. A theory of world-wide periodic variations of cosmic radiation by M. S. Vallarta and O. Godart (Discussion). *Rev. Mod. Phys.*, vol. 11, p. 190.
- 1939. Cosmic radiation and terrestrial magnetism. *Cinquième Rapport, Comm. Relations Solaires et Terrestres*, pp. 171-175.
- 1940. On the 27-day and 13.5 day waves in cosmic-ray intensity and their relation to corresponding waves in terrestrial-magnetic activity. *Trans. Washington Meeting, September, 1939; Internat. Union Geod. Geophys., Ass. Terr. Mag. Electr., Bull. No. 11*, pp. 438-452.
- 1946. Three unusual cosmic-ray increases possibly due to charged particles from the Sun. *Phys. Rev.*, vol. 70, pp. 771-772.
- Gast, P. F., and D. H. Loughridge. 1941. Latitude effect of cosmic rays above 50°N latitude. *Phys. Rev.*, vol. 59, pp. 127-129.
- Gill, P. S. 1939. Long period variations of cosmic rays. *Phys. Rev.*, vol. 55, pp. 429-433.
- 1939. Further study of cosmic rays on the Pacific Ocean. *Phys. Rev.*, vol. 55, pp. 1151-1159.
- 1939. Time distribution of cosmic-ray bursts. *Phys. Rev.*, vol. 56, pp. 632-634.
- Hess, V. F., and E. B. Berry. 1941. Cosmic rays and the magnetic disturbance of September 18, 1941. *Phys. Rev.*, vol. 60, p. 746.
- Jesse, W. P., and R. L. Doan. 1938. The rate of production of very large cosmic-ray bursts as a function of lead shielding thickness. *Phys. Rev.*, vol. 53, pp. 691-693.
- and P. S. Gill. 1939. Latitude effect for very large cosmic-ray bursts. *Phys. Rev.*, vol. 55, p. 414.
- Lange, I., and S. E. Forbush. 1942. Note on the effect on cosmic-ray intensity of the magnetic storm of March 1, 1942. *Terr. Mag.*, vol. 47, pp. 185-186.
- , ——— 1942. Further note on the effect on cosmic-ray intensity of the magnetic storm of March 1, 1942. *Terr. Mag.*, vol. 47, pp. 331-334.
- Lapp, R. E. 1943. Note on large cosmic-ray bursts in an unshielded ionization chamber. *Phys. Rev.*, vol. 64, pp. 129-130.
- 1943. The origin of large bursts under thick shields. *Phys. Rev.*, vol. 64, pp. 254-255.
- Loughridge, D. H., and P. F. Gast. 1939. Air mass effect on cosmic-ray intensity. *Phys. Rev.*, vol. 56, pp. 1169-1170.
- , ——— 1940. Magnetic storm effect on cosmic rays at high latitudes. *Phys. Rev.*, vol. 57, p. 938.
- Thompson, J. L. 1937. Solar diurnal variation of cosmic-ray intensity as a function of latitude. *Phys. Rev.*, vol. 52, pp. 140-141.
- 1938. Solar diurnal variation of cosmic-ray intensity as a function of latitude. *Phys. Rev.*, vol. 54, pp. 93-96.
- 1939. A critical analysis for sidereal time variations of cosmic rays on the Pacific. *Phys. Rev.*, vol. 55, pp. 11-15.