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RESEARCHES OF THE DEPARTMENT OF TERRESTRIAL MAGNETISM

VOLUME XXI

Cosmic-Ray Results

Huancayo, Peru, January 1956–December 1959

Instituto Geofísico de Huancayo

Cheltenham, Maryland, January 1956–October 4, 1956
Fredericksburg, Virginia, October 5, 1956–December 1959

U. S. Coast and Geodetic Survey
Cheltenham Magnetic Observatory
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Christchurch, New Zealand, January 1956–June 1959

Department of Scientific and Industrial Research, Magnetic Survey Division

Godhavn, Greenland, January 1954–July 1959

Det Danske Meteorologiske Institut, Geofysisk Observatorium

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Instituto de Geofísica

LISELOTTE BEACH
S. E. FORBUSH

CARNEGIE INSTITUTION OF WASHINGTON PUBLICATION 175

WASHINGTON, D. C.

1961

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NOTE

On October 2, 1957, the balance current in the cosmic-ray meter at Huancayo was changed. To eliminate the resulting discontinuity in the tabulated departures from balance, the best estimate of the correction, from data to the end of 1957, was applied in the scaling of the records after October 2, 1957. A recent comparison of all the data from Huancayo and Fredericksburg through 1960 indicates that the above correction probably requires some alteration. A more reliable value is being derived; it will be included in a paper or letter, to the Journal of Geophysical Research, which will also redetermine whether any change in the departures from balance resulted from moving the meter from Cheltenham, Maryland, to Fredericksburg, Virginia, on October 5, 1956. No such change was indicated by the earlier data, and none was applied to the tabulated values after October 5, 1956.

Scott E. Forbush
March 1961

This book first issued April 1961

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FOREWORD

This is a third volume of cosmic-ray publications, which, we trust, will remain in scientific libraries throughout the world as a monument to the sustained cooperative efforts of a group of men with warm and lasting interest in the phenomena of geophysics. The elusive origins of the very high-energy radiations that come to our atmosphere from unknown reaches of space have not, as yet, been satisfactorily delineated by theory or by experiment. Because the orbits of charged particles are so comprehensively changed by their encounter with the magnetic field of the earth, directions of arrival of these radiations do not appear to be reliable indicators of the origins of the particles. Time variations of the radiations, however, suitably interpreted, may give some firm indications of the mechanisms in space that yield radiations of such enormous energies as are observed in cosmic-ray work. This was the expectation more than two decades ago, when the world network of cosmic-ray observing stations was set up by Carnegie Institution of Washington at the request of the late Professor R. A. Millikan, Professor A. H. Compton, and the late Dr. J. A. Fleming, who died in midsummer 1956. This volume presents in detail the data obtained at the Instituto Geofísico de Huancayo, Huancayo, Peru, and at the station operated by the U. S. Coast and Geodetic Survey at Cheltenham, Maryland. The Cheltenham instrument was moved to the new U. S. Coast and Geodetic Survey station near Fredericksburg, Virginia, in October 1956. The data obtained at Christchurch, New Zealand, and at Godhavn, Greenland, are summarized in this volume.

The principal guidance for these studies has been in the hands of Scott E. Forbush of this Department, and a great deal of the technical computation and analysis has been carried out by Mrs. Liselotte Beach. The faithful work of the several observers in the operation and maintenance of the cosmic-ray meters at the institutions mentioned was of course a foundation on which this work rests. Grateful acknowledgment is made to the Instituto Geofísico de Huancayo and its Director, Dr. A. A. Giesecke, Jr., for providing records from that station. These were obtained with equipment transferred as part of the Huancayo Magnetic Observatory by gift of the Department of Terrestrial Magnetism to the Peruvian Government on July 1, 1947. Special acknowledgment is due the staff of the Christchurch Magnetic Observatory for having scaled all the hourly cosmic-ray records at that station since April 1936.

Carnegie Institution is happy to have the privilege of publishing this joint volume for the various institutions concerned.

This work was carried out in part under a National Science Foundation Grant for the International Geophysical Year Cosmic Ray Program, which support is gratefully acknowledged.

M. A. Tuve, Director
Department of Terrestrial Magnetism
Carnegie Institution of Washington

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PREFACE

The installation, operation, and maintenance of the four Compton-Bennett ionization chambers which provided the data for this volume would have been impossible without the enthusiastic cooperation of several organizations and individuals. To the Instituto Geofísico de Huancayo and its Director, Albert A. Giesecke, we are grateful for making available the records from Huancayo. These were obtained with equipment belonging to the Huancayo Magnetic Observatory, which was transferred July 1, 1947, by gift of the Department of Terrestrial Magnetism to the Government of Peru. We express our appreciation to the Director of the U. S. Coast and Geodetic Survey for providing space for the meter at the Cheltenham Magnetic Observatory, and to the members of the staff of that observatory for efficient operation and maintenance of the equipment. Grateful acknowledgment is also made to the Director of the U. S Coast and Geodetic Survey for providing a building for the cosmic-ray meter at its new Fredericksburg (Virginia) Magnetic Observatory and to the observer in charge there, Robert E. Gebhardt, for transferring the meter from Cheltenham in October 1956. We acknowledge the cooperation of the Director, Magnetic Survey Division, Department of Scientific and Industrial Research of New Zealand, for making available the facilities of the Geophysical Observatory at Christchurch; and to the Director and staff of that observatory we are particularly grateful, not only for efficient operation and maintenance of the meter, but also for scaling all the hourly cosmic-ray records for that station since April 1936. We also wish to thank the Director, Det Danske Meteorologiske Institut, and the Director and staff of its Geofysisk Observatorium at Godhavn, Greenland, for the effective operation and maintenance of the meter there. Grateful acknowledgment is made to the Government of Denmark for transportation of equipment and supplies to Godhavn.

On July 1, 1959, the cosmic-ray meters at Christchurch, New Zealand, and at Godhavn, Greenland, were turned over respectively to the Department of Scientific and Industrial Research and to the Danske Meteorologiske Institut. Both these organizations have continued operation of the meters to date.

Liselotte Beach and S. E. Forbush
Department of Terrestrial Magnetism
June 25, 1960

COSMIC-RAY RESULTS FROM HUANCAYO, PERU; CHELTENHAM, MARYLAND–FREDERICKSBURG, VIRGINIA; CHRISTCHURCH, NEW ZEALAND; GODHAVN, GREENLAND; AND UNIVERSIDAD NACIONAL DE MÉXICO, INSTITUTO DE GEOFÍSICA, MÉXICO

INTRODUCTION

Volume XIV and volume XX of Researches of the Department of Terrestrial Magnetism (Carnegie Institution of Washington Publication 175) contained cosmic-ray data from Huancayo, Cheltenham, Christchurch, and Godhavn. Volume XIV contained bihourly mean values for Huancayo and summaries of data for all four stations through 1946. Volume XX extended the summaries from Huancayo, Cheltenham, and Christchurch through 1955 and from Godhavn through 1950, and in addition included not only bihourly mean values from Huancayo for the period January 1946 through December 1955 but also bihourly mean values from Cheltenham for the period March 1937 through December 1955.

Volume XIV described a typical installation, the instrument used, the absolute values of ionization, and procedures for reduction of the data. It also gave the geographical coordinates, the altitude, and the geomagnetic latitude of the stations. The Fredericksburg Magnetic Observatory is located at geographic latitude 38° 12′ N and longitude 77° 22′ W at an elevation of 69 meters above sea level. Universidad Nacional de México is at geographic latitude 19° 20′ N and longitude 99° 11′ W at an elevation of 2267 meters above sea level.

The present volume includes data subsequently obtained through 1959 from Huancayo and Cheltenham–Fredericksburg. The station at Cheltenham was moved to Fredericksburg on October 5, 1956; care was taken to ensure that there is no discontinuity in the published values at the time of this transfer. Bihourly means and summaries for Huancayo and Cheltenham–Fredericksburg are included. Summaries for Christchurch are for the period January 1956 through June 1959. Bihourly means and summaries for Godhavn are for the period January 1954 through July 1959. Also included are bihourly means and summaries from Universidad Nacional de México, Instituto de Geofísica, for the IGY period July 1957 through December 1958.

REDUCTION OF DATA

For Huancayo the data in the present volume were reduced as described in detail in Volume XIV, except that after 1945 no IBM (International Business Machines) equipment was available to facilitate the reductions. The barometric coefficients used throughout are those given in Volume XIV.

For Godhavn and Cheltenham the corrections for barometric pressure were scaled directly from the trace of the recording aneroid barometer on the cosmic-ray record.

For Christchurch hourly mean pressures scaled at Christchurch are centered at 0.5, 1.5, 2.5., etc., hours. To correct the bihourly mean ionization at Christchurch for the interval 0-2 hours, for example, the average of the hourly mean pressures at 0.5 and 1.5 hours was used, and similarly for the other bihourly means. For Huancayo instantaneous values of pressure at each 75° WMT hour were scaled at Huancayo from an ordinary barograph. From 1936 through 1945, the bihourly values of ionization were corrected using instantaneous values of pressure read at the mid-point of these bihourly intervals. It was recently found that from January 1946 through December 1958 the procedure used for Huancayo was changed, for reasons which will never be understood! This changed erroneous procedure used the means of instantaneous values of pressure at hours 1 and 2, for example, to correct the bihourly value of ionization for the interval 0-2 hours. As a consequence, the pressure waves used to correct the ionization have their phases one-half hour too late. Fortunately, the resulting error in published bihourly means corrected for pressure for Huancayo never amounts to more than ±0.2 per cent, which is of no serious consequence except for effects on diurnal variation from a large number of days, since the standard deviation of bihourly values at Huancayo is about 0.4 per cent.

Beginning with January 1959, the correct procedure was re-established for correcting bihourly mean values of ionization for pressure at Huancayo.

Table A gives for the 24-hour and 12-hour waves, on 75° WMT, the corrections for each month of the year,

Table A. Derivation of corrections to be added in the interval January 1946 through December 1958 to harmonic coefficients on 75° WMT for Huancayo derived from published bihourly pressure-corrected values

	Harmonic coefficients * for pressure in units of 0.01 mm Hg								Additive correction ‡ in units of 0.001%			
	Correct values A				A with phase 0.5 hour earlier †							
	24-hour wave		12-hour wave		24-hour wave		12-hour wave		24-hour wave		12-hour wave	
	a_{11}	b_{11}	a_{21}	b_{21}	a_{12}	b_{12}	a_{22}	b_{22}	a_1	b_1	a_2	b_2
Jan	+19	+81	+48	-84	+29	+78	+25	-94	-30	+9	+69	+30
Feb	14	82	51	76	25	79	30	86	33	9	63	30
Mar	14	82	50	80	25	79	28	90	33	9	66	30
Apr	13	86	42	81	24	84	20	89	33	6	66	24
May	19	99	39	86	32	96	16	93	39	9	69	21
Jun	14	106	41	83	28	103	18	91	42	9	69	24
Jul	14	107	40	88	28	104	16	95	42	9	72	24
Aug	15	114	38	93	30	111	13	100	45	9	75	24
Sep	24	101	37	98	37	97	10	104	39	12	81	18
Oct	30	95	35	103	42	90	7	108	36	15	84	15
Nov	24	95	34	96	36	91	8	102	36	12	78	18
Dec	27	86	36	89	38	82	12	95	33	12	72	18
Sum	+227	+1134	+491	-1057	+374	+1094	+203	-1147	-441	+120	+864	+276
Mean	+18.9	+94.5	+40.9	-88.1	+31.2	+91.2	+16.9	-95.6	-37	+10	+72	+23

* Derived from averages for 1946, 1948, 1950, 1952, 1954.

† These coefficients are those that would be obtained from harmonic analysis of bihourly pressure values centered ½ hour late when these bihourly pressures are assumed, in the harmonic analysis, to be centered at the correct time.

‡ From $(a_{11} - a_{12}) \times 0.030$, $(b_{11} - b_{12}) \times 0.030$, etc.

to be added to the 24-hour and 12-hour waves obtained from harmonic analysis of the ionization erroneously corrected for pressure. Table A shows also the derivation of these corrections. If harmonic analysis of data in the interval January 1946 through December 1958 are made using bihourly means on GMT and with origin at 0.0 hour GMT, then the coordinates of the corrections in Table A must be referred to the appropriate reference axes.

In a paper entitled "Diurnal Variation in Cosmic-Ray Intensity, 1937-1959, at Cheltenham (Fredericksburg), Huancayo, and Christchurch" by Scott E. Forbush and D. Venkatesan, tables are given for the annual mean 24-hour and 12-hour waves at these three stations. In these tables, the values of these harmonic coefficients for Huancayo for the period January 1946 through December 1958 are those that would be obtained from properly applied pressure corrections during that interval.

This paper was published in the Journal of Geophysical Research, volume 65, pages 2213-2226, August 1960. It also contains a critical examination of the errors that can arise from inevitable friction (and imperfect temperature compensation) in recording barographs and microbarographs.

Since installation of the meters at Huancayo and Cheltenham, the argon pressure at 15° C has remained constant through 1955 at 740 and 700 lb in.$^{-2}$, respectively. For Christchurch the argon pressure at 15° C has remained constant through June 1959 at 740 lb in.$^{-2}$ since November 10, 1938; and at Godhavn it has stayed constant from September 1944 through July 1959 at 580 lb in.$^{-2}$ For Godhavn all departures from balance have been normalized to argon pressure 700 lb in.$^{-2}$

It is important to note that all data in the present volume, as in volume XIV and in volume XX, are corrected only for barometric pressure. No other meteorological corrections have been applied. Consequently, seasonal waves are present in the data for all stations except perhaps Huancayo. In addition, the data at all stations except Cheltenham indicate slow changes in the background intensity. These instrumental drifts and seasonal variations are described in "World-Wide Cosmic-Ray Variations, 1937-1952," Journal of Geophysical Research, volume 59, pages 525-542, December 1954.

DESCRIPTION OF TABLES

Instituto Geofísico de Huancayo

Tables 1-48.—Monthly tables for the period January 1956 through December 1959 contain bihourly mean values of departure from balance corrected to 510 mm Hg. Bihourly mean values are centered at the indicated Greenwich mean hours. Tabular values are in units of 0.1 per cent of total cosmic-ray ionization with 6.0 per cent added.

Tables 49-52.—Annual tables for the period 1956 through 1959 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 6.0 per cent added to obtain the tabulated values. Superscripts a to k indicate the number of missing bihourly values 1 to 11, respectively.

Tables 53-56.—Annual tables for the period 1956 through 1959 contain bihourly values of diurnal variation in departures from balance, corrected to 510 mm Hg, centered at the indicated Greenwich mean hours. Tabulations are by months, seasons, and years, from days with complete records. Means of 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 6.0 per cent added.

Cheltenham Magnetic Observatory[1]
Fredericksburg Magnetic Observatory

Tables 57-104.—Monthly tables for the period January 1956 through December 1959 (tables 57-65 at Cheltenham, tables 66-104 at Fredericksburg) contain bihourly mean values of departures from balance, corrected to 760 mm Hg. Bihourly mean values are centered at the indicated Greenwich mean hours. Tabular values are in units of 0.1 per cent of total cosmic-ray ionization, with 10.0 per cent added.

Tables 105-108.—Annual tables for the period 1956 through 1959 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 per cent added to obtain the tabulated values. Superscripts a to k indicate the number of missing bihourly values 1 to 11, respectively.

Tables 109-112.—Annual tables for the period 1956 through 1959 contain bihourly values of diurnal variation in departures from balance, corrected to 760 mm Hg, centered at the indicated Greenwich mean 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.

[1] The station was moved from Cheltenham to Fredericksburg on October 5, 1956.

Christchurch Magnetic Observatory

Tables 113-116.—Annual tables for the period 1956 through June 1959 contain daily means of hourly departures from balance, corrected to 29.00 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.

Tables 117-120.—Annual tables for the period 1956 through June 1959 contain bihourly values of diurnal variation in departures from balance, corrected to 29.00 in. Hg, centered at the indicated Greenwich mean 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.

Godhavn Magnetic Observatory

Tables 121-187.—Monthly tables for the period January 1954 through July 1959 contain bihourly mean values of departures from balance corrected to 760 mm Hg. Bihourly mean values are centered at the indicated Greenwich mean hours. Tabular values are in units of 0.1 per cent of total cosmic-ray ionization, with 13.0 per cent added.

Tables 188-193.—Annual tables for the period 1954 through July 1959 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.

Tables 194-199.—Annual tables for the period 1954 through July 1959 contain bihourly values of diurnal variation in departures from balance, corrected to 760

mm Hg, centered at the indicated Greenwich mean hours, by months, seasons, and years, from days with complete records. Means of 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.

Universidad Nacional de México
Instituto de Geofísica

Tables 200-217.—Monthly tables for the period July 1957 through December 1958 contain bihourly mean values of departures from balance, corrected to 585 mm Hg. Bihourly mean values are centered at the indicated Greenwich mean hours. Tabular values are in units of 0.1 per cent of total cosmic-ray ionization, with 6.0 per cent added.

Tables 218-219.—Annual tables for the period July 1957 through 1958 contain daily means of hourly departures from balance, corrected to 585 mm Hg. Tabular values, by months, are in units of 0.1 per cent of total cosmic-ray ionization, with 6.0 per cent added to obtain the tabulated values. Superscripts a to k indicate the number of missing bihourly values 1 to 11, respectively.

Tables 220-221.—Annual tables for the period July 1957 through 1958 contain bihourly values of diurnal variation in departures from balance, corrected to 585 mm Hg, centered at the indicated Greenwich mean 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 6.0 per cent added to obtain the tabulated values.

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Cheltenham Magnetic Observatory, January-October 1956
Fredericksburg Magnetic Observatory, October 1956-December 1959

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Universidad Nacional de México, Instituto de Geofísica

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INSTITUTO GEOFISICO DE HUANCAYO

JANUARY 1956

TABLE 1

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	141	137	130	141	139	142	139	136	144	141	138	139		1667	139						1
2	129	131	135	136	137	134	131	133	145	133	146	141		1631	136						2
3	133	139	133	127	144	135	135	139	140	142	142	147		1656	138						3
4	143	143	137	138	143	141	142	141	139	135	135	142		1679	140						4
5	141	138	135	140	148	139	143	144	144	145	143	139		1699	142						5
6	127	139	138	142	139	138	133	144	140	136	141	131		1648	137						6
7	131	134												(265)	(132)	2					7
8	147	138	141	139	137	142	135	134	143	138	137	140		1671	139						8
9	137	145	133	136	136	140	135	137	135	132	129	137		1632	136						9
10	139	134	139	142	141	145	146	142	140	142	134	135		1679	140						10
11	143	135	144	145	143	144	141	145	143	139	143	150		1715	143						11
12	134	136	139	137	146	139	151	145	138	141	146	137		1689	141						12
13	144	129	138	138	138	144	141	141	147	138	140	140		1678	140						13
14	136	137	138	137	138	134	135	142	138	136	138	144		1653	138						14
15	142	134	135	142	141	137	137	138	140	142	138	134		1660	138						15
16	138	137	134	139	146	136	139	132	144	139	138	142		1664	139						16
17	137	138	134	139	133	135	136	138	140	140	134	132		1636	136						17
18	144	136	131	138	137	138	140	143	136	134	139	133		1649	137						18
19									143	132	136	133		(544)	(136)	4					19
20	135	134	127	126	124	131	132	136	136	138	127	126		1572	131						20
21	126	126	122	121	133	127	136	129	136	134	123	126		1539	128						21
22	124	116	129	126	127	126	137	131	128	125	133	129		1531	128						22
23	130	123	136	129	140	127	135	127	119	130	122	135		1553	129						23
24	131	137	133	135	134	135	137	132	125	137	133	135		1594	133						24
25	136	134	136	136	132	129	132	124	137	135	135	132		1598	133						25
26	139	130	133	134	135	145	139	137	127	137	133	128		1617	135						26
27	133	134	130	132	129	133	146	131	132	138	132	129		1599	133						27
28	132	129	130	133	137	141	139	144	141	136	141	130		1633	136						28
29	130	137	132	132	130	131	130	125	136	133	131	133		1580	132						29
30	125	131	131	132	134	130	137	133	139	140	133	137		1602	134						30
31	128	138	127	138	135	133	134	133	132	139	133	129		1599	133			DAYS		MEAN	31
Sum*	3924	3885	3880	3930	3976	3951	3993	3956	3984	3975	3937	3932		47323	3944•	COMPLETE		29	=	136.0	
Mean*	135.3	134.0	133.8	135.5	137.1	136.2	137.7	136.4	137.4	137.1	135.8	135.6	→	1631.9	→	COMPLETE		29	=	136.0	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														4212•	ALL		31	=	135.9	

INSTITUTO GEOFISICO DE HUANCAYO

FEBRUARY 1956

TABLE 2 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	142	142	130	141	131	138	136	134	152	145	141	139		1671	139						1
2	141	128	138	142	136	136	130	143	139	142	140	138		1653	138						2
3	138	141	132	140	152	132	133	135	141	145	132	141		1662	138						3
4	133	136	139	139	146	142	138	134	140	143	137	141		1668	139						4
5	140	144	143	137	135	145	140	137	131	136	143	139		1670	139						5
6	134	132	133	136	132	140	140	136	137	131	138	142		1631	136						6
7	139	139	145	136	140	147	148	137	141	142	141	137		1692	141						7
8	139	143	146	141	145	144	130	139	141	145	145	143		1701	142						8
9	146	137	148	140	134	147	142	142	139	144	145	142		1706	142						9
10	146	145	143	136	135	143	141	138	141	147	136	143		1694	141						10
11	140	146	136	137	128	141	137	133	141	136	137	141		1653	138						11
12	135	132	137	136	144	147	131	133	133	139	130	131		1628	136						12
13	129	132				133		125	135	126	134	145		(1059)	(132)	8					13
14	130	138		130	132	136	141			128	130			(1065)	(133)	8					14
15	138		135	135	128	132			130	127	131	131		(1187)	(132)	9					15
16	140			130	136			131	134		129	128		(928)	(133)	7					16
17	131	127	126	123	120	117	113	120	122	122	121	118		1460	122						17
18	119	122	116	128	121	116	113	119	121	122	110	111		1418	118						18
19	116	114	107	109	104	115	116	113	111	123	118	119		1365	114						19
20	111	112	119	112	119	113	112	118	115	117	121	121		1390	116						20
21	116	119	116	126	126	131	128	122	125	129	122	122		1482	124						21
22	126	118	119	125	132	129	135	128	129	128	120	121		1510	126						22
23	123	137	136	123	122	130	124	131	133	133	133	131		1556	130						23
24	127	124	117	124	134	133	130	122	128	130	135	132		1536	128						24
25	127	127	122	122	126	132	121	116	116	118	121	127		1475	123						25
26	123	120	118	116	112	123	128	130	121	130	126	112		1459	122						26
27	122	118	120	135	126	126	124	121	125	122	134	126		1499	125						27
28	126	120		134	130	125	129	128	128	128	126	130		(1404)	(128)	11					28
29	131	127	127	124	130	129	130	126	138	132	135	123		1552	129						29
30																					30
31																			DAYS		MEAN 31
Sum*	3145	3130	3113	3128	3130	3196	3120	3107	3160	3201	3161	3140		37731	3146•	COMPLETE			24	=	131.1
Mean*	131.0	130.4	129.7	130.3	130.4	133.2	130.0	129.5	131.7	133.4	131.7	130.8	→	1572.1	→	COMPLETE			24	=	131.0
															3804•	ALL			29	=	131.2

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

INSTITUTO GEOFISICO DE HUANCAYO

MARCH 1956

TABLE 3 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	123	132	127	132	141	135	132	127	127	128	138	131		1573	131						1
2	133	131	135	133	144	138	135	136	131	134	134	136		1620	135						2
3	127	119	113	122	125	133	129	121	127	134	130	123		1503	125						3
4	119	125	122	119	131	136	137	126	117	121	122	123		1498	125						4
5	125	128	128	127	133	127	133	132	129	133	132	135		1562	130						5
6	137	123	130	136	136	136	133	141	136	137	139	140		1624	135						6
7	135	138	137	132	130	136	143	138	145	135	133	133		1635	136						7
8	133	131	131	128	136	138	138	137	141	141	128	139		1621	135						8
9	126	133	134	129	143	143	142	140	135	141	130	127		1623	135						9
10	138	133	136	127	140	147	140	126	124	113	130	125		1579	132						10
11	132	131	133	135	130	123	128	124	126	131	129	126		1548	129						11
12	131	119	120	122	121	125	118	120	114	130	123	114		1457	121						12
13	118	110	112	113	114	123	115	120	122	124	125	116		1412	118						13
14	118	110	118	119	126	124	127	122	130	121	128	126		1469	122						14
15	123	122	123	127	122	122	125	127	128	136	127	122		1504	125						15
16	121	110	126	129	123	123	128	125	123	133	129	125		1495	125						16
17	123	114	113	125	119	123	117	125	120	121	124	131		1455	121						17
18	122	117	118	113	127	122	123	121	120	127	128	122		1460	122						18
19	121	112	124	116	122	123	125	124	119	123	120	130		1459	122						19
20	133	118	132	130	143	127	125	121	123	124	132	133		1541	128						20
21	135	137	138	128	130	134	130	135	132	136	129	126		1590	132						21
22	123	124	126	128	130	124	124	128	129	120	126	120		1502	125						22
23	117	124	122	124	132	133	135	121	131	127	125	129		1520	127						23
24	125	130	118	123	129	130	129	126	132	125	122	122		1511	126						24
25	126	130	120	120	130	123	124	121	125	130	123	124		1496	125						25
26	122	130	133	126	125	129	125	128	119	127	136	130		1524	127						26
27	128	126	124	132	134	133	126	123	127	126	129	134		1542	128						27
28	125	119	121	129	122	131	132	137	131	136	135	123		1541	128						28
29	132	127	130	121	130	123	134	136	127	127	122	125		1534	128						29
30	124	121	130	120	126	126	127	127	117	137	130	131		1516	126						30
31	121	124	127	125	123	131	125	123	124	118	129	116		1486	124			DAYS		MEAN	31
*Sum	3916	3848	3901	3890	4017	4021	4004	3958	3931	3996	3981	3937		47400	3948 •	COMPLETE		31	=	127.4	
*Mean	126.3	124.1	125.8	125.5	129.6	129.7	129.2	127.7	126.8	128.9	128.4	127.0	→	1529.0	→	COMPLETE		31	=	127.4	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

INSTITUTO GEOFISICO DE HUANCAYO

APRIL 1956

TABLE 4

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + .60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	126	125	125	130	123	122	138	133	122	133	125	126		1528	127					1
2	131	132	128	133	130	127	123	132	125	130	134	137		1562	130					2
3	124	128	123	135	136	124	128	135	124	138	136	130		1561	130					3
4	128	122	127	126	129	135	135	135	130	127	132	129		1555	130					4
5	136	129	137	129	136	137	127	124	141	133	138	126		1593	133					5
6	136	126	129	132	130	121	134	132	137	142	125	126		1560	130					6
7	139	130	130	133	131	127	122	133	138	137				(1320)	(132)	10				7
8	128	127	131	128	124	142	125	139	130	131	132	130		1567	131					8
9	129	132	132	130	116	131	125	117	124	132	141	128		1537	128					9
10	125	124	126	128	141	128	135	127	129	136	130	134		1563	130					10
11	132	134	131	132	128	132	126	129	132	140	139	127		1582	132					11
12	128	126	122	127	129	134	129	133	126	126	134	123		1537	128					12
13	122	120	117	120	119	132	130	124	133	131	133	126		1507	126					13
14	120	125	124	129	125	120	125	125	132	130	132	132		1519	127					14
15	128	125	120	125	131	128	132	134	135	125	126	129		1538	128					15
16	118	114	120	126	122	120	126	119	126	126	132	126		1475	123					16
17	124	127	126	126	119	125	129	127	130	125	127	129		1514	126					17
18	128	134	130	134	135	127	127	127	127	126	124	127		1546	129					18
19	129	128	128	134	130	129	134	127	131	123	127	123		1543	129					19
20	127	122	137	125	128	125	118	122	130	125	124	125		1508	126					20
21	134	132	126	119	133	131	133	113	117	117	126	115		1496	125					21
22	110	117	120	116	128	123	129	125	122	118	120	125		1453	121					22
23	124	119	120	120	126	125	123	127	114	127	130	124		1479	123					23
24	121	123	125	126	135	131	124	128	121	132	128	137		1531	128					24
25	120	124	132	126	131	128	132	131	124	122	125	119		1514	126					25
26	134	127	124	125	131	135	130	144	127	131	132	131		1571	131					26
27	123	135	129	131	135	127		124	136	123	128	123		(1414)	(129)	11				27
28	120	110	101	120	121	123	116	129	120	119	113	119		1411	118					28
29	119	112	121	128	127	128	119	126	123	130	113	117		1463	122					29
30	109	111	119	125	120	130	129	121	125	123	127	121		1460	122					30
31																		DAYS	MEAN	31
*Sum	3510	3475	3501	3554	3583	3593	3571	3585	3557	3598	3605	3541		42673	3559•	COMPLETE		28	= 127.1	
*Mean	125.4	124.1	125.0	126.9	128.0	128.3	127.5	128.0	127.0	128.5	128.8	126.5	→	1524.0	→	COMPLETE		28	= 127.0	
															3820•	ALL		30	= 127.3	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

INSTITUTO GEOFISICO DE HUANCAYO

TABLE 5 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	118	116	127	121	119	125	122	121	134	136	124	124		1487	124						1
2	122	115	119	126	132	135	139	125	128	138	138	124		1541	128						2
3	122	117	126	130	134	129	132	136	151	135	133	126		1571	131						3
4	126	122	121	126	131	133	135	134	139	135	129	125		1556	130						4
5	135	135	129	127	136	134	143	130	128	136	134	126		1593	133						5
6	123	130	125	121	127	123	134	126	126	124	132	122		1513	126						6
7	126	126	128	131	121	128	127	125	131	127	129	124		1523	127						7
8	126	120	121	117	120	129	131	117	124	135	121	128		1489	124						8
9	124	124	117	124	121	116	126	130	127	123	134	132		1498	125						9
10	122	127	124	128	123	127	127	124	122	127	126	132		1509	126						10
11	126	132	125	120	124	134	136	129	127	130		132		(1415)	(129)	11					11
12	126	121	117	112	126	119	129	125	122	131	124	111		1463	122						12
13	116	107	107	117	112	122	117	112	119	130	118	118		1395	116						13
14	121	112	118	118	120	125	120	118	125	120	133	136		1466	122						14
15	123	124	121	116	123	118	128	124	140	134	125	125		1501	125						15
16	132	134	142	124	114	121	116	115	119	117	113	113		1460	122						16
17	113	108	113	116	116	108	109	118	105	106	114	119		1345	112						17
18	110	107	111	120	118	115	123	108	111	116	119	122		1380	115						18
19	125	117	109	120	130	120	110	125	112	116	121	119		1424	119						19
20	121	116	112	108	103	116	129	122	120	126	117	121		1411	118						20
21	121	127	114	112	117	116	123	112	121	126	125	115		1429	119						21
22	113	113	122	121	120	126	125	123	131	130	131	127		1482	124						22
23	120	121	122	116	120	116	121	123	120	126	124	124		1453	121						23
24	118	120	124	116	126	118	129	122	114	119	114	115		1435	120						24
25	110	112	127	112	123	126	121	117	118	113	119	116		1414	118						25
26	121	113	120	120	121	120	132	127	130	131	129	122		1486	124						26
27	121	122	130	124	128	131	138	125	127	142	129	127		1544	129						27
28	130	127	130	128	130	139	125	136	142	131	138	129		1585	132						28
29	131	124	127	131	131	135	133	133	130	133	133	134		1575	131						29
30	127	127	128	125	131	125	129	127	127	137	131	128		1542	128						30
31	130	132	131	130	133	139	137	134	126	133	128	130		1583	132			DAYS		MEAN	31
Sum*	3673	3616	3662	3637	3706	3734	3810	3714	3769	3833	3785	3714		44653	3723	COMPLETE		30	=	124.1	
Mean*	122.4	120.5	122.1	121.2	123.5	124.5	127.0	123.8	125.6	127.8	126.2	123.8	→	1488.4	→	COMPLETE		30	=	124.0	
															3852•	ALL		31	=	124.0	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

INSTITUTO GEOFISICO DE HUANCAYO

TABLE 6 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	128	124	126	128	129	131	124	134	132	134	132	140		1562	130						1
2	134	135	127	124	119	126	130	128	129	131	127	130		1540	128						2
3	133	119	122	127	121	120	135	123	126	125	123	128		1502	125						3
4	122	135	131	124	127	124	127	128	134	123	138	126		1539	128						4
5	131	127												(258)	(129)	2					5
6	121	115	110	114	113	130	130	128	120	127	120	134		1462	122						6
7	110	118	122	127	122	129	118	128	124	118	116	116		1448	121						7
8	122	107	124	128	122	121	114	118	114	126	119	118		1433	119						8
9	117	113	117	120	125	130	114	121	123	123	123	122		1448	121						9
10	126	121	123	128	118	119	126	120	127	120	129	123		1480	123						10
11	118	116	109	115	117	113	118	116	112	118	112	116		1380	115						11
12	116	124	114	112	127	114	110	114	122	116	118	119		1406	117						12
13	119	121	117	116	109	115	124	117	131	123	121	111		1424	119						13
14	123	114	117	122	122	118	112	126	119	128	117	117		1435	120						14
15	116	120	114	120	114	129	128	121	124	115	122	116		1439	120						15
16	126	123	118	125	117	118	116	125	123	134	124	116		1465	122						16
17	119	121	119	126	130	132	132	127	129	123	121	119		1498	125						17
18	122	138	119	128	132	134	132	125	130	131	130	127		1548	129						18
19	128	121	133	131	132	134	126	140	128		134	134		(1441)	(131)	11					19
20	135	127	132	134	142	137	140	135	124	132	128	131		1597	133						20
21	130	134	126	137	134	130	128	134	137	127	134	126		1577	131						21
22	141	130	132	131	131	132	135	135	128	135	126	134		1590	132						22
23	131	133	126	130	128	132	134	131	130	138	131	126		1570	131						23
24	133	127	133	127	125	134	134	137	132	130	135	137		1584	132						24
25	138	135	145	146	133	128	132	133	131	134	127	132		1614	134						25
26	123	134	134	138	132	143	137	141	139	139	136	136		1632	136						26
27	128	136	127	134	126	131	128	138	137	128	132	128		1573	131						27
28	130	131	133	133	124	134	132	133	127	130	133	126		1566	130						28
29	125	136	124	130	125	132	140	133	133	126	122	134		1560	130						29
30	127	125	123	128	132	125	126	128	134	128	125	139		1540	128						30
31																		DAYS		MEAN	31
*Sum	3513	3512	3464	3552	3496	3561	3556	3577	3571	3562	3521	3527		42412	3532	COMPLETE		28	=	126.1	
*Mean	125.4	125.4	123.7	126.9	124.9	127.2	127.0	127.8	127.5	127.2	125.8	126.0	→	1514.8	→	COMPLETE		28	=	126.2	
															379	ALL		30	=	126.4	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

INSTITUTO GEOFISICO DE HUANCAYO JULY 1956

TABLE 7 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	129	120	135	125	129	126	128	134	139	138	141	129		1573	131						1
2	131	131	129	127	134	133	134	138	139	141	137	137		1611	134						2
3	131	144	139	138	132	134	128	133	140	141	139	138		1637	136						3
4	139	137	135	143	142	146	136	138	144	137	132	144		1673	139						4
5	132	132	135	138	129	134	131	132	142	137	140	137		1619	135						5
6	131	137	133	138	135	133	142	139	138	139	141	136		1642	137						6
7	131	140	137	135	141	148	136	139	134	135	137	146		1659	138						7
8	132	131	134	147	140	141	137	135	136	140				(1373)	(137)	10					8
9	138	130	128	128	125	131	114	123	138	131	129	136		1551	129						9
10	127	142	127	131	129	136	142	127	134	129	123	137		1584	132						10
11	119	136	116	128	124	124	121	122	121	124	128	131		1494	124						11
12	127	125	129	132	123	127	125	134	129	130	133	132		1546	129						12
13	127	123	125	133	130	130	119	120	119	118	118	119		1481	123						13
14	122	116	124	120	120	121	113	116	117	122	126	117		1434	120						14
15	117	113	117	122	113	125	120	119	118	124	121	124		1433	119						15
16	130	130	127	128										(515)	(129)	4					16
17	129	129	130	129	124	129	122	132	133	137	131	125		1550	129						17
18	125	126	124	134	134	134	126	131	130	124	126	128		1542	128						18
19	127	130	128	133	130	121	139	145	135	121	134	133		1576	131						19
20	126	125	128	123	133	130	133	123	139	141	134	127		1562	130						20
21	135	129	134	130	134	134	139	140	136	130	138	135		1614	134						21
22	116	116	118	129	116	127	123	125	126	124	116	121		1457	121						22
23	131	129	124	128	129	129	139	138	140	133	141	138		1599	133						23
24	132	138	139	141	138	150	149	145	142	141	133	141		1689	141						24
25	130	141	124	140	141	149	139	149	139	134	131	130		1647	137						25
26	134	119	125	123	128	130	132	130	129	122	128	132		1532	128						26
27	131	123	129	128	132	126	123	133	122	130	121	131		1529	127						27
28	138	130	121	118	131	132	120	132	132	127	127	128		1536	128						28
29	131	124	137	132	142	133	132	136	134	133	133	135		1602	134						29
30	138	130	132	130	125	137	138	136	127	141	135	131		1600	133						30
31	124	134	129	132	129	121	122	137	138	143	141	142		1592	133			DAYS		MEAN	31
*Sum	3748	3749	3731	3788	3772	3830	3765	3846	3854	3827	3814	3840		45564	3793 •	COMPLETE		29	=	130.8	
*Mean	129.2	129.3	128.7	130.6	130.1	132.1	129.8	132.6	132.9	132.0	131.5	132.4	→	1571.2	→	COMPLETE		29	=	130.9	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														4059 •	ALL		31	=	130.9	

TABLE 8 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	128	137	134	131	127	137	131	128	137	132	140	134		1596	133						1
2	136	138	136	140	134	137	137	138	137	135	132	139		1639	137						2
3	131	132	134	138	145	142	129	134	137	133	139	136		1630	136						3
4	131	144	139	137	137	135	130	135	130	139	138	128		1623	135						4
5	133	130	146	138	133	136	132	135	129	136	140	136		1624	135						5
6	133	126	134	128	147	137	136	138	128	134	132	129		1602	134						6
7	143	130	128	131	131	134	146	137	138	136	133	140		1627	136						7
8	137	137	126	131	130	124	133	138	139	136	131	124		1586	132						8
9	141	136	141	138	142	148	144	141	142	142	145	141		1701	142						9
10	137	147	139	135	136	141	145	143	140	137	143	145		1688	141						10
11	134	140	145	142	136	133	135	133	134	137	136	135		1640	137						11
12	125	126	120	131	129	125	125	118	124	133	124	122		1502	125						12
13	120	117	129	128	122	125	122	123	118	118	127	129		1478	123						13
14	119	126	131	127	128	129	126	130	131	122	136	132		1537	128						14
15	127	134	128	129	137	127	132	128	130	134	127	129		1562	130						15
16	136	131	121	128	137	131	130	134	133	127	140	133		1581	132						16
17	129	133	127	126	130	138	140	140	140	130	132	133		1598	133						17
18	128	128	129	130	138	141	139	131	131	138	136	133		1602	134						18
19	142	135	132	141	134	133	140	139	134	134	138	142		1644	137						19
20	135	133	128	129	133	145	136	139	145	144	135	140		1642	137						20
21	137	138	120	123	130	137	129	136	137	135	131	147		1600	133						21
22	134	128	125	127	128	133	142	139	132	139	135	132		1594	133						22
23	133	121	124	125	129	134	124	139	127	128	119	130		1533	128						23
24	126	128	123	115	127	118	126	126	125	124	121	122		1481	123						24
25	113	118	109	115	118	122	123	125	119	120	130	128		1440	120						25
26	122	123	115	123	122	121	111	120	121	124	132	122		1456	121						26
27	117	121	119	120	130	127	125	125	128	127	132	123		1494	124						27
28	132	129	117	128	125	125	131	127	127	131	129	128		1529	127						28
29	127	130	124	126	125	129	136	126	126	131	134	120		1534	128						29
30	133	129	127	130	133	138	134	126	129	133	130	126		1568	131						30
31	124	129	132	139	138	136	134	130	129	126	125	118		1560	130			DAYS		MEAN	31
Sum*	4043	4054	3982	4029	4091	4118	4103	4101	4077	4095	4122	4076		48891	4075•	COMPLETE		31	=	131.5	
Mean*	130.4	130.8	128.5	130.0	132.0	132.8	132.4	132.3	131.5	132.1	133.0	131.5	→	1577.3	→	COMPLETE		31	=	131.4	
															•	ALL			=		

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

INSTITUTO GEOFISICO DE HUANCAYO

TABLE 9 — SEPTEMBER 1956

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean	B	Day
1	125	120	122	124	119	128	125	121	122	123	113	117	1459	122		1
2	129	111	113	111	119	111	106	117	108	103	115	112	1355	113		2
3	109	105	109	118	113	122	124	122	121	116	109	116	1384	115		3
4	116	120	116	116	124	115	121	131	129	122	119	121	1450	121		4
5	117	124	119	125	135	120	126	121	124	116	116	128	1471	123		5
6	115	119	121	125	126	122	136	134	127	142	131	139	1537	128		6
7	133	122	126	138	132	138	130	136	133	141	127	131	1587	132		7
8	134	135	118	120	128	135	130	136	131	135	129	129	1560	130		8
9	114	108	110	115	119	121	123	123	130	117	122	124	1426	119		9
10	129	114	122	119		124	121	117	118	120	120	120	(1324)	(120)	11	10
11	122	117	123	124	120	123	118	130	129	117	124	121	1468	122		11
12	122	120	110	123	121	126	122	116	119	124	118	133	1454	121		12
13	131	118	120	122	120	124	122	128	127	128	122	125	1487	124		13
14	122	125	126	121	119	130	119	127	128	139	132	126	1514	126		14
15	121	120	128	124	127	135	136	130	126	131	128	130	1536	128		15
16	125	128	130	131	137	135	133	139	132	139	135	136	1600	133		16
17	124	128	132	136	127	130	137	143	138	133	133	134	1595	133		17
18	136	127	138	140	137	135	136	139	140	147	135	131	1641	137		18
19	135	130	131	136	134	139	140	136	138	141	132	140	1632	136		19
20	139	142	143	142	142	128	133	129	136	136	131	119	1620	135		20
21	125	131	123	126	126	128	133	133	128	128	131	136	1548	129		21
22	127	136	125	134	128	130	128	124	137	123	126	136	1554	130		22
23	125	116	128	129	123	128	123	128	133	128	126	126	1513	126		23
24	124	122	116	121	123	127	130	124	125	132	135		(1379)	(125)	11	24
25								129	124	124	131	132	(640)	(128)	5	25
26	134	123	134	127	140	130	130	129	127	137	130	124	1565	130		26
27	129	135	125	133	142	133	139	122	127	123	128	124	1560	130		27
28	127	129	130	138	127	128	136	126	124	133	132	134	1564	130		28
29	133	127		124	131	123	121		129	125	130	135	(1278)	(128)	10	29
30	127	140	130										(397)	(132)	3	30
31																31
Sum*	3136	3089	3100	3178	3185	3194	3206	3220	3214	3222	3144	3192	3808	3173•	COMPLETE	DAYS 25 = MEAN 126.9
Mean*	125.4	123.6	124.0	127.1	127.4	127.8	128.2	128.8	128.6	128.9	125.8	127.7	→ 1523.3	→	COMPLETE	25 = 126.9
														3806•	ALL	30 = 126.9

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

TABLE 10 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1		127	127	133	123	133	133		135	121	137	132		(1301)	(130)	10				1
2	136	130	131	134	133									(664)	(133)	5				2
3		124					132					131		(387)	(129)	3				3
4	132	134	132	132	135	130	139	138		143	136	134		(1485)	(135)	11				4
5	132	126	137	129	132	131	145	140	127	128	128	126		1581	132					5
6	125	122	129	122	125	121	129	132	133	130	130	121		1519	127					6
7	124	119	118	116	123	121	120	133	131	131	126	125		1487	124					7
8	112	122	120	128	128	119	123	124	124	130	124	127		1481	123					8
9	124	123	117	121	120	116	124	120	126	124	120	115		1450	121					9
10	116	119	118	133	119	130	115	124	122	130	120	119		1465	122					10
11	115	121	118	132	129	123	130	134	125	126	129	129		1511	126					11
12	127	124	120	120	130	119	124	132	126	122	121	135		1500	125					12
13	122	133	120	127	126	124	133	132	125	124	131	130		1527	127					13
14	130	132	129	130	132	130	127	136	136	132				(1314)	(131)	10				14
15							132	135	133	132	135	138		(805)	(134)	6				15
16	130	135	133	130	135	139	135	136	140	141	142	124		1620	135					16
17	132	138	134	134	140	138	140	136	141	132	136	139		1630	136					17
18	142	133	131	139	136	138	136	136	135	137	141	132		1636	136					18
19	137	130	132	135	130	130	140	143	138	140	137	126		1618	135					19
20	131	137	129	137	132	136	136	135	137	134	139	143		1626	136					20
21	133	133	134	130	133	135	136	135	139	130	127	138		1603	134					21
22	134	124	124	133	135	135	138	130	129	132	128	138		1580	132					22
23	143	124	129	143	136	134	134	140	136	131	135	142		1627	136					23
24	136	134	135	133	132	137	131	136	139	134	130	131		1608	134					24
25	136	133	135	132	134	131	129	134	135	134	141	135		1609	134					25
26	135	135	135	138	134	138	147	148	129	140	136	144		1659	138					26
27	137	136	131	137	144	143	140	137	139	138	138	135		1655	138					27
28	134	129	147	130	141	141	148	142	142	130	146	128		1658	138					28
29	126	131	129	127	132	126	127	134	136	131	132	138		1569	131					29
30	128	134	126	126	135	148	135	135	140	139	129	138		1613	134					30
31	143	137	135	134	146	136	134	138	142	147	139	137		1668	139			DAYS		MEAN 31
*Sum	3254	3232	3206	3266	3307	3289	3329	3366	3336	3315	3305	3295		39500	3293•	COMPLETE		25	=	131.7
*Mean	130.2	129.3	128.2	130.6	132.3	131.6	133.2	134.6	133.4	132.6	132.2	131.8	→	1580.0	→	COMPLETE		25	=	131.7
															4085•	ALL		31	=	131.8

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

TABLE 11 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean	B				Day
1	139	132	134	134	131	132	133	139	137	137	141	133	1622	135					1
2	129	127	136	128	126	135	126	135	142	132	133	133	1582	132					2
3	136	125	130	131	125	127	132	138	134	126	130	123	1557	130					3
4	118	131	123	133	131	123	130	133	125	124	130	127	1528	127					4
5	125	124	128	125	125	122							(749)	(125)	6				5
6									128	138	122	135	(523)	(131)	4				6
7	125	133	133	144	131	125	126	127	123	136	120	134	1557	130					7
8	127	129	127	121	126			130	133	125	122	135	(1275)	(128)	10				8
9	139	129	128	127	133	126	131	124	127	130	121	120	1535	128					9
10	106	119	110	118	108	113	115	111	105	119	120	120	1364	114					10
11	107	112	117	117	112	117	117	111	102	102	109	112	1335	111					11
12	113	106	112	114	109	112	109	117	119	112	117	111	1351	113					12
13	109	108	114	107	126	120	119	117	112	117	110	116	1375	115					13
14	120	113	121	128	119	123	125	128	121	118	123	127	1466	122					14
15	118	111	127	128	128	118	104	112	105	111	122	111	1395	116					15
16	111	111	107	98	109	114	119	112	122	122	109	110	1344	112					16
17	97	105	106	114	114	108	116	120	122	116	121	118	1357	113					17
18	111	113	114	118	121	125	117	119	129	116	122	118	1423	119					18
19	117	126	120	118	124	124	115	130	124	124	119	122	1463	122					19
20	117	119	116	127	117	122	124	118	126	122	132	124	1464	122					20
21	123	126	118	131	126	115	130	124	129	120	119	130	1491	124					21
22	126	122	120	112	113	126	118	121	116	116	122	121	1433	119					22
23	114	114	108	111					130	121			(698)	(116)	6				23
24	118	123	114	120	122	129	120	121	131	124	119	128	1469	122					24
25	134	120	121	127	128	127	128	125	122	121	119	119	1491	124					25
26	116	113	119	124	128	127	127	125	126	122	125	127	1479	123					26
27	114	123	118	128	133	123	115	133	125	126	137	130	1505	125					27
28	135	118	121	117	127	117	123	130	122	125	129	135	1499	125					28
29	127	124	125	112	124	117	121	132	123	134	119	118	1476	123					29
30	124	124	129	126	125	115	118	125	124	122	121	118	1471	123					30
31																	DAYS		MEAN 31
Sum*	3129	3113	3133	3181	3190	3160	3158	3227	3193	3174	3189	3185	38032	3169•	COMPLETE		26	=	121.9
Mean*	120.3	119.7	120.5	122.3	122.7	121.5	121.5	124.1	122.8	122.1	122.7	122.5	→ 1462.7	→	COMPLETE		26	=	121.9
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM													3669•	ALL		30	=	122.3

INSTITUTO GEOFISICO DE HUANCAYO

TABLE 12 — DECEMBER 1956

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	119	116	112	117	117	110	114	110	116	124	114	120		1389	116						1
2	121	117	111	117	105	109	118	111	115	119	128	123		1394	116						2
3	137	115	113	115	113	115	107	109	114	115	116	109		1378	115						3
4	115	106	111	113	114	108	110	121	118	117	115	112		1360	113						4
5	109	116	107	112	115	113	116	109	114	112	110	111		1344	112						5
6	117	110	110	118	112	117	117	117	116	116	119	117		1386	116						6
7	106	104	111	104	110	110	123	122	111	115	118	122		1356	113						7
8	112	106	119	114	115	115	119	121	122	110	116	113		1382	115						8
9	111	123	112	115	113	111	115	120	116	116	118	112		1382	115						9
10	104	105	106	120	120	119	112	120	114	125	118	116		1379	115						10
11	103	113	125	117	120	118	129	125	114	110	119	121		1414	118						11
12	124	121	122	114	123	121	123	119	127	123	124	125		1466	122						12
13	131	124	127	131	127	128	130	131	126	126	122	121		1524	127						13
14	129	126	119	118	126	124	127	117	125	122	125	120		1478	123						14
15	125	129	134	127	123	126	118	122	124	128	124	128		1508	126						15
16	119	122	129	139	137									(646)	(129)	5					16
17	120	120	124	122	114	136	130	128	126	134	128	128		1510	126						17
18	124	120	119	117	123	124	124	134	123	130	129	124		1491	124						18
19	134	120	114	120	120	124	117	111	114	117	122	119		1432	119						19
20	122	123	113	120	128	128	112	120	117	111	117	116		1427	119						20
21	121							108	115	114	120	111		(689)	(115)	6					21
22	115	110	102	109	107	116	121	113	113	114	110	113		1343	112						22
23	108	111	120	116	119	122	119	109	121	114	127	110		1396	116						23
24	116	113	115	124	119	120	107	117	115	121	122	127		1416	118						24
25	115	115	110	125	117	106	104	106	102	109	108	108		1325	110						25
26	108	98	96	97	109	115	103	91	97	104	105	112		1235	103						26
27	101	106	115	105	107	113	118	117	112	112	110	104		1320	110						27
28	105	96	79	83	91	99	102	106	107	110	101	100		1179	98						28
29	118	104	111	107	111	105	106	106	114	103	111	108		1304	109						29
30	107	111	106	109	112	114	105	110	121	107	105	116		1323	110						30
31	109	110	115	112	109	108	116	109	114	114	99	111		1326	110			DAYS		MEAN	31
*Sum	3365	3288	3278	3318	3339	3374	3362	3351	3368	3378	3380	3366		40167	3346•	COMPLETE		29	=	115.4	
*Mean	116.0	113.4	113.0	114.4	115.1	116.3	115.9	115.6	116.1	116.5	116.6	116.1	→	1385.0	→	COMPLETE		29	=	115.4	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														3590•	ALL		31	=	115.8	

INSTITUTO GEOFISICO DE HUANCAYO

JANUARY 1957

TABLE 13

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	106	101	109	111	114	118	108	105	105	107	103	109		1296	108						1
2	115	113	112	113	110	107	106	110	109	111	112	106		1324	110						2
3	104	96	103	100	104	97	107	100	97	101	102	109		1220	102						3
4	99	109	100	103	105	104	102	99	111	106	110	110		1258	105						4
5	105	105	108	115	109	105	114	108	104	112	113	114		1312	109						5
6	118	113	121	114	112	114	111	121	121	122	133	128		1428	119						6
7	122	126	109	122	113	121	119	124	121	116	124	114		1431	119						7
8	118	121	123	126	119	130	116	116	118	122	111	117		1437	120						8
9	124	118	120	129	122	118	126	118	115	115	122	122		1449	121						9
10	114	120	115	118	120	116	113	129	120	123	118	117		1423	119						10
11	123	119	114	116	126	122	123	125	127	124	131	127		1477	123						11
12	113	120	122	130	121	118	118	126	122	131	118	126		1465	122						12
13	113	116	126	113	117	120	119	122	125	125	132	127		1455	121						13
14	128	121	122	117	111	115	115	120			125	126		(1200)	(120)	10					14
15	128	121	128	121	126	123	124	119	117	123	131	122		1483	124						15
16	120	122	127	120	123	117	124	118	135	127	129	115		1477	123						16
17	116	115	117	121	115	111	120	119	123	114	128	120		1419	118						17
18	118	111	118	114	123	113	123	118	124	120	114	117		1413	118						18
19	109	113	110	120	116	118	112	121	124	120	122	118		1403	117						19
20	123	116	115	128	116	115	118	120	125	110	118	127		1431	119						20
21	114	112	119	121	117	125	122	128	123	125	103	85		1394	116						21
22	83	82	72	70	64	64	67	66	68	57	67	73		833	69						22
23	61	56	75	72	80	70	87	89	74	79	76	87		906	76						23
24	84	86	86	85	89	96	99	98	92	99	97	89		1100	92						24
25	90	90	87	90	98	94	92	98	91	84	89	98		1101	92						25
26	94	89	101	99	99	111	95	94	99	99	102	108		1190	99						26
27	105	107	112	96	102	105	105	100	112	106	114	114		1278	106						27
28	108	106	107	94	108	104	112	110	113	114	108	117		1301	108						28
29	98	112	119	117	104	114	120	110	97	101	112	104		1308	109						29
30	103	104	111	110	113	115	99	109	108	114	107	102		1295	108						30
31	102	105	97	96	107	100	110	107	104	108	103	108		1247	104			DAYS		MEAN	31
Sum*	3230	3224	3283	3284	3292	3285	3311	3327	3324	3315	3349	3330		39554	3296•	COMPLETE		30	=	109.9	
Mean*	107.7	107.5	109.4	109.5	109.7	109.5	110.4	110.9	110.8	110.5	111.6	111.0	→	1318.5	→	COMPLETE		30	=	109.9	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														3416•	ALL		31	=	110.2	

INSTITUTO GEOFISICO DE HUANCAYO

FEBRUARY 1957

TABLE 14

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	108	107	102	108	104	97	99	104	103	106	109	112		1259	105						1
2	109	109	114	103	103	117	108	113	111	109	112	111		1319	110						2
3	114	112	109	118	117	110	113	109	118	112	117	107		1356	113						3
4	112	105	116	118	116	119	107	111	108	119	116	119		1366	114						4
5	121	116	120	120	127	122	114	118	113	112	118	120		1421	118						5
6	121	115	111	112	110	113	113	114	112	125	120	116		1382	115						6
7	109	116	116	123	121	122	124	112	110	112	118	115		1398	116						7
8	109	114	108	117	121	108	114	115	122	122	123	122		1395	116						8
9	115	108	112	126	115	111	109	112	128			113		(1149)	(115)	10					9
10	112	113	116	111	111	113	116	120	130	120	119	116		1397	116						10
11	108	109	100	121	109		117	121	110	120	117	118		(1250)	(114)	11					11
12	109			112	112	108	112	116	124	122	116	114		(1145)	(114)	10					12
13	106	110	110	110	121	114	113	115	116	118	119	110		1362	114						13
14	112	110	117	117	111	112	115	115	125	115	118	118		1385	115						14
15	111	116	111	114	115	113	113	118	116	120	120	118		1385	115						15
16	114	113	114	120	119	118	115	119	118	117	119	122		1408	117						16
17	121	115	115	114	117	116	119	120	124	122	121	120		1424	119						17
18	116	120	118	108	122	117	116	121	115	123	114	127		1417	118						18
19	110	112	109	108	114	116	116	106	112	116	118	111		1348	112						19
20	119	110	114	117	109	109	106	125	112	121	113	111		1366	114						20
21	110	105	106	109	115	116	113	108	122	118	111	116		1349	112						21
22	111	120	114	117	107	123	120	122	115	102	114	124		1389	116						22
23	115	110	114	113	113	120	115	116	111	103	114	108		1352	113						23
24	113	108	118	101	109	114	113	117	116	110	109	113		1341	112						24
25	104	105	110	111	114	115	108	119	112	118	121	123		1360	113						25
26	125	117	112	114	114	116	121	115	121	120	122	126		1423	119						26
27	119	112	119	119	117	117	114	120	117	117	118	115		1404	117						27
28	120	117	104	112	118	128	123	120	112	113	116	120		1403	117						28
29																					29
30																					30
31																			DAYS		MEAN 31
*Sum	2841	2807	2817	2834	2865	2885	2848	2892	2891	2890	2919	2920		34409	2866•	COMPLETE			25	=	114.6
*Mean	113.6	112.3	112.7	113.4	114.6	115.4	113.9	115.7	115.6	115.6	116.8	116.8	→	1376.4	→	COMPLETE			25	=	114.7
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														3209•	ALL			28	=	114.6

INSTITUTO GEOFISICO DE HUANCAYO

MARCH 1957

TABLE 15

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	116	112	116	122	108	124	114	121	121	110	122	109		1395	116						1
2	121	122	117	114	107	116	114	111	105	116	120	121		1384	115						2
3	108	112	105	108	106	112	115	108	110	115	105	109		1313	109						3
4	117	107	107	109	108	116	109	110	112	115	112	116		1338	112						4
5	119	108	117	109	116	121	112	115	122	114	110	111		1374	114						5
6	112	112	125	114	117	117	118	114	120	117	118	122		1406	117						6
7	119	112	112	121	116	122	117	120	124	118	114	124		1419	118						7
8	119	112	116	125	116	122	125	130	118	131	125	127		1466	122						8
9	120	119	119	120	120	121	116	114	119	118	117	123		1426	119						9
10	116	108	112	121	117	117	108	111	108	112	96	97		1323	110						10
11	92	72	76	94	103	106	105	95	104	97	95	101		1140	95						11
12	108	95	105	106	113	112	108	120	118	122	114	108		1329	111						12
13	111	115		112	110	106	114	116	131	129	123	119		(1286)	(117)	11					13
14	116	112	116	107	112	113	117	119	115	124	118	113		1382	115						14
15	112	119	117	111	114	113	116	118	122	118	116	122		1398	116						15
16	122	121	109	115	110	108	113	113	111	112	114	112		1360	113						16
17	117	106	96	111	116	114	120	111	113	116	116	113		1349	112						17
18	118	105	113	110	115	112	110	114	116	113	115	114		1355	113						18
19	117	113	113	113	106	112	122	117	111	121	119	122		1386	116						19
20	120	109	107	115	105	108	119	121	126	124	115	123		1392	116						20
21	109	112	112	116	114	113	106	115	120	124	126	119		1386	116						21
22	112	115	115	119	112	119	111	122	120	121	111	121		1398	116						22
23	126	114	114	114	110	111	111	124	118	113	112	119		1386	116						23
24	114	113	115	109	109	112	117	122	115	107	120	115		1368	114						24
25	119	112	123	119	114	117	123	125	118	118	128	126		1442	120						25
26	108	124	120	117	125	129	123	122						(968)	(121)	8					26
27	121	118	109	113	121	119	119	124	119	128	128	123		1442	120						27
28	124	122	124	123	134	138	129	133	123	124	129	124		1527	127						28
29	121	119	115	113	117	118	113	113	120	115	119	116		1399	117						29
30	103	113	107	100	112	120	110	114	116	113	113	112		1333	111						30
31	109	110	116	116	124	120	111	123	120	112	122	119		1402	117			DAYS		MEAN	31
*Sum	3347	3224	3248	3287	3292	3373	3328	3397	3384	3388	3369	3381		40018	3333•	COMPLETE		29	=	114.9	
*Mean	115.4	111.2	112.0	113.3	113.5	116.3	114.8	117.1	116.7	116.8	116.2	116.6	→	1379.9	→	COMPLETE		29	=	115.0	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														3571•	ALL		31	=	115.2	

INSTITUTO GEOFISICO DE HUANCAYO

APRIL 1957

TABLE 16

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	113	109	115	112	116	105	110	117	112	117	118	123		1367	114						1
2	125	107	120	113	116	111	115	125	113	110	117	116		1388	116						2
3	119	110	114	109	104	114	121	127	121	122	120	113		1394	116						3
4	123	116	123	118	122	111	119	113	111	117	118	122		1413	118						4
5	108	112	115	105	112	109	114	108	102	108	111	93		1297	108						5
6	99	98	117	111	106	107	109	107	112	114	106	111		1297	108						6
7	106	99	102	115	105	114	111	108	110	120	116	109		1315	110						7
8	110	102	103	96	109	108	106	109	116	112	124	114		1309	109						8
9	116	108	104	106	111	107	107	112	106	115	121	116		1329	111						9
10	116	115	112	109	114	111	119	127	128	121	120	122		1414	118						10
11	107	119	111	105	120	121	114	119	121	120	121	128		1406	117						11
12	117	123	124	111	124	117	119	113	117	121	105	114		1405	117						12
13	110	111	109	114	121	110	119	121	114	111	108	124		1372	114						13
14	107	114	112	107	114	112	119	116	115	122	116	108		1362	114						14
15	114	106	103	116	111	118	110	106	108	108	115	114		1329	111						15
16	113	103	102	110	107	106	105	106	110	112	110	112		1296	108						16
17	109	101	102	114	110	111	103	97	95	98	83	86		1209	101						17
18	84	78	84	77	91	95	91	95	96	94				(885)	(88)	10					18
19	100	94	94	95	97	97	101	99	85	94	95	84		1135	95						19
20	82	91	91	95		91	88		88	82	84	87		(879)	(88)	10					20
21	82	101	102	103	108	87	88	91	87	84	100	83		1116	93						21
22	98	91	95	103	113	107	96	97	89	108	103	101		1201	100						22
23	98	94	104	97	99	102	102	99	95	101	103	93		1187	99						23
24	97	105	99	104	109	109	100	106	98	102	109	107		1245	104						24
25	102	100	96	95	104	103	99	101	114	105	120	118		1257	105						25
26	109	102	104	109	114	114	106			116	114	117		(1105)	(110)	10					26
27	109	110	117	109	121	120	119	112	110	116	116	122		1381	115						27
28	118	110	122	116	111	119	125	113	125	119	119	112		1409	117						28
29	118	112	111	105	110	113	110							(779)	(111)	7					29
30											119	107		(226)	(113)	2					30
31																		DAYS		MEAN	31
*Sum	2716	2658	2717	2693	2784	2736	2750	2749	2714	2777	2794	2745		32833	2738•	COMPLETE		25	=	109.5	
*Mean	1086	106.3	108.7	107.7	111.4	109.4	110.0	110.0	108.6	111.1	111.8	109.8	→	1313.4	→	COMPLETE		25	=	109.4	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														3248•	ALL		30	=	108.3	

INSTITUTO GEOFISICO DE HUANCAYO — MAY 1957

TABLE 17 — COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	98	104	96	109	97	96	101	102	109	107	98	98		1215	101						1
2	100	90	99	102	87	88	95	100						(761)	(95)	8					2
3	111	114	122	114	114	115	131	120	126	119	125	125		1436	120						3
4	120	124	120	116	128	118	126	115	122	119	128	116		1452	121						4
5	113	100	118	116	121	121	117	115	114	118	127	119		1399	117						5
6	119	121	119	131	119	118	124	126	126	131	123	113		1470	122						6
7	123	119	120	117	121	120	119	127	127	119	123	129		1464	122						7
8	123	118	120	116	109	113	113	113	115	115	115	117		1387	116						8
9	117	117	117	113	116	116	120	120	115	124	115	116		1406	117						9
10	119	121	117	112	118	123	121	126	123	117	117	122		1436	120						10
11	115	117	122	114	114	113	120	122	120	115	114	106		1392	116						11
12	117	112	112	117	115	113	119	117	111	123	120	108		1384	115						12
13	112	116	116	125	114	112	120	119	118	131	118	125		1426	119						13
14	126	118	117	106	119	123	119	115	127	125	120	119		1434	120						14
15	121	115	113			115	119	116	120	126		121		(1066)	(118)	9					15
16	123	124	118	115	117	121	112	126	121	120	121	122		1440	120						16
17	120	128	125	119	123	126	120	131	118	119	129	127		1485	124						17
18	120	114	108	115	112	121	120	128	130	128	124	121		1441	120						18
19	133	123	123	120	122	116	116	118	114	118	114	109		1426	119						19
20	114	116	120	111	129	116	127	118	121	121	121	124		1438	120						20
21	121	120	116	118	116	123	122	126	119	121	128	135		1465	122						21
22	130	122	114	122	123	129	121	113	121	127	117	123		1462	122						22
23	123	121	113	123	113	114	120	119	126	123	111	120		1426	119						23
24	116	116	120	118	125	117	115	129	121	123	117	122		1439	120						24
25	120	123	122	120	119	117	117	111	116	115	116	116		1412	118						25
26	120	110	110	108	109	119	103	108	108	109	105	113		1322	110						26
27	103	113	108	115	108	109	113	109	108	113	109	106		1314	110						27
28	113	113	114	116	108	122	116	113	112	115	111	114		1367	114						28
29	113	113	116	110	111	107	115	120	110	110	111	114		1350	112						29
30	121	112	114	112	109	108	112	112	113	119	116	111		1359	113						30
31	101	109	104	109	110	109	112	113	108	119	108	104		1306	109			DAYS		MEAN	31
*Sum	3404	3378	3361	3357	3359	3375	3411	3431	3419	3463	3401	3394		40753	3398•	COMPLETE		29	=	117.2	
*Mean	117.4	116.5	115.9	115.8	115.8	116.4	117.6	118.3	117.9	119.4	117.3	117.0	→	1405.3	→	COMPLETE		29	=	117.1	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														3611•	ALL		31	=	116.5	

INSTITUTO GEOFISICO DE HUANCAYO

JUNE 1957

TABLE 18 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	112	108	102	114	103	111	113	110	112	112	122	117		1336	111						1
2	112	116	114	118	114	109	114	115	107	113	119	116		1367	114						2
3	120	104	103	115	110	123	112	120	121	110	108	116		1362	114						3
4	115	109	117	114	116	112	123	119	119	118	114	114		1390	116						4
5	120	116	108	112	115	129	118	118	124	118	110	120		1408	117						5
6	114	105	115	107	114	122	121	117	116	113	119	111		1374	114						6
7	115	116	110	109	122	118	120	120	119	120	111	108		1388	116						7
8	113	107	108	121	115	116	117	129	130	121	121	120		1418	118						8
9	115	120	116	117	128	128	127	124	118	119	127	119		1458	122						9
10	116	118	117	116	129	114	124	119	128	123	125	122		1451	121						10
11	126	122	125	123	125	120	125	129	120		135	122		(1372)	(125)	11					11
12																					12
13	125	113	124	126	127	135	131	123	126	120	132	127		1509	126						13
14	119	125	121	125	135	129	137	126	122	125		120		(1384)	(126)	11					14
15	132	126	124	129	130	126	125	120	118	132	119	115		1496	125						15
16	120	127	122	116	114	124	120	118	114	124	122	116		1437	120						16
17	125	127	117	126	119	125	126	116	118	118	115	119		1451	121						17
18	115	122	124	124	116	110	124	121	123	114	125	121		1439	120						18
19	130	120	122	123	118	123	125	115	116	123	120	124		1459	122						19
20	122	123	123	121	125	133	126	117	116	118	123	124		1471	123						20
21	119		108	109	112	121	117	114	115	112	132	128		(1287)	(117)	11					21
22	120	114	107	104	99	105	99	102	109	104	118	108		1289	107						22
23	102	100	94	95	109			99	106	97	100	101		(1003)	(100)	10					23
24	96	98	95	98	96	102	86	100	93	98	95	84		1141	95						24
25	94	96	96	101	102	108	105	104	103	101	104	94		1208	101						25
26	102	98	98	107	114	107	118	107	100	107	111	104		1273	106						26
27	94	104	101	112	106	112	107	108	112	113	107	112		1288	107						27
28	102	102	106	107	113	117	116	107	108	104	105	101		1288	107						28
29	102	101	103	111	108	106	112	105	101	104	107	110		1270	106						29
30	91	111	108	100	98	102	93	90	87	86	89	91		1146	96						30
31																		DAYS		MEAN	31
Sum*	2822	2801	2780	2848	2851	2917	2902	2844	2838	2833	2868	2813		34117	2845•	COMPLETE		25	=	113.8	
Mean*	112.9	112.0	111.2	113.9	114.0	116.7	116.1	113.8	113.5	113.3	114.7	112.5	→	1364.6	→	COMPLETE		25	=	113.7	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														3313•	ALL		29	=	114.2	

INSTITUTO GEOFISICO DE HUANCAYO

JULY 1957

TABLE 19

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean	B				Day
1	84	85	90	89	106	93	100	107	95	92	87	81	1109	92					1
2	95	93	96	102	101	93	91	89	91	91	94	102	1138	95					2
3		81	90	93	90	91	84	100	85	94	93	104	(1005)	(91)	11				3
4	89	94	86	85	93	100	91	95	104	99	96	103	1135	95					4
5	92	90	92	92	92			94	89	88	104	91	(918)	(92)	10				5
6	81	77	87	99	95	102	91	87	102	96	98	97	1106	92					6
7	100	100	93	98				106	107	106	99	107	(916)	(102)	9				7
8	99	99	95	107	96	112	98	102	96	104	103	99	1210	101					8
9	94	98	102	106	112	111	115	105	104	102	106	106	1261	105					9
10	111	105	115	106	118	118	120	115	114	112	114	108	1356	113					10
11	110	112	112	107	111	113	111	116	109	111	106	112	1330	111					11
12	111	107	111	115	108	116	115	120	107	111	119	122	1362	114					12
13	108	111	121	117	117	117	116	125	122	125	115	117	1411	118					13
14	116	116	120	122	116	109	119	120	119	115	122	115	1409	117					14
15	124	112	115	116	121	122	118	117	120	131	122	127	1445	120					15
16	123	124	126	124	122	126	122	127	117	123	128	118	1480	123					16
17	125	118	118	116	119	109	123	115	116	117	120	121	1417	118					17
18	118	114	114	119	114	116	125	109	118	113	129	114	1403	117					18
19	118	119	115	122	125	123	125	119	117	115	111	122	1431	119					19
20	110	114	116	117	113	116	114	110	116	111	119	115	1371	114					20
21	106	108	112	123	111	114	119	124	118	118	114	113	1380	115					21
22	115	108	110	112	114	121	121	117	125	117	118	121	1399	117					22
23	105	108	121	104	116	106	112	124	113	116	117	112	1354	113					23
24	114	119	109										(342)	(114)	3				24
25	123	127	123	118	112	118	128	123	125	131	132	136	1496	125					25
26	130	121	126	127	133	126	127	134	129	142	134	140	1569	131					26
27	135	141	134	130	127	130	126	120	124	126	128	132	1553	129					27
28	120	117	118	114	131	120	116	115	114	121	119	120	1425	119					28
29	118	124	112	112	125	119	121	119	123	122	119	115	1429	119					29
30	122	112	110	112	117	123	115	117	125	122	121	119	1415	118					30
31	113	115	109	115	112	117	117	113	121	117		113	(1262)	(115)	11		DAYS		MEAN 31
*Sum	2890	2864	2905	2921	2973	2973	2979	2971	2963	2977	2991	2987	35394	2950•	COMPLETE		26	=	113.5
*Mean	111.2	110.2	111.7	112.3	114.3	114.3	114.6	114.3	114.0	114.5	115.0	114.9	→ 1361.3	→	COMPLETE		26	=	113.4
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM													3464•	ALL		31	=	111.7

INSTITUTO GEOFISICO DE HUANCAYO

AUGUST 1957

TABLE 20

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	119	114	127	116	119	117	112	123	117	119	120	115		1418	118						1
2	108	115	112	117	116	123	120	117	123	118	117	117		1403	117						2
3	115	109	117	124	130	131	125	124	115	116	118	115		1439	120						3
4	111	101	103	91	93	97	98	98	95	108	104	97		1196	100						4
5	98	87	83	90				96	93	96				(643)	(92)	7					5
6																					6
7																					7
8	97	97	110	109	110	106	107	108	114	108	107	107		1280	107						8
9	106	106	108	101	112	109	110	120	106	109	113	114		1314	110						9
10	113	108	107	112	107	116	123	117	111	109	117	105		1345	112						10
11	105	110	108	113	115	107	112	112	114	119	114	117		1346	112						11
12		102	103	109	100	108	105	106	111					(844)	(106)	8					12
13									132	128	121	121		(502)	(126)	4					13
14	119	110	115	106	118	120	118	111	119	121	125	120		1402	117						14
15	119	122	111	122	124	111	120	119	118	115	121	134		1436	120						15
16	116	107	115	110	108	107	110	114	112	115	115	107		1336	111						16
17	119	109	116	112	109	112	112	116	118	119	119	113		1374	114						17
18	113	112	122	119	117	110	114	122	119	118	121	118		1405	117						18
19	118	113	115	121	124	120	123	124	128	128	125	127		1466	122						19
20	124	122	124	119	115	129	122	136	125	119	126	129		1490	124						20
21	131	128	124	118	122	124	132	132	135	132	129	121		1528	127						21
22	130	114	123	131	126	129	132	130	131	129	129	128		1532	128						22
23	125	122	119	119	117	131	121	130	128	121	123	117		1473	123						23
24	125	118	108	123	127	123	120	119	122	122	125	123		1455	121						24
25	117	109	120	120	122	120	123	116	121	116	119	116		1419	118						25
26	116	124	106	111	114	114	105	110	112	110	116	109		1347	112						26
27	109	103	101	110	111	109	112	107	108	113	105	104		1292	108						27
28	110	106	107	108	109	109	108	110	110	108	114	115		1314	110						28
29	110	102	113	120	113	116	111	125	116	104	104	95		1329	111						29
30	88	71	78	79	73	71	69	62	77	67	69	74		878	73						30
31	66	74	72	81	93	81	84	80	76	81	91	83		962	80			DAYS		MEAN	31
Sum*	2929	2826	2881	2912	2944	2942	2943	2982	2970	2944	2986	2920		35179	2932	COMPLETE		26	=	112.8	
Mean*	112.7	108.7	110.8	112.0	113.2	113.2	113.2	114.7	114.2	113.2	114.8	112.3	→	1353.0	→	COMPLETE		26	=	112.8	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														3256	ALL		29	=	112.3	

INSTITUTO GEOFISICO DE HUANCAYO

SEPTEMBER 1957

TABLE 21

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	85	86	79	78	95	89	93	90	96	86	87	92		1056	88						1
2	91	97	89	93	79	82	86	96	95	84	84	80		1056	88						2
3		65	74	80	78	72	83	90						(542)	(77)	7					3
4	76	81	75	89	93	94	87	90	90	91	89	84		1039	87						4
5	81	85	90	86	84	90	98	94	96	91	95	80		1070	89						5
6	96	84	80	84	90	88	92	91	88	89	102	101		1085	90						6
7	97	90	82	94	92	89	94	101	101	96	97	100		1133	94						7
8	92	97	92	90	88	107	93	96	96	101	91	92		1135	95						8
9	90	84	91	95	99	101	96	104	90	96	103	95		1144	95						9
10	102	93	100	106	98	111	106	112	107	101	104	106		1246	104						10
11	93	100	100	102	107	98	104	108	108	101	111	105		1237	103						11
12	112	104	101	105	106	100	118	114	108	112	113	114		1307	109						12
13	117	107	96	104	105	115	105	101	105	101	95	103		1254	104						13
14	96	97	99	99	102	112	107	97	107	107	108	100		1231	103						14
15	98	103	94	98	98	112	111	104	112	115	104	101		1250	104						15
16	107	101	109	104	106	109	110	106	117	113	109	110		1301	108						16
17	111	104	119	109	115	122	119	119	120	124	118	119		1399	117						17
18	125	109	113	118	115	122	128	126	119	120	130	120		1445	120						18
19	115	106	112	115	115	114	120	125	117	123	117	111		1390	116						19
20	108	123	116	130	116	126	127	126	125	125	123	116		1461	122						20
21	122	116	116	127	129	125	135	122	116	119	114	111		1452	121						21
22	111	112	106	112	114	126	123	122	117	103	101	101		1348	112						22
23	120	103	95	102	109	105	100	106	105	114	109	105		1273	106						23
24	115	112	104	105	105	105	104	113	105	109	103	111		1291	108						24
25	105	122	108	116	111	120	112	112	114	120	113	113		1366	114						25
26	116	115	110	121	108	113	113	118	115	114	119	114		1376	115						26
27	118	102	108	114	117	123	114	113	115	116	121	116		1377	115						27
28	110	115	110	116	116	119	114	133	114	112	124	120		1403	117						28
29	114	98	97	108	99	103	101	103	98	94	88	93		1196	100						29
30	89	93	102	99	96	101	96	97	112	97	104	95		1181	98						30
31																		DAYS		MEAN	31
*Sum	3012	2939	2899	3019	3007	3121	3106	3139	3108	3074	3076	3008		36502	3042•	COMPLETE		29	=	104.9	
*Mean	103.9	101.3	99.8	104.1	103.7	107.6	107.1	108.2	107.2	106.0	106.1	103.7	→	1258.7	→	COMPLETE		29	=	104.9	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														3119•	ALL		30	=	104.0	

INSTITUTO GEOFISICO DE HUANCAYO

OCTOBER 1957

TABLE 22 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	103	102	112	111	110	106	99	104						(847)	(106)	8					1
2									104	109	96	104		(413)	(103)	4					2
3	108	96	95	108	98	97	109	108	105	108	107	101		1240	103						3
4	107	104	107	100	112	102	108	110	113	107	106	103		1279	107						4
5	104	102	103	109	103	110	109	110	116	109	107	102		1284	107						5
6																					6
7	105	96	97	108	110	106	111	114	102	112	112	111		1284	107						7
8	114	111	111	116	105	103	105	109	111	121	110	116		1332	111						8
9	115	116	111	115	112	118	118	112	119	122	121	119		1398	116						9
10	114	112	120	113	115	114	111	126	123	119	115	112		1394	116						10
11	121	115	116	118	116	115	113	123	117	107	118	112		1391	116						11
12	103	99	103	107	120	112	116	107	96	100	106	107		1276	106						12
13	108	109	116	124	115	115	115	114	110	115	111	112		1364	114						13
14	110	117	117	114	113	117	119	115	118	120	122	114		1396	116						14
15	119	117	121	119	123	123	123	122	120	122	119	128		1456	121						15
16	111	120	119	123	117	114	110	118	118	119	120	114		1403	117						16
17	106	115	116	116	120	119	120	112	120	117	118	115		1394	116						17
18	112	115	110	108	105	111	114	108	110	117	112	110		1332	111						18
19	107	104	103	107	108	103	115	113	108	114	114	120		1316	110						19
20	104	109	106	107	115	107	106	102	111	119	123	115		1324	110						20
21	115	118	106	101	107	112	107	109						(875)	(109)	8					21
22									64	58	61	58		(241)	(60)	4					22
23	70	61	57	65	77	66	63	69	65	67	71	72		803	67						23
24	72	75	78	84	82	81	86	75	86	78	83	83		963	80						24
25	77	77	76	79	84	88	84	86			86	85		(822)	(82)	10					25
26	86	99	92	99	91	92	90	90	91	80	92	88		1090	91						26
27	90	101	93	95	88	93	91	91	95	96	94	97		1124	94						27
28	90	93	100	102	94	105	92	97	101	100	102	102		1178	98						28
29	97	100	101	101	97	98	102	98	109	99	102	111		1215	101						29
30	94	95	90	98	96	97	96	106	94	103	107	97		1173	98						30
31	102	100	104	102	104	104	101	102	95			94		(1008)	(101)	10		DAYS		MEAN	31
*Sum	2467	2481	2482	2556	2532	2518	2542	2549	2558	2571	2592	2561		30409	2533•	COMPLETE		24	=	105.5	
*Mean	102.8	103.4	103.4	106.5	105.5	104.9	105.9	106.2	106.6	107.1	108.0	106.7	→	1267.0	→	COMPLETE		24	=	105.6	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														3094•	ALL		30	=	103.1	

INSTITUTO GEOFISICO DE HUANCAYO

NOVEMBER 1957

TABLE 23

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean	B					Day
1	100	109	102	97	106	109	113	111	94	101	106	103	1251	104						1
2	104	102	106	105	109	103	103	100	103	104	113	105	1257	105						2
3	105	100	108	106	101	99	110	102	104	105	109	115	1264	105						3
4	103	95	101	99	104	98	103	111	116	110	114	109	1263	105						4
5	114	102	112	107	113	109	106	109	107	111	110	103	1303	109						5
6	109	117	111	108	116	105	113	106	113	112	120	119	1349	112						6
7	114	102	97	111	103	106	106	114	104	104	108	111	1280	107						7
8	102	101	107	101	110	106	105	104	107	109	109	112	1273	106						8
9	111	103	104	114	112	98	103	108	100	113	113	112	1291	108						9
10	104	102	107	102	111	108	106	102	105	106	110	106	1269	106						10
11	108	106	113	105	99	114	108	113	117	116	110	110	1319	110						11
12	103	110	102	115	113	120	105	117	109	116	116	106	1332	111						12
13	112	119	112	105	107	105	116	124	119	112	121	119	1371	114						13
14	114	108	119	106	106	123	111	112	116	113	117	107	1352	113						14
15	111	116	110	112	108	114	113	119	111	115	114	112	1355	113						15
16	109	109	111	109	105	107	111	114	105	117	108	104	1309	109						16
17																				17
18	108	116	112	112	114	113	108	111	116	104	112	99	1325	110						18
19	102	118	104	100	102	114	113	107	109	104	118	112	1303	109						19
20	109	104	103	121	108	119	113	105	114	114	121	108	1339	112						20
21	118	111	117	122	120	113	108	113	109	112	118	120	1381	115						21
22	114	120	110	121	115	115	115	108	110	102	106	112	1348	112						22
23	103	98	109	110	108	104	112	110	107	99	94	100	1254	104						23
24	98	87	89	88	91	95	92	92	105	97	100	96	1130	94						24
25	89	80	93	83	85	90	101	93	93	91	95	98	1091	91						25
26	89	91	73	69	88	86	88	75	72	71	70	75	947	79						26
27	78	73	68	84	74	73	75	71	78	82	73	66	895	75						27
28	80	79	76	83	74	84	84	84	86	90	82	85	987	82						28
29	85	87	71	76	78	79	72	68	87	79	87	84	953	79						29
30	74	82	79	81	94	97	102	97	83	92	84	94	1059	88						30
31																	DAYS		MEAN	31
*Sum	2970	2947	2926	2952	2974	3006	3015	3000	2999	3001	3058	3002	35850	2987•	COMPLETE		29	=	103.0	
*Mean	102.4	101.6	100.9	101.8	102.6	103.7	104.0	103.4	103.4	103.5	105.4	103.5	→ 1236.2	→	COMPLETE		29	=	103.0	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM													•	ALL			=		

INSTITUTO GEOFISICO DE HUANCAYO

TABLE 24 — COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS — DECEMBER 1957

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	96	96	105	103	101	92	104	94	104	102	91	97		1185	99						1
2	84	97	91	90	98	94	92	96	101	97	104			(1044)	(95)	11					2
3	91	88	86	93	85	97	103	101	105	99	102	96		1146	96						3
4	95	93	91	96	95	97	98	97	86	96	95	102		1141	95						4
5	97	99	92	90	92	97	89	95	101	105	106	93		1156	96						5
6	103	104	98	95	90	96	98	92	96	100	107	105		1184	99						6
7	95	102	83	92	96	101	93	93	94	110	94	106		1159	97						7
8	102	93	103	93	91	107	97	96	99	99	96	93		1169	97						8
9	102	104	100	93	104	92	100	97	108	106	105	99		1210	101						9
10	87	94	98	100	96	103	98	95	99	101	97	102		1170	98						10
11	91	94	99	103	98	100	100	97	96	105				(983)	(98)	10					11
12	93	101	93	98	94	86	97	113	108	105	96	97		1181	98						12
13	98	89	94	96	96	88	97	100	96	97	104	103		1158	96						13
14	97	97	106	96	97	101	94	96	96	102	104			(1086)	(99)	11					14
15	99	97	100	91	100	102	97	99	109	100	103	105		1202	100						15
16	100	96	104	101	107	97	107	104	99	98	107	104		1224	102						16
17	99	100	90	105	91	99	100	87	88	88	100	100		1147	96						17
18	94	92	108	96	93	86	83	93	79	87	82	94		1087	91						18
19	106	100	95	95	102	103	101	101	100	86				(989)	(99)	10					19
20																					20
21																					21
22	76	67	69	75	80	83	75	68	67	73	68	66		861	72						22
23	74	78	87	86	94	96	86	91	80	78	92			(942)	(86)	11					23
24	94	88	100	94	93	86	93	96	88	87	81	83		1083	90						24
25	83	81	69	88	81	89	86	83	83	84	80	82		989	82						25
26	88	86	98	91	89	97	95	96	103	102	99	103		1147	96						26
27	94	99	97	94	104	102	106	106	106	103	110	109		1230	102						27
28	94	103	107	103	96	93	95	103	99	109	104	107		1213	101						28
29	100	91	97	104	95	101	95	95	99	86	99	91		1153	96						29
30	103	91	101	95	102	101	103	104	100	110	98	98		1206	100						30
31	96	85	102	102	90	100	94	108	98	100	95			(1070)	(97)	11		DAYS		MEAN	31
*Sum	2177	2154	2183	2186	2171	2192	2209	2207	2216	2247	2224	2235		26401	2200•	COMPLETE		23	=	95.7	
*Mean	94.7	93.7	94.9	95.0	94.4	95.3	96.0	96.0	96.3	97.7	96.7	97.2	→	1147.9	→	COMPLETE		23	=	95.7	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														2774•	ALL		29	=	95.7	

INSTITUTO GEOFISICO DE HUANCAYO

JANUARY 1958

TABLE 25 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1																				1
2												94		(94)	(94)	1				2
3	111	104	103	102	96	92	97	94	97	93	98	102		1189	99					3
4	102	100	94	95	89	91	96	86	91	97	89	106		1136	95					4
5	93	92	88	88	92	92	97	89	89	94	95	98		1107	92					5
6	85	91	88	91	83	90	92	94	91	100	97	102		1104	92					6
7	94	96	90	86	96	97	94	95	101	110	98	102		1159	97					7
8	91	87	89	105	89	101	108	92	109	99	104	102		1176	98					8
9	105	100	100	88	99	96	100	96	98	109	105	103		1199	100					9
10	105	101	103	110	100	98	100	104	100	109	101	110		1241	103					10
11	106	103	98	106	106	100	104	99	104	105	102	103		1236	103					11
12	105	101	99	92	94	101	95	99	97	97	103	99		1182	98					12
13	101	100	93	96	98	102	95	98	96	95	99	108		1181	98					13
14	112	107	96	108	107	104	103	101	104	104	104	118		1268	106					14
15	106	103	106	110	114	111	106	109	105	107	102	109		1288	107					15
16	121	104	115	110	106	106	118	104	95	101	102	99		1281	107					16
17	87	92	94	90	96	109	100	100	98	96	91	95		1148	96					17
18	92	93	83	96	92	88	89	80	91	91	91	91		1077	90					18
19	90	101	97	99	89	99	92	81	86	91	85	93		1103	92					19
20	93	97	94	91	95	104	89	93	96	90	86	92		1120	93					20
21	87	95	88	96	88	90	93	91	93	88	89	92		1090	91					21
22	91	90	89	94	84	86	91	96	88	96	88	84		1077	90					22
23	87	87	86	95	99	94	91	88	88	97	86	87		1085	90					23
24	84	87	94	94	97	89	88	96	87	97	93	88		1094	91					24
25	89	84	93	94	98	92	82	93	88	95	89	92		1089	91					25
26	94	106	91	97	101	89	97	99	90	101	98	105		1168	97					26
27	104	98	104	104	108	105	107	104	117	110	119	109		1289	107					27
28	108	107	102	100	114	100	113	110	116	110	113	115		1308	109					28
29	111	108	114	110	107	105	102	105	101	107	110	103		1283	107					29
30	103	104	101	104	103	106	90	97	98	108	100	102		1216	101					30
31	93	108	96	92	92	106	91	98	102	97	107	94		1176	98			DAYS		MEAN 31
*Sum	2850	2846	2788	2843	2832	2843	2820	2791	2816	2894	2844	2903		34070	2838•	COMPLETE		29	=	97.9
*Mean	98.3	98.1	96.1	98.0	97.7	98.0	97.2	96.2	97.1	99.8	98.1	100.1	→	1174.7	→	COMPLETE		29	=	97.9
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														2935•	ALL		30	=	97.8

INSTITUTO GEOFISICO DE HUANCAYO

TABLE 26 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean	B				Day
1	96	97	98	94	94	96	107	111	103	115	103	108	1222	102					1
2	102	101	100	103	103	97	102	99	108	108	100	103	1226	102					2
3	105	107	97	99	96	105	100	105	105	105	106	100	1230	102					3
4	111	98	101	88	100	104	112	106	110	106	105	104	1245	104					4
5	107	95	105	107	105	100	110	103	99	105	108	100	1244	104					5
6	103	108	95	102	100	101	105	98	102	97	106	102	1219	102					6
7	102	100	96	104	108	108	106	111	108	99	101	110	1253	104					7
8	104	111	111	114	117	106	95	97	101	90	104	103	1253	104					8
9	100	99	108	109	99	98	90	102	102	102	101	91	1201	100					9
10	98	93	94	97	104	102	117	111	100	106	101	99	1222	102					10
11	96	83	86	85	97	106	104	112	103	90	99	97	1158	96					11
12	92	82	83	91	89	88	80	91	84	81	95	88	1044	87					12
13	83	85	83	99	98	91	89	95	97	98	93	100	1111	93					13
14	93	104	100	103	101	100	104	113	102	99	105	102	1226	102					14
15	100	108	91	104	95	104	96	109	108	97	107	107	1226	102					15
16	114	104	105	111	104	100	101	98	104	105	99	112	1257	105					16
17	100	98	97	94	95	97	103	96	98	95	107	95	1175	98					17
18	98	102	99	98	100	95	100	100	98	94	98	102	1184	99					18
19	97	103	110	98	102	108	101	100	108	111	106	102	1246	104					19
20	107	104	101	107	101	98	102	99	100	108	101	103	1231	103					20
21	106	99	100	102	108	105	103	106	113	109	107	104	1262	105					21
22	110	103	110	109	107	111	122	113	113	114	112	112	1336	111					22
23	106	107	101	110	110	113	104	116	113	118	113	122	1333	111					23
24	122	110	114	110	106	112	109	118	112	122	118	118	1371	114					24
25	116	115	115	111	110	115	107	107	108	110	126	128	1368	114					25
26	109	114	114	106	114	109	107	111	108	110	119	115	1336	111					26
27	114	114	115	110	106	106	105	98	106	118	112	115	1319	110					27
28	103	109	114	105	106	106	117	99	109	108	117	109	1302	108					28
29																			29
30																			30
31																	DAYS		MEAN 31
*Sum	2894	2853	2843	2870	2875	2881	2898	2924	2922	2920	2969	2951	34800	2898	COMPLETE		28	=	103.5
*Mean	103.4	101.9	101.5	102.5	102.7	102.9	103.5	104.4	104.4	104.3	106.0	105.4	→ 1242.9	→	COMPLETE		28	=	103.6
														•	ALL			=	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

INSTITUTO GEOFISICO DE HUANCAYO

MARCH 1958

TABLE 27 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	109	102	108	94	106	96	99	102	102	108	111	109		1246	104						1
2	105	108	106	105	99	104	105	112	107	114	102	111		1278	106						2
3	117	109	111	113	106	105	110	104	108	115	110	107		1315	110						3
4	103	100	103	103	107	108	103	103	112	111	107	110		1270	106						4
5	105	105	98	103	105	104	97	103	93	91	95	98		1197	100						5
6	93	92	93	94	100	102	90	84	92	90	95	99		1124	94						6
7	96	90	96	101	96	106	94	86	94	87	92	95		1133	94						7
8	97	90	93	89	100	88	102	92	88	89	97	96		1121	93						8
9	95	100	102	92	88	94	96	86	91	89	88	93		1114	93						9
10	98	84	91	94	94	100	93	92	102	94	96	97		1135	95						10
11	100	95	99	97	102	100	93	98	95	102	100	97		1178	98						11
12	103	100	98	111	106	99	96	103	98	96	106	100		1216	101						12
13	90	91	100	100	98	104	100	89	95	95	96	90		1148	96						13
14	96	93	105	99	105	104	97	108	101	95	93	90		1186	99						14
15	90	86	91	89	95	88	99	96	102	97	97	101		1131	94						15
16	105	89	91	94	103	101	97	96	101	101	106	109		1190	99						16
17	96	95	99	96	102	97	103	104	104	108	106	109		1219	102						17
18	98	103	101	111	100	94	106	106	108	108	106	109		1250	104						18
19	96	104	110	105	117	108	110	108	96	111	109	110		1284	107						19
20	112	103	107	105	98	103	108	107	100	106	99	108		1256	105						20
21	109	101	93	103	102	108	101	101	111	107	107	98		1241	103						21
22	107	104	97	98	100	105	102	105	108	100	106	123		1255	105						22
23	100	102	102	104	102	109	106	105	104	112	104	108		1258	105						23
24	99	101	114	104	108	107	110	101	112	116	118	118		1308	109						24
25	113	109	120	114	110	111	110	119	115	120	107	93		1341	112						25
26	78	77	76	76	77	79	87	84	93	82	93	81		983	82						26
27	90	83	89	82	91	88	91	95	101	95	99	98		1102	92						27
28	93	77	82	82	90	85	90	102	94	97	91	88		1071	89						28
29	84	84	82	86	80	94	92	96	91	93	86	93		1061	88						29
30	82	87	92	87	85	81	87	90	98	96	101	90		1076	90						30
31	96	87	92	96	87	89	90	89	96	104	96	92		1114	93			DAYS		MEAN	31
*Sum	3055	2951	3041	3027	3059	3061	3061	3066	3112	3129	3119	3120		36801	3068•	COMPLETE		31	=	99.0	
*Mean	98.5	95.2	98.1	97.6	98.7	98.7	98.7	98.9	100.4	100.9	100.6	100.6	→	1186.9	→	COMPLETE		31	=	98.9	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

INSTITUTO GEOFISICO DE HUANCAYO

TABLE 28 — COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS — APRIL 1958

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	98	91	98	93	87	89	93	93	90	95	99	100		1126	94						1
2	95	100	94	91	99	95	94	90	89	94	89	99		1129	94						2
3	90	101	92	97	103	106	96	112	100	89	98	97		1171	98						3
4	94	95	101	98	98	99	95	90	97	97	98	98		1160	97						4
5	92	100	101	85	95	90	83	93	87	98	89	93		1106	92						5
6	92	89	96	94	89	94	91	93	90	90	93	91		1102	92						6
7	98	99	98	98	96	102	97	99	105	104	106	103		1205	100						7
8	111	98	105	107	106	102	113	117	115	110	119	111		1314	110						8
9	111	108	116	117	120	111	117	112	114	122	114	115		1377	115						9
10	117	110	118	111	110	114	116	117	117	114	113	125		1382	115						10
11	119	103	97	100	96	97	96	100	100	103	119	108		1238	103						11
12	107	115	107	106	96	97	97	109	109	109	119	114		1285	107						12
13	107	91	99	104	102	104	104	104	111	115	109	111		1261	105						13
14	116	99	103	103	106	102	107	102	112	115	119	122		1306	109						14
15	111	113	116	106	99	112	100	114	121	112	115	123		1342	112						15
16	114	113	110	104	113	101	108	109	111	107	109	104		1303	109						16
17	107	110	112	110	113	105	106	110	101	104	108	106		1292	108						17
18	106	96	98	101	106	114	101	115	98	97	110	101		1243	104						18
19	100	109	102	108	107	103	111	110	100	109	112	113		1284	107						19
20	102	103	97	104	110	120	108	104	116	109	110	112		1295	108						20
21	112	101	110	109	113	108	111	102	108	113	109	124		1320	110						21
22	114	117	114	117	115	118	120	113	114	115	115	116		1388	116						22
23	114	104	108	114	110	116	118	105	122	116	112	113		1352	113						23
24	105	118	115	125	118	116	120	108	115	114	116	121		1391	116						24
25	119	112	115	108	106	112	124	118	107	118	105	106		1350	112						25
26	111	103	99	105	95	107	97	106	113	113	102	102		1253	104						26
27	107	107	106	100	106	117	106	115	108	117	116	108		1313	109						27
28	111	111	100	105	102	107	104	103	108	108	104	111		1274	106						28
29	109	104	106	107	97	89	101	100	105	102	109	104		1233	103						29
30	102	97	97	100	102	103	105	100	105	92	104	110		1217	101						30
31																		DAYS		MEAN	31
Sum*	3191	3117	3130	3127	3115	3150	3139	3153	3188	3201	3240	3261		38012	3169●	COMPLETE		30	=	105.6	
Mean*	106.4	103.9	104.3	104.2	103.8	105.0	104.6	105.1	106.3	106.7	108.0	108.7	→	1267.0	→	COMPLETE		30	=	105.6	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM														●	ALL			=		

INSTITUTO GEOFISICO DE HUANCAYO

MAY 1958

TABLE 29 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	102	100	104	111	95	108	102	108	117	105	110	105		1267	106						1
2	109	97	96	102	106	106	113	113	110	116	106	98		1272	106						2
3	106	104	110	105	120	115	111	121	125	120	122	110		1369	114						3
4	104	106	116	106	119	118	119	122	122	120	123	116		1391	116						4
5	117	108	113	123	127	115	120	125	111	117	122	122		1420	118						5
6	121	119	119	116	124	113	109	129	123	126	116	120		1435	120						6
7	112	112	122	115	108	119	106	114	120	121	113	117		1379	115						7
8	120	114	113	114	109	106	108	109	111	119	112	117		1352	113						8
9	122	109	104	96	105	113	86	104	101	105	103	105		1253	104						9
10	96	91	100	88	108	101	106	104	113	116	111	114		1248	104						10
11	109	102	106	105	104	116	109	117	120	111	107	120		1326	110						11
12	111	101	99	105	111	112	108	96	110	114	115	107		1289	107						12
13	108	99	97	107	111	121	102	104	109	110	110	110		1288	107						13
14	101	109	103	108	110	104	98	101	103	104	117	108		1266	106						14
15	109	116	103	109	108	106	112	112	115	108	110	109		1317	110						15
16	106	118	114	117	115	117	110	112	109	115	112	107		1352	113						16
17	112	113	115	116	123	114	116	121	116	108	108	110		1372	114						17
18	110	112	117	117	112	121	110	115	110	109	109	113		1355	113						18
19	114	107	108	119	110	119	115	118	113	113	114	115		1365	114						19
20	120	114	117	116	118	118	114	125	124	120	117	122		1425	119						20
21	118	117	115	111	119	125	118	127	114	120	123	111		1418	118						21
22	116	112	120	114	116	127	128	120	119	120	116	111		1419	118						22
23	115	118	111	123	117	116	131	109	119	122	121	127		1429	119						23
24	110	113	108	115	117	115	117	117	123	125	122	118		1400	117						24
25	106	112	112	113	113	113	115	110	118	118	122	117		1369	114						25
26	117	129	121	106	123	128	121	126	130	132	127	135		1495	125						26
27	120	123	116	122	113	122	114	117	120	115	116	116		1414	118						27
28	115	118	121	124	123	124	121	118	117	114	130	116		1441	120						28
29	111	115	120	115	117	116	104	102	107	104	106	112		1329	111						29
30	101	100	107	113	99	98	110	106	103	103	96	113		1249	104						30
31	100	109	110	103	100	98	98	97	96	95	102	104		1212	101			DAYS		MEAN	31
*Sum	3438	3417	3437	3454	3500	3544	3451	3519	3548	3545	3558	3525		41916	3497•	COMPLETE		31	=	112.7	
*Mean	110.9	110.2	110.9	111.4	112.9	114.3	111.3	113.5	114.5	114.4	114.1	113.7	→	1352.1	→	COMPLETE		31	=	112.7	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

INSTITUTO GEOFISICO DE HUANCAYO

JUNE 1958

TABLE 30

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	108	101	93	101	92	96	102	100	96	104	110	102		1205	100						1
2	110	90	98	101	95	107	107	101	97	109	106	110		1231	103						2
3	107	112	104	106	100	107	108	108	104	123	120	113		1312	109						3
4	109	108	109	102	109	112	107	113	117	115	113	111		1325	110						4
5	105	109	102	107	107	122	111	110	105	117	115	117		1327	111						5
6	116	114	110	105	118	105	115	112	108	107	116	105		1331	111						6
7	112	104	113	101	102	102	108	117	116	109	114	114		1312	109						7
8	101	90	92	93	100	103	104	113	109	109	107	112		1233	103						8
9	111	91	101	97	97	96	104	105	108	106	108	108		1232	103						9
10	105	107	109	108	113	108	107	111	109	113	108	115		1313	109						10
11	106	108	113	108	110	105	112	102	113	110	112	112		1311	109						11
12	111	110	119	106	109	110	108	114	109	107	114	106		1323	110						12
13	107	113	118	111	110	115	115	103	115	119	109	109		1344	112						13
14	116	110	109	113	109	113	116	122	122	118	113	122		1383	115						14
15	115	118	120	127	120	121	114	118	119	118	125	119		1434	120						15
16	122	119	127	129	120	133	123	119	124	116	124	122		1478	123						16
17	118	124	120	118	124	124	119	120	114	127	117	124		1449	121						17
18	122	120	130	120	114	114	112	120						(952)	(119)	8					18
19	121	121	114	114	116	109	108	118	121	132	129	129		1432	119						19
20	132	121	112	110	118	106	110	118	109	127	122	120		1405	117						20
21	120	108	111	114	114	114	122	130	117	123	117	126		1416	118						21
22	114	110	110	119	122	117	119	119	121	123	121	119		1414	118						22
23	112	112	116	112	114	120	116	113	114	118	117	117		1381	115						23
24	116	125	106	128	125	114	112	112	114	123	125	124		1424	119						24
25	122	120	115	118	113	112	115					122		(937)	(117)	8					25
26	126	122	114	113	115	123	117	119	117	130	129	118		1443	120						26
27	119	115	122	117	109	110	124	122				130		(1068)	(119)	9					27
28	112	118	119	117	116	120	119	128	125	118	116	119		1427	119						28
29	121	115	109	107	122	119	111	118	112	112	111	112		1369	114						29
30	106	99	120	108	111	113	109	116	109	113	105	111		1320	110						30
31																		DAYS		MEAN	31
Sum*	3059	2979	2988	2975	3008	3034	3023	3079	3044	3146	3123	3116		36574	3049●	COMPLETE		27	=	112.9	
Mean*	113.3	110.3	110.7	110.2	111.4	112.4	112.0	114.0	112.7	116.5	115.7	115.4	→	1354.6	→	COMPLETE		27	=	112.9	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM														3402●	ALL		30	=	113.4	

INSTITUTO GEOFISICO DE HUANCAYO

JULY 1958

TABLE 31

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	106	99	100	102	112	101	110	116	115	110	104	102		1277	106						1
2	100	104	96	107	105	101	105	110	107	109	102	96		1242	104						2
3	102	100	108	97	108	102	108	104	99	113	111	104		1256	105						3
4	103	102	105	97	101	105	112	116	108	105	107	107		1268	106						4
5	110	102	104	101	105	103	97	106	102	112	98	107		1247	104						5
6	99	99	99	103	99	102	103	108	110	111	107	112		1252	104						6
7	106	90	97	97	100	94	101	114	107	105	109	108		1228	102						7
8	104	106	109	115	103	103	95	111	93	90	91	90		1210	101						8
9	89	95	91	86	94	95	92	98	87	94	85	88		1094	91						9
10	89	87	94	84	94	103	97	100	98	104	101	99		1150	96						10
11	102	95	101	102	111	108	106	106	111	110	108	112		1272	106						11
12	117	117	112	112	116	114	113	121	124	112	119	113		1390	116						12
13	111	107	100	107	108	115	109	109	121	109	111	114		1321	110						13
14	106	101	98	107	111	106	104	101	108	102	111	106		1261	105						14
15	107	112	109	115	114	121	116	112	114	111	123	117		1371	114						15
16	103	104	122	110	118	117	118	121	118	123	109	120		1383	115						16
17	117	112	114	107	114	115	116	124	113	115	111	120		1378	115						17
18	108	118	112	118	119	100	114	119	108	119	125	115		1375	115						18
19	110	118	108	122	118	110	111	105	114	118	113	119		1366	114						19
20	116	119	117	111	129	110	118	120	120	106	125	122		1413	118						20
21	109	110	120	110	112	108	120	118	119	116	121	113		1376	115						21
22	108	106	100	105	110	103	120	104	109	109	107	114		1295	108						22
23	109	109	112	127	115	126	118	105	112	111	116	115		1375	115						23
24	106	117	122	115	111	117	111	117	113	111	123	109		1372	114						24
25	120	115	116	105	115	100	103	102	104	115	120	118		1333	111						25
26	121	115	111	100	112	107	116	103	112	116	122	117		1352	113						26
27	115	110	107	108	120	107	104	99	97	108	106	97		1278	106						27
28	105	106	104	105	105	105	117	111	110	113	113	113		1307	109						28
29	114	104	106	108	108	112	113	114	116	111	113	113		1332	111						29
30	105	113	107	109	115	121	107	120	112	124	113	122		1368	114						30
31	107	107	107	111	104	126	120	117	110	114	114	112		1349	112			DAYS		MEAN	31
*Sum	3324	3299	3308	3303	3406	3357	3394	3431	3391	3426	3438	3414		40491	3375	COMPLETE		31	=	108.9	
*Mean	107.2	106.4	106.7	106.5	109.9	108.3	109.5	110.7	109.4	110.5	110.9	110.1	→	1306.1	→	COMPLETE		31	=	108.8	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

INSTITUTO GEOFISICO DE HUANCAYO

TABLE 32 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	107	106	96	102	101	118	110	110	110	114	104	110		1288	107						1
2	113	102	95	92	107	116	110	107	114	116	109	120		1301	108						2
3	106	111	110	114	120	111	120	116	110	120	122	117		1377	115						3
4	106	110	119	111	114	118	123	118	117	123	122	117		1398	116						4
5	114	112	106	112	110	120	117	130			120	119		(1160)	(116)	10					5
6	106	107	112	110	115	108	113	118	110	119	117	118		1353	113						6
7	117	119	107	115	113	115				120	122	124		(1052)	(117)	9					7
8	120	122	106	119	112	125	126	118	118	124	122	122		1434	120						8
9	121	116	122	119	123	121	120	122	130	129	131	126		1480	123						9
10	113	121	106	114	120	122	124	120	127	132	126	117		1442	120						10
11	123	116	109	120	123	125	132	120	129	121	133	125		1476	123						11
12	112	123	127	126	125	122	130	130	131	127	128	124		1505	125						12
13	131	128	124	130	131	135	133	132	137	129	137	133		1580	132						13
14	134	115	117	128	121	129	120	121	122	131	134	131		1503	125						14
15	125	124	132	119	125	123	118	133	131	127	131	117		1505	125						15
16	127	120	124	126	122	122	130	118	127	127	140	135		1518	126						16
17	122	116	101	97	106	108	105	111	104	107	105	115		1297	108						17
18	106	99	103	92	101	100	104	106	101	111	106	100		1229	102						18
19	93	106	103	103	115	100	106	112	117	106	108	107		1276	106						19
20	103	100	114	110	114	117	110	106	111	110	116	111		1322	110						20
21	117	115	115	110	125	119	121	118	113	121	119	115		1408	117						21
22	118	113	114	114	107	98	102	104	105	108	103	90		1276	106						22
23	106	102	113	106	108	102	103	100	109	118	113	117		1297	108						23
24	114	98	96	79	84	98	104	101	100	95	91	88		1148	96						24
25	88	87	83	88	106	92	107	100	101	101	90	91		1134	94						25
26	101	89	95	93	98	100	103	108	111	106	104	104		1212	101						26
27	98	102	108	89	95	104	102	94	88	89	85	92		1146	96						27
28	88	96	100	98	108	107	102	113	112	106	103	95		1228	102						28
29	95	98	92	101	101	98	108	98	99	104	101	105		1200	100						29
30	106	97	104	97	111	115	112	112	98	110	106	112		1280	107						30
31	103	95	108	114	108	118	108	105	106	108	110	118		1301	108			DAYS		MEAN	31
*Sum	3202	3134	3148	3121	3246	3271	3306	3271	3288	3339	3316	3272		38914	3239•	COMPLETE		29	=	111.7	
*Mean	110.4	108.1	108.6	107.6	111.9	112.8	114.0	112.8	113.4	115.1	114.3	112.8	→	1341.8	→	COMPLETE		29	=	111.8	
															347•	ALL		31	=	112.0	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

INSTITUTO GEOFISICO DE HUANCAYO

TABLE 33 — SEPTEMBER 1958

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	108	110	115	110	114	104	107	119	120	115	118	115		1355	113						1
2	124	115	116	111	114	114	119	109	116	123	114			(1275)	(116)	11					2
3	117	117	110	122	105	112	113	110	117	116	107	110		1356	113						3
4	96	97	105	110	112	115	102	108	127	109	104	106		1291	108						4
5	105	108	107	108	104	114	111	107	110	109	110	101		1294	108						5
6	108	101	100	110	105	110	114	106	108	107	111	104		1284	107						6
7	99	102	98	107	112	112	109	107	117	106	119	103		1291	108						7
8	107	106	112	109	113	110	112	118	105	118	106	108		1324	110						8
9	112	109	99	108	106	112	107	117	107	111	115	117		1320	110						9
10	108	115	112	109	118	117	112	112	119	118	111	114		1365	114						10
11	103	117	109	114	112	113	115	110	122	113	126	110		1364	114						11
12	113	123	117	116	117	111	116	118	124	107	115	111		1388	116						12
13	119	120	124	117	123	125	117	118	122	123	118	117		1443	120						13
14	127	130	123	117	119	118	125	128	131	126	123	122		1489	124						14
15	126	122	122	122	121	125	119	127	128	120	124	126		1482	124						15
16	118	120	121	109	102	103	93	102	101	104	106	106		1285	107						16
17	110	98	95	104	103	107	106	101	87	92	95	92		1190	99						17
18	103	94	99	104	107	105	99	100	101	101	109	104		1226	102						18
19	104	97	103	109	109	110	124	105	111	111	116	111		1310	109						19
20	105	117	100	112	108	112	108	114	117	111	114	117		1335	111						20
21	111	115	108	108	115	114	121	112	119	122	115	117		1377	115						21
22	116	122	120	114	129	126	132	120	119	124	125	128		1475	123						22
23	119	117	117	116	119	121	123	110	117	118	121	122		1420	118						23
24	123	110	115	126	120	116	117	125	116	117	124	121		1430	119						24
25	115	117	124	119	120	118	109	121	113	128	115	125		1424	119						25
26	114	110	108	124	110	119	112	121	123	121	117	112		1391	116						26
27	108	109	103	112	113	113	108	110	111					(987)	(110)	9					27
28	107	105	107	108	114	111	113	124	125	119	113	116		1362	114						28
29	118	115	114	107	107	115	115	114	121	114	120	121		1381	115						29
30	105	121	110	118	118	114	114	117	120	120	129	113		1399	117						30
31																		DAYS		MEAN	31
Sum*	3116	3135	3094	3157	3162	3189	3165	3191	3247	3200	3226	3169		38051	3173●	COMPLETE		28	=	113.3	
Mean*	111.3	112.0	110.5	112.8	112.9	113.9	113.0	114.0	116.0	114.3	115.2	113.2	→	1359.1	→	COMPLETE		28	=	113.3	
															3399●	ALL		30	=	113.3	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM

INSTITUTO GEOFISICO DE HUANCAYO

OCTOBER 1958

TABLE 34

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	113	119	119	116	109	111	106	109	115	111	117	112		1357	113						1
2	115	104	104	113	108	116	108	112	109	113	124	123		1349	112						2
3	114	119	117	120	123	115	113	111	110	112	110	116		1380	115						3
4	107	108	111	110	120	114	116	119	120	116	116	112		1369	114						4
5	109	107	112	112	112	100	117	115	116	133	122	117		1372	114						5
6	110	101	108	114	106	104	110	112	113	117	107	105		1307	109						6
7	102	103	108	106	112	112	110				98	107		(958)	(106)	9					7
8	104	111	105	102	120	110	108	110	109	110	113	110		1312	109						8
9	108	113	118	110	108	114	111	112	113	104	114	109		1334	111						9
10	122	110	110	117	106	110	114	109	114	117	103	115		1347	112						10
11	106	115	109	114	118	112	113	115	106	120	106	120		1354	113						11
12	110	115	117	108	118	120	114	112	113	117	114	112		1370	114						12
13	112	116	115	120	115	114	113	119	107	108	109	111		1359	113						13
14	117	122	125	114	111	122	110	116	120	113	117	117		1404	117						14
15	123	118	111	117	103	117	108	116	121	120	109	106		1369	114						15
16	120	104	103	117	115	110	114	116	114	119	120	121		1373	114						16
17	115	103	108	111	109	109	105	118	121	116	116	114		1345	112						17
18	103	110	107	108	113	108	108	114	116	112	117	115		1331	111						18
19	111	112	100	125	122	104	113	110	116	115	120	111		1359	113						19
20	119	124	122	125	118	122	122	116	113	116	113	118		1428	119						20
21	112	115	126	119	120	121	117	114	121	127	112	113		1417	118						21
22	115	112	108	104	112	125	120	127	118	115	110	113		1379	115						22
23	110	106	108	107	108	101	93	92	102	101	108	107		1243	104						23
24	102	102	115	109	104	106	112	112	115	106	127	106		1316	110						24
25	113	107	106	116	99	102	100	101	107	106	108	106		1271	106						25
26	95	99	93	109	111	105	111	106	110	106	109	110		1264	105						26
27	108	103	104	103	112	105	102	101	108	110	115	107		1278	106						27
28	109	100	107	116	104	106	106	107	105	114	122	111		1307	109						28
29	114	106	109	110	113	110	104	116	118	117	125	110		1352	113						29
30	111	119	106	106	118	114	114	105	118	122	113	112		1358	113						30
31	111	113	115	116	113	108	123	109	116	118	126	110		1378	115			DAYS		MEAN	31
*Sum	3338	3313	3318	3388	3368	3335	3325	3351	3404	3431	3442	3369		40382	3363	COMPLETE		30	=	112.1	
*Mean	111.3	110.4	110.6	112.9	112.3	111.2	110.8	111.7	113.5	114.4	114.7	112.3	→	1346.1	→	COMPLETE		30	=	112.2	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														3369	ALL		31	=	111.9	

INSTITUTO GEOFISICO DE HUANCAYO

TABLE 35 — NOVEMBER 1958

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	111	111	108	113	113	115	112	119	122	123	116	108		1371	114						1
2	105	107	111	107	112	116	113	119	122	121	107	108		1348	112						2
3	107	111	112	115	109	107	111	117	111	118	123	107		1348	112						3
4	113	109	105	106	109	108	120	114	116	123	127	113		1363	114						4
5	112	106	107	105	109	103	112	107	115	110	119	113		1318	110						5
6	108	104	112	109	110	117	115	109	111	112	114	116		1337	111						6
7	106	110	113	105	122	114	113	119	112	112	114	111		1351	113						7
8	110	111	121	119	119	114	115	106	114	120	120	120		1389	116						8
9	121	121	126	118	118	123	113	114	121	117	116	123		1431	119						9
10	118	118	115	126	118	116	114	119	126	113	119	112		1414	118						10
11	102	110	104	103	111	115	108	112	111	117	117	114		1324	110						11
12	111	102	101	99	103	107	115	120	109	111	109	112		1299	108						12
13	99	99	104	111	112	114	110	112	113	111	112	116		1313	109						13
14	110	97	106	106	114	110	115	116	113	117	119	111		1334	111						14
15	108	113	117	114	112	116	117	126	114	116	116	111		1380	115						15
16	121	128	124	120	126	120	121	130	124	115	119	116		1464	122						16
17	112	115	117	121	119	111	123	121	121	119	115	118		1412	118						17
18	119	119	120	122	116	124	131	127	118	134	122	130		1482	124						18
19	120	122	124	121	118	130	124	123	132	130	129	126		1499	125						19
20	118	126	116	120	133	130	115	123	135	124	129	125		1494	124						20
21	116	119	121	117	133	118	128	126	123	122	125	122		1470	122						21
22	120	120	127	131	117	112	121	132	118	119	127	127		1471	123						22
23	119	111	116	118	121	116	131	125	126	127	128	125		1463	122						23
24	122	117	121	118	116	118	126	122	122	131	123	117		1453	121						24
25	114	112	119	122	120	121	117	125	120	118	126	128		1442	120						25
26	123	124	116	112	122	121	118	115	107	119	120	121		1418	118						26
27	124	117	118	117	125	121	110	123	119	117	121	127		1439	120						27
28	119	120	108	114	114	125	113	122	133	125	115	117		1425	119						28
29	116	121	112	113	113	116	123	120	122	118	122	116		1412	118						29
30	110	108	116	115	116	118	111	119	122	128	127	122		1412	118						30
31																		DAYS		MEAN	31
*Sum	3414	3408	3437	3437	3500	3496	3515	3582	3572	3587	3596	3532		42076	3506•	COMPLETE		30	=	116.9	
*Mean	113.8	113.6	114.6	114.6	116.7	116.5	117.2	119.4	119.1	119.6	119.9	117.7	→	14027	→	COMPLETE		30	=	116.9	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

INSTITUTO GEOFISICO DE HUANCAYO

DECEMBER 1958

TABLE 36

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION +60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	117	126	115	121	107	114	118	122	125	116	128	127		1436	120					1
2	119	109	115	115	114	120	118	122	126	122	130	120		1430	119					2
3	119	114	116	122	114	124	122	117	128	128	120	124		1448	121					3
4	122	113	109	106	109	110	116	117	115	118	114	119		1368	114					4
5	110	117	122	117	117	117	130		134	121	126			(1211)	(121)	10				5
6	117	114	114	124	116	118	106	111	111	118	118	115		1382	115					6
7	114	112	125	125	116	118	121	120	128	129	128	118		1454	121					7
8	120	117	118	111	123	113	121	131	119	126	122	117		1438	120					8
9	115	113	124	114	129	126	117	121	119	136	128	126		1468	122					9
10	117	124	112	108	119	116	115	119	119	117	120	118		1404	117					10
11	113	116	113	106	106	115	115	108	120	115	110	112		1349	112					11
12	99	103	110	105	117	108	108	112	111	107	115	115		1310	109					12
13	107	105	112	108	108	106	113	111	114	114	116	110		1324	110					13
14	116	113	105	106	109	110	109	113	111	111	114	113		1330	111					14
15	105	108	103	110	110	114	111	115	107	109	106	112		1310	109					15
16	105	106	108	111	113	110	114	123	111	118	113	104		1336	111					16
17	110	107	108	112	104	110	120	114	120	124	114	119		1362	114					17
18	118	111	107	106	105	112	100	100	104	100	109	105		1277	106					18
19	100	110	106	102	102	101	106	104	116	115	106	117		1285	107					19
20	94	101	114	120	104	110	111	101	110	109	105	114		1293	108					20
21	105	102	116	108	111	103	109	98	109	105	115	111		1292	108					21
22	108	110	111	116	112	109	109	112	117	113	117	115		1349	112					22
23	110	117	105	106	107	118	104	108	117	117	119	117		1345	112					23
24	119	120	119	118	108	114	105	109	117	119	114	111		1373	114					24
25	115	116	112	107	119	121	118	113	125	120	120	113		1399	117					25
26	119	107	113	121	113	113	108	111	119					(1024)	(114)	9				26
27																				27
28																				28
29			108	122	111	107	112	117	118	107		120		(1022)	(114)	9				29
30	121	114	116	125	122	118	119	121	111	115	120	120		1422	118					30
31	119	113	120	118	125	119	112	117	127	118	120	121		1429	119			DAYS		MEAN 31
*Sum	2924	2914	2933	2930	2929	2957	2937	2959	3037	3039	3041	3013		35613	2966•	COMPLETE		26	=	114.1
*Mean	112.5	112.1	112.8	112.7	112.7	113.7	113.0	113.8	116.8	116.9	117.0	115.9	→	1369.9	→	COMPLETE		26	=	114.2
															3318•	ALL		29	=	114.3

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

INSTITUTO GEOFISICO DE HUANCAYO

TABLE 37 — JANUARY 1959

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	121	119	122	108	121	128	121	122	131	126	127	112		1458	122						1
2	113	122	118	122	121	125	131	124	122	115	125	119		1457	121						2
3	121	118	135	114	117	113	114	118	120	116	125	115		1426	119						3
4	120	110	120	113	117	114	121	123	116	125	128	122		1429	119						4
5	103	104	109	109	115	116	121	123	121	123	114	114		1372	114						5
6	108	102	112	117	117	107	108	104	114	126	117	113		1345	112						6
7	114	109	103	113	113	110	103	107	115	125	110	106		1328	111						7
8	110	111	106	112	114	111	102	112	110	123	110	112		1333	111						8
9	106	103	108	106	106	110	120	114	114	104	98	104		1293	108						9
10	95	96	105	104	103	104	118	115	117	117	116	117		1307	109						10
11	111	106	110	116	116	117	113	123	112	110	104	115		1353	113						11
12	104	115	116	124	115	124	110	120	117	115	112	115		1387	116						12
13	116	119	118	120	115	118	120	123	121	121	124	122		1437	120						13
14	119	115	114	122	115	115	117	121	118	114	122	126		1418	118						14
15	117	119	110	116	118	119	111	126	128	123	116	117		1420	118						15
16	113	118	124	120	119	111	111	122	117	122	126	118		1421	118						16
17	115	113	122	120	104	115	122	121	130	124	123	112		1421	118						17
18	112	113	119	117	117	115	114	115	125	121	114	124		1406	117						18
19	119	109	119	118	109	112	106	121	127	124	122	117		1403	117						19
20	117	110	117	122	114	116	119	123	125	117	116	125		1421	118						20
21	118	117	122	122	114	117	115	125	118	122	125	130		1445	120						21
22	119	120	115	119	112	127	113	116	120	121	126	122		1430	119						22
23	124	127	118	118	128	114	117	112	128	120	125	126		1457	121						23
24	131	114	118	123	125	116	127	126	119	120	118	130		1467	122						24
25	120	117	123	120	117	117	118	130	123	132	127	130		1474	123						25
26	124	120	124	108	114	116	112	106	117	105	115	115		1376	115						26
27	100	105	96	96	104	97	100	93	96	105	107	100		1199	100						27
28	97	104	106	101	88	98	97	99	104	115	112	105		1226	102						28
29	105	93	93	104	96	103	96	102	107	109	111	105		1224	102						29
30	108	94	99	109	106	106	99	110	114	115	106	113		1279	107						30
31	115	112	112	115	107	109	110	105	117	107	106	103		1318	110			DAYS		MEAN	31
*Sum	3515	3454	3533	3548	3497	3520	3506	3601	3663	3662	3627	3604		42730	3560 •	COMPLETE		31	=	114.8	
*Mean	113.4	111.4	114.0	114.5	112.8	113.5	113.1	116.2	118.2	118.1	117.0	116.3	→	1378.5	→	COMPLETE		31	=	114.9	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

INSTITUTO GEOFISICO DE HUANCAYO

FEBRUARY 1959

TABLE 38

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	113	117	110	106	112	112	108	115	116	114	110	111		1344	112						1
2	112	106	116	109	114	116	118	115	119	122	117	121		1385	115						2
3	116	106	114	117	108	107	104	120	118	122	107	116		1355	113						3
4	112	107	102	112	113	101	108	107	123	111	119	104		1319	110						4
5	103	104	102	107	101	102	99	106	113	111	112	113		1273	106						5
6	110	104	108	101	108	109	111	107	111	103	112	106		1290	108						6
7	105	109	110	105	117	119	109	121	113	116	116	112		1352	113						7
8	108	112	116	118	117	125	104	114	106	110	120	123		1373	114						8
9	113	113	110	121	121	110	110	120	118	115	113	119		1383	115						9
10	108	109	116	119	123	115	117	124	121	126	125	125		1428	119						10
11	127	117	117	116	111	112	103	103	109	122	107	105		1349	112						11
12	106	96	87	90	93	90	94	86	92	90	101	94		1119	93						12
13	94	95	96	87	97	97	96	94	102	99	96	88		1141	95						13
14	94	94	98	96	103	97	96	95	92	88	97	83		1133	94						14
15	80	93	91	90	89	85	81	88	91	86	91	89		1054	88						15
16	92	85	94	91	90	97	89	93	85	100	90	90		1096	91						16
17	88	86	88	96	94	102	99	88	95	94	103	96		1129	94						17
18	103	93	89	96	101	102	92	109	103	102	106	100		1196	100						18
19	95	95	102	97	108	108	97	101	100	112	107	111		1233	103						19
20	97	95	106	107	108	103	104	105	109	109	111	108		1262	105						20
21	104	107	101	102	108	105	102	111	110	117	108	121		1296	108						21
22	112	106	109	111	112	105	109	113	114	113	113	108		1325	110						22
23	107	108	106	107	116	113	108	113	118	109	113	116		1334	111						23
24	111	107	102	103	107	108	108	116	108	118	110	98		1296	108						24
25	114	119	105	112	117	115	114	123	119	117	116	119		1390	116						25
26	123	114	111	106	113	105	112	114	114	117	120	110		1359	113						26
27	112	116	112	115	106	120	117	109	115	120	115	111		1368	114						27
28	120	124	120	108	111	114	112	112	113	122	118	113		1387	116						28
29																					29
30																					30
31																		DAYS		MEAN	31
*Sum	2979	2937	2938	2945	3018	2994	2921	3022	3047	3085	3073	3010		35969	2996•	COMPLETE		28	=	107.0	
*Mean	106.4	104.9	104.9	105.2	107.8	106.9	104.3	107.9	108.8	110.2	109.8	107.5	→	1284.6	→	COMPLETE		28	=	107.0	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

INSTITUTO GEOFISICO DE HUANCAYO

MARCH 1959

TABLE 39

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	119	112	118	112	121	116	113	123	114	120	118	118		1404	117						1
2	119	108	110	123	111	117	115	118	116	116	116	108		1377	115						2
3	111	108	109	107	105	123	116	114	115	123	120	110		1361	113						3
4	108	112	112	118	116	113	119	114	121	122	113	118		1386	116						4
5	114	110	120	112	109	106	117	113	115	119	117	123		1375	115						5
6	107	118	108	108	113	107	110	114	118	116	108	122		1349	112						6
7	108	112	108	118	104	119	119	114	121	121	110	111		1365	114						7
8	111	111	112	117	123	119	105	110	123	124	124	117		1396	116						8
9	116	120	114	115	114	117	120	123	128	130	125	127		1449	121						9
10	120	115	119	120	126	117	127	122	121	118	128	113		1446	120						10
11	111	118	117	108	118	111	119					119		(921)	(115)	8					11
12	116	114	111	109	119	113	115	110	115	115	130	112		1379	115						12
13	119	113	115	110	113	108	116	118	114	116	117	116		1375	115						13
14	111	116	110	109	112	111	116	109	119	120	119	113		1365	114						14
15	110	110	112	108	113	112	106	115	116	116	120	115		1353	113						15
16	119	120	117	114	117	106	118	115	107	117	118	121		1389	116						16
17	112	123	115	112	115	122	117	128	122	118	119	111		1414	118						17
18	112	119	110	121	116	118	124	119	126	126	118	120		1429	119						18
19	119	111	113	105	112	119	106	124	122	127	124	122		1404	117						19
20	108	112	116	121	119	125	117	123	128	123	116	120		1428	119						20
21	116	110	110	119	115	112	114	124	114	134	134	119		1421	118						21
22	116	121	109					119	125					(590)	(118)	5					22
23	130	115	113	112	123	113	118	111	129	122	112	112		1410	118						23
24	108	118	115	122	113	113	119	122	115	119	122	119		1405	117						24
25	110	122	122	117	120	114	116	110	121	124	117	115		1408	117						25
26	112	106	113	104	112	110	115	110	107	102	97	89		1277	106						26
27	89	92	98	95	102	97	101	107	103	108	115	101		1208	101						27
28	101	103	97	100	103	99	102	102	109	117	99	113		1245	104						28
29	105	105	110	105	111	110	104	113	116	114	114	111		1318	110						29
30	115	108	108	117	112	108	121	117	119	120	116	118		1379	115						30
31	112	108	112	119	116	113	124	119	134	124	116	119		1416	118			DAYS		MEAN	31
*Sum	3257	3251	3247	3269	3305	3277	3330	3361	3428	3471	3402	3333		39931	3329•	COMPLETE		29	=	114.8	
*Mean	112.3	112.1	112.0	112.7	114.0	113.0	114.8	115.9	118.2	119.7	117.3	114.9	→	1376.9	→	COMPLETE		29	=	114.7	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														3562	ALL		31	=	114.9	

INSTITUTO GEOFISICO DE HUANCAYO

TABLE 40 — APRIL 1959

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	121	123	112	118	115	116	125	124	119	117	126	119		1435	120						1
2	115	114	109	120	108	119	124	117	114	122	126	124		1412	118						2
3	123	116	117	118	117	113	105	114	114	118	127	127		1409	117						3
4	123	116	117	115	122	115	121	116	115	125	130	117		1432	119						4
5	116	120	125	119	113	122	117	123	120	128	125	118		1446	120						5
6	118	119	119	125	118	118	119	120	120	123	125	122		1446	120						6
7	110	108	109	107	119	130	111	118	110	120	126	124		1392	116						7
8	115	123	116	128	129	121	120	117	118	135	133	127		1482	124						8
9	133	123	129	125	130	117	116	118	132	132	126	124		1505	125						9
10	119	113	113	128	119	104	112	110	119	115	110	111		1373	114						10
11	113	103	117	118	109	118	111	110	107	109	116	113		1344	112						11
12	109	112	107	111	106	110	112	110	118	117	110	112		1334	111						12
13	111	107	113	103	100	111	100	111	114	110	115	115		1310	109						13
14	104	98	107	106	112	107	106	106	121	111	115	107		1300	108						14
15	112	113	106	108	108	110	104	105	111	112	111	106		1306	109						15
16	109	108	107	104	102	108	105	114	112	111	115	114		1309	109						16
17	112	105	113	103	109	108	110	105	119	114	115	121		1334	111						17
18	114	114	110	109	112	110	107	109	112	111	119	122		1349	112						18
19	111	114	112	117				115	119	114	121	119		(1042)	(116)	9					19
20	118	108	106	114	108	107	113	115	125	114	118	115		1361	113						20
21	114	112	117	121	119	121	113	111	119	121	118	125		1411	118						21
22	112								116	121	128	123		(600)	(120)	5					22
23	122	117	122	119	119	123	112	116	115	122	113	112		1412	118						23
24	112	99	99	101	104	108	101	104	112	106	109	100		1255	105						24
25	107	107	103	117	110									(544)	(109)	5					25
26	106	112	113	115	108	103	112	121	114	116	114	111		1345	112						26
27	114	114	122	111	115	112	113	115	117	121	117	118		1389	116						27
28	106	115	117	113	108	113	119	115	123	122	125	123		1399	117						28
29	118	110	108	117	109	109	111	122	119	123	116	118		1380	115						29
30	112	112	117	113	115	117	113	108	112	126	118	112		1375	115						30
31																		DAYS		MEAN	31
Sum*	3099	3034	3067	3089	3053	3070	3032	3074	3151	3201	3218	3157		37245	3103•	COMPLETE		27	=	114.9	
Mean*	114.8	112.4	113.6	114.4	113.1	113.7	112.3	113.9	116.7	118.6	119.2	116.9	→	1379.6	→	COMPLETE		27	=	115.0	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														3448•	ALL		30	=	114.9	

INSTITUTO GEOFISICO DE HUANCAYO

MAY 1959

TABLE 41

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	122	112	110	108	113	113	122	115	119	113	119	117		1383	115						1
2	117	119	113	115	111	111	107	121	124	118	124	120		1400	117						2
3	113	110	121	119	123	122	114	127				120		(1069)	(119)	9					3
4	125	105	109	111	105	107	108	112	119	118	122	125		1366	114						4
5	119	114	111	107	111	112	117	112	119	124	130	118		1394	116						5
6	107	107	108	113	118	111	115	120	113	119	116	120		1367	114						6
7	108	111	108	116	115	108	112	109	120	114	119	113		1353	113						7
8	112	109	115	116	121	127	116	121	122	125	122	121		1427	119						8
9	116	113	114	117	122	117	122	122	127	135	127	118		1450	121						9
10	131	111	115	114	125	114	110	122	123	125	131	120		1441	120						10
11	122	108	119	118	124	121	124	131	132	126	119	115		1459	122						11
12	88	61	64	66	67	68	63	66	84	85	85	84		881	73						12
13	75	72	72	76	80	71	77	82	83	83	79	87		937	78						13
14	74	62	71	73	78	75	78	70	73	70	75	79		878	73						14
15	80	75	82	82	80	87	68	82	84	82	88	82		972	81						15
16	76	86	84	85	93	85	92	86	84	96	91	95		1053	88						16
17	82	93	84	89	96	94	100	92	94	85	91	94		1094	91						17
18	88	91	91	96	96	110	88	98	96	91	89	105		1139	95						18
19	90	100	104	100	105	105	96	109	104	109	101	95		1218	102						19
20	96	110	107	106	107	94	107	102	99	94	108	108		1238	103						20
21	98	91	100	95	100	106	100	98	107	112	98	106		1211	101						21
22	94	97	105	103	107	101	109	103	109	107	106	105		1246	104						22
23	107	103	95	102	100	103	101	100	112	112	105	111		1251	104						23
24	105	106	109	111	107	107	107	110	103	112	101	106		1284	107						24
25	93	92	104	100	108	105	96	107	108	111	103	116		1243	104						25
26	104	103	106	106	107	101	115	116	111	114	107	107		1297	108						26
27	103	110	106	114	106	109	104	113	108	105	108	114		1300	108						27
28	102	105	110	116	113	120	115	123	126	107	114	114		1365	114						28
29	109	118	108	114	111	128	115	113	127	114	114	108		1379	115						29
30	112	116	110	114	126	117	116	120	114	132	128	112		1417	118						30
31	113	117	116	120	111	117	112	114	122	123	124	119		1408	117			DAYS		MEAN	31
*Sum	3068	3017	3050	3103	3163	3144	3112	3189	3266	3261	3244	3234		37851	3155●	COMPLETE		30	=	105.2	
*Mean	102.3	100.6	101.7	103.4	105.4	104.8	103.7	106.3	108.9	108.7	108.1	107.8	→	1261.7	→	COMPLETE		30	=	105.1	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM														3274●	ALL		31	=	105.6	

INSTITUTO GEOFISICO DE HUANCAYO

JUNE 1959

TABLE 42

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean	B					Day
1	108	122	116	115	116	110	118	116	111	122	119	119	1392	116						1
2	117	121	113	124	117	120	116	118	120	120	120	125	1431	119						2
3	118	119	113	117	122	119	116	110	124	121	130	122	1431	119						3
4	122	120	118	122	114	106	116			120	125	116	(1179)	(118)	10					4
5	125	117	116	112	118	117	115	123	122	119	131	118	1433	119						5
6	113	120	123	112	116	117	116	115	124	124	125	121	1426	119						6
7	119	110	113	117	114	108	112	115	121	134	122	123	1408	117						7
8	118	107	104	112	109	118	116	116	126	123	127	115	1391	116						8
9	116	119	108	111	114	122	117	122	113	119	117	116	1394	116						9
10	112	114	108	114	105	114	122	114	120	113	117	128	1381	115						10
11	116	118	105	121	104	106	113	109	110	104	105	114	1325	110						11
12	102	106	101	103	107	107	110	107	109	107	116	113	1288	107						12
13	115	115	109	118	114	118	116	112	104	114	117	114	1366	114						13
14	117	107	108	117	112	106	106	107	112	108	107	109	1316	110						14
15	104	103	99	109	109	107	101	113	112	107	102	100	1266	106						15
16	110	108	102	103	104	102	109	96	103	109	111	111	1268	106						16
17	107	110	110	98	108	100	104	124					(861)	(108)	8					17
18	105	102	109	115	105	103	98	99	110	109	117		(1172)	(107)	11					18
19																				19
20	99	112	112	110	104	113	109	107	114	108	105	105	1298	108						20
21	99	108	107	101	110	117	104	103	111	115	105	109	1289	107						21
22	115	105	106	97	98	104	108	100	110	106	106	104	1259	105						22
23	100	106	105	110	110	117	109	98	114	113	117	110	1309	109						23
24	105	104	105	104	113	112	108	114	111	117	112	115	1320	110						24
25	111	110	114	106	112	116	120	110	114	116	112	116	1357	113						25
26	116	112	112	109	119	114	116	111	110	117	116	113	1365	114						26
27	115	103	106	112	118	111	105	106	100	109	110	115	1310	109						27
28	104	110	103	103	100	103	105	101	104	110	105	108	1256	105						28
29	94	103	102	116	106	103	101	105	111	107	118	114	1280	107						29
30	103	101	103	96	106	109	109	112	118	120	105	110	1292	108						30
31																	DAYS		MEAN	31
Sum*	2871	2880	2813	2869	2877	2910	2897	2860	2948	2982	2977	2967	34851	2904•	COMPLETE		26	=	111.7	
Mean*	110.4	110.8	108.2	110.3	110.7	111.9	111.4	110.0	113.4	114.7	114.5	114.1	→ 1340.4	→	COMPLETE		26	=	111.7	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM													3239•	ALL		29	=	111.6	

INSTITUTO GEOFISICO DE HUANCAYO

JULY 1959

TABLE 43

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	101	109	109	112	113	108	114	113	117	109	111	111		1327	111						1
2	106	112	112	108	107	110	113	108	117	113	118	113		1337	111						2
3	106	117	110	113	115	116	113	111	118	114	111	117		1361	113						3
4	104	107	111	111	100	115	102	114	113	96	108	124		1305	109						4
5	112	105	104	100	106	119	103	108	109	119	116	107		1308	109						5
6	104	105	97	101	114	116	112	119	118	118	118	116		1338	112						6
7	112	107	112	106	104	105	112	115	116	115	113	112		1329	111						7
8	98	109	102	106	113	112	111	110	109	112	113	112		1307	109						8
9	104	96	110	113	112	113	114	116	112	126	116	110		1342	112						9
10	113	108	113	109	111	116	118	111	112	124	123	114		1372	114						10
11	114	119	109	117	115	118	117	123	115	115	101	96		1359	113						11
12	88	77	80	87	86	87	83	75	88	91	86	88		1016	85						12
13	81	78	87	85	88	87	77	91	85	92	84	83		1018	85						13
14	84	85	83	91	90	89	87	85	93	88	93	91		1059	88						14
15	76	76	84	90	76	68	77	59	62	42	39	33		782	65						15
16	38	39	31	46	40	41	45	55	52	53	57	51		548	46						16
17	57	55	67	77	59	58	78	67	68	64	51	47		748	62						17
18	17	14	27	41	45	39	45	48	40	50	43	48		457	38						18
19	42	45	62	54	57	60	54	58	61	66	65	68		692	58						19
20	71	68	65	76	68	70	81	73	74	78	74	74		872	73						20
21	66	74	66	77	82	78	77	78	84	83		85		(850)	(77)	11					21
22	71	78	86	85	87	86	85	79	91	91	84	87		1010	84						22
23	85	83	82	91	77	92	85	95	95	91	105	92		1073	89						23
24	90	94	86	87	84	89	85	86	97	97	88	94		1077	90						24
25	92	92	92	86	102	96	93	102	96	101	102	93		1147	96						25
26	92	91	94	97	106	97	100	93	105	98	101	101		1175	98						26
27	97	96	93	96	103	105	101	113	103	115	104	96		1222	102						27
28	97	95	92	97	103	101	97	98	110	108	103	103		1204	100						28
29	103	109	97	102	114	105	107	103	105	99	102	104		1250	104						29
30	113	99	96	106	98	108	111	108	108	114	111	113		1285	107						30
31	109	108	115	108	112	117	116	112	119	116	113	104		1349	112			DAYS		MEAN	31
Sum*	2677	2676	2708	2798	2805	2843	2836	2848	2908	2915	2853	2802		33669	2806•	COMPLETE		30	=	93.5	
Mean*	89.2	89.2	90.3	93.3	93.5	94.8	94.5	94.9	96.9	97.2	95.1	93.4	→	11223	→	COMPLETE		30	=	93.5	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														2883•	ALL		31	=	93.0	

INSTITUTO GEOFISICO DE HUANCAYO

AUGUST 1959

TABLE 44 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION +60 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	100	108	100	103	109	105	115	105	107	111	113	105		1281	107						1
2	97	97	106	103	101	103	108	107	106	110	108	96		1242	104						2
3	103	106	106	106										(421)	(105)	4					3
4	94	95	106	102	108	101	101	108	100	115	107	109		1246	104						4
5	100	100	99	92	97	96	94	103	109	97	107	105		1199	100						5
6																					6
7	88	93	90	98	101	98			97	110	103	103		(981)	(98)	10					7
8	98	100	96	92	102	96	92	96	105	99	97	98		1171	98						8
9	100	97	100	98	99	106	99	108	111	105	101	111		1235	103						9
10	96	97	105	97	99	101	94	104	103	100	100	98		1194	100						10
11	99	107	105	106	101	99	115	104	106	103	109	99		1253	104						11
12	103	108	94	100	103	102	102	98	107	100	116	99		1232	103						12
13	102	96	101	102	100	111	108	104	112	103	110	107		1256	105						13
14	96	114	99	108	105	109	98	103	102	118	112	101		1265	105						14
15	110	104	97	100	110	109	100	110	111	113	116	114		1294	108						15
16	107	100	95	99	103	102	106	106	102	99	99	93		1211	101						16
17	100	94	95	96	101	105	108	103	107	111	116	110		1246	104						17
18	106	96	98	107	103	104	108	107	110	106	115	105		1265	105						18
19	98	98	103	104	100	104	97	105	100	103	106	106		1224	102						19
20	102	96	84	81	78	80	88	89	79	90	86	80		1033	86						20
21	64	77	86	89	95	90	98	99	97	107	109	102		1113	93						21
22	97	84	89	94	98	91	92	105	92	95	94	103		1134	94						22
23	85	93	88	100	105	93	105	95	97	103	100	101		1165	97						23
24	97	98	95	109	110	104	105	114	106	103	112	99		1252	104						24
25	101	100	101	107	113	109	99	98	105	109	106	106		1254	104						25
26	105	106	102	113	111	112	111	111	110	114	115	101		1311	109						26
27	110	107	116	116	112	111	118	110	105	115	110	119		1349	112						27
28	119	117	110	113	115	112	113	114	127	121	104	115		1380	115						28
29	118	112	109	123	111	108	107	115	115	102	110	102		1332	111						29
30	96	105	95	97	107	101	101	105	106	101	102	99		1215	101						30
31	91	100	107	105	107	102	107	103	105	101	103	101		1232	103			DAYS		MEAN	31
*Sum	2791	2806	2781	2856	2903	2866	2889	2929	2942	2954	2983	2884		34584	2882•	COMPLETE		28	=	102.9	
*Mean	99.7	100.2	99.3	102.0	103.7	102.4	103.2	104.6	105.1	105.5	106.5	103.0	→	1235.2	→	COMPLETE		28	=	102.9	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														3085•	ALL		30	=	102.8	

INSTITUTO GEOFISICO DE HUANCAYO

TABLE 45 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	100	101	110	102	113	100	106	107	110	103	115	100		1267	106						1
2	102	104	105	104	117	109	111	114	113	112	113	102		1306	109						2
3	112	98	93	100	104	110	110	108	107	106	100	105		1253	104						3
4																					4
5	74	73	72	73	79	85	79	84	76	84	82	89		950	79						5
6	88	87	81	92	92	93	87	90	89	97	90	92		1078	90						6
7	99	83	93	95	98	94	98	95	91	97	96	99		1138	95						7
8	91	95	95	92	92	98	97	104	110	105	104	103		1186	99						8
9	94	91	97	99	103	95	106	103	97	100	99	97		1181	98						9
10	96	99	99	103	109	109	97	96	103	100	96	96		1203	100						10
11	111	99	94	106	104	98	94	97	106	108	110	109		1236	103						11
12	98	97	102	110	108	106	97	102	121	111	111	110		1273	106						12
13	104	99	106	104	106	107	100	96	106	104	110	97		1239	103						13
14	105	99	106	105	105	98	98	106	102	114	110	102		1250	104						14
15	98	112	98	111	94	107	105	95	103	115	114	104		1256	105						15
16	103	103	110	104	108	103	103	107	121	111	107	110		1290	108						16
17	105	109	102	111	107	103	106	113	113	108	110	112		1299	108						17
18	107	113	100	104	110	107	112	110	117	120	112	114		1326	110						18
19	112	106	99	105	98	112	106	100	100	101	93	94		1226	102						19
20	90	100	97	106	117	109	101	105	101	87	96	94		1203	100						20
21	91	102	99	105	101	102	104	107	105	108	97	93		1214	101						21
22	95	96	98	108	114	108	106	113	112	110	104	98		1262	105						22
23	103	104	104	108	101	111	100	113	110	114	113	102		1283	107						23
24	100	104	115	106	118	111	114	117	114	109	103	105		1316	110						24
25	103	104	100	113	109	102	106	110	117	109	101	115		1289	107						25
26	107	104	109	115	107	109	108	113	107	110	104	95		1288	107						26
27	111	101	109	108	112	105	110	112	112	101	106	99		1286	107						27
28	101	99	104	108	112	104	101	104	112	105	106	113		1269	106						28
29	108	103	111	103	115	105	107	110	103	115	108	108		1296	108						29
30	104	105	110	102	116	114	112	110	107	117	116	106		1319	110						30
31																		DAYS		MEAN	31
Sum*	2912	2890	2918	3002	3069	3014	2981	3041	3085	3081	3026	2963		35982	2998	COMPLETE		29	=	103.3	
Mean*	100.4	99.7	100.6	103.5	105.8	103.9	102.8	104.9	106.4	106.2	104.3	102.2	→	1240.7	→	COMPLETE		29	=	103.4	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

TABLE 46 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	115	110	112	123	117	109	125	121	113	112	121	117		1395	116						1
2	116	113	104	114	114	113	111	116	114	118	107	103		1343	112						2
3	98	101	113	107	108	115	117	112	108	107	113	109		1308	109						3
4	115	107	104	120	114	107								(667)	(111)	6					4
5	108	97	107	112	108	108	101	109	115	114	114	107		1300	108						5
6	104	108	110	107	111	104	102	111	114	110	106	107		1294	108						6
7	109	103	104	106	110	107	109	120	113	117	119	106		1323	110						7
8	111	104	102	109	104	114	109	111	105	105	114	108		1296	108						8
9	108	97	108	114	106	107	116	117	121	117	119	113		1343	112						9
10	110	121	113	116	110	111	105	111	118	116	115	115		1361	113						10
11	108	114	108	113	115	112	107	116	105	108	107	115		1328	111						11
12	115	119	109	119	120	109	119	113	114	114	117	117		1385	115						12
13	108	111	116	114	128	106	106	126	116	119	108	106		1364	114						13
14	112	106	112	112	110	109	110	110	111	115	122	111		1340	112						14
15	109	107	108	116	115	114	110	106	122	117	113	113		1350	112						15
16	112	111	116	114	120	113	115	114	120	114	119	118		1386	116						16
17	106	107	120	117	109	119	106			104	112	109		(1109)	(111)	10					17
18	116	118	102	106	106	110	113	110	104	117	106	118		1326	110						18
19	116	115	115	102	115	121	111	117	112	121	111	118		1374	114						19
20	115	110	117	114	117	132	107	114	122	120	115	113		1396	116						20
21			112	109	111	117	120	111	122	121	124	122		(1169)	(117)	10					21
22	111	109	122	116	117	118	119	121	116	117	120	108		1394	116						22
23	116	115	110	108	113	116	110	110	108	128	125	121		1380	115						23
24	108	115	116	114	113	114	112	110	117	118	120	116		1373	114						24
25	111	100	104	117	117	108	112	104	119	115	116	105		1328	111						25
26	109	111	102	108		113	115	110	110	117	115	112		(1222)	(111)	11					26
27	114	106	112	101	105	111	107	109	110	117	121	119		1332	111						27
28	112	115	114	108	117	97	102	110	114	124	125	120		1358	113						28
29	109	117	107	103	103	107	105	109	123	123	113	118		1337	111						29
30	121	109	107	102	98	95	103	108	115	118	118	110		1304	109						30
31	107	101	98	96	95	110	96	102	111	111	103	110		1240	103			DAYS		MEAN	31
*Sum	2999	2952	2966	2983	3012	2990	2959	3037	3080	3132	3107	3041		36258	3019	COMPLETE		27	=	111.8	
*Mean	111.1	109.3	109.9	110.5	111.6	110.7	109.6	112.5	114.1	116.0	115.1	112.6	→	1343.0	→	COMPLETE		27	=	111.9	
															3169	ALL		31	=	111.9	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

INSTITUTO GEOFISICO DE HUANCAYO

NOVEMBER 1959

TABLE 47 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	100	102	99	106	100	108	110	107	117	110	115	100		1274	106						1
2	102	105	110	109	112	110	103	110	107	110	102	115		1295	108						2
3	104	101	106	116	114	102	100	101	103	103	104	107		1261	105						3
4	98	102	110	107	106	103	119	109	111	114	116	108		1303	109						4
5	105	106	101	111	108	106	107	111	107	106	115	100		1283	107						5
6	110	106	110	111	116	107	116	110	115	115	107	108		1331	111						6
7	109	115	114	114	121	112	113	115	122	118	120	113		1386	116						7
8	116	107	116	117	118	116	126	111	117	119	113	116		1392	116						8
9	106	113	103	108	100	114	112	112	122	111	100	108		1309	109						9
10	103	102	104	113	105	104	113	107	118	109	103	113		1294	108						10
11	105	105	106	107	113	108	107	116	126	124	119	110		1346	112						11
12	107	118	107	110	106	106	106	113	119	116	109			(1217)	(111)	11					12
13			109	111	111	110	115		113	117	120	114		(1020)	(113)	9					13
14	112	107	114	106	109	112	108	110	108	113	119	117		1335	111						14
15	116	119	115	118	116	111	111	109	121	107	117	115		1375	115						15
16	118	115	116	118	113	117	114	110	121	121	113	116		1392	116						16
17	121	104	110	120	109	109	107	120	117	116	122	127		1382	115						17
18	110	114	121	118	112	119	114	116			120	120		(1164)	(116)	10					18
19	119	121	120	114	114	109	115	112	121	128	117	125		1415	118						19
20	109	108	122	115	115	114	117	118	119	122	120	114		1393	116						20
21	121	120	108	110	115	109	112	114	117	122	125	126		1399	117						21
22	108	108	110	107	106	107	112	102	112	118	115	110		1315	110						22
23	115	120	116	110	116	107	104	104	115	115	119	121		1362	114						23
24	112	110	107	107	113	104	113	113	109	113	106	117		1324	110						24
25	123	105	110	115	110	110	107	116	114	116	117	114		1357	113						25
26	112	113	104	114	118	112	114	116	111	116	115	120		1365	114						26
27	112	116	109	101	107	110	122	117	106	118	120	125		1363	114						27
28	108	109	113	107	106	109	116	116	105	113	116	113		1331	111						28
29	110	106	108	101	113	110	111	107	108	109	106	104		1293	108						29
30	102	111	111	112	108	109	100	107						(860)	(108)	8					30
31																		DAYS		MEAN	31
*Sum	2874	2845	2861	2882	2893	2840	2909	2893	2969	2986	2961	2962		34875	2909•	COMPLETE		26	=	111.9	
*Mean	110.5	109.4	110.0	110.8	111.3	109.2	111.9	111.3	114.2	114.8	113.9	113.9	→	1341.2	→	COMPLETE		26	=	111.8	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														3359•	ALL		30	=	111.9	

INSTITUTO GEOFISICO DE HUANCAYO

DECEMBER 1959

TABLE 48

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 510 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1								124	112	112	125	110		(583)	(117)	5				1
2	109	111	109	108	106	108	101	110	114	115	107	108		1306	109					2
3	112	104	102	103	103	92	101	90	93	90	89	95		1174	98					3
4	98	89	92	91	94	100	101	96	96	103	109	98		1167	97					4
5	90	103	103				104	110	116	117	113	103		(959)	(107)	9				5
6	92	99	106	100	113	108					118	108		(844)	(106)	8				6
7	101	100	102	93	101	102	113	104	113	104	103	96		1232	103					7
8	103	91	97	99	105	106	107	104	109	106	107	97		1231	103					8
9	105	104	111	108	104	98	107	107	109	109	112	112		1286	107					9
10	101	98	95	104	103	102	98	107	106	117	110	112		1253	104					10
11	105	105	102	110	106	102	107	114	100	106	112	113		1282	107					11
12	108	106	102	101	107	101	100	96	112	112	104	119		1268	106					12
13	106	105	109	110	108	108	109	108	115	113	110	110		1311	109					13
14	114	106	102	109	114	110	109	119	114	116	114	119		1346	112					14
15	112	119	117	116	112	108	109	111	113	112	122	119		1370	114					15
16	104	114	111	110	119	115	113	113	118	118				(1135)	(114)	10				16
17	120	123		105	117	114	117	111	116	117	129	115		(1284)	(117)	11				17
18	112	113	108	112	123	114	116	108			120	115		(1141)	(114)	10				18
19			112	114	111	110	113	119	113	124	113	116		(1145)	(114)	10				19
20	110	118	125	118	119	114	109	120	119			124		(1176)	(118)	10				20
21	124	110	113	114	117	112	116	116	115	119	120	130		1406	117					21
22	110	120	119	103	108	114	99	104	114	122	120	117		1350	112					22
23	110	108	109	110	104	106	107	106	114	115	112	109		1310	109					23
24	110	104	106	110	108	97	110	114	109	110	118	110		1306	109					24
25	101	94	104	104	105	98	100	100	104	107	104	110		1231	103					25
26	106	99	103	102	102	105	108	115	114	111	114	114		1293	108					26
27	115	108	121	101	109	113	104	108	111	110	117	102		1319	110					27
28	108	109	108	116	111	109	105	117	115	111	126	120		1355	113					28
29	106	116	113	107	112	114	106	114	119	111	115	113		1346	112					29
30	99	104			117	105	118	108	111			114		(876)	(110)	8				30
31	105	108	110	106	116	110	112	111	114	113	112	109		1326	110			DAYS		MEAN 31
*Sum	2369	2314	2346	2325	2355	2315	2329	2371	2423	2432	2457	2432		28468	2372•	COMPLETE		22	=	107.8
*Mean	107.7	105.2	106.6	105.7	107.0	105.2	105.9	107.8	110.1	110.5	111.7	110.5	→	1293.9	→	COMPLETE		22	=	107.8
															3388•	ALL		31	=	109.3

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

TABLE 49

Daily Mean Departures from Balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 510 mm Hg, on Greenwich Mean Time, Instituto Geofisico de Huancayo, 1956

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.											Day
1	139	139	131	127	124	130	131	133	122	130[b]	135	116											1
2	136	138	135	130	128	128	134	137	113	133[g]	132	116											2
3	138	138	125	130	131	125	136	136	115	129[k]	130	115											3
4	140	139	125	130	130	128	139	135	121	135[a]	127	113											4
5	142	139	130	133	133	129[f]	135	135	123	132	125[f]	112											5
6	137	136	135	130	126	122	137	134	128	127	131[k]	116											6
7	132[d]	141	136	132[b]	127	121	138	136	132	124	130	113											7
8	139	142	135	131	124	119	137[b]	132	130	123	128[b]	115											8
9	136	142	135	128	125	121	129	142	119	121	128	115											9
10	140	141	132	130	126	123	132	141	120[a]	122	114	115											10
11	143	138	129	132	129[a]	115	124	137	122	126	111	118											11
12	141	136	121	128	122	117	129	125	121	125	113	122											12
13	140	132[d]	118	126	116	119	123	123	124	127	115	127											13
14	138	133[d]	122	127	122	120	120	128	126	131[h]	122	123											14
15	138	132[c]	125	128	125	120	119[k]	130	128	134[f]	116	126											15
16	139	133[b]	125	123	122	122	129[k]	132	133	135	112	129[g]											16
17	136	122	121	126	112	125	129	133	133	136	113	126											17
18	137	118	122	129	115	129	128	134	137	136	119	124											18
19	136[k]	114	122	129	119	131[a]	131	137	136	135	122	119											19
20	131	116	128	126	118	133	130	137	135	136	122	119											20
21	128	124	132	125	119	131	134	133	129	134	124	115[f]											21
22	128	126	125	121	124	132	121	133	130	132	119	112											22
23	129	130	127	123	121	131	133	128	126	136	116[f]	116											23
24	133	128	126	128	120	132	141	123	125[a]	134	122	118											24
25	133	123	125	126	118	134	137	120	128[g]	134	124	110											25
26	135	122	127	131	124	136	128	121	130	138	123	103											26
27	133	125	128	129[a]	129	131	127	124	130	138	125	110											27
28	136	128[a]	128	118	132	130	128	127	130	138	125	98											28
29	132	129	128	122	131	130	134	128	128[b]	131	123	109											29
30	134		126	122	128	128	133	131	132[k]	134	123	110											30
31	133		134		132		133	130		139		110											31
Mean	135.9	131.2	127.4	127.3	124.0	126.4	130.9	131.5	126.9	131.8	122.3	115.8											
	354	331	372	357	371	349	362	372	340	345	338	359	No of Bihours										

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 50

Daily Mean Departures from Balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 510 mm Hg, on Greenwich Mean Time, Instituto Geofisico de Huancayo, 1957

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.												Day
1	108	105	116	114	101	111	92	118	88	106[d]	104	99												1
2	110	110	115	116	95[d]	114	95	117	88	103[h]	105	95[a]												2
3	102	113	109	116	120	114	91[a]	120	77[e]	103	105	96												3
4	105	114	112	118	121	116	95	100	87	107	105	95												4
5	109	118	114	108	117	117	92[b]	92[a]	89	107	109	96												5
6	119	115	117	108	122	114	92		90		112	99												6
7	119	116	118	110	122	116	102[c]		94	107	107	97												7
8	120	116	122	109	116	118	101	107	95	111	106	97												8
9	121	115[b]	119	111	117	122	105	110	95	116	108	101												9
10	119	116	110	118	120	121	113	112	104	116	106	98												10
11	123	114[a]	95	117	116	125[a]	111	112	103	116	110	98[b]												11
12	122	114[e]	111	117	115		114	106[d]	109	106	111	98												12
13	121	114	117[a]	114	119	126	118	126[h]	104	114	114	96												13
14	120[b]	115	115	114	120	126[a]	117	117	103	116	113	99[a]												14
15	124	115	116	111	118[c]	125	120	120	104	121	113	100												15
16	123	117	113	108	120	120	123	111	108	117	109	102												16
17	118	119	112	101	124	121	118	114	117	116		96												17
18	118	118	113	88[b]	120	120	117	117	120	111	110	91												18
19	117	112	116	95	119	122	119	122	116	110	109	99[b]												19
20	119	114	116	88[b]	120	123	114	124	122	110	112													20
21	116	112	116	93	122	117[a]	115	127	121	109[d]	115													21
22	69	116	116	100	122	107	117	128	112	60[h]	112	72												22
23	76	113	116	99	119	100[b]	113	123	106	67	104	86[a]												23
24	92	112	114	104	120	95	114[i]	121	108	80	94	90												24
25	92	113	120	105	118	101	125	118	114	82[b]	91	82												25
26	99	119	121[d]	110[b]	110	106	131	112	115	91	79	96												26
27	106	117	120	115	110	107	129	108	115	94	75	102												27
28	108	117	127	117	114	107	119	110	117	98	82	101												28
29	109		117	111[e]	112	106	119	111	100	101	79	96												29
30	108		111	113[j]	113	96	118	73	98	98	88	100												30
31	104		117		109		115[a]	80		101[b]		97[a]												31
Mean	110.2	114.6	115.2	108.3	116.5	114.2	111.7	112.3	104.0	103.1	103.0	95.7												
	370	331	367	339	365	343	356	331	355	332	348	340	No. of Bihours											

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 51

Daily Mean Departures from Balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 510 mm Hg, on Greenwich Mean Time, Instituto Geofisico de Huancayo, 1958

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.													Day
1		102	104	94	106	100	106	107	113	113	114	120													1
2	97[k]	102	106	94	106	103	104	108	116[a]	112	112	119													2
3	99	102	110	98	114	109	105	115	113	115	112	121													3
4	95	104	106	97	116	110	106	116	108	114	114	114													4
5	92	104	100	92	118	111	104	116[b]	108	114	110	121[b]													5
6	92	102	94	92	120	111	104	113	107	109	111	115													6
7	97	104	94	100	115	109	102	117[c]	108	106[c]	113	121													7
8	98	104	93	110	113	103	101	120	110	109	116	120													8
9	100	100	93	115	104	103	91	123	110	111	119	122													9
10	103	102	95	115	104	109	96	120	114	112	118	117													10
11	103	96	98	103	110	109	106	123	114	113	110	112													11
12	98	87	101	107	107	110	116	125	116	114	108	109													12
13	98	93	96	105	107	112	110	132	120	113	109	110													13
14	106	102	99	109	106	115	105	125	124	117	111	111													14
15	107	102	94	112	110	120	114	125	124	114	115	109													15
16	107	105	99	109	113	123	115	126	107	114	122	111													16
17	96	98	102	108	114	121	115	108	99	112	118	114													17
18	90	99	104	104	113	119[d]	115	102	102	111	124	106													18
19	92	104	107	107	114	119	114	106	109	113	125	107													19
20	93	103	105	108	119	117	118	110	111	119	124	108													20
21	91	105	103	110	118	118	115	117	115	118	122	108													21
22	90	111	105	116	118	118	108	106	123	115	123	112													22
23	90	111	105	113	119	115	115	108	118	104	122	112													23
24	91	114	109	116	117	119	114	96	119	110	121	114													24
25	91	114	112	112	114	117[d]	111	94	119	106	120	117													25
26	97	111	82	104	125	120	113	101	116	105	118	114[c]													26
27	107	110	92	109	118	119[c]	106	96	110[c]	106	120														27
28	109	108	89	106	120	119	109	102	114	109	119														28
29	107		88	103	111	114	111	100	115	113	118	114[c]													29
30	101		90	101	104	110	114	107	117	113	118	118													30
31	98		93		101		112	108		115		119													31
Mean	97.8	103.5	99.0	105.6	112.7	113.4	108.9	112.0	113.3	111.9	116.9	114.3													
	349	336	372	360	372	349	372	367	356	369	360	340	No of Bihours												

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 52

Daily Mean Departures from Balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 510 mm Hg, on Greenwich Mean Time, Instituto Geofisico de Huancayo, 1959

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.										Day
1	122	112	117	120	115	116	111	107	106	116	106	117[g]										1
2	121	115	115	118	117	119	111	104	109	112	108	109										2
3	119	113	113	117	119[c]	119	113	105[b]	104	109	105	98										3
4	119	110	116	119	114	118[b]	109	104		111[f]	109	97										4
5	114	106	115	120	116	119	109	100	99	108	107	107[c]										5
6	112	108	112	120	114	119	112		90	108	111	106[d]										6
7	111	113	114	116	113	117	111	98[b]	95	110	116	103										7
8	111	114	116	124	119	116	109	98	99	108	116	103										8
9	108	115	121	125	121	116	112	103	98	112	109	107										9
10	109	119	120	114	120	115	114	100	100	113	108	104										10
11	113	112	115[d]	112	122	110	113	104	103	111	112	107										11
12	116	93	115	111	73	107	85	103	106	115	111[a]	106										12
13	120	95	115	109	78	114	85	105	103	114	113[c]	109										13
14	118	94	114	108	73	110	88	105	104	112	111	112										14
15	118	88	113	109	81	106	65	108	105	112	115	114										15
16	118	91	116	109	88	106	46	101	108	116	116	114[b]										16
17	118	94	118	111	91	108[d]	62	104	108	111[b]	115	117[a]										17
18	117	100	119	112	95	107[a]	38	105	110	110	116[b]	114[b]										18
19	117	103	117	116[c]	102		58	102	102	114	118	114[b]										19
20	118	105	119	113	103	108	73	86	100	116	116	118[b]										20
21	120	108	118	118	101	107	77[a]	93	101	117[b]	117	117										21
22	119	110	118[g]	120[g]	104	105	84	94	105	116	110	112										22
23	121	111	118	118	104	109	89	97	107	115	114	109										23
24	122	108	117	105	107	110	90	104	110	114	110	109										24
25	123	116	117	109[g]	104	113	96	104	107	111	113	103										25
26	115	113	106	112	108	114	98	109	107	111[a]	114	108										26
27	100	114	101	116	108	109	102	112	107	111	114	110										27
28	102	116	104	117	114	105	100	115	106	113	111	113										28
29	102		110	115	115	107	104	111	108	111	108	112										29
30	107		115	115	118	108	107	101	110	109	108[d]	110[d]										30
31	110		118		117		112	103		103		110										31
Mean	114.8	107.0	114.9	114.9	105.6	111.6	93.0	102.8	103.3	111.9	111.9	109.3										
	372	336	361	343	369	341	371	350	348	361	350	345	No of Bihours									

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 53 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 Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Instituto Geofisico de Huancayo, 1956

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	1353	1340	1338	1355	1371	1362	1377	1364	1374	1371	1358	1356	1360	29
Feb.*	1310 (1314)	1304 (1301)	1297 (1294)	1303 (1307)	1304 (1308)	1332 (1333)	1300 (1303)	1295 (1294)	1317 (1316)	1334 (1334)	1317 (1317)	1308 (1308)	1310 (1311)	24 (23)
Mar.	1263	1241	1258	1255	1296	1297	1292	1277	1268	1289	1284	1270	1274	31
Apr.	1254	1241	1250	1269	1280	1283	1275	1280	1270	1285	1288	1265	1270	28
May	1234	1205	1221	1212	1235	1245	1270	1238	1256	1278	1262	1238	1240	30
June	1254	1254	1237	1269	1244	1272	1270	1278	1275	1272	1258	1260	1262	28
July	1292	1293	1287	1306	1301	1321	1298	1326	1329	1320	1315	1324	1309	29
Aug.	1304	1308	1285	1300	1320	1328	1324	1323	1315	1321	1330	1315	1314	31
Sept.	1254	1236	1240	1271	1274	1278	1282	1288	1286	1289	1258	1277	1269	25
Oct.	1302	1293	1282	1306	1323	1316	1332	1346	1334	1326	1322	1318	1317	25
Nov.	1203	1197	1205	1223	1227	1215	1215	1241	1228	1221	1227	1225	1219	26
Dec.	1160	1134	1130	1144	1151	1163	1159	1156	1161	1165	1166	1161	1154	29
I	1256 (1258)	1244 (1243)	1242 (1242)	1256 (1257)	1263 (1264)	1268 (1268)	1263 (1264)	1264 (1264)	1270 (1270)	1273 (1273)	1267 (1267)	1262 (1262)	1261 (1261)	108 (107)
II	1268	1253	1258	1275	1293	1294	1295	1298	1290	1297	1288	1282	1282	109
III	1268	1265	1258	1272	1276	1292	1290	1291	1294	1298	1291	1284	1282	118
Year	1264 (1265)	1254 (1254)	1253 (1253)	1268 (1268)	1277 (1278)	1285 (1285)	1283 (1283)	1284 (1284)	1285 (1285)	1289 (1289)	1282 (1282)	1276 (1276)	1275 (1275)	335 (334)

* VALUES IN ( ) EXCLUDE FEBRUARY 23

TABLE 54 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 Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Instituto Geofisico de Huancayo, 1957

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	10 77	10 75	10 94	10 95	10 97	10 95	11 04	11 09	11 08	11 05	11 16	11 10	10 99	30
Feb.	11 36	11 23	11 27	11 34	11 46	11 54	11 39	11 57	11 56	11 56	11 68	11 68	11 47	25
Mar.	11 54	11 12	11 20	11 33	11 35	11 63	11 48	11 71	11 67	11 68	11 62	11 66	11 50	29
Apr.	10 86	10 63	10 87	10 77	11 14	10 94	11 00	11 00	10 86	11 11	11 18	10 98	10 94	25
May	11 74	11 65	11 59	11 58	11 58	11 64	11 76	11 83	11 79	11 94	11 73	11 70	11 71	29
June	11 29	11 20	11 12	11 39	11 40	11 67	11 61	11 38	11 35	11 33	11 47	11 25	11 37	25
July	11 12	11 02	11 17	11 23	11 43	11 43	11 46	11 43	11 40	11 45	11 50	11 49	11 34	26
Aug.	11 27	10 87	11 08	11 20	11 32	11 32	11 32	11 47	11 42	11 32	11 48	11 23	11 28	26
Sept.	10 39	10 13	9 98	10 41	10 37	10 76	10 71	10 82	10 92	10 60	10 61	10 37	10 49	29
Oct.	10 28	10 34	10 34	10 65	10 55	10 49	10 59	10 62	10 66	10 71	10 80	10 67	10 56	24
Nov.	10 24	10 16	10 09	10 18	10 26	10 37	10 40	10 34	10 34	10 35	10 54	10 35	10 30	29
Dec.	9 47	9 37	9 49	9 50	9 44	9 53	9 60	9 60	9 63	9 77	9 67	9 72	9 57	23
I	10 46	10 38	10 45	10 49	10 53	10 60	10 61	10 65	10 65	10 68	10 76	10 71	10 58	107
II	10 79	10 56	10 60	10 79	10 85	10 96	10 94	11 04	10 98	11 02	11 05	10 92	10 87	107
III	11 36	11 18	11 24	11 35	11 43	11 52	11 54	11 53	11 49	11 51	11 54	11 42	11 42	106
Year	10 86	10 71	10 76	10 88	10 94	11 03	11 03	11 07	11 04	11 07	11 12	11 02	10 96	320

TABLE 55 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 Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Instituto Geofisico de Huancayo, 1958

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	983	981	961	980	977	980	972	962	971	998	981	1001	979	29
Feb.	1034	1019	1015	1025	1027	1029	1035	1044	1044	1043	1060	1054	1036	28
Mar.	985	952	981	976	987	987	987	989	1004	1009	1006	1006	989	31
Apr.	1064	1039	1043	1042	1038	1050	1046	1051	1063	1067	1080	1087	1056	30
May	1109	1102	1109	1114	1129	1143	1113	1135	1145	1144	1141	1137	1127	31
June	1133	1103	1107	1102	1114	1124	1120	1140	1127	1165	1157	1154	1129	27
July	1072	1064	1067	1065	1099	1083	1095	1107	1094	1105	1109	1101	1088	31
Aug.	1104	1081	1086	1076	1119	1128	1140	1128	1134	1151	1143	1128	1118	29
Sept.	1113	1120	1105	1128	1129	1139	1130	1140	1160	1143	1152	1132	1133	28
Oct.	1113	1104	1106	1129	1123	1112	1108	1117	1135	1144	1147	1123	1122	30
Nov.	1138	1136	1146	1146	1167	1165	1172	1194	1191	1196	1199	1177	1169	30
Dec.	1125	1121	1128	1127	1127	1137	1130	1138	1168	1169	1170	1159	1142	26
I	1070	1064	1062	1070	1074	1078	1077	1084	1094	1102	1102	1098	1082	113
II	1069	1054	1059	1069	1069	1072	1068	1074	1090	1091	1096	1087	1075	119
III	1104	1088	1092	1089	1115	1120	1117	1128	1125	1141	1138	1130	1116	118
Year	1081	1069	1071	1076	1086	1090	1087	1095	1103	1111	1112	1105	1091	350

TABLE 56 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 Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Instituto Geofisico de Huancayo, 1959

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	1134	1114	1140	1145	1128	1135	1131	1162	1182	1181	1170	1163	1149	31
Feb.	1064	1049	1049	1052	1078	1069	1043	1079	1088	1102	1098	1075	1076	28
Mar.	1123	1121	1120	1127	1140	1130	1148	1159	1182	1197	1173	1149	1147	29
Apr.	1148	1124	1136	1144	1131	1137	1123	1139	1167	1186	1192	1169	1150	27
May	1023	1006	1017	1034	1054	1048	1037	1063	1089	1087	1081	1078	1051	30
June	1104	1108	1082	1103	1107	1119	1114	1100	1134	1147	1145	1141	1117	26
July	892	892	903	933	935	948	945	949	969	972	951	934	935	30
Aug.	997	1002	993	1020	1037	1024	1032	1046	1051	1055	1065	1030	1029	28
Sept.	1004	997	1006	1035	1058	1039	1028	1049	1064	1062	1043	1022	1034	29
Oct.	1111	1093	1099	1105	1116	1107	1096	1125	1141	1160	1151	1126	1119	27
Nov.	1105	1094	1106	1108	1113	1092	1119	1113	1142	1148	1139	1139	1118	26
Dec.	1077	1052	1066	1057	1070	1052	1059	1078	1101	1105	1117	1105	1078	22
I	1095	1077	1089	1090	1097	1087	1088	1108	1128	1134	1131	1120	1104	107
II	1096	1084	1090	1103	1111	1103	1099	1118	1138	1151	1140	1116	1112	112
III	1004	1002	999	1022	1033	1035	1032	1040	1061	1065	1060	1046	1033	114
Year	1065	1054	1059	1072	1080	1075	1073	1089	1109	1117	1110	1094	1083	333

CHELTENHAM MAGNETIC OBSERVATORY

TABLE 57 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	86	76	80	82	79	82	79	74	75	80	73	77		943	79						1
2	75	72	67	70	66	74	74	83	78	78	68	72		877	73						2
3	78	75	73	70	69	77	69	76	72	80	81	83		903	75						3
4	71	73	82	79	81	78	82	82	87	88	88	84		975	81						4
5	87	78	81	81	78	82	80	76	85	85	81	78		972	81						5
6	73	77	81	77	76	79	81	79	74	86	81	76		940	78						6
7	75	71	76	71	79	83	74	86	87	92	82	94		970	81						7
8	87	84	81	87	85	90	92	83	81	82	86	84		1022	85						8
9	79	82	74	78	81	77	79	82	79	87	74	82		954	80						9
10	80	81	81	81	80	83	88	80	82	82	78	73		969	81						10
11	82	76	73	76	71	72	78	79	83	85	80	82		937	78						11
12	78	81	75	76	80	72	89	86	82	85	83	81		968	81						12
13	74	86	78	84	75	78	81	77	81	83	83	78		958	80						13
14	83	81	80	83	81	88	87	78	88	80	92	87		1008	84						14
15	80	85	73	78	86	79	85	77	86	79	77	83		968	81						15
16	83	83	79	80	83	82	80	83	88	84	94	97		1016	85						16
17	85	86	86	85	85	81	82	78	89	82	77	76		992	83						17
18	67	69	64	69	71	72	74	69	68	78	72	65		838	70						18
19	64	61	63	62	68	56	67	69	78	66	73	70		797	66						19
20	75	61	66	71	70	65	64	70	66	72	67	67		814	68						20
21	71	74	65	73	67	65	62	76	79	73	78	74		857	71						21
22	63	70	66	60	72	77	71	69	72	71	67	74		832	69						22
23	66	73	62	69	73	70	68	75	65	70	71	68		830	69						23
24	72	73	69	75	80	71	73	73	78	84	74	80		902	75						24
25	81	70	75	75	75	78	81	80	82	76	78	78		929	77						25
26	77	83	77	80	87	82	79	79	85	83	78	79		969	81						26
27	92	84	87	90	88	85	92	85	88	85	91	85		1052	88						27
28	80	76	80	76	89	86	94	91	90	77	82	77		998	83						28
29	86	76	71	69	74	63	70	70	69	73	72	77		870	72						29
30	68	72	72	68	63	68	66	69	77	71	75	76		845	70						30
31	70	68	81	74	71	72	83	85	76	80	84	76		920	77			DAYS		MEAN	31
*Sum	2388	2357	2318	2349	2383	2367	2424	2419	2470	2477	2440	2433		28825	2402•	COMPLETE		31	=	77.5	
*Mean	77.0	76.0	74.8	75.8	76.9	76.4	78.2	78.0	79.7	79.9	78.7	78.5	→	929.9	→	COMPLETE		31	=	77.5	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1956

TABLE 58

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	82	87	77	77	80	77	87	80	80	84	85	71		967	81						1
2	78	71	73	67	69	76	69	71	74	75	76	74		873	73						2
3	67	67	71	71	70	72	75	73	75	76	78	80		875	73						3
4	75	74	76	75	77	68	76	67	71	75	75	64		873	73						4
5	75	73	65	74	77	75	68	66	72	77	71	76		869	72						5
6	72	66	69	74	71	73	77	76	76	69	72	72		867	72						6
7	64	69	83	74	76	70	74	74	75	76	74	73		882	74						7
8	72	75	77	83	74	71	68	67	69	72	77	72		877	73						8
9	73	76	74	74	77	71	72	72						(589)	(74)	8					9
10		73	82		82						71			(308)	(77)	4					10
11	71							72	70	72	73	69		(427)	(71)	6					11
12	74	77	77	82	86	76	78	85	75	76	72	68		926	77						12
13	65	76	72	69	80	83	78	73	80	75	87	79		917	76						13
14	77	70	77	78	75	74	69	72	70	78	77	68		885	74						14
15	64	66	78	70	70	67	66	70	67	69	64	57		808	67						15
16	58	70	76	75										(279)	(70)	4					16
17							48	56	56	52	48	62		(322)	(54)	6					17
18	50	56	49	60	50	47	48	54	56	57	57	48		632	53						18
19	53	57	48	55	53	43	53	54	48	49	48	41		602	50						19
20	41	47	47	56	52	55	54	63	56	63	61	67		662	55						20
21	64	61	63	68	74	66	80	83	80	76	72	80		867	72						21
22	79	74	69	73	85	80	89	98	80	86	87	79		979	82						22
23	74	117	>238	143	107	94	86	85	86	88	78	82		1278	106						23
24	83	77	75	70	72	77	68	73	70	73	73	68		879	73						24
25	75	61	59	60	58	70	56	59	49	50	55	62		714	60						25
26	69	61	71	63	64	71	67	62	78	70	78	72		826	69						26
27	76	72	61	69	65	70	74	73	72	75	65	67		839	70						27
28	67	68	70	62	67	69	78	71	73	79	77	86		867	72						28
29	79	78	81	70	79	82	78	86	97	88	88	85		991	83						29
30																					30
31																					31
																		DAYS		MEAN	
*Sum	1675	1700	1826	1743	1731	1706	1716	1735	1729	1756	1747	1691		20755	1730•	COMPLETE		24	=	72.1	
*Mean	69.8	70.8	76.1	72.6	72.1	71.1	71.5	72.3	72.0	73.2	72.8	70.5	→	864.8	→	COMPLETE		24	=	72.1	
															2076•	ALL		29	=	71.6	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

CHELTENHAM MAGNETIC OBSERVATORY

TABLE 59 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	81	84	74	79	73	86	76	79	79	72	79	79		941	78						1
2	79	76	74	72	79	76	75	80	80	77	84	82		934	78						2
3	81	73	63	66	69	67	78	73	70	69	69	75		853	71						3
4	71	61	61	66	75	75	67	65	63	75	73	65		817	68						4
5	71	67	60	61	70	70	67	63	64	73	66	60		792	66						5
6	63	59	65	64	61	68	74	70	71	69	69	63		796	66						6
7	63	63	53	64	53	63	62	69	61	66	58	66		741	62						7
8	61	55	53	63	53	68	78	76	76	75	77	70		805	67						8
9	70	75	69	75	66	75	83	88	79	69	70	72		891	74						9
10	70	59	66	68	66	73	68	69	62	71	62	60		794	66						10
11	60	69	78	60	70	59	64	54	63	57	62	67		763	64						11
12	61	58	56	55	61	56	52	56	57	65	60	71		708	59						12
13	53	56	54	50	56	46	57	56	54	63	49	51		645	54						13
14	45	45	45	53			41	58	54	56	55	46		(498)	(50)	10					14
15	50	52	49	56	52	53	57	65	60	60	62	52		668	56						15
16	60	51	59	61	54	63	62	57	67	60	62	63		719	60						16
17	69	65	62	62	62	71	66	71	77	69	69	69		812	68						17
18	64	67	67	73	73	64	67	62	76	67	75	70		825	69						18
19	68	69	67	75	70	72	74	78	84	77	77	68		879	73						19
20	71	66	69	73	83	80	77	82	76	74	68	67		886	74						20
21	67	63	61	69	75	76	78	73	67	73	59	64		825	69						21
22	54	60	58	61	61	58	63	65	64	64	68	59		735	61						22
23	62	60	59	57	63	62	60	63	64	65	65	54		734	61						23
24	63	61	63	65	60	63	67	65	73	70	60	73		783	65						24
25	71	73	73	73	77	92	74	78	72	77	70	73		903	75						25
26	63	65	69	72	71	75	81	66	63	72	79	70		846	70						26
27	58	72	75	64	69	64	70	72	63	68	69	59		803	67						27
28	59	58	64	75	66	71	72	71	78	73	67	73		827	69						28
29	69	71	64	63	62	63	73	72	70	69	67	65		808	67						29
30	71	68	77	75	74	66	72	77	75	79	75	79		888	74						30
31	68	80	72	78	72	70	75	77	78	79	74	68		891	74			DAYS		MEAN	31
Sum*	1971	1956	1934	1995	1996	2045	2089	2092	2086	2097	2044	2007		24312	2025•	COMPLETE		30	=	67.5	
Mean*	65.7	65.2	64.5	66.5	66.5	68.2	69.6	69.7	69.5	69.9	68.1	66.9	→	810.3	→	COMPLETE		30	=	67.5	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														2075•	ALL		31	=	66.9	

CHELTENHAM MAGNETIC OBSERVATORY

TABLE 60 — APRIL 1956

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	68	74	66	61	66	64	64	68	73	70	66	63		803	67						1
2																					2
3								53	60	63	64	55		(295)	(59)	5					3
4	51	58	54	48	54	52	59	60	67	61	60	53		677	56						4
5	63	59	64	63	64	58	65	62	74	68	74	68		782	65						5
6	69	61	60	60	56	58	66	68	66	64	68	60		756	63						6
7	64	61	61	58	66	64	64	69	78	75	71	77		808	67						7
8	74	72	75	77	82	79	81	73	87	81	82	81		944	78						8
9	79	79	73	70	59	74	74	73	79	70	65	68		857	71						9
10	72	60	62	59	66	66	63	55	67	72	68	71		781	65						10
11	64	58	64	68	67	65	61	68	71	78	69	67		800	67						11
12	75	60	60	67	64	63	58	62	61	61	68	69		768	64						12
13	63	62	63	63	66	68	71	68	69	68	66	71		798	66						13
14	75	69	58	70	65	68	66	60	72	76	67	73		819	68						14
15	67	66	57	53	55	54	62	57	62	54	63	57		707	59						15
16	48	60	47	49	53	59	55	56	55	51	53	60		646	54						16
17	60	64	66	61	71	69	69	76	69	69	73	63		810	68						17
18	58	66	72	72	61	73	64	73	72	68	74	64		817	68						18
19	70	67	59	63	69	68	76	75	69	59	63	70		808	67						19
20	64	61	62	70	66	69	63	75	69	72	62	70		803	67						20
21	71	69	66	70	61	71	71	56	56	53	58	54		756	63						21
22	51	57	51	57	58	60	59							(393)	(56)	7					22
23																					23
24																					24
25								68	64	62	56	61		(311)	(62)	5					25
26	59	67	66	65	71	71	65	60	68	68	64	60		784	65						26
27	62	59	58	50	62	56	57	69	64	65	60	48		710	59						27
28	50	48	43	42	42	42	44	48	46	46	47	47		545	45						28
29	44	42	40	46	49	53	50	58	52	55	46	47		582	48						29
30	47	43	47	40	48	60	56	59	56	65	64	52		637	53						30
31																					31
																		DAYS		MEAN	
Sum*	1517	1485	1443	1445	1483	1524	1524	1548	1596	1569	1551	1513		18198	1513•		COMPLETE	24	=	63.0	
Mean*	63.2	61.9	60.1	60.2	61.8	63.5	63.5	64.5	66.5	65.4	64.6	63.0	→	758.2	→		COMPLETE	24	=	63.2	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1690•		ALL	27	=	62.6	

CHELTENHAM MAGNETIC OBSERVATORY

MAY 1956

TABLE 61 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	49	44	54	52	51	64	61	62	60	62	63	55		677	56					1
2	62	46	58	57	62	59	61	58	64	58	52	50		687	57					2
3	49	54	50	52	56	60	53	61	59	62	56	56		668	56					3
4	54	50	56	53	55	56	55	58	60	62	64	62		685	57					4
5	64	61	58	48	61	63	60	59	60	52	55	56		697	58					5
6	53	53	42	55	57	58	49	50	48	46	56	53		620	52					6
7	43	54	52	48	44	53	48	51	59	58	60	54		624	52					7
8	62	52	56	62	62	52	57	59	64	58	57	60		701	58					8
9	70	59	54	57	61	66	60	65	66	56	58	56		728	61					9
10	59	59	48	54	52	50	47	51	57	59	54	51		641	53					10
11	49	53	40	43	62	61	57	51	57	56	48	53		630	52					11
12	43	41	44	38	41	53	44	52	46	41	49	45		537	45					12
13	37	40	41	35	44	24	37	44	38	40	47	35		462	38					13
14	32	35	45	37	49	35	32	45	44	39	41	44		478	40					14
15	45	39	46	38	37	46	52	45	44	65	62	50		569	47					15
16	45	46	60	49	48	41	49	41	45	44	43	40		551	46					16
17	40	39	40	43	51	58	48	46	50	45	47	46		553	46					17
18	56	49	51	43	54	55	47	45	48	43	51	48		590	49					18
19	48	52	46	51	52	39	42	44	51	54	40	42		561	47					19
20	45	46	50	43	41	46	59	60	58	56	51	51		606	50					20
21	49	47	48	44	51	48	55	54	50	60				(506)	(51)	10				21
22							46	41	43	48	46	49		(273)	(46)	6				22
23	42	43	42	48	42	48	40	42	50	40	55	43		535	45					23
24	50	45	49	50	48	58	50	54	57	57	50	46		614	51					24
25	49	42	50	52	56	58	64	63	55	53	48	50		640	53					25
26	47	56	59	46	55	62	64	57	54	59	59	53		671	56					26
27	53	49	48	57	54	54	53	60	51	50	50	59		638	53					27
28	49	50	55	49	47	51	51	55	55	54	54	58		628	52					28
29	49							58	60	55	58	52		(332)	(55)	6				29
30	50	51	41	47	46	45	47	47	51	45	49	41		560	47					30
31	39	42	51	45	45	47	42	46	40	44	46	37		524	44			DAYS		MEAN 31
*Sum	1384	1350	1386	1352	1433	1462	1429	1471	1491	1458	1465	1394		17075	1421•	COMPLETE		28	=	50.8
*Mean	49.4	48.2	49.5	48.3	51.2	52.2	51.0	52.5	53.2	52.1	52.3	49.8	→	609.7	→	COMPLETE		28	=	50.8
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														157.3	ALL		31	=	50.7

CHELTENHAM MAGNETIC OBSERVATORY

TABLE 62 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	42	44	44	45	53	47	52	50	47	52	47	42		565	47						1
2	52	46	53	55	52	50	57	62	54	45	53	52		631	53						2
3	47	49	54	50	58	50	50	49	50	49	48	49		603	50						3
4	52	55	49	63	61	52	52	60	50	53	50	52		649	54						4
5	56	50	46	52	50	54								(308)	(51)	6					5
6																					6
7																					7
8							44	46	46	46	44	42		(268)	(45)	6					8
9	45	40	43	43			41	43	42	45	53	46		(441)	(44)	10					9
10	55	56	48	52	43	48	46	46	52	44	51	41		582	48						10
11	43	55	45	41	37	40	42	43	42	43	48	48		527	44						11
12	43	44	36	38	45	46	32	47	38	46	41	44		500	42						12
13	44	34	38	43	31	45	40	40	41	37	48	42		483	40						13
14	37	44	35	39	40	43	36	35	40	41	36	42		468	39						14
15	37	39	46	39	40	38	38	40	39	46	43	49		494	41						15
16	47	45	38	34	40	38	41	41	47	46	46	42		505	42						16
17	38	38	43	46	42	44	35	49	48	44	57	42		526	44						17
18	35	48	45	43	45	47	48	45	45	50	50	47		548	46						18
19	52	52	43	57	46	55	50	51	57	48	53	40		604	50						19
20	53	64	51	52	46	43	51	54	49	43	51	49		606	50						20
21	43	45	47	48										(183)	(46)	4					21
22							45	46	42	50	41	43		(267)	(44)	6					22
23	48	46	49	40	32	44	42	42	48	53	43	42		529	44						23
24	43	45	43	34	46	53	60	47	52	57	50	54		584	49						24
25	42	49	56	53	50	49	48	47	47	57	52	47		597	50						25
26	43	45	49	43	44	51	48	52	49	47	56	46		573	48						26
27	45	42	42	43	46	40	40	45	57	55	49	51		555	46						27
28	43	48	44	46	49	46	48	57	48	50	49	52		580	48						28
29	51						48	40	53	57	49	53		(351)	(50)	7					29
30	51	40	40	55	48	49	39	53	50	50	46	48		569	47						30
31																		DAYS		MEAN	31
Sum*	992	1028	991	1011	994	1018	995	1055	1050	1056	1067	1021		12278	1022●	COMPLETE		22	=	46.5	
Mean*	45.1	46.7	45.0	46.0	45.2	46.3	45.2	48.0	47.7	48.0	48.5	46.4	→	558.1	→	COMPLETE		22	=	46.5	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM														1302●	ALL		28	=	46.5	

TABLE 63 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	43	47	48	51	48	42	44	51	54	45	50	48		571	48						1
2	52	50	46	53	44	52	51	55	46	45	52	50		596	50						2
3	53	49	50	43	58	58	53	37	49	54	50	54		608	51						3
4	49	55	44	55	55	55	57	53	49	57	59	55		643	54						4
5	54	54	53	49	50	48	53	51	50	56	63	53		634	53						5
6	56	65	55	53	56	54	50	54	59	51	53	54		660	55						6
7	51	56	50	54	56	56	61	52	56	52	56	53		653	54						7
8	39	45	51	49	49	53	46	49	53	53	60	54		601	50						8
9	53	47	49	44	49	49	42	47	49	49	48	50		576	48						9
10	51	47	51	49	45	50	42	52	54	48	52	54		595	50						10
11	45	52	43	50	41	43	45	53	53	53	51	57		586	49						11
12	52	47	46	50	42	41	52	45	41	47	46	47		556	46						12
13	48	39	41	51	44	47	51	48	51	46	45	39		550	46						13
14	38	39	36	33	39	46	41	31	45	44	51	48		491	41						14
15	49	39	40	40	36	46	46	40	45	46	43	44		514	43						15
16	44	40	39	48	38	40	40	47	37	43	44	44		504	42						16
17	44	43	46	48	42	51	50	44	44	42	55	48		557	46						17
18	53	55	46	50	47	54	52	51	52	54	47	51		612	51						18
19	46	49	48	49	46	50	43	54	54	54	46	54		593	49						19
20	45	51	48	49	50	49	53	45	46	57	52	52		597	50						20
21	51	53	53	44	45	50	45	50	44	43	56	55		589	49						21
22	52	52	48	45	52	44	51	60	56	55	48	56		619	52						22
23	46	47	44	49	41	46	57	58	52	50	55	52		597	50						23
24	48	46	48	49	50	60	52	53	52	53	54	52		617	51						24
25	39	43	47	45	49	49	52	49	53	57	51	48		582	48						25
26	39	44	45	41	47	47	43	55	50	47	42	49		549	46						26
27	42	43	42	44	43	37	48	41	42	38	43	35		498	42						27
28	39	49	39	48	52	35	45	38	46	46	48	49		534	44						28
29	49	48	49	47	51	55	54	56	50	58	48	49		614	51						29
30	53	58	57	60	55	53	57	52	64	56	48	51		664	55						30
31	57	42	40	47	47	45	55	38	46	55	44	52		568	47			DAYS		MEAN	31
Sum*	1480	1494	1442	1487	1467	1505	1531	1509	1542	1554	1560	1557		18128	1511•	COMPLETE		31	=	48.7	
Mean*	47.7	48.2	46.5	48.0	47.3	48.5	49.4	48.7	49.7	50.1	50.3	50.2	→	584.6	→	COMPLETE		31	=	48.7	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

TABLE 64 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	50	44	41	48	42	40	50	49	48	48	52	52		564	47						1
2	47	47	43	45	55	47	38	47	54	45	49	41		558	46						2
3	53	48	51	56	58	48	44	54	51	52	52	54		621	52						3
4	52	48	54	52	49	38	46	55	38	52	48	57		589	49						4
5	49	52	48	54	38	46	41	42	43	44	45	50		552	46						5
6	45	47	41	47	51	44	47	41	45	54	52	50		564	47						6
7	54	52	51	49	53	53	54	53	55	54	51	57		636	53						7
8	55	43	52	40	51	53	49	52	60	48	44	46		593	49						8
9	59	51	55	49	49	44	49	50	50	44	59	58		617	51						9
10	52	49	43	49	51	58	51	49	51	58	56	50		617	51						10
11	45	48	42	43	37	46	48	50	48	63	52	46		568	47						11
12	44	42	44	39	39	45	46	33	37	45	43	41		498	42						12
13	48	43	33	37	40	43	38	37	38	44	42	40		483	40						13
14	37	39	41	43	41	41	44	53	38	43	51	49		520	43						14
15	48	45	52	54	42	49	46	48	54	53	54	44		589	49						15
16	56	53	47	41	54	56	50	50	52	45	44	53		601	50						16
17	45	45	45	44	46	40	48	51	49	44	43	57		557	46						17
18	46	47	51	38	50	46	52	59	42	56	47	44		578	48						18
19	42	43	46	50	52	57	43	58	52	60	42	53		598	50						19
20	49	56	51	48	37	47	47	50	59	57	60	57		618	52						20
21	60	54	58	46	49	40	42	52	72	52	55	50		630	52						21
22	43	51	48	47	55	47	44	50	52	50	51	57		595	50						22
23	47	47	48	41	40	44	47	48	55	49	38	38		542	45						23
24	35	39	40	36	31	44	39	43	42	51	43	35		478	40						24
25	35	31	30	36	34	38	43	45	44	34	40	42		452	38						25
26	43	42	42	44	40	43	40	39	42	38	49	41		503	42						26
27	41	46	40	50	38	40	38	43	40	43	48	57		524	44						27
28	41	47	55	41	58	45	46	48	42	52	46	43		564	47						28
29	49	53	44	46	49	49	48	48	50	53	44	47		580	48						29
30	39	47	49	51	46	46	48	43	48	47	39	37		540	45						30
31	46	49	41	51	37	32	44	35	35	42	41	41		494	41			DAYS		MEAN	31
Sum*	1455	1448	1426	1415	1412	1409	1410	1475	1486	1520	1480	1487		17423	1458	COMPLETE		31	=	46.8	
Mean*	46.9	46.7	46.0	45.6	45.5	45.5	45.5	47.6	47.9	49.0	47.7	48.0	→	561.9	→	COMPLETE		31	=	46.8	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM														●	ALL			=		

CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1956

TABLE 65

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	33	37	35	35	35	38	43	40	36	45	32	34		443	37						1
2	37	33	31	29	28	26	31	35	29	28	30	33		370	31						2
3	26	32	24	34	33	36	37	33	27	32	35	45		394	33						3
4	39	42	39	39	43	38	39	39	36	39	40	34		467	39						4
5	39	34	31	33	39	39	43	35	43	50	49	50		485	40						5
6	50	41	46	51	43	41	42	51	59	48	53	58		583	49						6
7	58	56	53	54	57	48	50	56	51	62	56	57		658	55						7
8	48	40	58	51	57	51	51	62	56	51	58	58		641	53						8
9	49	41	43	36	36	40	43	46	54	63	53	44		548	46						9
10	43	46	43	38	41	45	46	42	53	50	55	41		543	45						10
11	41	47	41	50	44	49	44	50	53	47	52	52		570	48						11
12	46	36	36	40	49	37	48	44	44	47	45	40		512	43						12
13	40	34	43	39	47	43	40	44	50	44	47	38		509	42						13
14	46	43	41	44	51	47	50	50	47	46	45	45		555	46						14
15	42	56	50	48	48	50	50	47	45	57	46	50		589	49						15
16	48	49	51	44	52	48	35	40	52	50	46	48		563	47						16
17	56	44	45	45	44	55	48	57	55	60	54	67		630	52						17
18	68	55	54	60	65	59	52	58	58	65	63	59		716	60						18
19	64	68	59	60	63	62	63	66	56	61	56	58		736	61						19
20	60	60	60	58	61	65	64	58	56	56	46	48		692	58						20
21	50	56	50	56	58	52	53	53	53	61	53	43		638	53						21
22	46	45	40	44	50	46	47	39	47	47	51	43		545	45						22
23	39	41	38	43	42	42	45	53	43	47	42	43		518	43						23
24	43	52	43	47	45	49	55	53	56	54	48	59		604	50						24
25	48	46	44	53	54	50	53	62	56	44	45	40		595	50						25
26	45	47	48	47	56	52	48	42	46	48	48	53		580	48						26
27	44	48	45	45	47	46	47	41	48	40	43	43		537	45						27
28	47	46	45	53	40	43	49	37	38	48	41	39		526	44						28
29	41	47	47	39	45	35	49	41	39	37	34	37		491	41						29
30	36	40	39	44	51	35	50	45	46	36	35	40		497	41						30
31																		DAYS		MEAN	31
Sum*	1372	1362	1322	1359	1424	1367	1415	1419	1432	1463	1401	1399		16735	1394•	COMPLETE		30	=	46.5	
Mean*	45.7	45.4	44.1	45.3	47.5	45.6	47.2	47.3	47.7	48.8	46.7	46.6	→	557.9	→	COMPLETE		30	=	46.5	
															•	ALL			=		

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

TABLE 66 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	48	44	41	49	46	45	46	46	46	51	51	47		560	47					1
2	53	40	41	41	48	45	57	45	48	48	42	49		557	46					2
3	43	34	40	45	40	28	43	48	45	54	43	42		505	42					3
4	46	44	40	50	47	45	53							(325)	(46)	7				4
5																				5
6																				6
7																				7
8																				8
9												52		(52)	(52)	1				9
10	50	52	58	53	55	51		57	57	52	57	62		(604)	(55)	11				10
11	66	65	55	59	58	67	64	56	58	58	54	60		720	60					11
12	66	59	60	59	57	61	57	63	64	55	57	63		721	60					12
13	59	61	61	59	56	67	59	63	56	61	64	60		726	60					13
14	58	58	57	67	52	65	57	54	62	63	63	60		716	60					14
15	62	65	57	60	59	52	52	56	61	58	52	53		687	57					15
16	59	56	44	55	63	60	61	59	68	60	66	59		710	59					16
17	54	58	50	63	45	57	64	65	65		59	58		(638)	(58)	11				17
18	64	53	58	62	66	63	55	58	58	57	61	66		721	60					18
19	56	62	62	63	68	56	65	70	68	66	72	72		780	65					19
20	61	63	75	68	62	61	66	63	67	74	57	62		779	65					20
21	58	60	59	60	61	52	67	65	61	64	57	58		722	60					21
22	60	58	66	61	59	57	64	68	59	62	68	65		747	62					22
23	63	56	68	60	58	63	64	64	66	60	65	61		748	62					23
24	61	52	61	63	61	58	60	62	65	60	67	62		732	61					24
25	54	57	60	64	72	65	66	71	65	68	64	72		778	65					25
26	64	58	75	71	63	67	68	63	70	72	67	63		801	67					26
27	58	54	70	64	66	66	62	70	50	60	63	62		745	62					27
28	55	59	59	58	67	64	69	56	65	67	59	58		736	61					28
29	59	59	55	64	59	64	65	60	69	63	65	64		746	62					29
30	57	61	66	55	59	59	64	57	65	69	57	67		736	61					30
31	59	61	60	59	61	61	61	53	63	67	65	66		736	61			DAYS		MEAN 31
Sum*	1343	1295	1350	1366	1361	1346	1392	1370	1399	1417	1379	1391		16409	1365•	COMPLETE		23	=	59.3
Mean*	58.4	56.3	58.7	59.4	59.2	58.5	60.5	59.6	60.8	61.6	60.0	60.5	→	713.5	→	COMPLETE		23	=	59.5
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1576•	ALL		27	=	58.4

** METER MOVED TO FREDERICKSBURG OCTOBER 5, 1956

TABLE 67 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	64	69	63	57	60	61	65	60	61	64	63	63		750	62						1
2	56	63	64	49	59	68	59	65	61	61	63	66		734	61						2
3	59	62	54	64	55	57	60	56	68	68	68	61		732	61						3
4	57	56	62	62	58	54	58	58	60	65	62	61		713	59						4
5	70	49	57	57	65	59	57	60	72	62	63	66		737	61						5
6	57	66	61	62	57	63	61	69	72	68	69	66		771	64						6
7	63	55	69	55	60	65	61	65	59	69	66	65		752	63						7
8	65	65	59	64	67	66	69	76	72	73	67	69		812	68						8
9	76	72	77	71	74	75	86	79	83	80	85	67		925	77						9
10	70	54	64	57	53	59	67	64	61	64	68	62		743	62						10
11	53	60	59	65	68	60	62	52	54	59	43	47		676	56						11
12	50	47	54	48	47	57	59	58	61	60	50	47		638	53						12
13	58	65	68	67	62	71	52	64	63	62	62	60		754	63						13
14	58	54	59	58	51	58	49	54	52	41	53	45		632	53						14
15	42	42	38	52	54	32	33	42	47	41	47	35		505	42						15
16	43	32	37	40	36	40	45	43	49	49	42	54		510	42						16
17	36	43	44	48	48	42	46	48	57	51	57	53		573	48						17
18	55	54	51	58	53	53	63	57	63	55	56	60		678	56						18
19	57	52	64	55	62	58	63	60	59	54	56	56		696	58						19
20	50	56	58	58	62	58	63	60	67	59	65	64		720	60						20
21	55	63	50	49	55	52	52	57	56	47	55	44		635	53						21
22	53	56	47	57	66	66	58	61	68	70	63	70		735	61						22
23	70	61	62	56	56	60	67	68	71	83	70	80		804	67						23
24	78	71	72	69	67	73	79	73	77	83	76	75		893	74						24
25	72	77	67	73	74	69	67	65	68	68	72	68		840	70						25
26	63	70	70	62	70	64	70	72	68	65	71	73		818	68						26
27	69	70	67	69	68	68	63	68	75	76	65	69		827	69						27
28	75							63	60	56	60	60		(374)	(62)	6					28
29	68	65	58	53	55	54	60	63	70	68	71	65		750	62						29
30	68	60	74	68	70	66	68	72	69	69	74	69		827	69						30
31																		DAYS		MEAN	31
Sum*	1735	1709	1729	1703	1732	1728	1762	1789	1863	1828	1822	1780		21180	1762•	COMPLETE		29	=	60.8	
Mean*	59.8	58.9	59.6	58.7	59.7	59.6	60.8	61.7	64.2	63.0	62.8	61.4	→	730.2	→	COMPLETE		29	=	60.8	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1824•	ALL		30	=	60.8	

TABLE 68 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	68	67	73	71	72	70	72	69	70	77	76	64		849	71						1
2	65	72	78	68	69	64	52	55	64	64	56	62		769	64						2
3	58	52	52	53	45									(260)	(52)	5					3
4							55	46	46	52	48	42		(289)	(48)	6					4
5	50	46	42	51	52	41	43	48	48	45	42	54		562	47						5
6	54	46	49	55	52	44	50	47	40	46	43	47		573	48						6
7	40	53	46	40	54	42	42	51	54	49	44	41		556	46						7
8	44	50	40	46	42	48	46	54	50	47	50	56		573	48						8
9	41	40	44	45	38	45	42	48	54	49	46	51		543	45						9
10	58	54	53	55	60	59	62	63	66	64	67	55		716	60						10
11	57	59	57	56	60	59	58	52	67	54	56	52		687	57						11
12	55	57	55	57	50	48	50	57	59	57	61	56		662	55						12
13	62	54	60	59	63	67	57	59	59	56	53	56		705	59						13
14	53	64	61	70	62	68	61	60	60	53	53	62		727	61						14
15	57	50	56	49	60	62	52	60	59	49	58	53		665	55						15
16	55	56	50	59	55	56	62	49	53	62	55	59		671	56						16
17	65	61	54	52	58	60	51	56	70	59	68	65		719	60						17
18	62	60	53	52	51	60	59	63	63	71	65	72		731	61						18
19	66	57	60	56	64	64	53	54	63	57	62	63		719	60						19
20	65	58	50	64	47	52	50	56	51	48	54	55		650	54						20
21	57	47	49	47	46	39	42	47	52	48	45	44		563	47						21
22	43	46	41	49	43	41	45	49	43	48	43	46		537	45						22
23	51	48	43	49	41	48	52	51	41	47	40	44		555	46						23
24	53	45	49	56	47	51	51	54	48	51	52	58		615	51						24
25	65	50	53	61	66	58	63	54	54	60	58	63		705	59						25
26	55	46	48	52	56	56	60	57	61	55	59	58		663	55						26
27	66	65	58	66	60	67	64	68	68	62	57	62		763	64						27
28	63	54	47	44	48	56	52	54	52	52	52	49		623	52						28
29	56	55	47	52	56	62	69	60	77	72	66	74		746	62						29
30	66	66	67	73	76	74	73	71	70	68	66	68		838	70						30
31	64	62	68	62	62	46	54	55	61	60	59	58		711	59			DAYS		MEAN	31
Sum*	1656	1588	1551	1616	1610	1607	1587	1621	1677	1630	1606	1647		19396	161.9	COMPLETE		29	=	55.8	
Mean*	57.1	54.8	53.5	55.7	55.5	55.4	54.7	55.9	57.8	56.2	55.4	56.8	→	668.8	→	COMPLETE		29	=	55.7	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														171.9	ALL		31	=	55.4	

TABLE 69 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	61	56	54	61	62	61	60	60	62	51	56	64		708	59						1
2	66	66	69	69	71	70	60	66	69	65	62	60		793	66						2
3	62	57	57	49	48	48	50	47	56	54	56	57		641	53						3
4	52	61	55	53	50	55	53	57	51	50	58	52		647	54						4
5	54	49	54	49	53	49	57	62	59	60	61	65		672	56						5
6	63	63	65	65	58	63	59	71	67	67	66	73		780	65						6
7	68	68	63	65	66	62	63	71	69	74	66	67		802	67						7
8	64	66	66	72	65	59	63	55	71	63	62	59		765	64						8
9	62	62	60	52	63	68	62	62	57	61	53	55		717	60						9
10	54	52	59	59	59	52	65	57	53	80	66	75		731	61						10
11	62	66	63	52	67	66	62	72	69	69	62	64		774	64						11
12	65	64	63	76	72	63	65	61	73	69	76	68		815	68						12
13	67	73	57	65	64	63	68	76	76	75	76	79		839	70						13
14	83	72	81	65	73	77	77	71	74	75	76	71		895	75						14
15	71	69	77	71	65	65	64	71	63	71	73	73		833	69						15
16	71	72	67	63	54	61	64	58	73	70	76	76		805	67						16
17	70	70	66	68	72	63	58	69	76	63	72	68		815	68						17
18	64	72	72	66	63	65	80	76	68	73	64	69		832	69						18
19	68	71	68	62	64	65	71	67	67	65	68	63		799	67						19
20	67	56	54	67	64	64	69	61	65	56	61	66		750	62						20
21	70	57	56	63	63									(309)	(62)	5					21
22																					22
23							13	28	31	26	27	24		(149)	(25)	6					23
24	34	31	34	31	36	36	41	31	42	55	53	47		471	39						24
25	44	41	39	36	39	45	44	42	38	42	34	37		481	40						25
26	49	49	44	41	49	41	43	48	46	40	47	52		549	46						26
27	44	52	46	49	42	34	46	41	43	42	47	46		532	44						27
28	53	48	44	51	50	47	45	39	47	47	43	40		554	46						28
29	41	45	49	48	48	38	39	37	38	37	24	33		477	40						29
30	37	44	46	51	51	46	44	45	42	48	51	44		549	46						30
31	48	48	41	39	43	41	38	36	47	39	44	42		506	42			DAYS		MEAN	31
*Sum	1644	1643	1613	1595	1611	1567	1610	1609	1661	1661	1653	1665		19532	1627•	COMPLETE		28	=	58.1	
*Mean	58.7	58.7	57.6	57.0	57.5	56.0	57.5	57.5	59.3	59.3	59.0	59.5	→	697.6	→	COMPLETE		28	=	58.1	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1714•	ALL		30	=	57.1	

FREDERICKSBURG MAGNETIC OBSERVATORY

TABLE 70 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean	B				Day
1	44	35	38	40	38	42	42	44	42	39	55	41	500	42					1
2	49	50	52	46	45	52	49	52	62	61	56	52	626	52					2
3	48	48	50	47	47	46	52	53	48	53	48	47	587	49					3
4	50	47	41	42	45	43	42	39	53	41	49	43	535	45					4
5	51	49	45	46	55	52	51	50	51	48	57	48	603	50					5
6	45	43	51	51	51	45	37	45	52	62	56	60	598	50					6
7	55	55	49	49	48	42	44	44	60	47	49	50	592	49					7
8	51	51	47	50	54	55	49	52	54	58	50	53	624	52					8
9	55	54	59	48	50	49	56	45	53	51	52	51	623	52					9
10	51	47	42	50	44	43	47	58	53	52	60	51	598	50					10
11	57	58	49	47	47	55	53	62	65	57	71	67	688	57					11
12	65	63	63	56	57	56	56	66	62	62	71	65	742	62					12
13	59	65	70	61	56	58	64	68	65	84	70	66	786	66					13
14	63	61	69	78	71	70	67	66	71	83	75	67	841	70					14
15	75	66	64	66	70	64	64	66	71	63	72	56	797	66					15
16	70	56	61	66	66	68	65	78	70	58	67	70	795	66					16
17	68	65	73	72	74	85	70	77	72	68	71	68	863	72					17
18	58	66	63	57	69	65	63	65	59	66	53	57	741	62					18
19	59	57	57	55	59	53	54	51	51	61	53	55	665	55					19
20	57	62	63	65	63	65	71	54	72	68	61	66	767	64					20
21	57	62	67	63	61	62	62	57	66	56	58	55	726	60					21
22	63	56	55	56	69	63	60	64	65	61	60	53	725	60					22
23	56	54	56	62	61	57	51	63	68	71	54	50	703	59					23
24	52	57	57	63	50	53	51	51	50	57	65	58	664	55					24
25	58	52	59	55	48	49	61	58	68	54	58	59	679	57					25
26	57	44	55	47	44	49	38	46	58	54	51	49	592	49					26
27	54	51	51	52	49	43	57	46	53	51	60	55	622	52					27
28	51	61	57	56	57	52	60	59	57	56	58	65	689	57					28
29																			29
30																			30
31																	DAYS		MEAN 31
*Sum	1578	1535	1563	1546	1548	1536	1536	1579	1671	1642	1660	1577	18971	1580 ●	COMPLETE		28	=	56.4
*Mean	56.4	54.8	55.8	55.2	55.3	54.9	54.9	56.4	59.7	58.6	59.3	56.3	→ 677.6	→ ●	COMPLETE		28	=	56.5
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM														ALL			=	

FREDERICKSBURG MAGNETIC OBSERVATORY

TABLE 71 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

MARCH 1957

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	58	61	54	61	63	55	66	67	62	72	75	69		763	64						1
2	59	63	61	51	63	59	60	51	54	65	72	64		722	60						2
3	62	65	56	59	51	56	54	64	69	64	60	56		716	60						3
4	60	50	66	55	55	60	55	58	63	52	52	55		681	57						4
5	49	52	63	60	59	55	52	58	51	61	59	54		673	56						5
6	56	49	59	59	58	55	61	56	60	56	57	65		691	58						6
7	54	64	56	62	59	74	58	66	66	71	64	66		760	63						7
8	67	73	63	68	63	67	63	69	67	64	67	70		801	67						8
9	66	74	70	68	73	76	70	69	69	73	70	67		845	70						9
10	67	73	62	66	75	74	53	51	61	57	51	49		739	62						10
11	31	39	41	42	40	40	45	42	41	39	48	44		492	41						11
12	48	44	42	35	39	43	45	55	56	60	59	53		579	48						12
13	46	48	50	55	48	51	52	57	54	51	55	49		616	51						13
14	54	51	46	54	43	46	46	47	51	58	61	57		614	51						14
15	58	52	55	58	55	59	61	53	54	57	60	52		674	56						15
16	52	58	58	56	54	51	55	58	53	54	57	62		668	56						16
17	56	56	49	53	57	51	54	54	66	52	55	45		648	54						17
18	52	57	55	51	58	49	50	49	55	46	62	48		632	53						18
19	54	55	54	52	53	54	61	50	53	59	60	55		660	55						19
20	50	58	53	58	56	65	62	68	56	65	61	66		718	60						20
21	58	65	66	61	52	57	61	68	63	59	68	67		745	62						21
22	52	52	54	54	57	56	55	65	59	58	55	58		675	56						22
23	52	58	57	57	64	59	52	63	69	67	57	55		710	59						23
24	56	58	59	45	58	48	54	54	50	57	54	49		642	54						24
25	47	51	48	61	48	57	51	55	53	55	58	46		630	52						25
26	51	52	51	55	53	59	60	55	57	61	67	55		676	56						26
27	61	64	52	56	64	55	65	67	70	63	64	66		747	62						27
28	57	68	62	64	56	66	70	66	68	70	66	71		784	65						28
29	69	70	64	57	61	63	67	77	70	72	70	65		799	67						29
30	56	62	70	60	61	62	60	64	55	59	59	59		727	61						30
31	61	64	58	68	63	59	70	63	59	63	50	52		730	61			DAYS		MEAN	31
*Sum	1713	1806	1754	1761	1759	1781	1788	1839	1834	1860	1873	1789		21557	1797 •	COMPLETE		31	=	58.0	
*Mean	55.3	58.3	56.6	56.8	56.7	57.5	57.7	59.3	59.2	60.0	60.4	57.7	→	695.5	→	COMPLETE		31	=	58.0	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

TABLE 72 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	50	58	49	59	62	61	60	60	58	59	55	51		682	57						1
2	49	51	51	55	52	48	52	55	48	52	54	43		610	51						2
3	58	48	52	59	53	57	59	57	55	58	51	55		662	55						3
4	55	53	47	54	56	52	48	45	44	42	51	55		602	50						4
5	42	38	49	40	40	47	50	44	35	39	35	38		497	41						5
6	35	37	34	43	43	55	48	54	48	58	61	55		571	48						6
7	52	41	52	40	47	49	47	48	54	55	51	48		584	49						7
8	52	42	37	45	39	41								(256)	(43)	6					8
9								54	51	50	54	48		(257)	(51)	5					9
10	48	46	46	51	57	48	56	63	64	65	58	59		661	55						10
11	56	61	58	54	70	60	61	54	61	53	60	47		695	58						11
12	46	55	50	60	59	56	55	49	51	55	58	51		645	54						12
13	58	59	55	60	52	61	62	59	66	62	72	66		732	61						13
14	57	58	64	60	65	62	65	60	60	60	64	63		738	62						14
15	61	63	63	63	56	66	57	61	63	56	53	56		718	60						15
16	56	56	55	47	48	51	55	47	50	54	51	46		616	51						16
17	44	46	44	43	49	49	46	43	38					(402)	(45)	9					17
18																					18
19																					19
20																					20
21																					21
22																					22
23																					23
24																					24
25																					25
26																					26
27																					27
28																					28
29																					29
30	47	46	46	44	44	48	44	40	38	53	40	42		532	44						30
31																		DAYS		MEAN	31
Sum*	770	770	771	789	804	821	819	796	795	821	814	775		9545	796•	COMPLETE		15	=	53.1	
Mean*	51.3	51.3	51.4	52.6	53.6	54.7	54.6	53.1	53.0	54.7	54.3	51.7	→	636.3	→	COMPLETE		15	=	53.0	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														935•	ALL		18	=	51.9	

FREDERICKSBURG MAGNETIC OBSERVATORY

TABLE 73 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	51	45	51	45	47	47	53	52	42	44	47	46		570	48					1
2	44	43	44	48	40	41	42	50	49	51	55	44		551	46					2
3	44	48	46	53	50	45	54	48	50	47	59	57		601	50					3
4	57	60	58	58	52	62	60	58	68	62	63	53		711	59					4
5	55	59	53	52	61	62	52	54	64	58	59	55		684	57					5
6	65	58	51	53	55	58	58	58	60	69	57	53		695	58					6
7	58	57	52	52	52	52	57	54	54	60	56	57		661	55					7
8	49	55	47	54	55	45	49	49	45	42	40	48		578	48					8
9	41	46	44	47	48	43	40	40	50	43	43	52		537	45					9
10	47	45	42	33	45	46	50	45	47	43	48	49		540	45					10
11	42	46	41	41	43	37	40	42	53	47	50	49		531	44					11
12	48	40	40	36	39	42	50	37	40	53	44	38		507	42					12
13	42	38	34	44	44									(202)	(40)	5				13
14																				14
15							54	44	41	48	45	51		(283)	(47)	6				15
16	53	60	47	49	46	44	48	45	44	53	49	50		588	49					16
17	56	43	55	51	43	44	45	51	48	58	44	50		588	49					17
18	46	42	45	44	44	42	39	42	40	46	53	49		532	44					18
19	49	48	48	44	40	47	43	50	45	46	53	42		555	46					19
20	47	51	43	44	51	40	47	43	60	48	58	52		584	49					20
21	54	46	48	50	50	48	47	47	44	56	53	58		601	50					21
22	50	42	38	40	38	44	39	43	47	44	31	36		492	41					22
23	39	38	35	36	40	40	30	43	44	37	28	38		448	37					23
24	38	50	42	39	46	38	38	39	49	51	40	46		516	43					24
25	41	39	41	37	47	38	35	40	37	37	46	54		492	41					25
26	43	40	38	28	35	37	26	40	42	23	31	27		410	34					26
27	33	33	38	49	35	30	38	39	30	36	39	34		434	36					27
28	41	44	39											(124)	(41)	3				28
29									46	37	50	40		(173)	(43)	4				29
30	37	43	41	38	38	51	36	41	41	46	45	46		503	42					30
31	46	49	38	34	39	33	40	37	35	44	38	41		474	40			DAYS		MEAN 31
*Sum	1233	1226	1166	1155	1179	1156	1156	1187	1228	1244	1229	1224		14383	1198•	COMPLETE		26	=	46.1
*Mean	47.4	47.2	44.8	44.4	45.3	44.5	44.5	45.7	47.2	47.8	47.3	47.1	→	553.2	→	COMPLETE		26	=	46.1
															1369•	ALL		30	=	45.6

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

FREDERICKSBURG MAGNETIC OBSERVATORY

TABLE 74 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	42	38	34	35	36	38	36	39	44	50	43	41		476	40						1
2	41	35	32	34	35	45	33	39	44	40	46	44		468	39						2
3	42	44	44	37	40	36	37	36	42	40	43	35		476	40						3
4	34	36	41	42	43	43	45	35	46	38	47	37		487	41						4
5	36	34	42	33	37	43	42	38	35	38	37	38		453	38						5
6	28	34	39	37	35	37	39	49	39	47	33	43		460	38						6
7	23	30	30	41	45	39	47	43	32	42	38	41		451	38						7
8	31	33	33	36	35	40	40	47	44	45	49	50		483	40						8
9	43	46	43	44	43	43	43	45	47	50	37	43		527	44						9
10	40							41	45	54	43	51		(274)	(46)	6					10
11	41	42	45	41	42	39	38	40	53	49	43	42		515	43						11
12	46	38	49	45	40	34	48	46	38	42	48	40		514	43						12
13	45	46	44	42	44	43	46	49	48	44	40	48		539	45						13
14	44	38	40	40	46	45	41	39	45	33	41	34		486	40						14
15	39	45	41	43	43	46	36	29	27	22	28	38		437	36						15
16	45	39	34	35	34	32	40	33	31	30	41	36		430	36						16
17	46	39	36	36	37	39	31	32	34	35	34	34		433	36						17
18	27	37	40	37	33	31	40	32	32	43	39	34		425	35						18
19	32	45	36	39	40	36	43	24	31	34	33	30		423	35						19
20	31	39	40	40	30	32	31	34	35	32	36	39		419	35						20
21	40	26	42	41	33	35	36	35	36	38	36	32		430	36						21
22	30	37	27	31	32	26	27	22	22	26	28	36		344	29						22
23	33	21	27	16	22	26	26	26	21	29	20	20		287	24						23
24	17	20	23	13	20	12	22	14	21	14	21	23		220	18						24
25	14	22	14	22	26	24	29	20	32	24	26	17		270	22						25
26	18	21	19	24	27	24	34	28	35	26	35	22		313	26						26
27	36	22	20	30	26	25	29	35	32	27	28	26		336	28						27
28	17	18	20	29	21	26	34	34	27	27	15	17		285	24						28
29	22	31	14	32	31	35	22	27	27	35	29	14		319	27						29
30	20	26	32	30	24	25	25	13	16	6	5	10		232	19						30
31																		DAYS		MEAN	31
Sum*	963	982	981	1005	1000	999	1040	983	1016	1006	999	964		11938	995•	COMPLETE		29	=	34.3	
Mean*	33.2	33.9	33.8	34.7	34.5	34.4	35.9	33.9	35.0	34.7	34.4	33.2	→	411.6	→	COMPLETE		29	=	34.3	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1041•	ALL		30	=	34.7	

FREDERICKSBURG MAGNETIC OBSERVATORY

TABLE 75 — JULY 1957

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	13	11	10	19	19	14	25	25	38	25	19	19		237	20						1
2	16	16	22	24	17	15	24	14	16	27	24	24		239	20						2
3	14	7	16	14	15	6	11	15	21	18	14	18		169	14						3
4	9	5	8	14	11	21	17	8	21	11	12	14		151	13						4
5	19	16	12	8	16	19	9	15	19	22	23	18		196	16						5
6	15	15	16	22	22	14	17	26	25	23	24	23		242	20						6
7	33	23	12	18	32	27	27	24	21	30	23	24		294	24						7
8	20	21	28	26	21	26	30	28	32	36	25	26		319	27						8
9	20	17	22	18	19	14	24	28	29	31	29	28		279	23						9
10	21	31	26	24	27	33	31	31	34	33	28	39		358	30						10
11	36	27	29	37	27	33	37	32						(258)	(32)	8					11
12											40	44		(84)	(42)	2					12
13	40	42	37	43	37	36	31	31	39	48	42	44		470	39						13
14	42	34	40	46	40	44	31	39	41	42	37	38		474	40						14
15	46	35	42	38	53	31	31	34	46	41	37	38		472	39						15
16	37	44	37	37	35	41	38	34	36	42	37	38		456	38						16
17	44	34	44	41	31	34	32	37	34	34	37	44		446	37						17
18	43	38	34	31	41	37	40	38	38	46	42	36		464	39						18
19	41	46	46	46	42	38	39	42	41	38	42	42		503	42						19
20	34	38	38	34	28	33	30	29	32	25	30	32		383	32						20
21	28	32	22	35	26	31	28	30	38	37	32	24		363	30						21
22	24	30	27	29	26	27	32	30	29	35	36	30		355	30						22
23	42	32	30	33	34	35	36	39	41	41	37	34		434	36						23
24	35	37	33	38	49	40	38	37	39	38	39	41		464	39						24
25	47	38	41	37	39	40	45	41	50	48	49	46		521	43						25
26	48	45	45	44	38	42	47	50	48	45	39	45		536	45						26
27	47	55	41	48	51	53	43	51	52	40	56	51		588	49						27
28	42	34	40	46	37	44	49	51	46	41	42	41		513	43						28
29	43	41	45	36	39	36	39	32	41	37	38	48		475	40						29
30	42	38	33	44	35	38	36	46	49	38	48	35		482	40						30
31	38	44	40	34	30	40	39	35	38	43	47	43		471	39			DAYS		MEAN	31
*Sum	943	899	887	927	910	909	919	940	1034	1015	988	983		11354	949●	COMPLETE		29	=	327	
*Mean	32.5	31.0	30.6	32.0	31.4	31.3	31.7	32.4	35.7	35.0	34.1	33.9	→	391.6	→	COMPLETE		29	=	32.6	
															1021●	ALL		31	=	32.9	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM

TABLE 76 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	39	40	36	39	32	41	32	30	37	36	43	43		448	37						1
2	31	36	46	34	29	29	34	39	46	40	37	36		437	36						2
3	42	29	40	42	27	47	42	40	40	40	36	33		458	38						3
4	27	29	27	15	22	13	18	14	15	15	16	24		235	20						4
5	22	17	18	4								16		(77)	(15)	5					5
6	3	21	20	27	25	28	33	22	22	31	26	28		286	24						6
7	24	20	23	21	24	18	23	31	28	21	28	15		276	23						7
8	28	13	13	19	17	30	26	36	33	32	23	18		288	24						8
9	18	21	20	22	22	20	34	20	27	24	25	23		276	23						9
10	21	26	32	30	33	26	33	36	40	37	29	33		376	31						10
11	38	32	36	28	23	31	35	32	34	27	36	30		382	32						11
12	30	30	31	38	30	21	42	28	30	33	38	36		387	32						12
13	42	36	34	31	38	24	30	43	32	36	43	40		429	36						13
14	45	40	31	31	27	31	36	39	40	45	39	37		441	37						14
15	41	39	36	38	28	38	37	27	42	38	34	36		434	36						15
16	36	36	32	31	30	34	24	30	34	37	33	34		391	33						16
17	32	37	35	40	33	39	35		41	42	45	31		(410)	(37)	11					17
18	38	37	39	43	35	39	34	38	40	49	44	41		477	40						18
19	47	48	43	35	41	41	49		43	39	40	50		(476)	(43)	11					19
20	49	49	52	49	33	43	50	43	52	48	45	37		550	46						20
21	40	50	48	47	48	47	42	51	57	53	55	51		589	49						21
22	45	41	41	42	42	41	49	53	52	46	44	48		544	45						22
23	42	48	46	44	50	53	42	47	49	52	53	55		581	48						23
24	46	45	42	42	47	45	43	40	45	38	49	40		522	44						24
25	40	40	40	44	32	39	45	38	45	45	44	44		496	41						25
26	42	43	34	34	36	36	36	40	37	41	41	36		456	38						26
27	36	29	37	20	23	29	26	27	31	38	37	29		362	30						27
28	21	33	21	22	29	33	30	29	25	24	25	33		325	27						28
29	26	26	21	25	33	32	30	33	40	38	33	14		351	29						29
30	1	-2	-5	-8	-5	-7	-2	-11	-2	3	-3	-11		-52	-4						30
31	-4	-16	0	2	4	-6	6	-3	9	4	0	1		-3	0			DAYS		MEAN	31
Sum*	887	871	873	852	814	855	910	892	980	971	953	884		10742	895•	COMPLETE		28	=	32.0	
Mean*	31.7	31.1	31.2	30.4	29.1	30.5	32.5	31.9	35.0	34.7	34.0	31.6	→	383.7	→	COMPLETE		28	=	32.0	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														998•	ALL		31	=	31.9	

FREDERICKSBURG MAGNETIC OBSERVATORY

TABLE 77 — SEPTEMBER 1957

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	8	2	5	5	7	3	2	6	13	13	20	10		94	8						1
2	11	3	8	7	-12	9	15	13	19	9	9	5		96	8						2
3	-10	-10	2	-7	-9	-5	-3	6	-5	-1	9	-5		-38	-3						3
4	4	-4	-10	-1	3	6	14	10	16	11	0	-7		42	4						4
5	-5	-11	10	3	3	4	8	14	5	21	25	17		94	8						5
6	15	13	7	6	15	13	16	13	22	20	23	13		176	15						6
7	26	13	9	14	10	-2	10	15	24	23	26	16		184	15						7
8	15	12	10	11	16	14	25	28	23	13	13	16		196	16						8
9	13	15	14	10	18	16	20	14	17	15	22	20		194	16						9
10	20	13	10	18	14	19	13	23	31	25	25	27		238	20						10
11	27	23	20	16	17	29	27	12	24	22	25	32		274	23						11
12	34	21	29	21	25	27	30	21	26	29	27	29		319	27						12
13	37	29	9	18	28	14	27	23	21	18	16	19		259	22						13
14	12	15	26	16	26	19	16	24	28	23	28	29		262	22						14
15	18	20	14	10	18	24	20	24	34	30	31	34		277	23						15
16	18	23	31	22	27	27	28	33	32	35	29	36		341	28						16
17	28	30	29	38	34	37	32	34	46	40	40	39		427	36						17
18	32	34	36	28	30	37	41	36	52	42	33	37		438	36						18
19	31	39	32	29	28	31	28	32	39	42	41	30		402	34						19
20	36	32	32	33	26	37	41	39	41	45	43	40		445	37						20
21	39	38	38	29	27	37	43	37	37	30	31	34		420	35						21
22	28	31	36	34	29	35	30	42	31	21	23	26		366	30						22
23	27	27	16	20	21	24	24	23	17	28	32	26		285	24						23
24	30	31	37	30	25	35	35	32	31	29	37	41		393	33						24
25	39	39	29	28	30	38	42	31	39	38	33	35		421	35						25
26	29	31	37	38	36	38	38	35	45	45	39	32		443	37						26
27	51	43	42	47	41	47	43	44	42	46	55	47		548	46						27
28	38	50	43	38	42	40	45	39	47	49	51	41		523	44						28
29	52	48	37	37	28	29	30	33	23	21	20	18		376	31						29
30	14	16	21	20	22	25	24	24	22	22	21	15		246	20						30
31																		DAYS		MEAN	31
*Sum	717	666	659	618	625	707	764	760	842	804	827	752		8741	730•	COMPLETE		30	=	24.3	
*Mean	23.9	22.2	22.0	20.6	20.8	23.6	25.5	25.3	28.1	26.8	27.6	25.1	→	291.5	→	COMPLETE		30	=	24.3	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

TABLE 78 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	15	20	17	16	16	25								(109)	(18)	6				1
2								34	30	27	29	28		(148)	(30)	5				2
3	28	25	21	26	31	29	30	28	30	26	35	29		338	28					3
4	39	32	34	21	27	31	30	33	35	43	49	34		408	34					4
5	38	33	35	33	41	32	37	42	44	48	40	35		458	38					5
6	34	36	38	33	29	38	41	36	37	32	35	39		428	36					6
7	36	33	32	34	31	37	41	34	34	39	34	38		423	35					7
8	30	38	44	40	40	31	34	31	34	32	38	39		431	36					8
9	43	42	46	38	41	27	36	39	41	44	46	48		491	41					9
10	44	46	44	42	50	39	43	43	41	52	51	46		541	45					10
11	56	48	48	42	41	42	42	45	47	48	54	48		561	47					11
12	43	38	37	39	34	52	52	46	47	41	43	38		510	42					12
13	41	34	41	38	42	49	48	44	50	40	42	40		509	42					13
14	40	40	43	39	40	45	42	41	52	52	48	42		524	44					14
15	40	40	44	46	43	46	51	47	47	41	44	44		533	44					15
16	36	45	48	46	52	40	39	46	43	47	48	45		535	45					16
17	42	45	42	45	45	34	43	39	42	47	40	32		496	41					17
18	41	44	44	35	39	44	44	47	40	47	46	53		524	44					18
19	50	47	44	50	41	53	48	43	47	63	52	54		592	49					19
20	56	50	47	50	49	46	49	51	44	50	55	52		599	50					20
21	48	47	46	49	40	44	37	47	49	60	56	49		572	48					21
22	44	34	9	8	8	10	15	16	14	11	-1	8		176	15					22
23	11	18	7	-6	-8	5	4	7	16	0	8	16		78	6					23
24	0	12	10	12	17	6	15	21	18	19	24	17		171	14					24
25	18	20	26	29	22	13	24	30	26	35	20	26		289	24					25
26	26	23	31	30	40	37	27	29	33	35	36	26		373	31					26
27	37	33	38	46	42	36	38	49	40	51	44	56		510	42					27
28	44	41	40	50	52	49	52	45	49	43	50	54		569	47					28
29	44	53	42	51	40	33	40	39	46	40	42	40		510	42					29
30	42	44	46	35	36	39	41	35	41	43	43	45		490	41					30
31	47	46	40	43	44	37	43	52	48	39	53	43		535	45		DAYS		MEAN	31
*Sum	1098	1087	1067	1044	1049	1024	1086	1105	1135	1168	1175	1136		13174	1096•	COMPLETE	29	=	37.8	
*Mean	37.9	37.5	36.8	36.0	36.2	35.3	37.4	38.1	39.1	40.3	40.5	39.2	→	454.3	→	COMPLETE	29	=	37.9	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1147•	ALL	31	=	36.9	

TABLE 79

FREDERICKSBURG MAGNETIC OBSERVATORY

NOVEMBER 1957

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	39	37	44	43	34	40	32	27	35	37	36	41		445	37						1
2	33	35	39	38	39	44	35	34	37	38	34	35		441	37						2
3	35	33	37	34	39	32	37	31	43	41	49	42		453	38						3
4	49	48	40	36	43	31	35	45	52	46	48	48		521	43						4
5	39	41	39	41	39	43	46	49	45	49	56	51		538	45						5
6	39	57	54	50	43	47	49	63	54	57	56	47		616	51						6
7	46	45	42	46	52	46	47	49	42	49	46	44		554	46						7
8	43	41	46	59	46	48	43	44	48	36	46	45		545	45						8
9	40	43	46	50	48	47	47	51	49	43	52	54		570	48						9
10	56	53	61	54	52	46	52	52	55	49	53	58		641	53						10
11	56	58	56	49	54	55	40	55	57	58	57	55		650	54						11
12	44	52	51	59	56	57	57	51	55	58	60	48		648	54						12
13	57	48	57	52	50	54	50	60			55	49		(532)	(53)	10					13
14	49	51	44	43	53	53	49	52	42	54	54	45		589	49						14
15	47	48	49	53	50	52	37	48	51	57	47	47		586	49						15
16	49	47	39	34	39	41	47	43	41	46	51	45		522	44						16
17	44	35	35	41	41	46	45	42	48	45	39	49		510	42						17
18	40	39	45	41	50	40	43	38	44	43	40	43		506	42						18
19	39	26	32	39	40	40	35	32	39	41	47	40		450	38						19
20	42	47	55	49	49	45	54	52	61	52	51	53		610	51						20
21	51	54	52	52	52	52	59	47	62	53	53	63		650	54						21
22	63	63	61	53	62	57	55	58	55	52	56	54		689	57						22
23	51	53	56	55	54	51	55	56	50	58	54	51		644	54						23
24	37	39	43	41	32	41	45	39	42	41	39	36		475	40						24
25	38	28	31	34	29	26	36	35	34	40	39	35		405	34						25
26	40	38	31	20	17	39	44	23	23	17	10	16		318	26						26
27	17	19	9	8	14	25	14	10	19	25	25	12		197	16						27
28	14	13	13	12	18	13	22	16	20	22	22	16		201	17						28
29	10	19	12	15	15	11	20	17	20	27	26	31		223	19						29
30	19	16	17	18	18	16	35	34	28	35	35	35		306	26						30
31																					31
																		DAYS		MEAN	
Sum*	1169	1178	1179	1167	1178	1184	1215	1193	1251	1269	1281	1239		14503	1209•		COMPLETE	29	=	41.7	
Mean*	40.3	40.6	40.7	40.2	40.6	40.8	41.9	41.1	43.1	43.8	44.2	42.7	→	500.0	→		COMPLETE	29	=	41.7	
															1262•		ALL	30	=	42.1	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

TABLE 80 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	36	45	51	53	44	36	48	35	41	45	46	40		520	43						1
2	49	37	34	30	37	31	38	37	40	51	45	43		472	39						2
3	38	44	44	37	46	33	45	50	44	56	44	47		528	44						3
4	51	50	41	48	51	45	47	48	59	56	55	58		609	51						4
5	59	51	49	56	48	49	56	41	47	53	54	47		610	51						5
6	48	46	48	41	37	39	38	34	34	35	37	36		473	39						6
7	37	30	30	31	35	26	31	34	33	32	42	35		396	33						7
8	36	37	33	35	38	39	36	44	41	42	46	42		469	39						8
9	48	43	38	39	38	30	49	43	41	51	45	41		506	42						9
10	41	44	37	45	35	47	37	48	53	47	48	44		526	44						10
11	47	45	44	56	52	54	61	55	51	55	55	66		641	53						11
12	54	65	67	64	69	71								(390)	(65)	6					12
13								49	55	56	48	44		(252)	(50)	5					13
14	46	43	42	44	40	46	42	51	48	48	47	42		539	45						14
15	50	45	35	47	45	46	47	43	45	53	46	45		547	46						15
16	46	48	45	47	43	45	43	51	43	46	45	52		554	46						16
17	45	46	38	46	41	35	42	39	35	35	34	40		476	40						17
18	45	41	43	41	37	37	30	32	32	28	35	44		445	37						18
19	40	46	49	54	59	50	56	50	39	36	29	33		541	45						19
20	27	19	18	13	32	24	28	21	23	24	15	21		265	22						20
21	22	26	32	24	23	24	17	21	20	25	23	19		276	23						21
22	30	24	27	20	28	16	32	21	20	22	13	17		270	22						22
23	18	26	21	38	34									(137)	(27)	5					23
24																					24
25							35	40	33	37	30	33		(208)	(35)	6					25
26	37	33	45	37	32	33	36	42	50	51	55	59		510	42						26
27	52	56	59	55	52	50	45	47	49	52	52	48		617	51						27
28	46	44	51	51	49	45	49	48	43	47	53	54		580	48						28
29	45	50	50	53	41	53	52	46	46	50	40	51		577	48						29
30	44	43	47	55	49	54	55	54	55	51	53	54		614	51						30
31	46	45	44	50	45	51	43	41	38	38	44	39		524	44			DAYS		MEAN	31
Sum*	1111	1081	1074	1108	1077	1038	1103	1076	1070	1129	1101	1117		13085	1088●	COMPLETE		26	=	41.8	
Mean*	42.7	41.6	41.3	42.6	41.4	39.9	42.4	41.4	41.2	43.4	42.3	43.0	→	503.2	→	COMPLETE		26	=	41.9	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM														1265●	ALL		30	=	42.2	

FREDERICKSBURG MAGNETIC OBSERVATORY

TABLE 81 — JANUARY 1958

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	41	35	42	46	43	52	41	53	48	38	50	54		543	45						1
2	57	58	56	56	52	57	64	59	65	63	62	63		712	59						2
3	59	61	65	60	52	48	49	50	50	62	57	52		665	55						3
4	54	59	53	46	53	60	55	56	53	51	57	69		666	56						4
5	54	67	59	53	52	46	51	53	50	57	53	43		638	53						5
6	45	46	47	43	52	47	46	48	42	54	53	46		569	47						6
7	43	47	45	51	48	49	41	47	47	55	47	52		572	48						7
8	50	54	49	67	53	67	58	61	60	56	69	68		712	59						8
9	64	61	61	66	52	54	58	59	63	52	65	54		709	59						9
10	53	49	54	45	50	47	53	43	53	54	51	51		603	50						10
11	44	48	45	45	50	50	56	57	55	52	46	56		604	50						11
12	53	45	45	58	45	52	47	54	32	39	43	49		562	47						12
13	52	35	47	39	53	49								(275)	(46)	6					13
14																					14
15							53	48	52	50	55	58		(316)	(53)	6					15
16	58	57	61	62	54	60	66	65	54	56	58	59		710	59						16
17	51	54	50	49	52	58	53	60	51	55	50	44		627	52						17
18	52	46	48	51	48	53	44	55	45	53	41	50		586	49						18
19	53	50	52	47	57	48	37	41	43	44	37	32		541	45						19
20	39	48	46	37	39	50	46	49	58	39	40	42		533	44						20
21	31	43	44	41	41	32	43	27	39	36	34	38		449	37						21
22	37	40	44	36	38	33	45	48	52	41	46	48		508	42						22
23	45	40	48	41	41	40	44	44	45	44	45	38		515	43						23
24	42	34	36	36	45	41	44	38	35	45	41	42		479	40						24
25	37	43	32	43	45	50	46	49	44	46	53	48		536	45						25
26	41	38	47	49	43	47	53	51	55	52	51	50		577	48						26
27	52	58	59	52	54	56	53	56	55	48	61	52		656	55						27
28	50	52	61	54	60	55	58	57	51	59	58	61		676	56						28
29	53	51	63	47	63	52	44	55	55	55	44	54		636	53						29
30	56	53	53	52	45	49	52	56	52	57	50	54		629	52						30
31	49	47	50	47	46	51	51	43	56	46	46	47		579	48			DAYS		MEAN	31
*Sum	1363	1384	1415	1380	1373	1404	1398	1434	1408	1409	1408	1416		16792	1396•	COMPLETE		28	=	49.9	
*Mean	48.7	49.4	50.5	49.3	49.0	50.1	49.9	51.2	50.3	50.3	50.3	50.6	→	599.6	→	COMPLETE		28	=	50.0	
															1495•	ALL		30	=	49.8	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

FREDERICKSBURG MAGNETIC OBSERVATORY

TABLE 82 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	45	48	50	45	51	45	50	51	54	47	67	56		609	51						1
2	60	58	49	52	53	59	50	54	62	63	65	61		686	57						2
3	65	58	49	50	59	51	65	60	71	68	69	66		731	61						3
4	62	63	61	57	49	56	66	64	61	62	70	62		733	61						4
5	59	57	53	60	57	56	57	55	63	58	54	50		679	57						5
6	56	61	50	45	44	53	58	48	43	41	48	42		589	49						6
7	47	47	45	48	41	47	50	53	50	56	53	55		592	49						7
8	46	54	55	57	52	63	55	54	54	57	61	66		674	56						8
9	60	69	66	69	71	62	59	62	57	66	60	59		760	63						9
10	66	67	63	63	57	65	63	63	66	60	66	59		758	63						10
11	54	46	31	31	43	43	46	47	52	49	48	55		545	45						11
12	48	39	42	43	52	48	46	42	45	38	45	39		527	44						12
13	47	39	45	46	42	56	52	54	58	53	55	61		608	51						13
14	55	63	59	64	61	61	54	60	59	63	62	60		721	60						14
15	55	54	55	56	50	64	53	59	51	59	54	54		664	55						15
16	50	63	61	57	65	68	62	66	73	72	70	74		781	65						16
17	69	65	63	70	75	74	70	73	79	74	79	66		857	71						17
18	68	68	74	71	71	73	72	72	70	75	74	74		862	72						18
19	67	61	68	61	62	60	61	59	70	65	61	65		760	63						19
20	64	59	63	56	58	55	63	65	64	60	63	55		725	60						20
21	54	52	51	51	57	60	59	54	54	56	66	62		676	56						21
22	56	52	46	52	56	53	62	58	58	62	71	73		699	58						22
23	65	62	58	58	63	57	57	62	64	57	59	57		719	60						23
24	53	53	62	52	54	55	51	50	50	59	62	64		665	55						24
25	60	55	56	50	52	52	64	65	53	58	61	52		678	56						25
26	53	52	51	50	47	51	43	47	59	66	51	53		623	52						26
27	56	51	42	45	46	43	52	48	53	47	52	45		580	48						27
28	50	45	44	50	44	43	45	43	57	53	53	48		575	48						28
29																					29
30																					30
31																		DAYS		MEAN	31
*Sum	1590	1561	1512	1509	1532	1573	1585	1588	1650	1644	1699	1633		19076	1586●	COMPLETE		28	=	56.6	
*Mean	56.8	55.8	54.0	53.9	54.7	56.2	56.6	56.7	58.9	58.7	60.7	58.3	→	681.3	→	COMPLETE		28	=	56.8	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM														●	ALL			=		

FREDERICKSBURG MAGNETIC OBSERVATORY

TABLE 83 — MARCH 1958

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	44	42	41	50	39	48	44	46	43	52	54	52		555	46						1
2	49	51	49	50	39	46	51	43	49	47	62	54		590	49						2
3	57	49	53	47	47	50	46	56	52	63	56	58		634	53						3
4	59	58	58	48	55	56	54	53	55	56	52	52		656	55						4
5	53	63	58	56	53	56	48	50	47	43	35	41		603	50						5
6	53	52	51	47	45	43	38	41	38	25	32	36		501	42						6
7	43	45	40	39	45	40	47	35	37	31	41	40		483	40						7
8	31	41	41	46	48	41	39	36	38	41	45	44		491	41						8
9	39	34	43	39	40	41	38	38	43	40	43	40		478	40						9
10	40	47	52	49	47	49	47	36	43	48	40	38		536	45						10
11	45	48	44	41	44	47	51	55	48	49	44	39		555	46						11
12	46	47	49	53	49	40	58	53	41	46	38	39		559	47						12
13	46	37	42	44	44	49	44	45	50	49	46	51		547	46						13
14	44	46	57	54	45	51	52	55	53	50	51	44		602	50						14
15	45	38	47	38	45	47	52	45	50	52	52	52		563	47						15
16	48	57	50	48	52	48	56	63	59	62	62	61		666	56						16
17	64	57	49	61	53	55	49	63	53	59	65	64		692	58						17
18	67	61	59	55	63	63	61	65	57	68	64	60		743	62						18
19	62	58	56	57	62	64	59	62	59	60	59	65		723	60						19
20	60	59	60	59	62	63	63	63	56	65	63	68		741	62						20
21	67	60	71	67	59	62	59	67	67	70	72	68		789	66						21
22	58	60	57	59	63	61	65	60	58	63	63	59		726	60						22
23	66	60	63	62	60	63	61	58	65	57	68	65		748	62						23
24	60	54	53	60	58	63	64	57	61	57	67	63		717	60						24
25	59	63	62	61	57	62	60	54	64	62	37	44		685	57						25
26	33	23	23	29	22	23	29	30	36	42	40	31		361	30						26
27	29	25	33	37	29	34	32	40	44	40	50	44		437	36						27
28	46	39	39	39	40	44	38	47	54	50	50	49		535	45						28
29	47	45	48	44	47	40	48	46	54	44	50	54		567	47						29
30	46	40	35	41	43	45	40	51	46	49	46	45		527	44						30
31	44	38	51	48	39	42	44	49	42	47	41	56		541	45			DAYS		MEAN	31
*Sum	1550	1497	1534	1528	1494	1536	1537	1562	1562	1587	1588	1576		18551	1547	COMPLETE		31	=	49.9	
*Mean	50.0	48.3	49.5	49.3	48.2	49.5	49.6	50.4	50.4	51.2	51.2	50.8	→	598.4	→	COMPLETE		31	=	49.9	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

FREDERICKSBURG MAGNETIC OBSERVATORY

TABLE 84 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	47	46	42	40	49	49	46	43	56	52	53	51		574	48					1
2	55	56	46	52	54	44	44	54	48	45	50	45		593	49					2
3	44	50	45	43	47	50	57	52	49	42	47	45		571	48					3
4	48	42	55	51	55	52	44	53	51	54	48	46		599	50					4
5	47	50	46	45	49	47	40	40	36	39	39	50		528	44					5
6	44	47	39	46	35	34	33	40	32	34	34	39		457	38					6
7	35	38	43	47	47	50	49	46	43	44	42	56		540	45					7
8	54	56	58	57	56	61	51	62	64	56	64	57		696	58					8
9	55	64	57	56	65	63	61	57	53	59	61	59		710	59					9
10	57	59	62	60	56	57	63	68	65	58	62	60		727	61					10
11	58	57	46	43	42	44	54	54	56	62	54	65		635	53					11
12	61	55	54	51	53	51	55	65	56	60	63	52		676	56					12
13	63	59	61	52	63	53	54	55	61	62	62	60		705	59					13
14	60	61	61	53	53	59	57	64	64	62	61	53		708	59					14
15	54	51	57	54	62	51	61	58	49	57	50	49		653	54					15
16	56	56	58	58	48	57	58	54	54	52	56	55		662	55					16
17	51	49	60	54	50	59	53	48	52	55	43	47		621	52					17
18	47	49	43	47	49	51	51	45	41	46	43	48		560	47					18
19	44	51	43	38	38	48	39	45	42	45	44	44		521	43					19
20	46	42	46	43	47	38	47	50	50	49	46	49		553	46					20
21	47	42	47	45	45	44	42	41	41	47	46	51		538	45					21
22	44	47	47	50	51	52	47	51	52	50	46	54		591	49					22
23	55	50	50	55	47	52	57	52	55	47	42	51		613	51					23
24	46	40	50	47	49	51	48	42	50	44	41	49		557	46					24
25	39	52	39	43	41	45	50	51	52	48	38	42		540	45					25
26	40	38	41	47	49	46	53	53	50	55	56	46		574	48					26
27	46	43	40	49	46	50	48	51	53	52	58	52		588	49					27
28	51	46	46	41	43	49	49	49	46	52	50	49		571	48					28
29	47	42	39	32	41	38	39	36	41	41	43	33		472	39					29
30	33	38	34	35	38	47	49	46	41	49	44	50		504	42					30
31																		DAYS		MEAN	31
Sum*	1474	1496	1455	1434	1468	1492	1499	1525	1503	1518	1486	1507		17837	1486•	COMPLETE		30	=	49.5	
Mean*	49.1	49.2	48.5	47.8	48.9	49.7	50.0	50.8	50.1	50.6	49.5	50.2	→	594.4	→	COMPLETE		30	=	49.5	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

FREDERICKSBURG MAGNETIC OBSERVATORY

MAY 1958

TABLE 85 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	45	48	45	51	41	49	39	43	49	42	56	39		547	46						1
2	39	42	37	37	45	46	44	47	42	43	46	53		521	43						2
3	42	40	43	48	46	45	50	59	46	43	42	38		536	45						3
4	38	39	39	42	47	45	40	51	42	48	45	36		512	43						4
5	48	47	37	51	55	51	46	45	50	61	54	51		596	50						5
6	52	50	49	55	54	46	54	50	51	59	63	53		636	53						6
7	51	53	49	50	51	51	49	51	54	55	60	57		631	53						7
8	54	59	53	55	60	55	60	54	53	56	56	55		670	56						8
9	52	57	49	51	39	39	44	40	44	45	44	51		555	46						9
10	45	41	44	39	52	44	38	40	52	55	57	48		555	46						10
11	52	43	52	39	48	43	45	48	45	44	48	53		560	47						11
12	40	43	44	38	43	52	52	47	49	49	49	55		561	47						12
13	43	48	45	44	44	45	50	49	50	58	53	50		579	48						13
14	46	47	43	44	47	44	44	49	53	51	42	45		555	46						14
15	47	41	46	48	49	44	38	45	42	47	49	45		541	45						15
16	45	47	56	56	49	54	55	49	44	41	47	44		587	49						16
17	36	42	40	56	50	43	48	55	45	58	48	46		567	47						17
18	52	42	44	53	48	46	46	51	44	55	46	45		572	48						18
19	52	42	41	51	49	52	49	53	53	52	47	46		587	49						19
20	49	46	50	51	56	49	50	47	52	55	53	46		604	50						20
21	60	56	50	45	47	50	54	57	59	55	53	56		642	54						21
22	53	50	45	47	61	53	47	48	52	65	51	50		622	52						22
23	50	55	51	49	50	48	41	56	56	52	48	45		601	50						23
24	48	48	47	47	44	45	54	48	56	63	54	52		606	50						24
25	54	43	43	47	58	45	55	57	51	57	54	57		621	52						25
26	55	61	43	51	55	54	57	54	57	51	57	59		654	54						26
27	58	57	51	52	49	49	46	52	51	56	55	49		625	52						27
28	51	49	45	49	46	52	61	52	47	49	56	60		617	51						28
29	60	51	53	61	52	54	54	52	46	43	45	44		615	51						29
30	44	37	49	42	37	38	35	42	37	38	30	38		467	39						30
31	37	42	42	39	39	36	37	32	39	31	40	34		448	37			DAYS		MEAN	31
Sum*	1498	1466	1425	1488	1511	1467	1482	1517	1511	1577	1548	1500		17990	1499•	COMPLETE		31	=	48.4	
Mean*	48.3	47.3	46.0	48.0	48.7	47.3	47.8	48.9	48.7	50.9	49.9	48.4	→	580.2	→	COMPLETE		31	=	48.4	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

TABLE 86 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean	B				Day
1	40	38	35	31	26	25	34	33	32	41	31	30	396	33					1
2	35	30	32	28	34	30	33	30	30	36	35	42	395	33					2
3	41	48	44	36	40	44	36	42	49	52	44	42	518	43					3
4	46	45	44	46	46	35	39	34	45	50	50	49	529	44					4
5	41	47	40	45	41	41	37	43	42	41	48	44	510	42					5
6	35	42	41	38	38	33	33	39	43	42	59	54	497	41					6
7	45	39	35	39	46	45	45	40	58	47	46	44	529	44					7
8	38	35	32	31	45	31	28	42	41	48	40	39	450	38					8
9	35	33	41	26	26	34	28	26	36	33	35	34	387	32					9
10	44	37	34	42	33	31	36	39	39	48	37	36	456	38					10
11	45	37	35	30	36	38	42	37	32	38	42	45	457	38					11
12	43	43	40	39	45	41	47	44	52	48	44	46	532	44					12
13	52	39	45	41	45	42	43	46	38	40	36	45	512	43					13
14	43	32	42	39	38	38	37	50	43	44	46	43	495	41					14
15	43	46	41	49	57	46	44	48	58	47	49	49	577	48					15
16	46	49	50	56	60	51	55	48	55	58	50	52	630	52					16
17	48	58	51	50	60	56	47	48	61	51	54	50	634	53					17
18	47	52	44	47	66	51	49	49	56				(461)	(51)	9				18
19																			19
20							35	40	42	42	46	41	(246)	(41)	6				20
21	43	51	43	43	37	44	43	44	43	51	40	50	532	44					21
22	42	53	41	47	46	48	42	44	46	50	53	52	564	47					22
23	47	48	47	50	41	44	54	44	48	49	48	51	571	48					23
24	47	39	41	39	44	47	47	44	48	43	57	50	546	46					24
25	45	45	47	45	43	40	43	44	48	43	49	48	540	45					25
26	46	48	41	40	47	46	37	50	49	42	47	49	542	45					26
27	49	41	55	46	48	47	55	48	45	50	54	50	588	49					27
28	52	43	50	45	41	42	52	53	55	52	43	41	569	47					28
29	51	54	40	38	50	37	39	38	40	44	46	43	520	43					29
30	40	41	43	36	40	43	46	37	45	41	32	44	488	41					30
31																	DAYS		MEAN 31
Sum*	1182	1161	1130	1095	1153	1099	1122	1135	1221	1229	1215	1222	13964	1162•	COMPLETE		27	=	43.0
Mean*	43.8	43.0	41.9	40.6	42.7	40.7	41.6	42.0	45.2	45.5	45.0	45.3	→ 517.3	→	COMPLETE		27	=	43.1
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM													1254•	ALL		29	=	43.2

TABLE 87

FREDERICKSBURG MAGNETIC OBSERVATORY

JULY 1958

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	32	36	25	32	33	32	37	27	34	40	28	33		389	32						1
2	22	31	32	31	34	33	28	38	38	35	29	26		377	31						2
3	26	31	28	34	31	34	35	24	30	43	31	30		377	31						3
4	30	28	30	32	29	37	29	29	34	35	31	32		376	31						4
5	38	36	33	27	33	33	35	32	36	35	39	37		414	34						5
6	41	36	42	28	24	23	38	30	35	39	40	41		417	35						6
7	33	30	37	28	36	33	26	37	40	34	37	41		412	34						7
8	31	34	25	35	32	30	25	19	22	21	15	10		299	25						8
9	12	18	24	21	9	17	15	19	23	19	19	23		219	18						9
10	25	25	8	15	20	23	23	26	35	26	25	32		283	24						10
11	26	29	32	31	42	40	41	35	29	36	33	40		414	34						11
12	36	36	30	41	27	35	39	37	42	38	32	39		432	36						12
13	43	25	27	33	33	40	33	40	44	42	39	42		441	37						13
14	37	28	32	34	31	31	33	22	44	35	32	34		393	33						14
15	30	31	33	26	31	38	32	32	27	32	35	34		381	32						15
16	38	34	35	30	34	34	36	36	40	30	40	36		423	35						16
17	36	36	38	38	45	36	38	38	48	49	46	45		493	41						17
18	38	38	34	39	37	41	34	35	45	37	42	42		462	38						18
19	37	38	38	34	33	35	37	35	35	42	31	45		440	37						19
20	43	37	35	44	33	40	41	42	38	42	41	39		475	40						20
21	43	33	37	38	35	28	34	35	52	37	36	32		440	37						21
22	37	29	25	27	28	28	25	39	33	34	27	31		363	30						22
23	28	31	41	33	39	38	38	38	39	37	37	43		442	37						23
24	36	44	44	39	49	33	39	43	32	42	44	41		486	40						24
25	34	46	38	38	44	41	37	33	44	36	35	38		464	39						25
26	43	43	43	39	34	42	35	36	38	40	41	36		471	39						26
27	40	44	35	38	35	38	39	37	37	35	37	28		443	37						27
28	37	29	25	33	37	33	31	32	34	35	36	34		396	33						28
29	36	29	31	28	35	30	38	36	39	40	42	47		431	36						29
30	41	33	33	34	40	36	40	41	35	37	38	42		450	37						30
31	36	22	36	31	41	33	30	31	25	35	36	26		383	32			DAYS		MEAN	31
Sum*	1065	1022	1006	1011	1044	1045	1041	1034	1127	1118	1074	1099		12686	1058●	COMPLETE		31	=	34.0	
Mean*	34.4	33.0	32.5	32.6	33.7	33.7	33.6	33.4	36.4	36.1	34.6	35.5	→	409.5	→	COMPLETE		31	=	34.1	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM														●	ALL			=		

FREDERICKSBURG MAGNETIC OBSERVATORY

TABLE 88 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION +100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	33	37	24	34	29	41	29	29	36	29	34	24		379	32						1
2	27	26	31	25	27	35	37	39	33	41	37	39		397	33						2
3	37	37	43	41	41	39	37	37	42	44	39	43		480	40						3
4	45	43	40	39	42	32	40	36	38	43				(398)	(40)	10					4
5		44	36	39	39	44	38	38	36	41	50	48		(453)	(41)	11					5
6	36	35	39	43	39	47	44	45	53	37	38	45		501	42						6
7	43	42	42	38	41	41	41	47	42	42	57	51		527	44						7
8	55	41	45	45	45	47	52	49	46	46	50	45		566	47						8
9	54	40	49	48	61	42	53	56	42	43	59	40		587	49						9
10	45	49	50	47	46	44	48	52	51	43	50	46		571	48						10
11	45	44	41	42	46	53	49	52	44	41	47	46		550	46						11
12	41	47	48	44	49	50	50	46	42	44	50	53		564	47						12
13	45	53	52	52	49	48	50	46	45	46	50	50		586	49						13
14	41	53	48	51	45	47	45	48	46	53	58	51		586	49						14
15	53	52	52	46	40	49	47	53	51	46	47	58		594	50						15
16	51	52	53	49	42	50	49	44	54	58	54	48		604	50						16
17	59	41	45	36	37	42	25	44	37	37	40	43		486	40						17
18	36	37	33	29	25	33	32	37	35	38	32	44		411	34						18
19			32	25	35	43	51	36	38	37	39	37		(373)	(37)	10					19
20	37	30	33	47	37	42	42	38	44	42	33	48		473	39						20
21	52	36			42	31	43	46	44	43	48	43		(428)	(43)	10					21
22	48	47	43	39	34	41	30	25	26	23	32	40		428	36						22
23	28	40	38	36	45	31	38	35	35	38	41	34		439	37						23
24	45	39	28	17	16	15	24	25	25	29	24	18		305	25						24
25	32	18	17	21	23	30	26	32	30	18	23	23		293	24						25
26	33	17	17	24	30	27	27	32	31	32	33	28		331	28						26
27																					27
28																					28
29																					29
30																					30
31																		DAYS		MEAN	31
Sum*	924	877	871	854	847	894	875	911	890	870	928	917		10658	889•	COMPLETE		22	=	40.4	
Mean*	42.0	39.9	39.6	38.8	38.5	40.6	39.8	41.4	40.5	39.5	42.2	41.7	→	484.5	→	COMPLETE		22	=	40.4	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1050•	ALL		26	=	40.4	

TABLE 89

FREDERICKSBURG MAGNETIC OBSERVATORY

SEPTEMBER 1958

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1																				1
2																				2
3																				3
4																				4
5																				5
6																				6
7	25	41	34	37	30	39	38	38	34	36	40	42		434	36					7
8	40	41	38	41	47	46	39	49	52	52	48	51		544	45					8
9	50	40	43	47	56	43	45	45	52	50	43	47		561	47					9
10	43	53	34	46	42	38	45	43	42	43	36	44		509	42					10
11	37	50	46	48	45	51	46	48	46	52	48	51		568	47					11
12	57	50	52	43	56	52	46	52	57	52	57	60		634	53					12
13	51	48	55	52	48	48	55	51	45	54	52	49		608	51					13
14	48	44	51	48	47	42	51	48	47	44	48	47		565	47					14
15	52	48	44	46	39	42	49	45	44	51	56	44		560	47					15
16	52	47	42	35	39	26	25	29	32	37	30	38		432	36					16
17	30	38	25	36	29	32	36	27	32	23	28	37		373	31					17
18	22	30	33	39	34	46	35	30	33	28	34	26		390	32					18
19	44	43	31	45	46	50	41	40	34	34	38	47		493	41					19
20	42	40	41	37	52	44	39	45	37	44	55	42		518	43					20
21	45	47	39	35	40	38	44	39	53	40	53	49		522	44					21
22	51	40	50	32	44	50	50	47	41	46	44	43		538	45					22
23	47	44	39	42	44	55	46	37	41	43	44	45		527	44					23
24	45	48	46	42	44	34	38	38	35	44	41	42		497	41					24
25	38	35	41	48	45	36	30	38	28	32	35	42		448	37					25
26	32	29	27	32	26	30	38	35	36	36	37	36		394	33					26
27	34	31	34	27	28	30	35	33	41	44	35	44		416	35					27
28	36	48	35	37	50	50	44	48	48	52	51	47		546	46					28
29	54	50	51	45	48	54	59	45	62	46	53	49		616	51					29
30	52	44	40	40	47	47	52	50	52	54	46	46		570	48					30
31																		DAYS		MEAN	31
Sum*	1027	1029	971	980	1026	1023	1026	1000	1024	1037	1052	1068		12263	1022•	COMPLETE		24	=	42.6	
Mean*	42.8	42.9	40.5	40.8	42.8	42.6	42.8	41.7	42.7	43.2	43.8	44.5	→	511.1	→	COMPLETE		24	=	42.6	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

FREDERICKSBURG MAGNETIC OBSERVATORY

OCTOBER 1958

TABLE 90 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	38	44	44	40	34	42	38	39	42	41	41	44		487	41						1
2	34	34	44	41	39	46	48	44	47	42	46	46		511	43						2
3	51	41	48	44	46	46	55	50	47	39	49	48		564	47						3
4	48	48	45	52	55	44	47	55	44	48	47	56		589	49						4
5	44	50	51	50	51	51	54	42	50	57	52	54		606	50						5
6	45	55	49	57	60	57	53	53	62	52	56	54		653	54						6
7	45	40	50	37	42	46	47	47	37	43	46	40		520	43						7
8	50	48	43	46	45	46	46	48	40	41	47	39		539	45						8
9	48	47	40	36	42	41	48	39	41	48	38	37		505	42						9
10	34	41	35	42	42	33	35	38	41	41	42	36		460	38						10
11	49	41	52	46	46	41	50	52	48	47	46	52		570	48						11
12	54	56	47	55	51	59	54	49	53	58	50	52		638	53						12
13	52	54	51	54	61	55	55	46	48	52	50	50		628	52						13
14	47	52	48	58	59	52	52	53	54	51	55	48		629	52						14
15	61	47	62	52	50	44	54	55	53	57	50	52		637	53						15
16	50	50	48	49	47	51	54	42	46	49	50	49		585	49						16
17	52	54	45	45	40	45	46	44	47	50	45	49		562	47						17
18	52	51	43	50	50	50	48	53	58	58	58	49		620	52						18
19	55	48	55	44	52	46	56	54	60	54	59	50		633	53						19
20	52	56	53	52	49	51	58	52	58	57	48	49		635	53						20
21	49	54	44	54	48	48	51	62	52	53	49	47		611	51						21
22	50	54	53	52	52	50	53	48	49	46	40	37		584	49						22
23	43	47	38	38	30	38	42	36	38	34	40	33		457	38						23
24	41	38	34	40	28	34	39	46	53	45	45	46		489	41						24
25	42	42	46	43	43	47	44	54	46	54	47	46		554	46						25
26	45	43	45	56	61	53	57	51	59	47	51	53		621	52						26
27	56	50	56	52	47	53	54	50	53	57	59	60		647	54						27
28	64	55	53	55	52	57	58	55	61	61	55	56		682	57						28
29	60	52	52	58	53	64	63	57	54	61	64	53		691	58						29
30	57	64	58	58	59	58	58	52	62	56	56	57		695	58						30
31	57	49	61	57	63	59	49	60	58	54	48	48		663	55			DAYS		MEAN	31
*Sum	1525	1505	1493	1513	1497	1507	1566	1526	1561	1553	1529	1490		18265	1523 •	COMPLETE		31	=	49.1	
*Mean	49.2	48.5	48.2	48.8	48.3	48.6	50.5	49.2	50.4	50.1	49.3	48.1	→	589.2	→	COMPLETE		31	=	49.1	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

TABLE 91

FREDERICKSBURG MAGNETIC OBSERVATORY

NOVEMBER 1958

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	57	53	56	53	56	54	53	55	65	60	63	56		681	57						1
2	54	56	48	53	55	55	63	64	62	61	65	64		700	58						2
3	56	58	55	58	58	66	60	60	58	57	59	57		702	58						3
4	54	50	55	48	55	48	55	54	53	57	55	58		642	54						4
5	55	45	39	48	44	47	52	52	55	55	54	56		602	50						5
6	43	45	53	46	48	49	47	47	47	54	53	53		585	49						6
7	51	58	58	59	60	63	55	63	65	62	58	63		715	60						7
8	66	59	60	52	61	54	58	53	57	59	58	51		688	57						8
9	58	61	58	56	61	61	68	66	58	59	67	64		737	61						9
10	60	62	63	63	56	65	60	62	57	69	72	59		748	62						10
11	67	58	59	50	50	52	49	54	55	51	52	53		650	54						11
12	50	42	46	37	46	52	44	48	56	42	55	46		564	47						12
13	41	42	43	46	45	48	51	47	52	54	55	43		567	47						13
14	46	48	48	48	43	45	49	50	49	52	40	45		563	47						14
15	42	44	55	43	44	49	50	63	50	51	47	49		587	49						15
16	41	48	60	52	47	45	50	51	53	54	54	47		602	50						16
17	51	49	51	56	55	51	58	50	49	51	54	46		621	52						17
18	47	54	54	52	47	46	48	49	50	51	49	45		592	49						18
19	49	52	51	50	51	49	51	54	58	63	61	58		647	54						19
20	63	63	57	56	60	60	56	51	63	56	60	59		704	59						20
21	59	59	56	63	55	64	63	65	63	74	70	64		755	63						21
22	68	68	60	71	65	66	64	60	70	65	70	69		796	66						22
23	73	75	66	74	65	69	66	63	61	66	61	66		805	67						23
24	54	58	62	64	56	55	63	61	61	63	53	61		711	59						24
25	57	61	62	60	63	61	60	59	63	66	64	65		741	62						25
26	60	62	68	58	51	55	56	58	54	53	61	54		690	58						26
27	62	63	66	64	63	66	66	60	65	73	66	67		781	65						27
28	68	65	56	56	62	64	63	58	57	56	51	51		707	59						28
29	50	47	50	55	66	59	66	69	61	61	60	59		703	59						29
30	67	70	70	68	71	76	74	76	78	72	80	74		876	73						30
31																		DAYS		MEAN	31
* Sum	1669	1675	1685	1659	1659	1694	1718	1722	1745	1767	1767	1702		20462	1705 •	COMPLETE		30	=	56.8	
* Mean	55.6	55.8	56.2	55.3	55.3	56.5	57.3	57.4	58.2	58.9	58.9	56.7	→	682.1	→ •	COMPLETE		30	=	56.8	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM															ALL			=		

TABLE 92

FREDERICKSBURG MAGNETIC OBSERVATORY

DECEMBER 1958

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	75	77	72	69	64	69	69	65	68	73	74	69		844	70						1
2	66	63	70	67	72	66	70	71	63	68	65	70		811	68						2
3	72	72	68	67	77	61	70	62	64	72	65	63		813	68						3
4	68	64	67	57	51	62	63	57	56	51	56	55		707	59						4
5	54	55	59	53	59	64	68	60	67	67	68	62		736	61						5
6	65	68	62	61	59	63	67	73	75	67	74	73		807	67						6
7	69	68	74	75	69	70	72	74	69	75	82	81		878	73						7
8	73	76	68	66	67	74	67	69	76	83	74	68		861	72						8
9	67	69	67	65	70	75	69	68	68	72	75	72		837	70						9
10	72	71	76	65	65	65	70	67	73	76	76	77		853	71						10
11	79	75	70	69	72	70	74	71	67	70	70	75		862	72						11
12	72	73	73	68	67	77	59	80	63	77	71	68		848	71						12
13	70	76	64	75	70	72	76	66	79	72	69	71		860	72						13
14	70	71	69	59	63	70	75	65	75	64	62	64		807	67						14
15	68	55	70	63	67	65	68	77	70	67	75	67		812	68						15
16	79	66	70	68	74	68	65	70	62	68	59	63		812	68						16
17	55	65	67	60	55	57	54	60	68	61	54	62		718	60						17
18	63	64	52	49	58	64	59	59	59	65	61	57		710	59						18
19	59	63	62	57	55	56	54	54	54	55	53	55		677	56						19
20	56	48	56	53	58	53	58	58	61	62	68	72		703	59						20
21	70	68	70	63	69	66	65	57	69	64	76	66		803	67						21
22	68	65	61	65	61	70	60	63	62	68	66	64		773	64						22
23	67	60	52	55	61	50	47	51	53	59	60	58		673	56						23
24	61	58	59	55	64	69	68	59	69	75	75	66		778	65						24
25	69	69	73	76	73	71	73	81	71	71	78	70		875	73						25
26	68	71	64	64	65	68	67	64	65	69	68	67		800	67						26
27	66	66	62	66	64	66	65	68	63	60	65	68		779	65						27
28	60	64	63	59	58	55	62	52	56	58	55	58		700	58						28
29	53	46	58	55	59	57	61	53	56	52	62	55		667	56						29
30	55	61	61	55	56	65	65	64	58	66	62	68		736	61						30
31	67	64	68	72	66	66	68	61	68	64	68	58		790	66			DAYS		MEAN	31
Sum*	2056	2031	2027	1951	1988	2024	2028	1999	2027	2071	2086	2042		24330	2028•	COMPLETE		31	=	65.5	
Mean*	66.3	65.5	65.4	62.9	64.1	65.3	65.4	64.5	65.4	66.8	67.3	65.9	→	784.8	→	COMPLETE		31	=	65.4	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

TABLE 93

FREDERICKSBURG MAGNETIC OBSERVATORY

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

JANUARY 1959

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	64	58	62	64	56	65	65	70	64	62	58	66		754	63						1
2	57	59	61	58	53	55	53	65	62	60	64	62		709	59						2
3	59	54	63	61	58	63	66	56	54	68	66	68		736	61						3
4	60	60	63	64	60	57	61	60	58	70	71	74		758	63						4
5	72	72	69	70	63	76	78	73	78	78	77	74		880	73						5
6	76	75	65	66	67	70	69	65	65	65	66	62		811	68						6
7	64	63	64	64	62	69	61	61	54	65	58	66		751	63						7
8	57	57	57	56	50	58	60	61	70	66	66	62		720	60						8
9	71	68	69	68	66	70	68	73	79	74	66	64		836	70						9
10	63	61	65	71	75	73	68	71	75	69	68	72		831	69						10
11	72	74	70	73	75	68	72	64	74	75	62	76		855	71						11
12	65	71	69	63	78	62	66	68	72	76	65	65		820	68						12
13	67	65	65	70	63	65	66	72	67	59	68	66		793	66						13
14	68	61	60	71	65	62	71	67	63	67	64	63		782	65						14
15	64	53	60	70	59	64	67	60	65	63	60	66		751	63						15
16	63	60	69	70	62	58	61	63	72	70	68	78		794	66						16
17	81	78	77	80	76	79	76	75	76	78	88	78		942	78						17
18	80	82	76	80	73	79	74	80	85	78	82	79		948	79						18
19	75	78	73	71	79	69	72	76	73	69	76	74		885	74						19
20	69	69	72	65	59	57	73	63	62	65	60	61		775	65						20
21	58	62	51	68	55	57	58	51	62	61	59	67		709	59						21
22	56	56	50	54	52	58	61	70	67	71	65	75		735	61						22
23	77	78	80	77	70	79	74	77	78	80	71	80		921	77						23
24	76	78	80	75	84	72	75	74	73	68	76	62		893	74						24
25	70	70	63	64	65	60	62	60	62	67	64	60		767	64						25
26	61	58	64	54	54	56	54	62	57	68	72	69		729	61						26
27	65	54	58	50	45	57	57	50	52	57	58	60		663	55						27
28	53	54	53	54	53	49	42	52	55	55	60	57		637	53						28
29	58	44	57	48	53	51	49	50	52	57	64	56		639	53						29
30	49	42	47	49	54	50	47	57	52	55	61	60		623	52						30
31	49	58	58	54	59	53	64	61	61	71	70	65		723	60			DAYS		MEAN	31
*Sum	2019	1972	1990	2002	1943	1961	1990	2007	2039	2087	2073	2087		24170	2013•	COMPLETE		31	=	64.9	
*Mean	65.1	63.6	64.2	64.6	62.7	63.3	64.2	64.7	65.8	67.3	66.9	67.3	→	779.7	→	COMPLETE		31	=	65.0	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

TABLE 94

FREDERICKSBURG MAGNETIC OBSERVATORY

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

FEBRUARY 1959

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	70	64	62	74	68	73	75	70	73	66	66	66		827	69						1
2	79	69	66	66	75	78	72	81	82	78	72	71		889	74						2
3	70	74	69	72	70	69	68	67	70	71	64	66		830	69						3
4	57	56	56	49	46	59	60	57	56	51	58	56		661	55						4
5	48	52	55	55	53	61	62	56	63	58	63	58		684	57						5
6	56	57	59	59	64	56	60	66	74	69	68	62		750	62						6
7	68	60	71	60	65	62	61	67	69	57	63	61		764	64						7
8	60	66	69	58	59	72	63	64	64	62	69	61		767	64						8
9	66	71	75	66	64	58	73	65	74	66	64	67		809	67						9
10	66	56	62	57	55	48	50	60	61	54	57	52		678	56						10
11	51	51	52	55	52	53	52	52	46	56	54	53		627	52						11
12	56	61	54	49	55	54	54	50	50	54	51	52		640	53						12
13	47	43	48	51	46	45	43	45	42	37	42	41		530	44						13
14	41	53	44	51	44	47	39	39	34	36	29	34		491	41						14
15	36	25	40	33	30	32	37	30	42	45	37	42		429	36						15
16	41	44	48	50	50	49	41	39	41	43	37	44		527	44						16
17	31	36	31	33	43	46	40	42	34	40	44	43		463	39						17
18	48	38	40	46	40	40	46	47	47	53	48	56		549	46						18
19	54	56	50	56	53	64	62	61	61	58	63	52		690	58						19
20	61	59	65	63	63	66	69	68	70	64	69	56		773	64						20
21	65	54	68	62	63	63	57	63	65	65	63	61		749	62						21
22	68	60	60	59	54	57	66	52	58	58	58	59		709	59						22
23	59	58	49	55	48	52	55	50	54	49	56	58		643	54						23
24	59	58	58	60	60	57	59	64	60	66	65	65		731	61						24
25	62	68	58	61	62	61	59	67	65	72	67	66		768	64						25
26	65	60	62	60	61	60	62	63	62	64	61	60		740	62						26
27	60	60	62	62	56	67	57	65	65	68	69	68		759	63						27
28	66	66	65	69	68	58	65	68	64	69	68	63		789	66						28
29																					29
30																					30
31																		DAYS		MEAN	31
Sum*	1610	1575	1598	1591	1567	1607	1607	1618	1646	1629	1625	1593		19266	1605•	COMPLETE		28	=	57.3	
Mean*	57.5	56.2	57.1	56.8	56.0	57.4	57.4	57.8	58.8	58.2	58.0	56.9	→	688.1	→	COMPLETE		28	=	57.3	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

FREDERICKSBURG MAGNETIC OBSERVATORY

MARCH 1959

TABLE 95

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	61	63	63	62	56	66	61	63	60	69	58	60		742	62						1
2	56	67	61	71	60	61	65	57	64	65	64	69		760	63						2
3	66	60	60	58	60	58	56	67	64	62	66	68		745	62						3
4	59	61	67	67	73	67	78	67	64	70	71	68		812	68						4
5	64	63	67	66	58	67	58	63	60	60	63	59		748	62						5
6	64	52	54	46	46	42	47	47	60	55	61	58		632	53						6
7	65	69	71	63	57	67	62	65	62	73	70	66		790	66						7
8	72	61	73	70	68	74	68	69	72	73	65	73		838	70						8
9	67	74	61	70	66	66	66	73	69	70	72	65		819	68						9
10	67	67	68	71	67	76	77	70	76	78	77	71		865	72						10
11	70	72	71	68	64	71	63	68	59	73	73	69		821	68						11
12	58	62	61	67	64	53	62	66	73	72	77	75		790	66						12
13	74	74	68	73	69	66	64	65	71	64	65	74		827	69						13
14	70	64	62	64	62	57	58	53	53	60	56	56		715	60						14
15	60	54	50	59	56	54	55	59	54	60	60	59		680	57						15
16	59	65	64	65	63	73	64	64	62	66	66	62		773	64						16
17	62	67	64	63	67	68	66	65	71	61	69	75		798	66						17
18	66	66	67	72	69	73	77	70	83	69	79	67		858	72						18
19	73	72	70	68	63	65	58	61	64	64	61	68		787	66						19
20	60	60	56	65	62	56	62	63	57	58	61	64		724	60						20
21	55	63	54	63	60	65	61	60	62	63	56	61		723	60						21
22	69	71	63	68	68	65	74	66	77	70	74	59		824	69						22
23	66	63	63	60	62	69	57	61	62	70	61	63		757	63						23
24	63	60	70	67	63	60	60	66	64	65	67	61		766	64						24
25	60	60	62	60	52	57	62	69	71	54	63	51		721	60						25
26	52	50	49	46	48	42	48	47	37	53	54	41		567	47						26
27	37	37	38	46	41	42	38	36	38	37	45	43		478	40						27
28	37	52	50	50	51	54	50	58	65	61	58	57		643	54						28
29	56	56	55	53	50	58	53	58	58	59	62	58		676	56						29
30	64	58	57	57	57	52	57	62	66	64	61	60		715	60						30
31	61	50	59	56	58	64	56	60	55	65	65	58		707	59			DAYS		MEAN	31
*Sum	1913	1913	1898	1934	1860	1908	1883	1918	1953	1983	2000	1938		23101	1926•	COMPLETE		31	=	62.1	
*Mean	61.7	61.7	61.2	62.4	60.0	61.5	60.7	61.9	63.0	64.0	64.5	62.5	→	745.1	→	COMPLETE		31	=	62.1	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

FREDERICKSBURG MAGNETIC OBSERVATORY

APRIL 1959

TABLE 96

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	55	59	50	56	50	55	63	58	54	52	52	57		661	55						1
2	50	62	54	47	63	64	55	54	55			65		(569)	(57)	10					2
3	73	74	64	66	59	59	60	57	57	58	57	57		741	62						3
4	61	65	65	70	65	77	77	72	70	73	73	67		835	70						4
5	79	74	65	75	70	67	69	70	63	59	68	61		820	68						5
6	67	68	65	60	60	60	66	59	75	69	62	63		774	64						6
7	70	64	63	66	67	68	65	68	68	55	66	69		789	66						7
8	64	69	66	66	59	61	67	65	61	69	61	59		767	64						8
9	53	53	61	56	67	59	59	59	63	68	56	53		707	59						9
10	58	50	52	60	52	49	45	58	52	48	53	46		623	52						10
11	57	55	46	53	56	52	49	54	53	58	61	59		653	54						11
12	58	58	52	57	60	54	56	58	60	62	60	59		694	58						12
13	53	59	53	56	62	58	59	55	58	63	68	66		710	59						13
14	66	66	75	68	72	65	70	61	67	63	67	61		801	67						14
15	64	55	65	57	57	52	54	60	62	60	56	66		708	59						15
16	60	56	55	55	53	60	58	61	61	63	59	55		696	58						16
17	52	56	53	59	60	72	58	56	52	59	56	57		690	58						17
18	58	55	49	60	49	49	53	60	58	56	56	55		658	55						18
19	52	56	62	56	61	60	62	64	61	58	56	62		710	59						19
20	56	60	54	52	52	60	57	58	64	61	59	56		689	57						20
21	57	58	58	61	65	63	70	68	60	70	66	64		760	63						21
22	64	63	65	62	64	61	60	68	69	68	67	66		777	65						22
23	73	66	75	72	72	63	67	71	65	73	71	62		830	69						23
24	61	53	53	58	53	58	61	60	51	51	53	61		673	56						24
25	55	55	56	56	60	65	55	59	65	58	59	57		700	58						25
26	50	55	58	54	50	56	56	60	56	63	59	57		674	56						26
27	59	54	58	55	50	57	56	60	55	49	53	56		662	55						27
28	60	57	61	55	59	51	59	59	57	57	52	62		689	57						28
29	62	55	55	56	57	62	64	63	65	65	63	67		734	61						29
30	63	63	59	63	60	61	57	59	59	61	69	60		734	61						30
31																		DAYS		MEAN	31
Sum*	1760	1731	1713	1740	1721	1734	1752	1780	1761	1769	1758	1740		20959	1745•	COMPLETE		29	=	60.2	
Mean*	60.7	59.7	59.1	60.0	59.3	59.8	60.4	61.4	60.7	61.0	60.6	60.0	→	722.7	→	COMPLETE		29	=	60.2	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1802•	ALL		30	=	60.1	

FREDERICKSBURG MAGNETIC OBSERVATORY

TABLE 97 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

MAY 1959

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	61	53	61	66	62	59	65	56	60	60	63	64		730	61						1
2	68	56	55	56	55	55	55	50	56	55	61	63		685	57						2
3	54	50	49	49	47	48	50	50	58	56	51	60		622	52						3
4	60	61	47	47	41	61	50	53	52	63	62	57		654	54						4
5	50	61	52	56	49	56	62	51	60	59	54	59		669	56						5
6	59	55	58	55	51	53	53	58	46	46	52	56		642	54						6
7	54	45	51	49	49	49	47	49	51	53	52	58		607	51						7
8	49	59	50	59	57	48	59	63	58	60	68	62		692	58						8
9	58	56	60	64	56	62	62	67	61	64	65	61		736	61						9
10	60	52	58	57	53	51	54	57	58	61	52	55		668	56						10
11	54	59	61	52							54	58		(338)	(56)	6					11
12	36	13	2	5	4	3	15	25	19	11	17	24		174	14						12
13	19	28	24	15	18	24	17	25	21	25	24	29		269	22						13
14	20	14	6	10	19	32	27	18	22	16	11	17		212	18						14
15	25	28	34	41	32	35	41	35	35	33	35	34		408	34						15
16	31	34	42	37	40	48	41	46	39	39	42	40		479	40						16
17	36	38	46	44	41	47	42	56	42	47	48	38		525	44						17
18	38	38	41	43	43									(203)	(41)	5					18
19																					19
20							39	39	44	38	39	35		(234)	(39)	6					20
21	40	41	40	30	29	43	37	32	43	32	37	38		442	37						21
22	37	37	35	33	37	41	42	36	39	47	41	42		467	39						22
23	36	40	30	43	44	33	31	43	35	34	38	42		449	37						23
24	42	42	34	36	40	45	40	35	52	44	35	33		478	40						24
25	36	31	36	44	37	47	39	46	32	40	48	42		478	40						25
26	51	44	42	50	38	41	48	40	46	49	40	46		535	45						26
27	45	40	41	38	46	46	38	48	43	43	40	40		508	42						27
28	37	37	42	43	40	40	42	47	52	47	44	40		511	43						28
29	44	45	47	48	58	44	55	40	46	42	50	47		566	47						29
30	42	48	51	46	51	43	47	51	43	47	48	48		565	47						30
31	43	49	45	48	49	33	43	49	51	48	54	57		569	47			DAYS		MEAN	31
*Sum	1193	1157	1138	1169	1143	1187	1202	1226	1220	1221	1232	1252		14340	1196•	COMPLETE		27	=	44.3	
*Mean	44.2	42.9	42.1	43.3	42.3	44.0	44.5	45.4	45.2	45.2	45.6	46.4	→	531.1	→	COMPLETE		27	=	44.3	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1332•	ALL		30	=	44.4	

FREDERICKSBURG MAGNETIC OBSERVATORY

TABLE 98 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	49	45	49	50	55	51	54	43	45	47	50	46		584	49						1
2	46	43	41	44	51	52	51	46	52	42	52	56		576	48						2
3	49	45	51	53	46	48	47	45	47	51	56	50		588	49						3
4	54	53	56	43	46	47	41	55	53	54	55	49		606	50						4
5	56	59	53	48	58	54	47	51	53	47	54	56		636	53						5
6	56	49	51	52	54	50	50	46	58	50	51	50		617	51						6
7	49	41	44	47	50	45	55	53	55	46	58	49		592	49						7
8	52	54	44	45	46	51	43	45	47	52	49	50		578	48						8
9	44	42	38	44	39	40	44	43	43	52	41	41		511	43						9
10	37	50	51	38	39	49	49	53	38	40	54	53		551	46						10
11	47	44	48	47	45	42	35	30	44	33	39	36		490	41						11
12	34	29	39	40	49	39	47	51	40	43	46	49		506	42						12
13	45	54	44	48	44	46	41	52	42	42	49	45		552	46						13
14	48	55	51	48	56	47	53	51	56	46	46	44		601	50						14
15	40	40	45	44	37									(206)	(41)	5					15
16																					16
17							44	52	47	44	49	42		(278)	(46)	6					17
18	46	49	40	45	43	45	38	50	46	45	45	51		543	45						18
19	51	54	47	44	39	48	38	44	45	46	46	35		537	45						19
20	38	41	40	43	37	43	43	45	43	48	35	50		506	42						20
21	51	38	43	33	44	39	40	41	48	35	44	38		494	41						21
22	42	39	40	42	29	39	42	35	45	39	41	43		476	40						22
23	41	34	37	38	38	34	41	43	34	44	40	38		462	38						23
24	41	43	42	35	37	42	37	43	45	42	43	51		501	42						24
25	44	44	42	39	39	36	45	41	39	43	45	43		500	42						25
26	39	39	42	38	44	53	40	38	40	40	41	39		493	41						26
27	42	33	43	43	37	41	39	39	43	36	39	36		471	39						27
28	41	38	34	40	40	39	37	35	30	32	36	44		446	37						28
29	33	29	30	36	38	27	30	44	36	44	47	42		436	36						29
30	41	35	31	32	35	36	38	35	37	40	38	41		439	37						30
31																		DAYS		MEAN	31
*Sum	1216	1179	1171	1155	1178	1183	1165	1197	1204	1179	1240	1225		14292	1198•	COMPLETE		27	=	44.1	
*Mean	45.0	43.7	43.4	42.8	43.6	43.8	43.1	44.3	44.6	43.7	45.9	45.4	→	529.3	→	COMPLETE		27	=	44.1	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1277•	ALL		29	=	44.0	

TABLE 99

FREDERICKSBURG MAGNETIC OBSERVATORY

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

JULY 1959

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	33	35	34	35	38	37	43	33	37	36	41	38		440	37						1
2	36	39	36	43	34	30	36	37	45	43	37	46		462	38						2
3	43	40	41	48	44	46	48	43	47	50	44	41		535	45						3
4	40	34	41	38	43	37	37	34	47	44	46	48		489	41						4
5	44	34	42	42	33	38	43	38	36	47	41	40		478	40						5
6	45	37	37	42	35	35	45	37	35	43	43	42		476	40						6
7	34	41	37	37	39	40	46	35	40	39	50	43		481	40						7
8	40	34	42	51	36	39	40	37	41	33	47	39		479	40						8
9	39	42	45	43	35	39	32	40	43	40	44	48		490	41						9
10	38	43	39	47	38	32	48	40	41	49	41	43		499	42						10
11	48	48	48	46	44	41		32	51	30	29	21		(438)	(40)	11					11
12	30	24	20	23	28	27	18	19	24	27	30	21		291	24						12
13	20	25	26	16	23	20	20	16	22	25	26	20		259	22						13
14	23	23	27	29	16	23	15	24			24	23		(227)	(23)	10					14
15	23	26								-18	-21	-26		(-16)	(-3)	5					15
16	-25	-8	-18	-15	-5	-13								(-84)	(-14)	6					16
17							9	2	11	20	2	-12		(32)	(5)	6					17
18	-19	-46	-29	-23	-21	-21	-19	-16	-17	-13	-20	-17		-261	-22						18
19	-15	-8	-12	-10	-5	-10	8	7	3	1	7	1		-33	-3						19
20	-1	-4	4	-1	9	10	4	12	11	8	-5	5		52	4						20
21	6	17	10	8	9	15	12	10	11	13	13	13		137	11						21
22	11	16	10	17	14	11	13	20	10	12	19	23		176	15						22
23	15	21	24	19	15	23	21	19	20	26	25	32		260	22						23
24	25	29	31	25	25	14	26	23	27	21	32	29		307	26						24
25	29	28	26	27	23	26	23	38	20	30	30	25		325	27						25
26	31	20	26	31	30	35	32	26	31	32	25	27		346	29						26
27	30	30	25	37	31	32	31	31	32	35	33	34		381	32						27
28	33	31	31	22	35	34	27	34	34	31	33	34		379	32						28
29	33	28	29	29	35	35	33	41	29	34	32	33		391	33						29
30	32	36	34	29	35	37	32	41	41	32	38	41		428	36						30
31	36	38	41	37	38	39	29	35	37	33	40	43		446	37			DAYS		MEAN	31
*Sum	688	664	690	712	699	700	728	730	747	771	792	792		8713	728	COMPLETE		26	=	28.0	
*Mean	26.5	25.5	26.5	27.4	26.9	26.9	28.0	28.1	28.7	29.7	30.5	30.5	→	335.2	→	COMPLETE		26	=	27.9	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														788•	ALL		31	=	25.2	

FREDERICKSBURG MAGNETIC OBSERVATORY

AUGUST 1959

TABLE 100

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	29	28	30	32	24	31	34	36	40	37	35	41		397	33					1
2	31	32	38	30	37	33	34	33	32	41	43	33		417	35					2
3	36	34	39	38	37	28	17	34	36	33	28	30		390	32					3
4	22	21	34	27	18	24	30	27	33	31	42	27		336	28					4
5	27	25	22	27	21	27	26	32	30	31	31	29		328	27					5
6	25	40	34	29	35	27	28	34	27	32	32	26		369	31					6
7	23	22	22	30	35									(132)	(26)	5				7
8							24	41	28	30	20	31		(174)	(29)	6				8
9	24	25	29	26	28	39	26	32	28	39	30	43		369	31					9
10	32	29	26	41	29	34	27	28	34	31	34	35		380	32					10
11	31	37	31	32	31	38	31	34	31	30	37	30		393	33					11
12	32	38	38	38	38	33	35	37	31	42	42	37		441	37					12
13	37	41	43	41	31	33	33	28	36	39	34	42		438	36					13
14	32	32	32	33	36	35	36	37	40	33	39	36		421	35					14
15	29	35	33	31	30	40	34	38	39	38	35	33		415	35					15
16	35	34	33	22	35	29	31	33	26	23	32	36		369	31					16
17	33	30	35	41	33	32	36	33	32	31	47	36		419	35					17
18	34	42	38	31	30	26	42	41	37	34	31	47		433	36					18
19	36	33	38	30	28	27	32	40	39	26	33	41		403	34					19
20	39	33	17	13	11	14	13	13	14	14	18	25		224	19					20
21	17	21	21	13	13	23	18	30	33	15	24	28		256	21					21
22	27	32	28	29	37	34	20	21	30	23	29	30		340	28					22
23	29	31	27	30	35	35	32	26	28	33	37	30		373	31					23
24	27	31	36	28	40	32	32	33	31	40				(330)	(33)	10				24
25																				25
26								34	27	30	28	40		(159)	(32)	5				26
27	25	37	39	43	32	40	40	39	27	28	32	32		414	34					27
28	39	39	45	45	37	43	37	41	37	34	30	36		463	39					28
29	30	35	35	38	42	40	36	39	29	30	44	37		435	36					29
30	31	33	20	27	37	31	29			28	40			(276)	(31)	9				30
31		36	30	39		32	32							(169)	(34)	5		DAYS		MEAN 31
Sum*	731	784	785	760	728	765	728	786	769	748	819	820		9223	769•	COMPLETE		24	=	32.0
Mean*	30.5	32.7	32.7	31.7	30.3	31.9	30.3	32.8	32.0	31.2	34.1	34.2	→	384.4	→	COMPLETE		24	=	32.0
															954•	ALL		30	=	31.8

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

FREDERICKSBURG MAGNETIC OBSERVATORY

SEPTEMBER 1959

TABLE 101

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1									38	37	30	41		(146)	(36)	4				1
2	30	23	26	34	37	32	32	30	24	29	31	34		362	30					2
3	31	29	29	29			28	38	32	29	29	21		(295)	(30)	10				3
4	25	30	29	16	8									(108)	(22)	5				4
5																				5
6																				6
7																				7
8																				8
9																				9
10																				10
11																				11
12																				12
13																				13
14																				14
15																				15
16																				16
17																				17
18																				18
19																				19
20																				20
21																				21
22																				22
23																				23
24																				24
25																				25
26																				26
27																				27
28																				28
29																				29
30																				30
31																		DAYS	MEAN	31
Sum*	30	23	26	34	37	32	32	30	24	29	31	34		362	30•	COMPLETE		1	= 30.0	
Mean*	30.0	23.0	26.0	34.0	37.0	32.0	32.0	30.0	24.0	29.0	31.0	34.0	→	362.0	→	COMPLETE		1	= 30.2	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														118•	ALL		4	= 29.5	

FREDERICKSBURG MAGNETIC OBSERVATORY

TABLE 102 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1																					1
2																					2
3																					3
4																					4
5																					5
6																					6
7																					7
8																					8
9																					9
10																					10
11																					11
12																					12
13																					13
14																					14
15																					15
16																					16
17																					17
18																					18
19																					19
20																					20
21																					21
22																					22
23																					23
24																					24
25																					25
26																					26
27																					27
28												48		(48)	48	1					28
29	55	47	32	38	31	26	38	34	49	42	43	55		490	41						29
30	47	41	38	31	30	45	28	39	43	40	42	46		470	39						30
31	40	40	33	34	35	45	39	31	27	37	42	41		444	37			DAYS		MEAN	31
Sum*	142	128	103	103	96	116	105	104	119	119	127	142		1404	117•	COMPLETE		3	=	390	
Mean*	47.3	42.7	34.3	34.3	32.0	38.7	35.0	34.7	39.7	39.7	42.3	47.3	→	468.0	→	COMPLETE		3	=	39.0	
															165•	ALL		4	=	41.2	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

FREDERICKSBURG MAGNETIC OBSERVATORY NOVEMBER 1959

TABLE 103 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	35	33	38	39	45	44	46	53	39	40	50	56		518	43					1
2	45	35	42	42	42			48	45	43	54	51		(447)	(45)	10				2
3	45	55	39	48	46	53	46	49	45	47	36	40		549	46					3
4	40	34	35	32	34	43	32	28	30	32	21	32		393	33					4
5	30	23	27	34	27	31	38	33	31	32	35	24		365	30					5
6	28	35	34	30	33	32	31	30	37	40	37	48		415	35					6
7	34	45	38	49	41	34	46	46	44	53	44	44		518	43					7
8	49	55	40	39	43	55	49	42	43	46	51	52		564	47					8
9	43	40	45	44	48	50	40	46	64	55	45	53		573	48					9
10	42	51	52	50	55	48	51	47	56	53	52	49		606	50					10
11	45	49	43	41	37	39	40	46	53	47	59	51		550	46					11
12	44	55	54	49	49	42	49	41	49	55	57	47		591	49					12
13	38	38	35	39	40	40	43	44	41	43	51	36		488	41					13
14	48	48	36	33	36	44	45	44	37	42	35	42		490	41					14
15	38	35	46	35	40	35	43	38	38	49	39	42		478	40					15
16	40	46	41	39	31	29	40	39	28	47	44	41		465	39					16
17	34	41	40	45	40	39	35	44	43	49	48	53		511	43					17
18	45	55	54	50	48	43	49	50	56	39	58	55		602	50					18
19	44	51	51	55	45	43	47	49	59	64	49	42		599	50					19
20	57	55	53	49	57	46	52	47	55	52	56	58		637	53					20
21	58	55	53	47	50	41	34	51	53	51	57	54		604	50					21
22	49	48	51	44	40	36	42	43	43	44	42	45		527	44					22
23	43	46	46	40	39	42								(256)	(43)	6				23
24																				24
25								42	65		60	68		(235)	(59)	4				25
26	65	54	50	55	52	46	58	56	55	59	61	51		662	55					26
27	51	47	56	45	43	45	33	43	44	50	46	55		558	46					27
28	48	38	39	32	39	43	42	40	36	46	49	46		498	42					28
29	46	55	44	53	54	61	50	68	65	65	75	67		703	59					29
30	59	59	54	64	60	56	44	47	62	54	54	57		670	56					30
31																		DAYS		MEAN 31
*Sum	1155	1200	1148	1140	1133	1118	1125	1164	1206	1254	1251	1240		14134	1179•	COMPLETE		26	=	45.3
*Mean	44.4	46.2	44.2	43.8	43.6	43.0	43.3	44.8	46.4	48.2	48.1	47.7	→	543.7	→	COMPLETE		26	=	45.3
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1326•	ALL		29	=	45.7

FREDERICKSBURG MAGNETIC OBSERVATORY

TABLE 104 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 100
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	53	66	54	54	49	60	55	56	52	55	59	67		680	57						1
2	54	49	53	57	55	51	55	58	60	54	69	64		679	57						2
3	56	47	51	49	56	37	39	32	39	39	35	29		509	42						3
4	31	38	37	39	48	40	52	38	35	37	39	30		464	39						4
5	39	45	37	45	38	44	39	40	61	35	48	44		515	43						5
6	42	46	43	46	46	50	55	55	53	60	59	57		612	51						6
7	46	65	58	57	65	71	69	68	66	67	65	65		762	64						7
8	60	52	52	47	41	61	46	54	51	52	52	49		617	51						8
9	58	52	51	45	50	48	45	50	61	54	60	56		630	52						9
10	56	58	57	47	57	52	52	43	57	51	59	57		646	54						10
11	50	58	59	60	54	51	51	44	50	55	48	51		631	53						11
12	45	58	50	52	50	45	51	53	54	50	54	51		613	51						12
13	57	57	49	55	53	53	56	58	59	57	60	68		682	57						13
14	58	49	56	65	58	51	54	55	56	57	56	47		662	55						14
15	54	60	60	58	51	55	65	55	64	61	66	58		707	59						15
16	58	52	57	48	57	48	54	50	54	48	56	55		637	53						16
17	52	57	52	57	55	50	50	49	54	47	67	46		636	53						17
18	61	58	60	53	48	57	55	53	44	56	58	59		662	55						18
19	55	57	60	55	59	61	61	61	74	69	67	61		740	62						19
20	59	62	65	67	62	61	64	66	67	74	72	61		780	65						20
21	68	66	66	61	64	61	70	76	68	70	72	75		817	68						21
22	71	73	75	64	75	66	52	66	60	71	72	61		806	67						22
23	58	63	66	59	60	60	66	63	59	56	55	68		733	61						23
24	69	65	56	47	54	51	53	53	52	63	59	52		674	56						24
25	52	52	56	47	44	51	46	41	44	51	58	53		595	50						25
26	60	53	53	49	43	53	51	40	56	61	49	49		617	51						26
27	47	49	57	42	54	54	42	34	48	42	48	42		559	47						27
28	46	46	41	46	52	47	48	45	42	47	51	39		550	46						28
29	41	53	53	49	46	50	51	55	64	60	54	62		638	53						29
30	55	54	53	49	48	53	58	60	60	64	54	57		665	55						30
31	60	59	52	60	61	59	72	69	58	62	55	64		731	61			DAYS		MEAN	31
Sum*	1671	1719	1689	1629	1653	1651	1677	1640	1722	1725	1776	1697		20249	1688	COMPLETE		31	=	54.5	
Mean*	53.9	55.5	54.5	52.5	53.3	53.3	54.1	52.9	55.5	55.6	57.3	54.7	→	653.1	→	COMPLETE		31	=	54.4	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

TABLE 105

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on Greenwich Mean Time, Fredericksburg Magnetic Observatory, 1956 *

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Day
1	79	81	78	67	56	47	48	47	37	47	62	71	1
2	73	73	78		57	53	50	46	31	46	61	64	2
3	75	73	71	59 g	56	50	51	52	33	42	61	52 g	3
4	81	73	68	56	57	54	54	49	39	46 e	59	48 g	4
5	81	72	66	65	58	51 f	53	46	40		61	47	5
6	78	72	66	63	52		55	47	49		64	48	6
7	81	74	62	67	52		54	53	55		63	46	7
8	85	73	67	78	58	45 f	50	49	53		68	48	8
9	80	74 d	74	71	61	44 b	48	51	46	52 k	77	45	9
10	81	77 h	66	65	53	48	50	51	45	55 a	62	60	10
11	78	71 f	64	67	52	44	49	47	48	60	56	57	11
12	81	77	59	64	45	42	46	42	43	60	53	55	12
13	80	76	54	66	38	40	46	40	42	60	63	59	13
14	84	74	50 h	68	40	39	41	43	46	60	53	61	14
15	81	67 h	56	59	47	41	43	49	49	57	42	55	15
16	85	70 h	60	54	46	42	42	50	47	59	42	56	16
17	83	54 f	68	68	46	44	46	46	52	58 a	48	60	17
18	70	53	69	68	49	46	51	48	60	60	56	61	18
19	66	50	73	67	47	50	49	50	61	65	58	60	19
20	68	55	74	67	50	50 h	50	52	58	65	60	54	20
21	71	72	69	63	51 h	46 h	49	52	53	60	53	47	21
22	69	82	61	56 h	46 f	44 f	52	50	45	62	61	45	22
23	69	106	61		45	44	50	45	43	62	67	46	23
24	75	73	65		51	49	51	40	50	61	74	51	24
25	77	60	75	62 g	53	50	48	38	50	65	70	59	25
26	81	69	70	65	56	48	46	42	48	67	68	55	26
27	88	70	67	59	53	46	42	44	45	62	69	64	27
28	83	72	69	45	52	48	44	47	44	61	62 f	52	28
29	72	83	67	48	55 f	50 e	51	48	41	62	62	62	29
30	70		74	53	47	47	55	45	41	61	69	70	30
31	77		74		44		47	41		61		59	31
Mean	77.5	71.6	66.9	62.6	50.7	46.5	48.7	46.8	46.5	58.4	60.8	55.4	
	372	316	370	305	358	303	372	372	360	306	354	359	No. of Bihours

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

* CHELTENHAM UNTIL OCTOBER 5, 1956

TABLE 106

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on Greenwich Mean Time, Fredericksburg Magnetic Observatory, 1957

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.											Day
1	59	42	64	57	48	40	20	37	8	18[f]	37	43											1
2	66	52	60	51	46	39	20	36	8	30[g]	37	39											2
3	53	49	60	55	50	40	14	38	-3	28	38	44											3
4	57	45	57	50	59	41	13	20	4	34	43	51											4
5	56	50	56	41	57	38	16	15[g]	8	38	45	51											5
6	65	50	58	48	58	38	20	24	15	36	51	39											6
7	67	49	63	49	55	38	24	23	15	35	46	33											7
8	64	52	67	43[f]	48	40	27	24	16	36	45	39											8
9	60	52	70	51[g]	45	44	23	23	16	41	48	42											9
10	61	50	62	55	45	46[g]	30	31	20	45	53	44											10
11	64	57	41	58	44	43	32[d]	32	23	47	54	53											11
12	68	62	48	54	42	43	42[i]	32	27	42	54	65[f]											12
13	70	66	51	61	40[g]	45	39	36	22	42	53[g]	50[g]											13
14	75	70	51	62		40	40	37	22	44	49	45											14
15	69	66	56	60	47[f]	36	39	36	23	44	49	46											15
16	67	66	56	51	49	36	38	33	28	45	44	46											16
17	68	72	54	45[c]	49	36	37	37[a]	36	41	42	40											17
18	69	62	53		44	35	39	40	36	44	42	37											18
19	67	55	55		46	35	42	43[a]	34	49	38	45											19
20	62	64	60		49	35	32	46	37	50	51	22											20
21	62[g]	60	62		50	36	30	49	35	48	54	23											21
22		60	56		41	29	30	45	30	15	57	22											22
23	25[f]	59	59		37	24	36	48	24	6	54	27[g]											23
24	39	55	54		43	18	39	44	33	14	40												24
25	40	57	52		41	22	43	41	35	24	34	35[f]											25
26	46	49	56		34	26	45	38	37	31	26	42											26
27	44	52	62		36	28	49	30	46	42	16	51											27
28	46	57	65		41[i]	24	43	27	44	47	17	48											28
29	40		67		43[e]	27	40	29	31	42	19	48											29
30	46		61	44	42	19	40	-4	20	41	26	51											30
31	42		61		40		39	0		45		44											31
Mean	57.1	56.4	58.0	51.9	45.6	34.7	32.9	31.9	24.3	36.9	42.1	42.2											
	347	336	372	200	330	354	358	363	360	359	358	334	No. of Bihours										

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 107

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on Greenwich Mean Time, Fredericksburg Magnetic Observatory, 1958

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.												Day
1	45	51	46	48	46	33	32	32		41	57	70												1
2	59	57	49	49	43	33	31	33		43	58	68												2
3	55	61	53	48	45	43	31	40		47	58	68												3
4	56	61	55	50	43	44	31	40[b]		49	54	59												4
5	53	57	50	44	50	42	34	41[a]		50	50	61												5
6	47	49	42	38	53	41	35	42		54	49	67												6
7	48	49	40	45	53	44	34	44	36	43	60	73												7
8	59	56	41	58	56	38	25	47	45	45	57	72												8
9	59	63	40	59	46	32	18	49	47	42	61	70												9
10	50	63	45	61	46	38	24	48	42	38	62	71												10
11	50	45	46	53	47	38	34	46	47	48	54	72												11
12	47	44	47	56	47	44	36	47	53	53	47	71												12
13	46[g]	51	46	59	48	43	37	49	51	52	47	72												13
14		60	50	59	46	41	33	49	47	52	47	67												14
15	53[g]	55	47	54	45	48	32	50	47	53	49	68												15
16	59	65	56	55	49	52	35	50	36	49	50	68												16
17	52	71	58	52	47	53	41	40	31	47	52	60												17
18	49	72	62	47	48	51[c]	38	34	32	52	49	59												18
19	45	63	60	43	49		37	37[b]	41	53	54	56												19
20	44	60	62	46	50	41[j]	40	39	43	53	59	59												20
21	37	56	66	45	54	44	37	43[b]	44	51	63	67												21
22	42	58	60	49	52	47	30	36	45	49	66	64												22
23	43	60	62	51	50	48	37	37	44	38	67	56												23
24	40	55	60	46	50	46	40	25	41	41	59	65												24
25	45	56	57	45	52	45	39	24	37	46	62	73												25
26	48	52	30	48	54	45	39	28	33	52	58	67												26
27	55	48	36	49	52	49	37		35	54	65	65												27
28	56	48	45	48	51	47	33		46	57	59	58												28
29	53		47	39	51	43	36		51	58	59	56												29
30	52		44	42	39	41	37		48	58	73	61												30
31	48		45		37		32			55		66												31
Mean	49.8	56.6	49.9	49.5	48.4	43.2	34.0	40.4	42.6	49.1	56.8	65.5												
	348	336	372	360	372	339	372	305	288	372	360	372	No.	of	Bihours									

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 108

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on Greenwich Mean Time, Fredericksburg Magnetic Observatory, 1959

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.												Day
1	63	69	62	55	61	49	37	33	36[h]		43	57												1
2	59	74	63	57[b]	57	48	38	35	30		45[b]	57												2
3	61	69	62	62	52	49	45	32	30[b]		46	42												3
4	63	55	68	70	54	50	41	28	22[g]		33	39												4
5	73	57	62	68	56	53	40	27			30	43												5
6	68	62	53	64	54	51	40	31			35	51												6
7	63	64	66	66	51	49	40	26[g]			43	64												7
8	60	64	70	64	58	48	40	29[f]			47	51												8
9	70	67	68	59	61	43	41	31			48	52												9
10	69	56	72	52	56	46	42	32			50	54												10
11	71	52	68	54	56[f]	41	40[a]	33			46	53												11
12	68	53	66	58	14	42	24	37			49	51												12
13	66	44	69	59	22	46	22	36			41	57												13
14	65	41	60	67	18	50	23[b]	35			41	55												14
15	63	36	57	59	34	41[g]	-3[g]	35			40	59												15
16	66	44	64	58	40		-14[f]	31			39	53												16
17	78	39	66	58	44	46[f]	5[f]	35			43	53												17
18	79	46	72	55	41[g]	45	-22	36			50	55												18
19	74	58	66	59		45	-3	34			50	62												19
20	65	64	60	57	39[f]	42	4	19			53	65												20
21	59	62	60	63	37	41	11	21			50	68												21
22	61	59	69	65	39	40	15	28			44	67												22
23	77	54	63	69	37	38	22	31			43[f]	61												23
24	74	61	64	56	40	42	26	33[b]				56												24
25	64	64	60	58	40	42	27				59[h]	50												25
26	61	62	47	56	45	41	29	32[g]			55	51												26
27	55	63	40	55	42	39	32	34			46	47												27
28	53	66	54	57	43	37	32	39		48[k]	42	46												28
29	53		56	61	47	36	33	36		41	59	53												29
30	52		60	61	47	37	36	31[c]		39	56	55												30
31	60		59		47		37	34[g]		37		61												31
Mean	64.9	57.3	62.1	60.1	44.4	44.0	25.2	31.8	29.5	41.2	45.7	54.5												
	372	336	372	358	341	335	350	328	31	37	332	372	No. of Bihours											

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 109 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 Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Fredericksburg Magnetic Observatory, 1956*

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	770	760	748	768	769	764	782	780	797	799	787	785	775	31
Feb.**	698 (696)	708 (688)	761 (690)	726 (696)	721 (706)	711 (701)	715 (709)	723 (717)	720 (714)	732 (725)	728 (726)	705 (700)	721 (706)	24 (23)
Mar.	657	652	645	665	665	682	696	697	695	699	681	669	675	30
Apr.	632	619	601	602	618	635	635	645	665	654	646	636	632	24
May	494	482	495	483	512	522	510	525	532	521	523	498	508	28
June	451	467	450	460	452	463	452	480	477	480	485	464	465	22
July	477	482	465	480	473	485	494	487	497	501	503	502	487	31
Aug.	469	467	460	456	455	455	455	476	479	490	477	480	468	31
Sept.	487	454	441	453	475	456	472	473	477	488	467	466	465	30
Oct.	584	563	587	594	592	585	605	596	608	616	600	605	595	23
Nov.	598	589	596	587	597	596	608	617	642	630	628	614	608	29
Dec.	571	548	535	557	555	554	547	559	578	562	554	568	557	29
I	659 (659)	651 (646)	660 (642)	657 (650)	660 (657)	656 (654)	663 (662)	670 (668)	684 (683)	681 (679)	674 (674)	668 (667)	665 (662)	113 (112)
II	582	572	568	578	588	590	602	603	611	614	598	592	592	107
III	473	474	468	470	473	481	478	492	496	498	497	486	482	112
Year	571 (571)	566 (564)	565 (559)	568 (566)	574 (573)	576 (575)	581 (581)	588 (588)	597 (597)	598 (597)	590 (590)	582 (582)	580 (579)	332 (331)

* CHELTENHAM UNTIL OCTOBER 5, 1956 ** VALUES IN ( ) EXCLUDE FEBRUARY 23

TABLE 110 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 Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Fredericksburg Magnetic Observatory, 1957

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	587	587	576	570	575	560	575	575	593	593	590	595	581	28
Feb.	564	548	558	552	553	549	549	564	597	586	593	563	565	28
Mar.	553	583	566	568	567	575	577	593	592	600	604	577	580	31
Apr.	513	513	514	526	536	547	546	531	530	547	543	517	530	15
May	474	472	448	444	453	445	445	457	472	478	473	471	461	26
June	332	339	338	347	345	344	359	339	350	347	344	332	343	29
July	325	310	306	320	314	313	317	324	357	350	341	339	326	29
Aug.	317	311	312	304	291	305	325	319	350	347	340	316	320	28
Sept.	239	222	220	206	208	236	255	253	281	268	276	251	243	30
Oct.	379	375	368	360	362	353	374	381	391	403	405	392	379	29
Nov.	403	406	407	402	406	408	419	411	431	438	442	427	417	29
Dec.	427	416	413	426	414	399	424	414	412	434	423	430	419	26
I	495	489	488	488	487	479	492	491	508	513	512	504	496	111
II	421	423	417	415	418	428	438	440	448	454	457	434	433	105
III	362	358	351	354	351	352	362	360	382	386	374	364	362	112
Year	426	423	419	419	419	420	431	430	446	449	448	434	430	328

TABLE III 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 Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Fredericksburg Magnetic Observatory, 1958

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	487	494	505	493	490	501	499	512	503	503	503	506	500	28
Feb.	568	558	540	539	547	562	566	567	589	587	607	583	568	28
Mar.	500	483	495	493	482	495	496	504	504	512	512	508	499	31
Apr.	491	492	485	478	489	497	500	508	501	506	495	502	495	30
May	483	473	460	480	487	473	478	489	487	509	499	484	484	31
June	438	430	419	406	427	407	416	420	452	455	450	453	431	27
July	344	330	325	326	337	337	336	334	364	361	346	355	341	31
Aug.	420	399	396	388	385	406	398	414	405	395	422	417	404	22
Sept.	428	429	405	408	428	426	428	417	427	432	438	445	426	24
Oct.	492	485	482	488	483	486	505	492	504	501	493	481	491	31
Nov.	556	558	562	553	553	565	573	574	582	589	589	567	568	30
Dec.	663	655	654	629	641	653	654	645	654	668	673	659	654	31
I	568	566	565	554	558	570	573	574	582	587	593	579	572	117
II	478	472	467	467	470	476	482	480	484	488	484	484	478	116
III	421	408	400	400	409	406	407	414	427	430	429	427	415	111
Year	489	482	477	474	479	484	487	489	498	502	502	497	488	344

TABLE 112 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 Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Fredericksburg Magnetic Observatory, 1959

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	651	636	642	646	627	633	642	647	658	673	669	673	650	31
Feb.	575	562	571	568	560	574	574	578	588	582	580	569	573	28
Mar.	617	617	612	624	600	615	607	619	630	640	645	625	621	31
Apr.	607	597	591	600	593	598	604	614	607	610	606	600	602	29
May	442	429	421	433	423	440	445	454	452	452	456	464	443	27
June	450	437	434	428	436	438	431	443	446	437	459	454	441	27
July	265	255	265	274	269	269	280	281	287	297	305	305	279	26
Aug.	305	327	327	317	303	319	303	328	320	312	341	342	320	24
Sept.														
Oct.														
Nov.	444	462	442	438	436	430	433	448	464	482	481	477	453	26
Dec.	539	555	545	525	533	533	541	529	555	556	573	547	544	31
I	552	554	550	544	539	542	548	550	566	573	578	566	555	116
II	612	607	602	612	596	606	606	616	618	625	626	612	612	60
III	366	362	362	363	358	366	365	376	376	374	390	391	371	104
YEAR*	510	508	505	506	498	505	506	514	520	524	531	523	513	280
**	490	488	485	485	478	485	486	494	501	504	512	506	493	280

* FROM MEAN OF SEASONS ** 10 MONTH MEAN

TABLE 113

Daily Mean Departures from Balance (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 29 in. Hg, on Greenwich Mean Time, Christchurch Magnetic Observatory, 1956

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.												Day
1	-256	-260	-261	-267	-264	-257	-248	-250	-274	-263	-267	-276												1
2	-257	-262	-260	-267	-264	-254	-246	-246	-278	-264	-269	-283												2
3	-255	-259	-266	-267	-261	-252	-245	-244	-282	-260	-274	-291												3
4	-244	-254	-264	-265	-261	-249	-247	-249	-274	-257	-267	-294												4
5	-247	-244	-268	-265	-262	-249	-243	-246	-269	-261	-261	-293												5
6	-247	-240	-260	-265	-265	-253	-252	-249	-265	-265	-258	-292												6
7	-247	-250	-263	-267	-260	-257	-256	-250	-261	-270	-260	-292												7
8	-250	-250	-268	-266	-257	-259	-256	-248	-258	-264	-263	-290												8
9	-254	-248	-272	-261	-253	-263	-254 c	-248	-269	-269	-266	-295												9
10	-256	-255	-269	-260	-256	-266	-258	-251 a	-270	-268	-278	-290												10
11	-255	-260	-270	-259	-255	-274	-258	-253	-270	-270	-284	-285												11
12	-249	-263	-274	-255	-263	-274	-257	-259	-266	-269	-279	-277												12
13	-256	-264	-262	-258	-269	-271	-256	-257	-262	-264	-279	-278												13
14	-255	-261	-265	-257	-265	-269	-260	-259	-258	-259	-283	-280												14
15	-253	-262	-270	-257	-256	-267	-262	-260	-261	-266	-287	-282												15
16	-254	-261	-270	-262	-268 a	-265	-258	-258	-258	-265	-296	-280												16
17	-250	-265	-275	-265	-269	-259	-257	-258	-260	-264	-295	-276												17
18	-258	-272	-272	-265	-263	-252	-252	-255	-261	-269	-286	-275												18
19	-274	-273	-265	-261	-262	-248	-252	-254	-263	-268	-281	-284												19
20	-267	-273	-257	-265	-266	-249	-254	-258	-266	-263	-274 a	-283												20
21	-273	-266	-259	-267	-262	-244	-252	-259	-271	-262	-274 a	-290												21
22	-260	-267	-267	-273	-260	-246	-250	-259	-273	-260	-278	-292												22
23	-262	- 99	-268	-268	-261 b	-252	-248	-258	-273	-263	-276	-281												23
24	-264	-272	-268	-263	-263	-256		-261	-272	-266	-272	-288												24
25	-261	-273	-261	-261	-269	-259		-255	-269	-267	-275	-299												25
26	-263	-268	-258	-270	-265	-260		-256	-266	-269	-273	-298												26
27	-257	-268	-262	-279	-262	-258	-251 b	-258	-265	-269	-268	-293												27
28	-255	-265	-261	-271	-257	-255	-254	-255	-264	-268	-268	-297												28
29	-266	-265	-263	-264	-250	-252	-258	-257	-267	-269	-271	-294												29
30	-258		-264	-271	-252	-249	-257	-258	-265	-271	-278	-291												30
31	-263		-265		-256		-256	-264		-268		-290												31
Mean	-257.3	-255.8	-265.4	-264.7	-261.1	-257.3	-253.5	-254.6	-267.0	-265.5	-274.7	-287.4												
	368	348	372	360	369	360	320	371	360	372	359	366	No of Bihours											

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 114

Daily Mean Departures from Balance (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 29 in. Hg, on Greenwich Mean Time, Christchurch Magnetic Observatory, 1957

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.												Day
1	-289	-302	-292	-284	-291	-275	-309	-284	-322		-307	-316												1
2	-294	-302	-308	-286	-290	-278	-309	-283	-316		-307	-322												2
3	-296	-303	-305	-281	-285	-286	-304	-290	-318		-308	-324												3
4	-293[b]	-297[b]	-302	-282	-279	-286	-297	-307	-317		-300	-318												4
5		-300	-297	-284	-277	-282	-299		-324[k]		-299[c]	-309												5
6	-297[b]	-296	-292	-294	-282	-284	-299				-297[b]	-299[k]												6
7	-281	-292[k]	-288	-289	-282	-285	-295				-304													7
8	-277	-291	-289	-289	-291	-284	-290				-306													8
9	-298	-296	-291	-287	-281	-278	-287	-299	-311[b]	-296[b]	-310	-326[b]												9
10	-279	-294	-302	-289	-277	-276	-285	-297	-305	-296	-306	-322												10
11	-280[i]	-292	-310	-289	-283	-283	-283	-300	-303	-290	-302	-324												11
12		-295	-299	-282	-284	-279	-282	-294	-303	-288	-297	-319												12
13		-293	-295	-285	-284	-282	-281	-285	-307	-283	-299	-315[g]												13
14	-286[b]	-299	-294	-292	-283	-282	-282	-285	-313[b]	-289	-297													14
15	-286	-301[i]	-297	-293	-276	-276	-286	-282	-309[b]	-297	-304													15
16	-285		-298	-294	-277	-278	-282	-284		-299	-306	-327[b]												16
17	-279		-297	-298	-277	-284	-282	-287		-303	-314	-322												17
18	-286	-294[c]	-294	-304	-276	-288	-282	-284		-308[g]	-310[g]	-316												18
19	-289	-294	-291	-301[a]	-282	-290	-281	-287				-315[g]												19
20	-284	-302	-284		-280	-286	-280	-279				-337[a]												20
21	-292	-302	-287	-302	-281	-291	-285	-273			-300[f]	-348												21
22	-333	-292	-289	-299[a]	-280	-292	-288	-275			-303	-340												22
23	-322	-294	-291	-300[f]	-280	-296	-285	-281		-335[b]	-312	-331												23
24	-318	-302	-292	-300	-272	-298	-283	-282		-333	-320	-329												24
25	-314	-294	-288	-300	-279	-299	-275	-283		-322	-325	-336												25
26	-308	-285	-288	-295[a]	-288	-292	-272	-283[k]		-313	-339	-325												26
27	-300	-289	-290	-289	-278	-299	-271			-314[c]	-341	-312												27
28	-298	-294	-283	-287	-271	-299	-277			-306	-331	-309												28
29	-303		-285	-289	-272	-300	-281			-307	-331	-331												29
30	-312		-287	-286	-272	-311	-284	-331[b]		-307	-327	-322												30
31	-319		-288		-274		-284	-327		-309		-325												31
Mean	-296.0	-296.0	-293.3	-291.4	-280.1	-287.3	-286.5	-290.0	-312.3	-305.0	-310.8	-323.3												
	321	285	372	330	372	360	372	275	126	211	318	294	No of Bihours											

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 115

Daily Mean Departures from Balance (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 29 in. Hg. on Greenwich Mean Time, Christchurch Magnetic Observatory, 1958

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.											Day
1	-327	-329	-321	-328	-318	-314	-312	-309	-307	-322	-311	-322											1
2	-318	-330	-322	-325	-311	-317	-311	-308	-311	-326	-313	-319											2
3	-311	-326	-325	-320	-310	-309	-311	-302	-319	-322	-318	-314											3
4	-316	-325	-322	-320	-306	-308	-308	-304	-329	-323	-317	-311											4
5	-316	-310	-325	-327	-30	-315	-308	-302	-330	-323	-320	-316											5
6	-317	-313	-330	-329	-285[d]	-311	-310	-302	-329	-326	-319	-317											6
7	-318	-316[c]	-331	-322		-307	-303	-307	-325	-328	-318	-321											7
8	-320		-332	-317		-307	-313	-305	-317	-323	-313	-317											8
9	-316		-334	-306	-309[a]	-310	-324	-303	-318	-317[h]	-316	-324											9
10			-330	-303	-305	-308	-309	-305	-319	-315[b]	-316	-327											10
11		-340	-323	-304	-306	-307	-301	-305	-320	-313	-322	-325											11
12		-339	-326	-312	-309	-311	-300	-302	-317	-315	-325	-327											12
13	-325[b]	-332	-333	-309	-304	-309	-299	-304	-313	-314	-325	-326											13
14	-326	-327	-319	-311	-305	-306	-300	-302	-312	-315	-324	-327											14
15	-318	-325	-323	-311	-301	-297	-301	-298	-315	-319	-320[g]	-325											15
16	-316	-321	-318	-311	-298	-298	-305[a]	-301	-326	-323		-326											16
17	-323	-324	-318	-314	-298	-299		-311	-327	-322	-304[b]	-321											17
18	-325	-326	-317	-311	-300	-300	-303[a]	-328	-328	-319	-309	-332											18
19	-325	-323	-317	-311	-299	-307	-304	-320	-328	-316	-312	-330											19
20	-331[e]	-325	-320	-305	-300	-305	-299	-315		-305	-314	-328											20
21		-329	-319[g]	-300	-294	-312	-303	-313		-302	-318[a]	-329											21
22		-316	-316	-302	-298	-314	-303	-311	-307[b]	-308	-313	-323											22
23		-315	-318	-300	-301	-309	-295	-310	-301	-323	-310	-320											23
24		-313	-318	-299	-302	-308	-296	-320	-302	-322	-319[k]	-323											24
25		-316	-320	-293	-300	-302	-299	-324	-307	-327	-317	-324											25
26		-325	-334	-305	-297[k]	-298	-296	-323	-313	-330	-314	-325											26
27	-322	-326	-333	-306	-290[k]	-297	-302	-327	-319	-322	-313	-328											27
28	-320	-321	-338	-304	-297[b]	-300	-305	-326	-321	-322	-325	-332[k]											28
29	-325		-329	-313	-302	-306	-304	-316	-319	-318	-326	-328[b]											29
30	-323		-328	-316	-306	-308	-303	-308	-315	-318	-324	-322											30
31	-321		-331		-312		-303	-305		-315		-320											31
Mean	-320.9	-323.7	-324.8	-311.1	-302.2	-306.6	-304.3	-310.2	-317.6	-319.1	-317.1	-323.5											
	256	291	365	360	328	360	354	372	334	362	337	360	No. of Bihours										

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 116

Daily Mean Departures from Balance (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 29 in. Hg, on Greenwich Mean Time, Christchurch Magnetic Observatory, 1959

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.																	Day
1	-319	-330	-328	-332	-319	-314																							1
2	-312	-338	-336	-333	-315	-324																							2
3	-319	-338	-333	-329	-312	-316																							3
4	-322	-339	-331	-330	-316	-319[c]																							4
5	-323	-337	-329	-324	-317	-327																							5
6	-329	-339	-331	-324	-317	-317																							6
7	-333	-340	-333	-325	-317	-318																							7
8	-339	-332	-333	-323[h]	-317	-324																							8
9	-338	-327	-327		-316	-321																							9
10	-338	-321	-324	-326[a]	-308	-319																							10
11	-334	-329	-324	-327	-316	-321																							11
12	-328[k]	-347	-326	-330[b]	-351	-330																							12
13		-343	-336	-332[b]	-346	-322																							13
14		-344	-341	-336	-350	-318																							14
15		-352	-340	-339	-348	-321																							15
16	-332[b]	-354	-334	-330	-342	-331																							16
17	-333	-352	-330	-323	-334	-333																							17
18	-335	-348	-328	-322	-333	-336																							18
19	-330	-345	-329	-321	-328	-339																							19
20	-333	-337	-328	-320	-327	-336																							20
21	-334	-329	-332	-321	-332	-334																							21
22	-327	-331	-332[a]	-324	-324	-324																							22
23	-323	-336	-334[b]	-326	-325	-326																							23
24	-330	-338	-334	-335	-321	-328																							24
25	-331	-336	-325	-332	-319	-327																							25
26	-338	-338	-338	-324	-316	-324																							26
27	-341	-333	-342	-311	-317	-322																							27
28	-344	-331	-340	-309	-309	-328[a]																							28
29	-344		-333	-322	-306	-330[b]																							29
30	-331		-330	-323	-309	-331																							30
31	-326		-333		-317																								31
Mean	-331.0	-338.0	-332.1	-326.0	-323.4	-325.3																							
	323	336	366	335	372	354																							

No. of Bihours

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 117 Diurnal Variation in Departures from Balance (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 29 in. Hg, on Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Christchurch Magnetic Observatory, 1956

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	-2565	-2563	-2559	-2577	-2587	-2571	-2568	-2587	-2561	-2563	-2560	-2570	-2569	29
Feb.*	-2611 (-2608)	-2605 (-2615)	-1935 (-2599)	-2594 (-2603)	-2611 (-2615)	-2622 (-2624)	-2615 (-2614)	-2639 (-2634)	-2619 (-2619)	-2630 (-2630)	-2625 (-2623)	-2601 (-2600)	-2559 (-2615)	29 (28)
Mar.	-2629	-2647	-2641	-2662	-2678	-2676	-2656	-2662	-2662	-2669	-2642	-2633	-2655	31
Apr.	-2633	-2624	-2639	-2652	-2667	-2665	-2665	-2652	-2661	-2644	-2644	-2636	-2648	30
May	-2594	-2613	-2597	-2616	-2622	-2626	-2632	-2635	-2607	-2592	-2593	-2592	-2610	29
June	-2552	-2578	-2558	-2576	-2596	-2589	-2584	-2570	-2574	-2561	-2559	-2571	-2572	30
July	-2518	-2549	-2533	-2536	-2541	-2548	-2549	-2537	-2539	-2544	-2542	-2526	-2538	25
Aug.	-2529	-2534	-2529	-2549	-2563	-2560	-2554	-2541	-2558	-2555	-2553	-2537	-2547	30
Sept.	-2642	-2672	-2671	-2700	-2693	-2665	-2673	-2677	-2646	-2669	-2660	-2673	-2670	30
Oct.	-2628	-2633	-2645	-2661	-2688	-2668	-2661	-2669	-2665	-2667	-2661	-2633	-2656	31
Nov.	-2710	-2743	-2744	-2748	-2758	-2768	-2755	-2766	-2753	-2754	-2736	-2735	-2748	29
Dec.	-2857	-2854	-2867	-2861	-2883	-2886	-2883	-2869	-2884	-2876	-2874	-2873	-2872	30
I	-2686 (-2685)	-2691 (-2694)	-2526 (-2692)	-2695 (-2697)	-2710 (-2711)	-2712 (-2712)	-2705 (-2705)	-2715 (-2714)	-2704 (-2704)	-2706 (-2706)	-2699 (-2698)	-2695 (-2694)	-2687 (-2701)	117 (116)
II	-2633	-2644	-2649	-2669	-2682	-2668	-2664	-2665	-2658	-2662	-2652	-2644	-2657	122
III	-2548	-2568	-2554	-2569	-2580	-2581	-2580	-2571	-2570	-2563	-2562	-2556	-2567	114
Year	-2622 (-2622)	-2634 (-2635)	-2576 (-2632)	-2644 (-2649)	-2657 (-2658)	-2654 (-2654)	-2650 (-2650)	-2650 (-2650)	-2644 (-2644)	-2644 (-2644)	-2638 (-2637)	-2632 (-2631)	-2637 (-2642)	353

* VALUES IN ( ) EXCLUDE FEBRUARY 23

TABLE 118 Diurnal Variation in Departures from Balance (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 29 in. Hg, on Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Christchurch Magnetic Observatory, 1957

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	-2978	-2958	-2951	-2978	-2971	-2976	-2967	-2974	-2984	-2984	-2982	-2966	-2972	24
Feb.	-2939	-2955	-2944	-2955	-2944	-2974	-2981	-2976	-2973	-2993	-2968	-2947	-2962	21
Mar.	-2924	-2934	-2927	-2940	-2948	-2947	-2953	-2946	-2927	-2932	-2933	-2899	-2934	31
Apr.	-2894	-2881	-2895	-2901	-2908	-2911	-2917	-2911	-2899	-2902	-2904	-2892	-2901	25
May	-2791	-2791	-2794	-2801	-2793	-2822	-2826	-2825	-2803	-2809	-2797	-2792	-2802	31
June	-2857	-2862	-2866	-2872	-2893	-2880	-2884	-2889	-2872	-2871	-2857	-2866	-2872	30
July	-2851	-2849	-2859	-2875	-2873	-2863	-2868	-2884	-2884	-2867	-2873	-2848	-2866	31
Aug.	-2857	-2852	-2865	-2876	-2911	-2909	-2911	-2904	-2912	-2887	-2893	-2877	-2888	22
Sept.	-3042	-3084	-3137	-3171	-3155	-3146	-3129	-3127	-3085	-3113	-3097	-3088	-3114	9
Oct.	-3013	-3017	-3031	-3044	-3044	-3042	-3038	-3011	-3021	-3031	-3025	-3015	-3028	15
Nov.	-3100	-3114	-3088	-3132	-3131	-3145	-3125	-3124	-3127	-3143	-3126	-3119	-3123	24
Dec.	-3244	-3245	-3256	-3235	-3266	-3255	-3243	-3242	-3242	-3237	-3229	-3226	-3243	21
I	-3065	-3068	-3060	-3075	-3078	-3088	-3079	-3079	-3082	-3089	-3076	-3064	-3075	90
II	-2968	-2979	-2998	-3014	-3014	-3012	-3009	-2999	-2983	-2994	-2990	-2974	-2994	80
III	-2834	-2838	-2846	-2856	-2868	-2868	-2872	-2876	-2868	-2858	-2855	-2846	-2857	114
Year	-2956	-2962	-2968	-2982	-2987	-2989	-2987	-2985	-2978	-2980	-2974	-2961	-2975	284

TABLE 119 Diurnal Variation in Departures from Balance (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 29 in. Hg, on Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Christchurch Magnetic Observatory, 1958

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	-3185	-3205	-3174	-3187	-3213	-3175	-3187	-3212	-3209	-3211	-3218	-3209	-3199	19
Feb.	-3209	-3205	-3235	-3230	-3244	-3254	-3230	-3275	-3266	-3246	-3251	-3249	-3241	24
Mar.	-3245	-3235	-3249	-3253	-3265	-3250	-3253	-3264	-3260	-3252	-3254	-3241	-3252	30
Apr.	-3102	-3107	-3087	-3117	-3117	-3118	-3126	-3116	-3125	-3089	-3116	-3128	-3112	30
May	-3016	-3026	-3020	-3036	-3041	-3042	-3039	-3051	-3023	-3031	-3047	-3022	-3033	25
June	-3047	-3044	-3047	-3061	-3052	-3054	-3086	-3096	-3082	-3093	-3079	-3076	-3068	30
July	-3011	-3022	-3038	-3057	-3065	-3063	-3050	-3055	-3054	-3047	-3044	-3029	-3045	28
Aug.	-3064	-3075	-3114	-3107	-3107	-3124	-3116	-3131	-3093	-3105	-3095	-3078	-3101	31
Sept.	-3170	-3160	-3184	-3176	-3177	-3186	-3182	-3192	-3179	-3187	-3206	-3186	-3182	27
Oct.	-3193	-3193	-3198	-3187	-3214	-3211	-3191	-3199	-3188	-3185	-3186	-3195	-3195	29
Nov.	-3156	-3148	-3158	-3169	-3171	-3182	-3177	-3198	-3205	-3176	-3179	-3169	-3174	25
Dec.	-3214	-3222	-3208	-3233	-3234	-3257	-3232	-3237	-3242	-3243	-3236	-3230	-3232	29
I	-3191	-3195	-3194	-3205	-3216	-3217	-3206	-3230	-3230	-3219	-3221	-3214	-3212	97
II	-3178	-3174	-3180	-3183	-3193	-3191	-3188	-3193	-3188	-3178	-3190	-3188	-3185	116
III	-3034	-3042	-3055	-3065	-3066	-3071	-3073	-3083	-3063	-3069	-3066	-3051	-3062	114
Year	-3134	-3137	-3143	-3151	-3158	-3160	-3156	-3169	-3160	-3155	-3159	-3151	-3153	327

TABLE 120 Diurnal Variation in Departures from Balance (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 29 in. Hg, on Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Christchurch Magnetic Observatory, 1959

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	-3299	-3295	-3292	-3325	-3320	-3318	-3285	-3312	-3319	-3321	-3319	-3309	-3310	26
Feb.	-3378	-3366	-3382	-3385	-3389	-3379	-3381	-3391	-3365	-3379	-3386	-3390	-3381	28
Mar.	-3288	-3309	-3287	-3318	-3325	-3327	-3331	-3356	-3319	-3344	-3327	-3307	-3320	29
Apr.	-3237	-3243	-3251	-3253	-3261	-3260	-3254	-3274	-3249	-3254	-3278	-3261	-3256	25
May	-3211	-3219	-3228	-3241	-3248	-3227	-3250	-3247	-3227	-3239	-3245	-3217	-3233	31
June	-3234	-3247	-3247	-3257	-3266	-3236	-3270	-3282	-3258	-3256	-3254	-3247	-3254	27
July														
Aug.														
Sept.														
Oct.														
Nov.														
Dec.														
I														
II														
III														
Year														

GODHAVN MAGNETIC OBSERVATORY

JANUARY 1954

TABLE 121

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	117	98	101	105	98	108	103	100	89	95	96	90		1200	100						1
2	92	82	90	84	86	90	92	88	95	95	88	86		1068	89						2
3	80	85	83	91	91	85	90	88	99	99	103	98		1092	91						3
4	100	103	108	107	107	106	104	97	103	104	99	96		1234	103						4
5	98	104	99	90	99	97	93	102	97	100	92	89		1160	97						5
6	80	97	90	88	91	101	96	100	101	97	92	88		1121	93						6
7	94	86	104	102	102	92	93	102	92	92	96	92		1147	96						7
8	93	88	82	84	83	78	88	77	80	81	77	84		995	83						8
9	87	75	68	72	75	83	79	78	88	81	77	77		940	78						9
10	67	74	77	82	71	77	64	70	82	73	70	78		885	74						10
11	65	74	78	74	73	80	81	74	81	82	77	75		914	76						11
12	91	81	77	88	97	83	88	83	94	100	91	93		1066	89						12
13	88	91	91	87	86	91	94	94	82	94	97	101		1096	91						13
14	92	90	98	98	102	104	98	103	95	96	95	95		1166	97						14
15	100	90	100	95	102	104	100	96	95	94				(976)	(98)	10					15
16									105	104	112	103		(424)	(106)	4					16
17	99	104	98	94	93	90	95	100	96	98	100	97		1164	97						17
18	96	91	94	98	91	94	92	88	76	94	80	87		1081	90						18
19	83	80	76	83	70	83	80	86	79	85	80	82		967	81						19
20	80	87	75	85	83	85	90	94	88	88	96	83		1034	86						20
21	87	92	99	88	91	95	99	96	97	95	95	86		1120	93						21
22	93	97	100	96	109	101	98	110	99	103	104	100		1210	101						22
23	103	94	106	93	105	107	107	106	104	96	108	105		1234	103						23
24	108	105	118	102	102	110	109	110	116	106	109	104		1299	108						24
25	116	110	104	106	108	110	114	118	111	110	116	116		1339	112						25
26	110	110	108	104	112	112	108	114	111	108	108	112		1317	110						26
27	107	108	105	100	108	107	108	102	106	103	96	103		1253	104						27
28	105	96	102	95	89	100	84	91	88	87	97	92		1126	94						28
29	84	89	85	87	80	78	87	82	79	91	73	82		997	83						29
30	79	74	84	88	94	85					79	89		(672)	(84)	8					30
31	86	84	89	86	93	87	88	99	92	97	91	96		1088	91			DAYS		MEAN	31
Sum*	2601	2575	2605	2569	2595	2634	2622	2652	2620	2650	2603	2587		31313	2610•	COMPLETE		28	=	93.2	
Mean*	92.9	92.0	93.0	91.8	92.7	94.1	93.6	94.7	93.6	94.6	93.0	92.4	→	11184	→	COMPLETE		28	=	93.2	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														2898•	ALL		31	=	93.5	

GODHAVN MAGNETIC OBSERVATORY

FEBRUARY 1954

TABLE 122

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean	B				Day
1	101	92	91	96	88	96	103	99	109	106	107	103	1191	99					1
2	100	111	109	109	116	100	107	108	100	101	102	103	1266	106					2
3	104	106	97	93	101	102	112	93	102	102	104	95	1211	101					3
4	93	95	97	101	97	99	92	102	106	106	100	90	1178	98					4
5	94	98	93	97	91	104	90	97	93	95	89	87	1128	94					5
6	93	92	90	85	85	88	90	93	88	95	87	94	1080	90					6
7	98	89	99	99	93	97	107	94	101	102	105	108	1192	99					7
8								120	111	106	114	108	(559)	(112)	5				8
9	117	95	113	107	112	107	100	110	104	106	102	99	1272	106					9
10	101	108	96	104	95	110	104	105	101	95	110	96	1225	102					10
11	99	93	104	95	97	107	91	96	97	94	96	98	1167	97					11
12	98	95	95	96	97	93	96	94	88	91	98	91	1132	94					12
13	97	88	84	88	83	86	95	91	84	94	89	96	1075	90					13
14	87	88	102	95	108	96	94	96	98	101	95	94	1154	96					14
15	92	97	99	103	106	98	102	106	103	99	106	104	1215	101					15
16	105	105	103	102	98	112	103	110	99	97	105	100	1239	103					16
17	99	107	101	100	101	104	99	104	98	98	97	102	1210	101					17
18	104	103	102	102	103	94	102	94	102	95	101	88	1190	99					18
19	101	102	104	105	108	106	103	115	96	99	108	99	1246	104					19
20	107	102	107	102	100	104	112	108	97	97	95	104	1235	103					20
21	104	97	96	101	104	104	98	101	108	96	96	97	1202	100					21
22	92	96	98	92	93	101	94	89	93	91	90	91	1120	93					22
23	92	94	93	85	107	101	97	99	114	103	98	94	1177	98					23
24	100	101	102	101	97	100	100	100	98	100	94	97	1190	99					24
25	87	98	93	89	92	94	92	91	89	95	79	85	1084	90					25
26	78	80	78	82	75	78	81	69	77	80	68	72	918	76					26
27	76	72	68	72	69	76	69	75	77	72	73	71	870	72					27
28	75	75	71	72	64	77	74	69	79	76	79	80	891	74					28
29																			29
30																			30
31																	DAYS		MEAN 31
Sum*	2594	2579	2585	2573	2580	2634	2607	2608	2601	2586	2573	2538	31058	2585•	COMPLETE		27	=	95.7
Mean*	96.1	95.5	95.7	95.3	95.6	97.6	96.6	96.6	96.3	95.8	95.3	94.1	→ 1150.5	→	COMPLETE		27	=	95.9
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM													2697•	ALL		28	=	96.3

GODHAVN MAGNETIC OBSERVATORY

TABLE 123 — COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS — MARCH 1954

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	76	73	77	85	73	81	77	82	73	80	71	86		934	78					1
2	85	81	80	78	81	75			79	83	85	86		(813)	(81)	10				2
3	80	79	104	85	79	88	84	93	91	85	85	80		1033	86					3
4	74	80	92	87	80	82	81	88	88	97	89	95		1033	86					4
5	92	95	91	94	83	92	95	92	84	96	91	81		1086	90					5
6	86	81	96	87	89	87	94	99	84	93	101	84		1081	90					6
7	84	87	86	92	89	77	79	90	83	82	84	87		1020	85					7
8	78	83	82	78	82	88	74	77	73	80	75	76		946	79					8
9	84	72	80	68	76	74	72	71	71	66	69	70		873	73					9
10	68	74	71	62	74	76	63	77	74	76	70	77		862	72					10
11	64	70	65	76	72	68	85	73	75	68	65	69		850	71					11
12	76	79	79	72	84	82	77	80	71	81	73	71		925	77					12
13	76	80	88	86	82	81	75	72	82	72	79	72		945	79					13
14	73	72	78	74	65	73	74	73	69	74	69	67		861	72					14
15	72	64	67	65	69	69	69	76	67	74	68	63		823	69					15
16	73	74	65	72	69	67	66	69	68	65	63	62		813	68					16
17	64	65	61	69	59	68	60	57	53	65	63	58		742	62					17
18	63	72	68	69	65	69	62	66	63	69	65	55		786	66					18
19	67	64	74	67	66	64	65	75	67	70	71	76		826	69					19
20	78	66	74	77	67	76	72	63	80	74	79	79		885	74					20
21	75	83	68	70	79	83	74	77	76	78	79	73		915	76					21
22	80	72	68	68	70	71	69	65	71	70	64	76		844	70					22
23	71	73	70	60	72	69	85	85	64	86	76	77		888	74					23
24	69	67	77	82	74	78	74	78	66	81	78	66		890	74					24
25	66	68	71	69	73	69	79	86	75	75	70	73		874	73					25
26	70	73	79	80	82	70	74	84	71	84	78	78		923	77					26
27	74	86	76	85	81	85	88	76	78	85	86	82		982	82					27
28	83	81	75	74	75	83	74	79	74	77	78	77		930	78					28
29	84	81	80	77	71	71	77	80	84	79	81	90		955	80					29
30	78	76	73	83	77	75	80	78	79	74	80	71		924	77					30
31	84	71	76	73	75	72	77	71	69	68	67	67		870	72			DAYS		MEAN 31
Sum*	2262	2261	2311	2286	2252	2288	2275	2332	2223	2324	2267	2238		27319	2279	COMPLETE		30	=	76.0
Mean*	75.4	75.4	77.0	76.2	75.1	76.3	75.8	77.7	74.1	77.5	75.6	74.6	→	910.7	→	COMPLETE		30	=	75.9
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														2368•	ALL		31	=	76.1

GODHAVN MAGNETIC OBSERVATORY APRIL 1954

TABLE 124 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	68	69	73	78	75			79	74	79	72	72		(739)	(74)	10					1
2	84	78	67	81	85	80	91	80	90	73	84	82		975	81						2
3	74	77	82	80	78	71	74	69	68	73	64	71		881	73						3
4	73	73	74	68	67	76	75	70	70	73	70	70		859	72						4
5	68	75	71	67	74	72	76	79	82	84	67	81		896	75						5
6	71	86	88	78	81	80	86	82	81	70	77	80		960	80						6
7	74	81	80	88	74	81	82	86	73	77	86	82		964	80						7
8	81	74	84	84	80	66	70	70	84	76	87	67		923	77						8
9	75	75	77	70	69	81	77	81	78	88	76	76		923	77						9
10	76	75	78	74	74	75	81	75	78	76	76	78		916	76						10
11	80	69	74	84	76	72	80	83	71	86	82	74		931	78						11
12	68	72	77	75	77	76	80	71	80	75	79	76		906	76						12
13	74	82	70	83	87	88	71	73	77	74	72	70		921	77						13
14	66	73	74	69	79	71	64	63	64	74	65	64		826	69						14
15	68	72	64	70	68	70	58	63	62	61	59	64		779	65						15
16	66	65	52	57	54	59	63	66	60	54	48	57		701	58						16
17	59	62	57	67	51	53	56	54	56	59	50	50		674	56						17
18	53	49	54	46	56	55	48	56	52	54	46	48		617	51						18
19	55	55	52	52	48	49	49	53	45	51	47	40		596	50						19
20	49	49	57	57	62	77	61	69	54	60	66	57		718	60						20
21	57	71	54	63	57	52	64	62	53	66	58	66		723	60						21
22	57	62	76	64	66	60	53	58	54	62	57	63		732	61						22
23	64	57	59	63	58	74	60	63	53	55	58	58		722	60						23
24	58	61	55	65	66	60	62	64	56	55	54	65		721	60						24
25	58	56	60	54	55	60	56	55	64	58	59	55		690	58						25
26	57	57	57	59	57	60	63	53	57	59	51	51		681	57						26
27	62	58	52	56	55	56	47	55	50	52	62	55		660	55						27
28	54	55	61	47	51	51	52	43	56	50	57	45		622	52						28
29	49	45	47	48	42	40	40	46	52	38	51	58		556	46						29
30	44	50	39	36	42	44	44	42	42	42	42	45		512	43						30
31																		DAYS		MEAN	31
Sum*	1874	1914	1892	1905	1889	1909	1883	1884	1862	1875	1850	1848		22585	1883•	COMPLETE		29	=	64.9	
Mean*	64.6	66.0	65.2	65.7	65.1	65.8	64.9	65.0	64.2	64.7	63.8	63.7	→	778.7	→	COMPLETE		29	=	64.9	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1959•	ALL		30	=	65.2	

GODHAVN MAGNETIC OBSERVATORY

MAY 1954

TABLE 125

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	37	43	50	44	47	47	51	48	44	43	47	47		548	46						1
2	46	52	51	61	46	44	42	47	38	43	45	37		552	46						2
3	33	43	44	36	40	57	44	48	39	39	48	48		519	43						3
4	43	43	48	38	41	47	48	51	41	47	46	41		534	44						4
5	41	40	39	43	39	37	47	36	25	50	30	40		467	39						5
6	36	38	40	40	35	45	40	50	36	43	37	38		478	40						6
7	35	48	38	44	40	46	42	44	44	42	35	48		506	42						7
8	42	46	47	49	39	50	44	46	44	50	57	58		572	48						8
9	37	48	57	60	50	56	46	55	49	48	51	52		609	51						9
10	56	54	55	53	61	56	55	57	61	54	58	51		671	56						10
11	55	60	54	64	59	67	55	60	64	60	59	49		706	59						11
12	54	64	59	46	44	56	51	56	51	54	55	60		650	54						12
13	54	53	58	53	57	61	58	53	55	54	60	59		675	56						13
14	46	55	59	54	56	49	59	48	48	55	57	50		636	53						14
15	40	49	45	47	50	53	46	52	51	47	59	61		600	50						15
16	48	58	56	56	42	54	47	55	50	53	54	53		626	52						16
17	45	52	56	57	66	56	49	56	55	55	49	55		651	54						17
18	47	54	45	57	56	58	55	51	57	59	49	51		639	53						18
19	47	50	44	56	55	52	52	50	41	54	43	39		583	49						19
20	52	44	49	50	52	61	65	50	49	49	50	49		620	52						20
21	49	53	51	36	50	44	53	44	46	54	46	49		575	48						21
22	54	39	38	55	47	50	51	51	47	50	44	49		575	48						22
23	44	52	54	60	46	56	57	48	47	57	49	61		631	53						23
24	43	61	38	56	63	54	66	52	51	58	60	64		666	56						24
25	61	58	61	49	42	48	52	49	52	54	46	47		619	52						25
26	52	48	44	43	40	39	46	34	31	34	35	33		479	40						26
27	35	46	34	32	37	36	23	40	32	36	26	35		412	34						27
28	41	33	29	44	41	33	49	47	39	46	43	38		483	40						28
29	46	38	40	39	32	45	39	46	45	43	35	42		490	41						29
30	44	37	46	48	43	43	37	54	43	41	38	33		507	42						30
31	52	41	42	34	41	49	50	43	43	47	48	41		531	44			DAYS		MEAN	31
Sum*	1415	1500	1471	1504	1457	1549	1519	1521	1418	1519	1459	1478		17810	148.5•	COMPLETE		31	=	47.9	
Mean*	45.6	48.4	47.5	48.5	47.0	50.0	49.0	49.1	45.7	49.0	47.1	47.7	→	574.6	→	COMPLETE		31	=	47.9	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

GODHAVN MAGNETIC OBSERVATORY

JUNE 1954

TABLE 126

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	34	42	35	48	38	42	46	45	47	48	48	45		518	43					1
2	50	44	50	44	55	55	55	52	56	49	56	57		623	52					2
3	57	48	56	49	54	54	58	41	52	53	51	60		633	53					3
4	51	51	53	45	55	48	46	47	42	44	52	47		581	48					4
5	52	44	45	43	53	44	43	48	42	41	56	51		562	47					5
6	47	47	47	44	53	53	47	50	44	44	50	45		571	48					6
7	41	44	45	51	46	43	37	44	39	43	49	50		532	44					7
8	41	46	42	50	54	44	48	43	43	51	35	43		540	45					8
9	41	68	54	49	56	60	58	52	46	58	46	46		634	53					9
10	43	54	44	52	52	53	42	53	44	46	44	47		574	48					10
11	43	43	49	44	53	41	41	47	37	35	40	47		520	43					11
12	44	36	42	44	42	38	35	42	28	40	45	47		483	40					12
13	44	47	49	49	50	41	46	42	46	52	46	49		561	47					13
14	46	44	49	47	52	50	63	50	47	51	49	44		592	49					14
15	42	50	53	61	52	67	49	50	43	58	49	53		627	52					15
16	50	52	49	56	55	56	49	53	53	47	48	40		608	51					16
17	36	42	47	45	54	44	56	47	44	47	56	51		569	47					17
18	57	45	46	43	43	44	52	46	61	40	53	49		579	48					18
19	45	46	44	49	49	55	49	46	43	45	46	47		564	47					19
20	46	50	44	45	44	56	47	47	38	47	48	57		569	47					20
21	40	54						48	49	52	51	44		(338)	(48)	7				21
22	53	46	60	44	45	39	57	43	46	50	41	51		575	48					22
23	51	49	36	50	50	47	43	43	43	57	43	53		565	47					23
24	40	54	43	51	43	38	49	39	43	43	41	43		527	44					24
25	39	36	42	49	52	44	48	41	36	44	34	38		503	42					25
26	38	48	40	44	28	33	31	37	36	35	37	35		442	37					26
27	32	32	38	29	36	37								(204)	(34)	6				27
28								37	50	42				(129)	(43)	3				28
29	36	33	27	36	24	37								(193)	(32)	6				29
30									51	53	57	51		(212)	(53)	4				30
31																		DAYS		MEAN 31
Sum*	1131	1176	1164	1196	1228	1189	1195	1148	1099	1168	1163	1195		14052	1170•	COMPLETE		25	=	46.8
Mean*	45.2	47.0	46.6	47.8	49.1	47.6	47.8	45.9	44.0	46.7	46.5	47.8	→	562.0	→	COMPLETE		25	=	46.8
															1380•	ALL		30	=	46.0

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

JULY 1954

TABLE 127

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	48	60	43	48	44	41	34	43	36	42	44	44		527	44						1
2	42	41	37	34	39	38	31	35	37	42	51	44		471	39						2
3	40	36	42	50	37	50	46	41	48	32	53	46		521	43						3
4	51	38	47	45	37	42	36	41	37	30	47	37		488	41						4
5	42	40	38	39	39	49	39	37	38	39	32	44		476	40						5
6	38	49	36	43	41	37	45	41	42	50	44	38		504	42						6
7	35	37	46	45	41	40	48	38	44	47	40	42		503	42						7
8	35	43	45	43	45	36	42	44	49	41	40	43		506	42						8
9	39	46	52	45	47	42	50	44	43	46	48	50		552	46						9
10	41	37	47	45	39	41	24	40	47	35	37	43		476	40						10
11	46	39	41	33	31	37	40	38	32	44	43	35		459	38						11
12	33	46	38	38	26	38	34	35	28	40	42	33		431	36						12
13	37	31	26	38	36	36	36	35	38	40	46	32		431	36						13
14	36	32	32	38	38	38	35	39	38	39	25	39		429	36						14
15	34	35	35	32	39	32	53	42	40	38	35	39		454	38						15
16	41	42	42	41	50	40	39	44	44	43	41	44		511	43						16
17	52	46	50	54	54	51	42	56	40	40	47	47		579	48						17
18	41	57	42	49	41	51	50	50	39	50	50	42		562	47						18
19	49	47	54	50	50	52	54	51	46	43	42	48		586	49						19
20	43	49	42	45	38	39	54	42	48	46	39	45		530	44						20
21	44	39	41	41	39	38	47	38	38	32	31	32		460	38						21
22	38	33	27	34	29	35	30	31	32	39	45	45		418	35						22
23	29	38	31	30	40	39	39	49	31	27	40	44		437	36						23
24	38	42	38	43	40	50	33	31	36	50	35	44		480	40						24
25	35	38	42	38	37	33	26	39	41	21	40	36		426	36						25
26	35	41	35	35	32	27	24	38	31	34	28	28		388	32						26
27	30	30	36	25	32	33	30	36	31	27	39	39		388	32						27
28	32	29	31	32	31	38	32	36	22	36	32	39		390	32						28
29	32	40	35	30	36	30	26	30	26	39	33	37		394	33						29
30	33	36	30	30	40	28	26	29	30	32	41	37		392	33						30
31	33	42	45	32	32	44	35	44	37	45	35	38		462	39			DAYS		MEAN	31
*Sum	1202	1259	1226	1225	1200	1225	1180	1237	1169	1209	1245	1254		14631	1228	COMPLETE		31	=	39.4	
*Mean	38.8	40.6	39.5	39.5	38.7	39.5	38.1	39.9	37.7	39.0	40.2	40.5	→	4720	→	COMPLETE		31	=	39.3	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

GODHAVN MAGNETIC OBSERVATORY

AUGUST 1954

TABLE 128

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	40	40	41	40	37	36	30	36	34	40	41	42		454	38					1
2	30	40	37	37	31	33	37	42	34	33	41	45		440	37					2
3	40	45	46	45	48	42	28	39	43	38	45	46		505	42					3
4	44	37	41	45	37	45	37	47	35	38	43	45		494	41					4
5	46	44	44	37	35	46	38	44	33	42	42	38		489	41					5
6	34	39	29	35	48	44	45	37	38	40	35	31		455	38					6
7	45	39	30	41	33	34	26	39	28	38	31	30		414	34					7
8	39	34	44	46	36	37	37	37	34	39	37	38		458	38					8
9	44	43	44	33	33	49	42	44	39	41	47	51		510	42					9
10	47	43	48	47	51	40	49	50	39	35	46	37		532	44					10
11	38	46	44	36	30	36	40	34	29	39	42	41		455	38					11
12	36	43	44	45	55	44	29	30	36	28	37	33		460	38					12
13	45	49	45	43	37	37	37							(293)	(42)	7				13
14																				14
15																				15
16																				16
17								45	51	49	49	43		(237)	(47)	5				17
18	44	54	44	48	53	57	54	46	46	54	54	39		593	49					18
19	47	47	49	45	48	44	54	50	51	47	41	53		576	48					19
20	53	52	58	54	54	41	48	50	39	42	45	48		584	49					20
21	45	55	45	51	47	42	48	34	44	54	38	46		549	46					21
22	41	43	50	35	47	47	41	43	46	36	40	36		505	42					22
23	39	37	39	49	40	44	33	33	33	35	44	44		470	39					23
24	39	37	48	38	44	40	34	32	43	45	52	43		495	41					24
25	42	49	50	50	51	51	42	47	46	40	48	42		558	46					25
26	30	52	45	45	41	50	49	53	42	47	40	37		531	44					26
27	41	45	44	50	44	43	48	47	47	52				(461)	(46)	10				27
28								56	55	62	55	62		(290)	(58)	5				28
29	49	60	61	55	43	43	57	56	49	48	46	53		620	52					29
30	54	56	53	58	57	52	54	56	49	54	55	58		656	55					30
31	47	60	54	55	51	53	55	47	44	51	44	54		615	51			DAYS		MEAN 31
*Sum	1013	1095	1088	1070	1050	1050	1007	1026	954	1004	1034	1030		12421	1033	COMPLETE		24	=	43.0
*Mean	42.2	45.6	45.3	44.6	43.8	43.8	42.0	42.8	39.8	41.8	43.1	42.9	→	517.7	→	COMPLETE		24	=	43.1
															1226●	ALL		28	=	43.8

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

TABLE 129 — SEPTEMBER 1954

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	49	58	47	49	54	47	52	48	54	52	45	58		613	51						1
2	54	57	41	46	45	48	51	44	41					(427)	(47)	9					2
3	58	72	56	48	58	54	52	47	43			47		(535)	(54)	10					3
4	40	50	55	44	52	50	46	54	50	48	53	55		597	50						4
5	39	62	63	59	51	52	51	56	48	46	51	58		636	53						5
6	55	60	49	66	61	52	54	54	62	42	45	56		656	55						6
7	48		42	46	37	43	42							(258)	(43)	6					7
8								41	50	40	45	42		(218)	(44)	5					8
9	44	52	38	48	44	47	46	52	48	50	49	43		561	47						9
10	49	47	59	49	52	58	51	52	42	42	49	46		596	50						10
11	53	48	49	51	47	53	54	46	54	45	39	45		584	49						11
12	56	50	47	44	50	48	56	46	45	46	47	53		588	49						12
13	59	54	49	55	54	58	53	50	56	57	57	61		663	55						13
14	58	66	56	58	57	61	64	63	62	60	65	63		733	61						14
15	63	72	70	65	73	80	66	65	73	68	66	60		821	68						15
16	78	70	68	68	73	70	70	66	72	78	79	76		868	72						16
17	72	62	65	69	71	63	68	64	63	73	58	70		798	66						17
18	62	59	66	63	63	71	61	58	60	59	65	66		753	63						18
19	64	64	59	63	68	62	67	65	59	63	72	71		777	65						19
20	67	74	59	64	67	66	65	66						(528)	(66)	8					20
21										58	61	54		(173)	(58)	3					21
22	55	64	64	62	59	53	60	70	72	64	68	65		756	63						22
23	64	68	69	60	54	65	63	67	66	69	63	69		777	65						23
24	66	70	77	70	59	63	66	58	64	70	71	59		793	66						24
25	68	63	68	72	64	66	67				76	80		(624)	(69)	9					25
26	58	62	64	57	66	62	60	56	75	65	77	72		774	64						26
27	69	74	73	72	71	56	60	68	63	65	68	48		787	66						27
28	60	68	61	59	59	67	72	71	59					(576)	(64)	9					28
29					76	56	68	58	69	60	64	67		(518)	(65)	8					29
30	66	62	65	68	65	71	64		66	77	65	67		(736)	(67)	11					30
31																		DAYS		MEAN	31
*Sum	1153	1212	1187	1172	1179	1171	1168	1158	1188	1162	1187	1194		14131	1178•	COMPLETE		20	=	58.9	
*Mean	57.6	60.6	59.4	58.6	59.0	58.6	58.4	57.9	59.4	58.1	59.4	59.7	→	706.7	→	COMPLETE		20	=	58.9	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1755•	ALL		30	=	58.5	

GODHAVN MAGNETIC OBSERVATORY

OCTOBER 1954

TABLE 130

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	65	59	62	77	62	75	68	69	72	58	59	71		797	66						1
2	70	75	82	77	66	75	69	76	68	77	70	80		885	74						2
3	68	75	73	71	64	68	70	70	72	70	68	80		849	71						3
4	74	69	76	68	79	78	66	73	78	70	70	84		885	74						4
5	71	69	71	76	64	73	75	76	75	83	68	59		860	72						5
6	78	73	73	74	75	77	71	77	77	70	72	72		889	74						6
7	64	76	76	68	63	70	70	70	72	73	81	88		871	73						7
8	80	79	84	81	86	80	88	80	81	85	87	93		1004	84						8
9	87	89	89	88	80	93	85	78	85	82	84	89		1029	86						9
10	87	89	81	84	85	87	80	81	80	76	87	84		1001	83						10
11	78	98	86	81	89	84	80	82	88	76	82	77		1001	83						11
12	77	69	72	76	73	66	73	75	73	74	74	75		877	73						12
13	68	82	84	75	84	73	77	79	79	69	70	76		916	76						13
14	66	86	68	76	70	68	64	66	65	73	66	68		836	70						14
15	78	69	63	62	71	64	68	75	73	63	69	63		818	68						15
16	61	59	56	57	45	52	60	55	54	54	54	60		667	56						16
17	63	58	57	71	71	58	64	61	63	67	81	71		785	65						17
18	67	67	59	71	67	72	70	72	78	81	71	84		859	72						18
19	73	74	84	77	74	84	71	72	85	68	73	76		911	76						19
20	76	82	72	74	69	75	70	69	80	75	67	71		880	73						20
21	78	80	82	72	79	78	69	71	80	68	66	59		882	74						21
22	69	63	63	66	67	70	66	67	61	65	64	56		777	65						22
23	57	73	67	73	75	68	68	66	74	75	73	69		838	70						23
24	65	78	67	67	80	74	80	93	81	75	83	83		926	77						24
25	83	83	88	80	78	91	88	85	90	76	85	87		1014	84						25
26	82	80	80	83	84	91	87	92	94	75	93	82		1023	85						26
27	90	83	91	86	92	81	82	88	80	86	87	82		1028	86						27
28	96	87	83	88	81	82	77	77	82	76	76	90		995	83						28
29	80	84	86	85	77	81	81	88	83	84	79	84		992	83						29
30	84	86	79	87	80	81	74	81	76	75	77	79		959	80						30
31	73	86	80	84	78	84	76	75	77	83	83	84		963	80			DAYS		MEAN	31
*Sum	2308	2380	2334	2355	2308	2353	2287	2339	2376	2282	2319	2376		28017	2336•	COMPLETE		31	=	75.4	
*Mean	74.5	76.8	75.3	76.0	74.5	75.9	73.8	75.5	76.6	73.6	74.8	76.6	→	903.9	→	COMPLETE		31	=	75.3	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

GODHAVN MAGNETIC OBSERVATORY

TABLE 131 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

NOVEMBER 1954

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	71	84	82	75	93	76	72	79	87	76	74	76		945	79						1
2	87	70	85	91	77	84	88	79	89	83	87	92		1012	84						2
3	90	93	92	99	106	90	94	79	92	94	94	90		1113	93						3
4	88	88	89	89	77	86	80	82	83	86	86	77		1011	84						4
5	78	88	85	81	86	86	87	97	100	99	83	98		1068	89						5
6	99	101	102	104	102	98	100	96	97	99	108	99		1205	100						6
7	99	106	102	101	120	110	109	103	103	108	98	104		1263	105						7
8	112	108	95	107	100	102	100	105	95	100	102	105		1231	103						8
9	101	104	103	110	98	106	107	105	100	106	101	107		1248	104						9
10	109	103	105	102	100	104	101	98	97	101	99	100		1219	102						10
11	109	90	103	96	99	107	103	99	110	99	105	96		1216	101						11
12	96	102	103	95	92	90	95	104	92	98	96	89		1152	96						12
13	88	89	89	81	86	85	88	96	90	82	92	87		1053	88						13
14	90	84	91	86	91	94	91	98	101	95	107	97		1125	94						14
15	102	96	102	90	101	100	86	85	98	95	87	96		1138	95						15
16	94	94	94	93	97	85	95	102	97	107	111	106		1175	98						16
17	104	100	116	114	115	109	102	108	102	89	98	91		1248	104						17
18	99	93	99	90	106	92	106	101	82	94	98	87		1147	96						18
19	98	91	88	98	88	101	93	95	94	90	97	99		1132	94						19
20	89	96	95	92	95	91	93	94	96	100	92	94		1127	94						20
21	87	100	83	97	92	92	89	83	83	101	85	87		1079	90						21
22	85	92	93			94	90	96	80	99	82	84		(895)	(90)	10					22
23	97	84	82	96	96	92	88	98	90	83	88	83		1077	90						23
24	74	80	84	88	80	84	79	82	84	82	73	83		973	81						24
25	90	78	81	85	74	79	86	73	86	84	78	86		980	82						25
26	79	94	86	89	90	92	85	71	79	85	92	89		1031	86						26
27	79	83	88	93	85	81	86	90	85	81	85	94		1030	86						27
28	79	81	76	86	83	80	83	77	83	86	85	86		985	82						28
29	77	80	90	91	81	91	84	81	80	71	83	90		999	83						29
30	75	95	84	82	73	75	79	85	82					(430)	(81)	9					30
31																		DAYS		MEAN	31
*Sum	2565	2560	2590	2619	2610	2587	2570	2560	2575	2574	2584	2588		30982	2583•	COMPLETE		28	=	92.2	
*Mean	91.6	91.4	92.5	93.5	93.2	92.4	91.8	91.4	92.0	91.9	92.3	92.4	→	1106.4	→	COMPLETE		28	=	92.2	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														2754•	ALL		30	=	91.8	

GODHAVN MAGNETIC OBSERVATORY

DECEMBER 1954

TABLE 132

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	78	76	79	79	92	80	77	91	85	93	85	88		1003	84					1
2	91	95	87	94	98	92	88	101	93	101	104	100		1144	95					2
3	101	98	97	101	94	101	100	101	103	99	102	100		1197	100					3
4	96	97	97	97	92	100	91	93	90	99	89	90		1131	94					4
5	98	84	91	87	82	84	87	86	97	89	89	91		1065	89					5
6	90	98	95	91	93	93	92	95	91	96	87	96		1117	93					6
7	93	91	95	93	96	89	103	94	93	95	83	105		1130	94					7
8	95	90	94	95	90	93	88	93	89	79	90	85		1081	90					8
9	92	89	90	87	94	90	87	95	96	98	100	91		1109	92					9
10	114	99	100	105	103	104	103	101	103	121	105	103		1261	105					10
11	110	110	114	109	106	104	114	122	108	110	110	118		1335	111					11
12	119	110	114	112	118	122	120	122	116	123	124	117		1417	118					12
13	119	117	128	118	130	121	134	117	128	113	112	115		1452	121					13
14	110	116	119	99	115	105	109	110	108	108	104	112		1315	110					14
15	102	108	102	98	104	99	102	113	106	110	104	106		1254	104					15
16	95	97	104	98	103	109	99	99	94	99	97	102		1196	100					16
17	88	97	100	108	93	103	100	93	94	97	96	94		1163	97					17
18	84	87	91	100	92	94			91	96	102	90		(927)	(93)	10				18
19	81	85	94	88	91	90	91	92	89	87	88	91		1067	89					19
20	90	96	100	97	93	96	103	101	101	98	107	99		1181	98					20
21	87	92	94	96	93	99	104	95	98	97	94	95		1144	95					21
22	90	86	93	96	97	95	91	86	88	88	75	90		1075	90					22
23	90	82	87	83	89	104	91	95	91	92	89	90		1083	90					23
24	92	90	94	92	95	94	87	91	96	93	87	93		1104	92					24
25	86	96	93	90	98	93	90	95	97	88	106	99		1131	94					25
26	102	94	101	94	103	97	99	92	106	106	100	103		1197	100					26
27	99	107	98	106	106	111			104	101	104	104		(1040)	(104)	10				27
28	104	112	105	105	101	103	104	113			101	107		(1055)	(106)	10				28
29	108	108	113	106	100	114	114	108	111	100	110	97		1289	107					29
30	95	106	109	109	99	99	98	104	92	104	84	99		1198	100					30
31	88	109	97	91	103	102	95	92	99	99	85	96		1156	96			DAYS		MEAN 31
Sum*	2700	2716	2781	2713	2764	2772	2757	2777	2762	2782	2706	2765		32995	2748•	COMPLETE		28	=	98.1
Mean*	96.4	97.0	99.3	96.9	98.7	99.0	98.5	99.2	98.6	99.4	96.6	98.8	→	1178.4	→	COMPLETE		28	=	98.2
															305•	ALL		31	=	98.4

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

JANUARY 1955

TABLE 133

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	86	92	90	96	85	98	88	92	85	90	91	86		1079	90						1
2	87	85	78	85	85	82	80	83	80	77	82	85		989	82						2
3	83	84	74	84	78	71	69	73	75	73	72	72		908	76						3
4	78	66	58	57	74	65	69	68	64	66	62	62		789	66						4
5	65	61	64	70	61	61	67	70	58	69	59	58		763	64						5
6	59	69	66	57	60	64	62	64	63	65	65	67		761	63						6
7	61	58	50	53	59	67	55	63	58	63	56	60		703	59						7
8	51	55	56	53	51	50	44	65	52	64	59	57		657	55						8
9	69	56	58	64	62	55	71	71	67	80	63	60		776	65						9
10	61	66	58	70	61	67	62	65			65	55		(630)	(63)	10					10
11	56	48	55	60	60	58	64	74	63	74	54	75		741	62						11
12	64	72	47	60	52	64	45	65	69	59	54	63		714	60						12
13	51	64	42	58	63	63	67	60	62	67	64	57		718	60						13
14	60	64	61	61	61	59	70	64	63	66	56	59		744	62						14
15	65	61	75	69	64	65	62	71	65	68	67	60		792	66						15
16	74	75	58	57	67	62	78	70	70	76	67	65		819	68						16
17	57	69	73	60	67	61	62	62	66	61	63	55		756	63						17
18	53	75	63	72	76	74	80	78	70	73	67	62		843	70						18
19	73	70	67	65	78	83	78	84	89	76	80	82		925	77						19
20	79	76	84	80	82	86	89	82	89	95	82	86		1010	84						20
21	88	84	82	81	92	96	97	84	82	83	88	84		1041	87						21
22	82	82	82	85	85	83	82	88	78	93	81	70		991	83						22
23	90	87	82	86	86	84	77	86	84	86	87	87		1022	85						23
24	90	91	81	85	79	85	85	86	79	92	79	82		1014	84						24
25	86	88	69	91	85	80	84	88	86	81	85	89		1012	84						25
26	83	81	87	88	77	95	80	91	85	87	87	85		1026	86						26
27	81	73	86	85	88	85	73							(571)	(82)	7					27
28								85	87	79	77	81		(409)	(82)	5					28
29	77	79	79	82	81				81	87	80	62		(708)	(79)	9					29
30	78	81	79	74	69	73	74	79	68	66	71	74		886	74						30
31	69	76	81	75	74	70	73	66	62	67	68	73		854	71			DAYS		MEAN	31
Sum*	1937	1970	1862	1926	1932	1954	1952	2027	1932	2017	1909	1915		23333	1946•	COMPLETE		27	=	72.1	
Mean*	71.7	73.0	69.0	71.3	71.6	72.4	72.3	75.1	71.6	74.7	70.7	70.9	→	864.3	→	COMPLETE		27	=	72.0	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														2252•	ALL		31	=	72.6	

GODHAVN MAGNETIC OBSERVATORY

FEBRUARY 1955

TABLE 134 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	69	66	70	80	70	70	78	68	69	74	74	71		859	72						1
2	62	75	60	68	65	67	67	70	75	78	73	78		838	70						2
3	71	77	74	80	80	80	85	81	82	77	78	78		943	79						3
4	71	77	78	84	79	78	88	84	95	85	74	81		974	81						4
5	80	90	85	83	89	82	85	89	88	88	82	88		1029	86						5
6	82	86	94	89	89	78	85	83	84	81	85	76		1012	84						6
7	84	80	73	87	78	79	79	89	78	85	80	81		973	81						7
8	82	88	88	80	83	83	85	88	79	75	86	79		996	83						8
9	79	85	87	86	79	85	70	76	78	78	75	78		956	80						9
10	68	69	66	68	62	65	70	82	75	68	57	67		817	68						10
11	72	66	72	66	76	68	77	68	77	79	70	74		865	72						11
12	75	71	75	69	76	74	67	78	75	67	76	67		870	72						12
13	76	71	63	62	63	70	67	68	60	68	73	69		810	68						13
14	68	65	71	65	64	73	63	62	60	68	58	62		779	65						14
15	53	56	55	59	57	65	61	64	64	60	68	67		729	61						15
16	58	60	59	58	52	56	53	66	64	55	52	56		689	57						16
17	57	65	54	48	67	56	63	54	54	65	66	59		708	59						17
18	70	65	72	77	71	70	73	73	79	68	68	72		858	72						18
19	70	64	81	81	76	85	73	78	74	70	78	74		904	75						19
20	81	72	68	68	87	69	78	84	71	68	85	79		910	76						20
21	72	83	86	90	80	80	89	88	89	92	81	78		1008	84						21
22	83	77	87	90	83	75	85	94	85	76	85	92		1012	84						22
23	81	87	85	81	96	92	89	92	88	84	75	84		1034	86						23
24	84	89	81	76	80	79	74	76	88	74	79	83		963	80						24
25	78	74	77	84	74	86	87	77	84	83	84	80		968	81						25
26	73	84	75	86	82	86	82	80	80	83	78	72		961	80						26
27	81	82	74	92	82	94	93	94	87	90	89	82		1040	87						27
28	94	85	87	91	85	88	91	91	92	84	81	91		1060	88						28
29																					29
30																					30
31																		DAYS		MEAN	31
*Sum	2074	2109	2097	2148	2125	2133	2157	2197	2174	2123	2110	2118		25565	2131•	COMPLETE		28	=	76.1	
*Mean	74.1	75.3	74.9	76.7	75.9	76.2	77.0	78.5	77.6	75.8	75.4	75.6	→	913.0	→	COMPLETE		28	=	76.1	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

GODHAVN MAGNETIC OBSERVATORY

TABLE 135 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

MARCH 1955

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	94	85	94	92	79	94	88	93	93	93	92	85		1082	90					1
2	90	84	87	91	91	90	94	95	84	93	91	92		1082	90					2
3	95	77	94	95	82	82	85	81	91	93	93	89		1057	88					3
4	87	84	83	79	87	94	90	88	93	94	87	91		1057	88					4
5	82	84	84	86	88	81	92	84	79	95	77	75		1007	84					5
6	85	84	90	94	86	93	86	81	82	90	85	89		1045	87					6
7	81	80	83	93	83	79	76	90	86	92	83	85		1011	84					7
8	75	87	80	87	72	84	80	72	86	83	91	79		976	81					8
9	88	83	96	87	83	94	92	96	85	96	91	94		1085	90					9
10	90	90	88	99	93	97	101	91	90	106	97	94		1136	95					10
11	92	98	96	85	90	97	94	91	99	91	91	86		1110	92					11
12	93	96	90	98	99	92	85	90	84	93	82	89		1091	91					12
13	89	83	92	92	95	99	92	84	90	96	94	94		1100	92					13
14	89	90	85	89	85	91	88	92	86	88	85	89		1057	88					14
15	85	85	94	82	78	90	93	84	85	79	80	92		1027	86					15
16	89	76	82	82	86	77	76	86	81	70	74	65		944	79					16
17	73	76	79	77	76	67	76	72	70	77	64	63		870	72					17
18	61	67	68	57	60	58	57	60	58	67	57	57		727	61					18
19	61	64	62	58	64	57	59	50	57	65	69	65		731	61					19
20	55	70	62	52	55	66	55	61	67	64	62	63		732	61					20
21	62	72	63	62	73	69	78	66	80	81	68	80		854	71					21
22	73	81	81	88	78	85	80	72	72	77	79	75		941	78					22
23	78	75	72	86	85	74	87	78	84	84	80	78		961	80					23
24	69	79	79	82	84	80	79	80	78	86	87	88		971	81					24
25	77	91	91	87	75	90	94	81	94	91	79	87		1037	86					25
26	82	78	86	81	69	80	82	78	75	78	77	69		935	78					26
27	71	75	71	69	80	80	68	70	73	76	66	68		867	72					27
28	67	73	72	73	81	81	84	77	77	78	79	81		923	77					28
29	76	73	69	72	76	80	82	83	80	79	87	82		939	78					29
30	75	81	73	68	78	71	74	81	76	72	76	79		904	75					30
31	60	73	73	68	72	69	72	71	77	72	66	74		847	71			DAYS		MEAN 31
*Sum	2444	2494	2519	2511	2483	2541	2539	2478	2512	2599	2489	2497		30106	2509 •	COMPLETE		31	=	80.9
*Mean	78.8	80.5	81.3	81.0	80.1	82.0	81.9	80.0	81.0	83.8	80.3	80.5	→	971.2	→	COMPLETE		31	=	80.9
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=	

GODHAVN MAGNETIC OBSERVATORY

APRIL 1955

TABLE 136

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	76	73	82	80	63	68	78	74	70	74	71	68		877	73						1
2	66	71	75	84	75	78	84	71	74	80	83	82		923	77						2
3	85	83	75	80	88	81	86	88	80	79	83	79		987	82						3
4	80	84	81	88	82	97	91	85	98	82	79	77		1024	85						4
5	85	68	83	81	83	83	82	90	84	77	85	87		988	82						5
6	84	84	93	79	78	80	87	86	82	81	78	76		988	82						6
7	78	76	92	83	76	81	87	79	75	84	76	76		963	80						7
8	79	76	71	68	80	76	79	72	70	84	76	76		907	76						8
9	75	72	83	67	65	82	77	72	85	73	76	70		897	75						9
10	72	76	84	78	79	78	81	82	83	81	82	84		960	80						10
11	81	82	83	78	90	83	77	70	80	76	79	91		970	81						11
12	83	75	76	87	79	82	86	90	84	74	80	82		978	82						12
13	80	78	76	83	81	77	74	78	76	80	75	74		932	78						13
14	78	75	76	79	73	79	88	80	77	79	83	75		942	78						14
15	73	71	72	72	72	76	88	72	72	70	74	68		880	73						15
16	67	70	78	69	72	69	74	78	63	73	64	74		851	71						16
17	68	54	65	73	71	72	64	70	72	74	75	69		827	69						17
18	65	61	72	66	61	66	63	64	65	56	61	63		763	64						18
19	52	53	59	60	65	59	56	54	61	51	51	51		672	56						19
20	49	57	53	53	55	58	54	51	47	55	53	55		640	53						20
21	52	57	58	61	53	57	63	50	52	60	56	70		689	57						21
22	58	64	68	63	62	58	56	61	61	54	74	74		753	63						22
23	62	80	64	65	74	66	69	73	67	73	68	67		828	69						23
24	75	66	73	75	76	66	73	77	74	83	72	72		882	74						24
25	77	73	74	78	68	71	66	74	80	76	71	76		884	74						25
26	80	77	75	75	66	71	70	78	68	75	81	79		895	75						26
27	74	71	75	65	72	74	63	70	78	71	77	75		865	72						27
28	67	72	73	66	76	71	69	73	71	69	71	69		847	71						28
29	72	62	61	70	65	63	69	55	62	53	65	68		765	64						29
30	65	67	62	63	67	70	78	74	71	64	76	63		820	68						30
31																		DAYS		MEAN	31
*Sum	2158	2128	2212	2189	2167	2192	2232	2191	2182	2161	2195	2190		26197	2184•	COMPLETE		30	=	72.8	
*Mean	71.9	70.9	73.7	73.0	72.2	73.1	74.4	73.0	72.7	72.0	73.2	73.0	→	873.1	→	COMPLETE		30	=	72.8	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

GODHAVN MAGNETIC OBSERVATORY

TABLE 137 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

MAY 1955

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	61	62	56	64	71	70	57	63	64	66	63	55		752	63						1
2	59	65	63	55	60	54	58	63	58	59	53	68		715	60						2
3	60	63	61	57	62	57	50	59	64	55	63	62		713	59						3
4	57	75	66	64	68	61	48	64	56	74	60	60		753	63						4
5	61	54	57	57	62	68	70	67	60	60	59	63		738	62						5
6	67	59	62	64	60	68	62	66	55	63	60	53		739	62						6
7	56	48	66	57	56	65	62	54	66	63	59	58		710	59						7
8	47	47	64	49	60	53	61	56	48	56	50	52		643	54						8
9	49	47	50	49	50	47	60	44	44					(440)	(49)	9					9
10								64	60	49	50	57		(280)	(56)	5					10
11	59	58	57	50	55	69	52	57	57	53	58	52		677	56						11
12	51	55	59	56	49	60	54	61	44	51	45	52		637	53						12
13	52	48	46	49	52	49	50	48	47	44	40	39		564	47						13
14	44	45	45	41	37	42	44	52	46	52	42	46		536	45						14
15	51	49	39	53	60	53	60	59	54	48	50	56		632	53						15
16	57	57	63	66	57	62	56	58	61	52	60	55		704	59						16
17	52	54	56	48	54	53	58	57	56	50	50	52		640	53						17
18	50	50	52	50	48	52	52	40	52	44	60	45		595	50						18
19	46	62	54	54	50	56	48	50	48	50	47	49		614	51						19
20	58	53	53	48	50	56	54	53	55	59	60	59		658	55						20
21	56	62	56	60	54	57	58	49	64	58	56	60		690	58						21
22	54	62	56	62	70	64	52	60	58	56	61	58		713	59						22
23	59	61	68	72	64	62	60	62	60	59	55	59		741	62						23
24	67	61	53	63	57	61	58	61	64	60	49	61		715	60						24
25	53	56	47	57	55	57	58	65	56	64	52	53		673	56						25
26	44	54	52	61	60	57	54	57	52	52	56	62		661	55						26
27	47	55	52	45	51	52	51	58	51	45	57	48		612	51						27
28	53	55	53	55	45	49	54	60	52	61	51	42		630	52						28
29	48	54	47	61	61	55	58	52	70	50	58	68		682	57						29
30	60	52	55	60	58	64	52	61	55	62				(579)	(58)	10					30
31		56	62	56	40	39	54	59	53	44	55	44		(562)	(51)	11		DAYS		MEAN	31
Sum*	1469	1524	1503	1518	1528	1562	1499	1551	1518	1504	1474	1487		18137	1514•	COMPLETE		27	=	56.1	
Mean*	54.4	56.4	55.7	56.2	56.6	57.9	55.5	57.4	56.2	55.7	54.6	55.1	→	671.7	→	COMPLETE		27	=	56.0	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1728•	ALL		31	=	55.7	

GODHAVN MAGNETIC OBSERVATORY

JUNE 1955

TABLE 138

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	52	52	50	45	39	50	56	55	50	49	42	45		585	49						1
2	40	50	43	50	43	53	40	43	48	39	35	45		529	44						2
3	41	38	38	35	35	34	31	41	44	28	32	40		437	36						3
4	30	40	35	22	40	32	35	31	39	38	39	42		423	35						4
5	44	32	41	36	31	39	32	36	42	38	36	42		449	37						5
6	37	45	53	40	40	47	42	38	43	39	32	35		491	41						6
7	37	42	33	32	25	25	31	40	36	29	34	38		402	34						7
8	35	32	37	39	33	44	37	35	45	37	31	35		440	37						8
9	38	37	30	36	33	37	37	36	30	41	36	44		435	36						9
10	38	48	52	49	40	43	45	45	46	46	46	50		548	46						10
11	59	46	47	55	50	48	58	51	44	49	42	57		606	50						11
12	41	56	49	56	47	56	60	49	51	52	52	50		619	52						12
13	41	52	54	47	49	50	53	53	49	54	50	50		602	50						13
14	54	47	45	59	48	53	55	56	40	64	56	47		624	52						14
15	48	41	44	42	45	53	45	50	49	41	48	48		554	46						15
16	34	37	47	41	52	49	42	48	41	37	39	41		508	42						16
17	42	41	43	46	65	45	58	40	46	44	56	44		570	48						17
18	45	46	43	44	40	47	40	41	39	40	33	51		509	42						18
19	35	38	49	42	43	39	37	42	44	37	37	39		482	40						19
20	41	50	42	44	40	45					44	43		(349)	(44)	8					20
21	49	39	46	48	44	44	47	53	42	46	37	42		537	45						21
22	38	42	43	40	41	32	36	37	42	44	46	54		495	41						22
23	44	55	49	50	52	54	53	49	43	56	42	48		595	50						23
24	59	59	49	53	56	48	52	58	56	55	59			(604)	(55)	11					24
25		57	63	55	52	61	57	65	63	58	62	67		(660)	(60)	11					25
26	69	50	55	59	50	56	56	58	50	52	57	60		672	56						26
27	52	59	56	59	51	50	60	64	54	50	57	58		670	56						27
28	60	61	61	57	59	58	61	55	64	57	56	56		705	59						28
29	53	57	61	52	54	52	54	56	47	46	43	56		631	53						29
30	58	46	51	46	48	51	49	53	42	47	45	40		576	48						30
31																		DAYS		MEAN	31
Sum*	1214	1229	1255	1227	1197	1241	1250	1255	1210	1200	1159	1257		14694	1225•	COMPLETE		27	=	454	
Mean*	45.0	45.5	46.5	45.4	44.3	46.0	46.3	46.5	44.8	44.4	42.9	46.6	→	544.2	→	COMPLETE		27	=	45.4	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1387•	ALL		30	=	46.1	

TABLE 139

GODHAVN MAGNETIC OBSERVATORY

JULY 1955

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	47	56	48	42	54	52	41	43	56	50	42	42		573	48						1
2	40	53	39	40	34	45	47	41	44	43	46	48		520	43						2
3	45	40	44	52	47	45	38	45	41	46	49	48		540	45						3
4	46	55	43	41	42	48	52	47	55	48	55	63		595	50						4
5	50	52	56	54	54	54	56	54	50	48	48	48		624	52						5
6	52	54	53	49	52	53	45	44	50	47	59	51		609	51						6
7	41	54	44	48	52	45	50	45	49	48	42	53		571	48						7
8	52	44	46	46	54	47	48	54	51	45	47	51		585	49						8
9	55	51	47	49	50	46	49	51	50	47	53	44		592	49						9
10	48	46	48	56	44	52	56	54	49	53	50	57		613	51						10
11	40	49	60	53	58	52	58	60	60					(490)	(54)	9					11
12		56	44	53	62	54	53	53	43	44	52	53		(567)	(52)	11					12
13	50	56	50	43	54	48	51	45	48	52	53	56		606	50						13
14	50	44	49	47	45	52	50	54	49	43	45	40		568	47						14
15	46	43	43	41	51	51	50	51	44	47	50	47		564	47						15
16	38	46	41	45	49	55	51	55	54	47	58	52		591	49						16
17	42	54	52	53	51	50	54	59	53	49	46	52		615	51						17
18	50	44	57	60	55	56	51	55	61	50	54	55		648	54						18
19	57	58	54	52	55	45	65	49	65	50	52	55		657	55						19
20	65	55	67	45	61	49	46	59	51	65	47	54		664	55						20
21	58	57	58	49	60	58	52	61	51	57	51	67		679	57						21
22	53	51	52	57	62	60	59	52	53	55	44	58		656	55						22
23	53	46	47	48	49	47	47	48	46	38	43	47		559	47						23
24	49	45	43	46	52	51	48	48	58	56	54	58		608	51						24
25	57	50	54	52	51	44	50	52	45	54	45	52		606	50						25
26	47	47	48	41	43	40	30	39	46	46	49	45		521	43						26
27	46	46	43	37	36	48	45	33	36	35	41	39		485	40						27
28	44	42	43	43	41	42	51	45	38	40	40	48		517	43						28
29	41	48	44	41	41	42	46	46	43	42	40	34		508	42						29
30	49	39	48	42	39	41	48	34	41	31	32	42		486	40						30
31	39	47	48	30	40	40	38	38	40	46	40	51		497	41			DAYS		MEAN	31
*Sum	1410	1423	1409	1349	1418	1406	1414	1401	1417	1378	1375	1457		16857	1403•	COMPLETE		29	=	48.4	
*Mean	48.6	49.1	48.6	46.5	48.9	48.5	48.8	48.3	48.9	47.5	47.4	50.2	→	581.3	→	COMPLETE		29	=	48.4	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1509•	ALL		31	=	48.7	

GODHAVN MAGNETIC OBSERVATORY

TABLE 140 — AUGUST 1955

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	42	34	45	42	42	42	39	41	42	37	40	37		483	40					1
2	38	42	40	51	49	37	37	45	43	38	39	41		500	42					2
3	38	44	43	40	45	47	47	43	44	40	41	39		511	43					3
4	37	42	33	38	38	28	48	26	39	41	30	39		439	37					4
5	36	39	32	39	33	40	41	38	37	29	34	35		433	36					5
6	30	36	28	37	29	36	27	42	37	45	42	47		436	36					6
7	41	35	49	39	40	41	49	43	49	46	47	41		520	43					7
8	54	50	41	46	48	52	56	51	53	51	53	46		601	50					8
9	42	46	50	40	57	56	44	49	49	56	58	45		592	49					9
10	50	57	52	58	54	48	44	43	43	35	43	41		568	47					10
11	43	43	43	51	41	35	40	44	37	44	39	35		495	41					11
12	47	45	39	43	52	52	39	31	49	40	38	38		513	43					12
13	42	37	33	45	44	39	44	46	31	34	33	37		465	39					13
14	43	29	37	29	43	41	47	35	40	46	36	51		477	40					14
15	39	53	40	48	49	54	39	55	45	51	53	53		579	48					15
16	49	53	54	57	43	47	57	48	55	50	49	57		619	52					16
17	44	61	64	62	59	59	57	48	54	54	60	59		681	57					17
18	61	60	45	54	64	49	58	57	63	57	56	52		676	56					18
19	65	62	61	61	50	61	61	56	52	58	56	54		697	58					19
20	43	65	56	61	64	55	49	57	53	56	50	45		654	54					20
21	62	63	61	57	58	50	52	50	56	48	53	51		661	55					21
22	51	57	60	58	60	51	48	37	50	49	50	52		623	52					22
23	56	61	52	47	53	58	51	54	55	41	51	56		635	53					23
24	54	63	58	66	61	50	47	48	51	54	52	57		661	55					24
25	54	58	62	55	59	54	58	51	44	56	52	52		655	55					25
26	55	51	55	60	52	57	53	48	47	47	48	55		628	52					26
27	53	65	59	50	51	42	53	63	51	54	49	52		642	54					27
28	46	56	47	62	51	52	48	56	51	42	46	40		597	50					28
29	45	52	38	48	43	38	35	50	48	42	48	49		536	45					29
30	34	36	39	42	38	35	39	47	42	45	48	41		486	40					30
31	57	38	26	41	38	37	41	38	42	40	52	52		502	42			DAYS		MEAN 31
Sum*	1451	1533	1442	1527	1508	1443	1448	1440	1452	1426	1446	1449		17565	1464●	COMPLETE		31	=	47.2
Mean*	46.8	49.5	46.5	49.3	48.6	46.5	46.7	46.5	46.8	46.0	46.6	46.7	→	566.5	→	COMPLETE		31	=	47.2
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM														●	ALL			=	

GODHAVN MAGNETIC OBSERVATORY SEPTEMBER 1955

TABLE 141 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	35	50	40	41	44	45	50	47	48	44	42	44		530	44						1
2	56	47	51	49	56	52	56	63	72	57	63	77		699	58						2
3	70	63	74	66	60	56	71	69	67	63	57	60		776	65						3
4	65	65	64	71	61	68	61	64	77	62	68	64		790	66						4
5	77	70	74	71	74	69	72	65	67	70	66	59		834	70						5
6	65	56	63	66	60	57	61	63	63	60	66	72		752	63						6
7	65	65	62	76	67	56	57	54				51		(553)	(61)	9					7
8	66	66	62	61	64	56	66				57	53		(551)	(61)	9					8
9			64	58	64	60	67	64	54	60	67	63		(621)	(62)	10					9
10	75	63	72	62	65	64			70	66				(537)	(67)	8					10
11		63	57				59	57				66		(302)	(60)	5					11
12	48	57		66	61	52	60	59	54	51	61	55		(624)	(57)	11					12
13	56	53	50	58	54	53	52	54	60	59	60	58		667	56						13
14	59	61	62	52	52	57	59	56	55	62	65	57		697	58						14
15	52	60	65	55	63	66	62	63	58	57	60	48		709	59						15
16	64	42	56	50	48	54	51	62	58	61	53	47		646	54						16
17	62	52	57	53	51	56	54	55	54	49	52	56		651	54						17
18	62	60	50	55	51	59	55	59	55	59	51	47		663	55						18
19	54	48	50	55	53	60	49	55	51	54	47	48		624	52						19
20	51	57	60	48	54	58	45	49	52	62	49	60		645	54						20
21	55	52	51	57	54	60	56	63	48	60	51	63		670	56						21
22	55	73	58	58	57	60	60	64	57	61	55	51		709	59						22
23	53	59	56	56	53	56	59	54	53	65	60	56		680	57						23
24	69	54	64	65	61	56	65	62	65	62	67	63		753	63						24
25	67	68	61	64	58	52	60	68	68	74	64	62		766	64						25
26	71	72	65	77	55	64	72	84	74	73	74	69		850	71						26
27	63	62	63	72	60	62	70	73	66	64	73	66		794	66						27
28	61	64	64	70	65	72	59	61	73	62	66	59		776	65						28
29	63	70	60	64	60	59	63	75	63	55	67	54		753	63						29
30	56	51	59	56	55	52	60	49	56	53	51	58		656	55						30
31																		DAYS		MEAN	31
Sum*	1441	1409	1417	1429	1359	1403	1422	1477	1460	1448	1427	1398		17090	1427•	COMPLETE		24	=	59.5	
Mean*	60.0	58.7	59.0	59.5	56.6	58.5	59.2	61.5	60.8	60.3	59.5	58.2	→	711.8	→	COMPLETE		24	=	59.3	
															1795•	ALL		30	=	59.8	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

TABLE 142 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

OCTOBER 1955

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	57	59	53	52	57	58	50	53	53	49	55	46		642	54						1
2	53	62	61	55	49	63	60	58	63	68	57	65		714	60						2
3	61	73	54	66	74	75	65	71	70	67	71	58		805	67						3
4	61	67	63	69	65	62	62	61	65	73	61	52		761	63						4
5	60	59	59	64	65	59	65	63	68	63	65	56		746	62						5
6	63	53	60	59	60	62	62	54	59	63	55	61		711	59						6
7	57	61	53	60	62	66	58	60	60	55	54	59		705	59						7
8	52	56	50	47	49	55	47	48	57	46	51	50		608	51						8
9	44	47	54	46	53	43	50	48	43	48	45	47		568	47						9
10	49	49	52	54	48	54	46	47	54	48	52	53		606	50						10
11	64	48	40	50	50	50	54	43	51	49	44	50		593	49						11
12	57	47	43	44	47	49	53	44	44	42	59	54		583	49						12
13	48	41	51	49	45	51	46	46	46	46	46	41		556	46						13
14	37	31	36	33	37	41	41	46	37	38	43	44		464	39						14
15	43	46	41	37	36	43	42	42	41	34	44	43		492	41						15
16	43	41	32	42	35	44	43	37	52	38	39	43		489	41						16
17	40	41	41	33	40	51	40	43	47	39	45	42		502	42						17
18	49	48	44	43	49	42	57	42	39	43	45	51		552	46						18
19	39	51	53	53	51	55	57	54	56	56	51	64		640	53						19
20	61	65	66	57	67	73	64	67	70	73	73	68		804	67						20
21	78	77	67	73	80	71	75	68	70	71	73	78		881	73						21
22	74	80	88	75	80	70	70	79	74	68	71	72		901	75						22
23	70	72	74	74	72	74	76	72	62	71	75	63		855	71						23
24	63	70	71	67	69	65	55	66	57	62	61	60		766	64						24
25	60	60	61	56	45	52	49	53	46	55	44	48		629	52						25
26	40	42	36	47	41	34	46	42	42	37	43	36		486	40						26
27	44					42	49	49	46	53	43	57		(383)	(48)	8					27
28	58	50	53	55	51	52	55	54	47	54	53	64		646	54						28
29	54	53	52	60	52	59	54	53	49	52	52	62		652	54						29
30	56	54	59	65	53	55	52	57	59	59	48	51		668	56						30
31	54	55	55	59	52	52	53	69	55	67	57	55		683	57			DAYS		MEAN	31
Sum*	1645	1658	1622	1644	1634	1680	1647	1640	1636	1634	1632	1636		19708	164•	COMPLETE		30	=	54.7	
Mean*	54.8	55.3	54.1	54.8	54.5	56.0	54.9	54.7	54.5	54.5	54.4	54.5	→	657.0	→	COMPLETE		30	=	54.8	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1689•	ALL		31	=	54.5	

GODHAVN MAGNETIC OBSERVATORY NOVEMBER 1955

TABLE 143 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	55	59	63	58	61	70	75	61	61	62	67	65		757	63						1
2	69	68	75	65	56	70	66	60	59	64	56	71		779	65						2
3	71	71	64	74	69	62	55	60	53	56	50	57		742	62						3
4	52	58	67	67	64	60	67	66	58	60	67	70		756	63						4
5	65	64	61	62	67	65	63	63	69	70	71	77		797	66						5
6	61	76	70	73	68	62	80	70	74	72	74	77		857	71						6
7	77	68	67	77	76	72	76	73	63	69	70	75		863	72						7
8	71	76	72	77	80	75	77	78	78	76	81	79		920	77						8
9	86	69	70	69	76	73	84	83			85	81		(776)	(78)	10					9
10	87	74	71	73	70	78	76	85	86	87	75	66		928	77						10
11	73	70	82	74	77	74	84	70	77	77	86	86		930	78						11
12	72	83	86	90	94	85	90	95	93	84	91	85		1048	87						12
13	79	84	96	89	84	84	77	90	76	73	82	68		982	82						13
14	74	77	85	77	63	70	69	80	70	72	75	75		887	74						14
15	68	61	71	69	73	63	54	59	71	61	68	60		778	65						15
16	72	64	67	65	78	76	73	76	67	58	75	68		839	70						16
17	66	76	76	75	75	63	69	76	70	77	69	76		868	72						17
18	78	71	80	78	77	83	85	83	93	73	80	71		952	79						18
19	75	67	72	86	73	67	75	68	77	67	68	67		862	72						19
20	64	65	69	54	63	66	69	67	69	80	70	62		798	66						20
21	71	69	67	70	71	75	70	74	69	81	69	72		858	72						21
22	71	66	67	76	78	72	74	65	73	72	69	62		845	70						22
23	52	67	69	60	64	61	63	60	52	68	66	70		752	63						23
24	57	64	65	63	69	69	72	78	75	71	68	72		823	69						24
25	70	61	64	73	75	69	76	77	84	72	75	77		873	73						25
26	76	75	75	72	82	77	85	73	76	78	81	73		923	77						26
27	79	78	73	75	81	73	78	77	78	81	79	83		935	78						27
28	78	79	76	79	79	87	84	83	93	96	87	98		1019	85						28
29	91	103	92	92	90	94	92	94	98	92	105	91		1134	94						29
30	84	90	86	88	87	92	90	92	101	88	96	97		1091	91						30
31																		DAYS		MEAN	31
*Sum	2058	2084	2128	2131	2144	2114	2164	2153	2163	2137	2170	2150		2596	2133•	COMPLETE		29	=	73.6	
*Mean	71.0	71.9	73.4	73.5	73.9	72.9	74.6	74.2	74.6	73.7	74.8	74.1	→	882.6	→	COMPLETE		29	=	73.6	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														2211•	ALL		30	=	73.7	

GODHAVN MAGNETIC OBSERVATORY — DECEMBER 1955

TABLE 144 — COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	91	87	98	92	98	92	102	100	103	83	93	88		1127	94						1
2	97	100	98	97	103	101	106	103	93	96	93	96		1183	99						2
3	98	101	93	107	107	106	103	102	108	103	106	107		1241	103						3
4	98	107	108	98	104	105	108	99	108	102	105	116		1258	105						4
5	116	107	112	110	112	110	115	106	109	110	106	102		1315	110						5
6	109	103	93	94	81	76	73	78	92	79	75	75		1028	86						6
7	76	76	56	64	76	77	68	69	64	78	72	70		846	70						7
8	60	72	74	69	64	61	66	60	73	75	67	68		809	67						8
9	71	68	70	69	55	70	64	74	76	73	80	72		842	70						9
10	66	73	78	75	81	71	70	82	83	90	76	84		929	77						10
11	80	78	87	76	83	91	79	86	84	79	84	82		989	82						11
12	82	88	82	79	89	93	97	92	85	86	88	79		1040	87						12
13	96	83	91	79	88	86	90	102	93	95	96	91		1090	91						13
14	90	98	100	91	93	92	95	94	89	92	89	100		1123	94						14
15	89	101	94	96	90	91	95	106	93	84	89	94		1122	94						15
16	103	88	92	92	85	85	88	97	87	97	93	84		1091	91						16
17	95	87	82	87	83	90	83	92	87	85	87	92		1050	88						17
18	85	94	91	90	82	84	87	88	77	85	82	79		1024	85						18
19	84	87	78	87	81	87	83	82	79	77	79	74		978	82						19
20	72	80	79	75	88	79	86	75	80	80	74	83		951	79						20
21	73	79	86	86	96	90	83	85	95	86	89	87		1035	86						21
22	87	71	86	90	95	97	93	94	90	88	89	91		1071	89						22
23	90	97	94	89	93	93	86	90	86	84	88	81		1071	89						23
24	82	85	85	89	89	83	96	88	86	97	94	88		1062	88						24
25	90	86	98	90	94	100	91	97	97	96	96	98		1133	95						25
26	102	107	100	97	91	97	107	100	98	97	97	89		1182	98						26
27	101	87	93	92	97	91	100	98	99	96	101	99		1154	96						27
28	99	104	98	105	100	83	94	98	91	101	102	97		1172	98						28
29	94	100	104	105	111	95	100	104	100	108	109	102		1232	103						29
30	106	109	114	107	109	95	100	109	108	110	107	109		1283	107						30
31	109	108	108	109	109	112	105	110	122	114	108	107		1321	110			DAYS		MEAN	31
Sum*	2791	2811	2822	2786	2827	2783	2813	2860	2835	2826	2814	2784		33752	2813•	COMPLETE		31	=	90.7	
Mean*	90.0	90.7	91.0	89.9	91.2	89.8	90.7	92.3	91.5	91.2	90.8	89.8	→	1088.9	→	COMPLETE		31	=	90.7	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

GODHAVN MAGNETIC OBSERVATORY JANUARY 1956

TABLE 145 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	114	103	115	110	107	117	121	119	109	116	119	118		1368	114						1
2	115	121	118	117	118	120	115	132	127	127	120	124		1454	121						2
3	126	118	119	121	128	131	133	124	128	123	129	131		1511	126						3
4	136	125	140	124	126	116	119	115	110	118	107	112		1448	121						4
5	100	111	103	109	105	106	107	103	97	104	106	104		1255	105						5
6	93	94	101	94	86	92	97	90	92	77	87	80		1083	90						6
7	87	91	91	79	81	84	95	85	93	79	91	88		1044	87						7
8	91	85	91	92	96	90	92	102	83	89	90	96		1097	91						8
9	94	88	92	89	91	83	93	83	92	85	80	82		1052	88						9
10	83	83	90	87	77	83	91	92	88	86	85	83		1028	86						10
11	83	76	80	71	79	74	71	78	85	85	72	79		933	78						11
12	79	80	86	82	89	88	84	94	89	91				(862)	(86)	10					12
13	99	102	97	95	97	102	107	111	106	104	105	105		1230	102						13
14	107	106	106	109	113	107	111	118	119	108	114	115		1333	111						14
15	107	112	107	117	103	112	118	115	116	109	114	114		1344	112						15
16	116	112	110	102	109	110	108	103	95	119	106	101		1291	108						16
17	95	101	95	101	96	89	100	99	95	97	96	95		1159	97						17
18	92	90	93	99	107	101	97	97	88	90	88	94		1136	95						18
19	88	88	80	86	86	89	88	88	97	94	88	104		1076	90						19
20	92	91	91	78	80	77	86	77	77	69	74	72		964	80						20
21	70	65	70	67	74	80	77	77	69	79	70	63		861	72						21
22	66	68	70	70	71	76	62	79	73	69	80	72		856	71						22
23	63	68	72	73	65	75	75	72	74	70	63	78		848	71						23
24	79	80	82	80	76	77	78	80	84	86	80	90		972	81						24
25	83	88	90	88	89	95	80	89	94	89	89	92		1066	89						25
26	98	96	96	101	103	99	95	103	85	100	101	112		1189	99						26
27	102	95	107	112	110	120	110	113	116	111	115	117		1328	111						27
28	116	116	120	114	124	123	123	134	126	130	130	123		1479	123						28
29	128	126	125	121	136	133	142	128	124	128	122	137		1550	129						29
30	125	122	125	126	133	124	126	129	121	128	120	122		1501	125						30
31	116	128	116	115	121	117	133	129	120	121	123	127		1466	122			DAYS		MEAN	31
*Sum	2964	2949	2992	2947	2987	3002	3050	3064	2983	2990	2964	3030		35922	2995•	COMPLETE		30	=	99.8	
*Mean	98.8	98.3	99.7	98.2	99.6	100.1	101.7	102.1	99.4	99.7	98.8	101.0	→	1197.4	→	COMPLETE		30	=	99.8	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														3081•	ALL		31	=	99.4	

GODHAVN MAGNETIC OBSERVATORY — FEBRUARY 1956

TABLE 146 — COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	124	120	126	125	136	122	123	124	130	132	122	132		1516	126						1
2	119	122	123	123	120	126	123	124	123	123	127	126		1479	123						2
3	127	131	129	129	120	116	113	119	122	116	115	122		1459	122						3
4	120	118	110	123	122	104	118	122	119	118	115	114		1403	117						4
5	109	115	119	118	117	119	122	113	123	118	117	113		1403	117						5
6	117	121	126	121	117	120	122	123	121	117	126	116		1447	121						6
7	135	117	127	117	123	114	108	122	114	107	117	113		1414	118						7
8	113	110	116	124	117	122	119	114	117	124	113	112		1401	117						8
9	113	124	106	112					102	99	104	97		(857)	(107)	8					9
10	99	99	86	84	92	88	89	88	88	95	86	87		1081	90						10
11	97	90	92	91	79	95	93	84	92			87		(900)	(90)	10					11
12	88	101	98	104	98	107	98	103	100	105	94	102		1198	100						12
13	92	97	92	86	84	95	93							(639)	(91)	7					13
14											84	82		(166)	(83)	2					14
15	80	79	78	81	83	82	76							(559)	(80)	7					15
16		72	73	78	73	73		71	77	80	71	74		(742)	(74)	10					16
17	72	63	72	64	63	69	65	63	58			64		(653)	(65)	10					17
18	62	61	56	57	61	59								(356)	(59)	6					18
19	46	49	49	51	43	40	53	48	46	43	47	36		551	46						19
20	34	47	39	51	44	43						61		(319)	(46)	7					20
21	55	56	64	58	65	53						50		(401)	(57)	7					21
22	55	49	61	52	66	57	56	64	60	54	63	57		694	58						22
23	61	68	>210	>202	135	95	80	75	72	68	73	68		1207	101						23
24	74	65	74	79	70	72	73	80	68	78	75	81		889	74						24
25	82	78	81	73	79	83	78	68	76	67	65	78		908	76						25
26	67	72	62	65	61	68	70	67	72	78	79	74		835	70						26
27	64	77	58	75	69	77	66	64	80	75	77	65		847	71						27
28	75	85	81	87	77	83	81	82	81	88	89	90		999	83						28
29	87	80	87	79	80	86	81	85	88	91	88	83		1015	85						29
30																					30
31																			DAYS		MEAN 31
Sum*	1762	1777	1923	1931	1842	1799	1773	1785	1800	1797	1788	1769		21746	1815•	COMPLETE			19	=	95.5
Mean*	92.7	93.5	101.2	101.6	96.9	94.7	93.3	93.9	94.7	94.6	94.1	93.1	→	1144.3	→	COMPLETE			19	=	95.4
															2567•	ALL			29	=	88.5

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

MARCH 1956

TABLE 147

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	89	86	94	86	93	82	92	89	97	81	91	89		1069	89						1
2	99	90	92	96	100	92	95	101	93	98	101	101		1158	96						2
3	101	84	84	87	86	86	88	89	89	94	93	77		1058	88						3
4	82	82	81	75	73	76	83	80	85	83	77	84		961	80						4
5	73	78	79	85	74	84	73	77	78	76	75	65		917	76						5
6	72	79	82	70	70	79	66	79	83	78	76	73		907	76						6
7	69	65	81	85	92	80	93	97	99	89	86	87		1023	85						7
8	87	95	98	87	96	93	86	102	96	95	93	96		1124	94						8
9	85	82	97	93	89	96	92	92	96	92	97	92		1103	92						9
10	82	83	89	81	88	94	88	89	80	81	76	88		1019	85						10
11	83	90	80	82	82	78	88	76	71	91	80	86		987	82						11
12	83	70	66	70	73	85	67	76	73	74	76	75		888	74						12
13	67	76	81	73	63	73	75	77	73	77	73	71		879	73						13
14	77	77	81	86	89	73	86	81	83	78	81	79		971	81						14
15	90	89	75	83	84	86	88	89	89	94	92	95		1054	88						15
16	86	90	92	89	88	90	85	88	87	84	80	72		1031	86						16
17	58	78	62	68	74	68	67	72	74	71	69	74		835	70						17
18	69	56	75	77	80	77	69	87	71	80	77	82		900	75						18
19	77	67	76	75	65	72	75	79	87	74	79	73		899	75						19
20	81	79	78	78	82	79	76	80	74	83	82	80		952	79						20
21	79	74	83	81	81	81	90	80	77	71	77	71		945	79						21
22	72	75	59	77	76	75	75	70	76	60	63	52		830	69						22
23	60	57	59	67	63	71	65	70	67	76	60	67		782	65						23
24	66	60	70	64	67	56	67	63	69	64	70	74		790	66						24
25	69	75	67	71	67	72	74	70	72	64	69	72		842	70						25
26	75	67	78	72	72	86	63	82	66	76	70	78		885	74						26
27	73	61	64	64	63	68	60	73	66	59	71	68		790	66						27
28	64	60	66	72	71	76	70	65	64	80	66	55		809	67						28
29	60	62	66	62	68	64	63	68	67	68	68	67		783	65						29
30	72	55	65	62	56	56	59	66	62	54	60	57		724	60						30
31	65	50	51	61	60	46	60	52	58	55	53	65		676	56			DAYS		MEAN	31
*Sum	2365	2292	2371	2379	2385	2394	2378	2459	2422	2400	2381	2365		28591	2381•	COMPLETE		31	=	76.8	
*Mean	76.3	73.9	76.5	76.7	76.9	77.2	76.7	79.3	78.1	77.4	76.8	76.3	→	922.1	→	COMPLETE		31	=	76.8	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

GODHAVN MAGNETIC OBSERVATORY

APRIL 1966

TABLE 148

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	55	59	46	45	53	46	52	52	52	50	48	41		599	50						1
2	46	49	55	57	51	54	43	50	53	51	49	50		608	51						2
3	56	55	45	47	54	50	47	52	60	57	51	61		635	53						3
4	54	48	47	46	64	50	59	59	54	65	56	48		650	54						4
5	55	53	51	50	58	53	63	68	60	65	51	58		685	57						5
6	49	58	52	59	55	58	53	57	47	59	52	50		649	54						6
7	50	42	40	40	35	36	42	44	49	50	38	36		502	42						7
8	40	51	43	30	33	46	37	50	48	56	41	37		512	43						8
9	40	45	35	41	46	53	37	48	49	50	46	44		534	44						9
10	47	44	44	52	43	41	62	50	47	50	62	44		586	49						10
11	48	40	43	41	47	41	54	51	51	54	48	43		561	47						11
12	49	47	47	47	46	43	45	55	48	51	50	49		577	48						12
13	39	48	44	53	51	50	46	49	54	54	51	42		581	48						13
14	48	53	48	50	49	47	47	51	58	49	48	54		602	50						14
15	47	46	38	41	54	47	41	52	51	44	45	40		546	46						15
16	43	45	35	35	43	36	42	53	50	54	56	36		528	44						16
17	37	46	43	44	40	44	44	52	54	40	40	33		517	43						17
18	45	42	41	49	41	48	40	41	44	38	39	40		508	42						18
19	44	45	53	52	34	43				35	38	47		(391)	(43)	9					19
20	38	43	33	47	38	40	48	54	42	44	37	39		503	42						20
21	40	50	44	41	54	48	42	42	32	30	34	33		490	41						21
22	30	34	38	35	34	30	37	34	32	32	29	35		400	33						22
23	25	38	39	37	39	41	29	42	38	33	39	33		433	36						23
24	38	45	42	38	39	37	44	38	45	45	47	31		489	41						24
25	30	38	43	42	37	45	39	43	40	49	44	40		490	41						25
26	39	48	37	44	38	50	53	55	51	49	55	50		569	47						26
27	48	41	51	56	54	45	41	46	38	45	44	35		544	45						27
28	29	42	49	32	40	38	45	40	45	46	48	36		490	41						28
29	35	32	43	39	46	44	48	46	50	42	42	40		507	42						29
30	48	43	34	46	47	58	46	49	53	49	52	44		569	47						30
31																		DAYS		MEAN	31
Sum*	1248	1325	1250	1284	1329	1319	1326	1423	1395	1401	1342	1222		15864	1321•	COMPLETE		29	=	45.6	
Mean*	43.0	45.7	43.1	44.3	45.8	45.5	45.7	49.1	48.1	48.3	46.3	42.1	→	547.0	→	COMPLETE		29	=	45.6	
															1364•	ALL		30	=	45.5	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

MAY 1956

TABLE 149

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION +130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	45	44	45	50	39	53				54	44	43		(417)	(46)	9				1
2	53	40	45	55	55	61	48	57	60	55	46	53		628	52					2
3	53	46	45	56	44	57	55	56	61	50	48	53		624	52					3
4	41	51	52	51	49	54	50	66	45	43	42	43		587	49					4
5	48	41	45	44	52	52	49	51	55	46	46	50		579	48					5
6	48	48	45	40	43	54	45	52	51	39	39	47		551	46					6
7	35	39	34	43	37	49	49	47	45	52	51	56		537	45					7
8	49	50	50	60	51	52	53	48	55	50	50	53		621	52					8
9	49	54	48	59	55	48	53	57	55	53	53	58		642	54					9
10	57	47	52	65	54	56	53	59	44	62	46	60		655	55					10
11	60	57	55	55	58	44	53	51	61	57	46	45		642	54					11
12	47	47	50	38	47	52	47	52			44	43		(467)	(47)	10				12
13	34	42	40	45	48	45	42	59	43	44	58	38		538	45					13
14	37	43	39	48	45	43	54	49	47	46	52	45		548	46					14
15	53	38	45	35	35	47	38	48	41	42	41	34		497	41					15
16	30	38	40	41	34	35	25	28	39	19	34	22		385	32					16
17	30	32	26	24	30	28	31	30	16	25	33	34		339	28					17
18	34	42	34	35	37	35	24	36	37	35	38	39		426	36					18
19	28	42	39	48	35	46	43	34	39	39	37	39		469	39					19
20	31	40	32	34	33	45	48	33	40	42	40	49		467	39					20
21	33	47	38	43	43	46	49	48	40	48	38	40		513	43					21
22	45	42	35	41	45	34	37	32	33	35	36	33		448	37					22
23	34	34	37	36	37	46	32	38	46	30	39	40		449	37					23
24	38	40	40	38	41	44	43	42	40	41	32	32		471	39					24
25	32	33	30	36	34	31	38	56	40	46	48	43		467	39					25
26	41	40					48	48	51	57	46	43		(374)	(47)	8				26
27	53	43	49	50	52	58	55	47	50	54	47	52		610	51					27
28	51	49	51	48	55	43	57	48	54	49	42	50		597	50					28
29	52	47	52	44	58	47	52	51	45	60	54	50		612	51					29
30	46	46	46	38	42	50	46	43		50	50	48		(505)	(46)	11				30
31	36	41	47	40	49	43	42	51	37	52	45	41		524	44			DAYS		MEAN 31
*Sum	1144	1166	1145	1214	1209	1243	1218	1274	1219	1214	1181	1199		14426	1204•	COMPLETE		27	=	44.6
*Mean	42.4	43.2	42.4	45.0	44.8	46.0	45.1	47.2	45.1	45.0	43.7	44.4	→	534.3	→	COMPLETE		27	=	44.5
															1398	ALL		31	=	44.8

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

JUNE 1956

TABLE 150

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	46	47	42	40	48	55	47	46	36	47	42	44		540	45						1
2	46	40	43	45	43	43	48	39	42	38	36	50		513	43						2
3	43	39	47	41	41	44	50	42	41	49	36	54		527	44						3
4	38	46	55	45	48	49	46	50	43	43	50	45		558	46						4
5	36	43	46	45	41	41	40	50	37	36	40	43		498	42						5
6	39	37	36	25	35	30	35	36	41	36	38	32		420	35						6
7	26	28	29	32	31	38	23	33	32	38	29	24		363	30						7
8	33	32	39	38	34	40	39	33	36	33	27	33		417	35						8
9	34	36	40	39	41	34	42	35	47	47	47	34		476	40						9
10	41	34	32	39	40	36	40	38	33	30	34	34		431	36						10
11	36	31	32	28	31	28	25	37	41	31	38	31		389	32						11
12	30	30	22	30	33	19	25	25	36	26	12	26		314	26						12
13	18	17	25	14	15	12	25	26	27	22	32	20		253	21						13
14	17	24	16	29	19	35	33	30	30	27	28	8		296	25						14
15	21	22	28	29	33	37	25	23	25	32	34	26		335	28						15
16	24	23	27	28	20	26	29	28	32	38	28	29		332	28						16
17	36	32	27	31	21	26	30	29	29	25	25	31		342	28						17
18	26	36	20	31	28	27	34	36	36	30	27	27		358	30						18
19	27	29	33	36	41	28	29	31	36	38	36	39		403	34						19
20	36	40	35	36	29	40	31	34	28	34	31	40		414	34						20
21	41	45	31	38	45	42	29	37	30	38	39	35		450	38						21
22	34	38	44	37	33	39	39	37	35	38	29	32		435	36						22
23	36	38	43	34	36	31	25	38	32	32	27	30		402	34						23
24	31	30	28	30	25	25	22	21	31	26	29	14		312	26						24
25	17	18	10	17	27	20	28	22	25	13	8	23		228	19						25
26	13	18	14	19	18	18	18	24	27	33	31	20		253	21						26
27	20	18	26	26	16	29	22	22	26	27	23	20		275	23						27
28	31	27	17	18	19	21	15	21	29	22	24	26		270	22						28
29	22	18	22	18	19	22	20	9	19	24	12	24		229	19						29
30	20	17	18	18	8	19	18	11	24	20	29	21		223	19						30
31																		DAYS		MEAN	31
Sum*	918	933	927	936	918	954	932	943	986	973	921	915		11256	939•	COMPLETE		30	=	31.3	
Mean*	30.6	31.1	309	31.2	306	31.8	31.1	314	329	324	30.7	30.5	→	375.2	→	COMPLETE		30	=	31.3	
															•	ALL			=		

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

TABLE 151 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	24	34	38	37	29	29	31	24	32	35	33	21		367	31						1
2	24	29	34	30	36	36		32	37	30	34	28		(350)	(32)	11					2
3	37	42	40	36	32	39	46	40	41	42	32	46		473	39						3
4	34	44	44	46	43	43	38	42	39	41	38	49		501	42						4
5	40	44	41	43	55	41	44	47						(355)	(44)	8					5
6																					6
7																					7
8																					8
9								39	41	45	35	31		(191)	(38)	5					9
10	37	30	44	27	29	38	34	43	45	43	35	37		442	37						10
11	36	29	22	24	32	25	27	27	37	37	44	30		370	31						11
12	42	40	25	31	33	36	27	29	31	37	27	31		389	32						12
13	30	35	23	37	35	34	32	39	39	27	28	27		386	32						13
14	20	24	24	24	32	22	33	23	33	28	29	27		319	27						14
15	24	20	28	17	19	25	16	32	31	36	32	35		315	26						15
16	23	23	27	25	14	20	14	24	30	26	28	30		284	24						16
17	16	18	27	25	17	24	19	31	39	25	29	17		287	24						17
18	19	32	36	35	31	25	27	29	34	22	32	27		349	29						18
19	35	35	24	36	27	24	29	38	25	32	31	38		374	31						19
20	28	30	34	30	35	31	35	33	34	36	31	29		386	32						20
21	34	34	41	35	27	27	32	43	35	42	27	27		404	34						21
22	33	39	32	32	35	46	42	35	42	36	41	41		454	38						22
23								46	44	46	48	41		(225)	(45)	5					23
24	46	43	42	45	41	46	41	45	36	34	37	38		494	41						24
25	30	39	34	30	33	25	31	31	33	36	21	24		367	31						25
26	15	22	28	5	24	22	29	23	24	24	25	30		271	23						26
27	18	20	26	21	21	14	18	27	25	21	23	27		261	22						27
28	30	30	25	34	35	26	38	36	34	35	37	42		402	34						28
29	34	34	39	38	39	41	39	40	41	47	41	50		483	40						29
30	39	45	40	42	41	50	47	42				37		(383)	(43)	9					30
31	31	41	32	36	30	28	38	31	39	38	19	47		410	34			DAYS		MEAN	31
* Sum	676	738	735	706	693	690	716	765	799	780	720	770		8788	734•	COMPLETE		23	=	31.9	
* Mean	29.4	32.1	32.0	30.7	30.1	30.0	31.1	33.3	34.7	33.9	31.3	33.5	→	382.1	→	COMPLETE		23	=	31.8	
															936•		ALL	28	=	33.4	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

AUGUST 1956

TABLE 152 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	32	32	38	32	27	30	30	32	34	26	22	32		367	31						1
2	32	33	29	31	37	36	36	37	24	31	35	34		395	33						2
3	37	33	35	26	24	30	28	28	30	20	27	28		346	29						3
4	33	30	33	24	37	34	19	39	37	35	25	31		377	31						4
5	29	39	24	25	30	29	29	27	28	26	30	26		342	28						5
6	38	37	38	36	47	35	41	39	34	47	35	36		463	39						6
7	43	35	45	38	48	40	39	37	43	33	41	37		479	40						7
8	42	47	43	44	52	47	37	49	44	33	42	38		518	43						8
9	41	41	38	46	40	46	35	46	40	41	41	39		494	41						9
10	54	46	39	43	41	41	45	44	47	45	38	43		526	44						10
11	40	36	42	44	43	46	39	27	33	44	41	47		482	40						11
12	31	41	42	39	34	38	29	26	35	24	32	20		391	33						12
13	23	30	34	28	28	23	28	28	31	19	18	26		316	26						13
14	29	27	34	27	31	24	21	29	23	18	25	38		326	27						14
15	21	33	31	24	30	34	25	29	30	34	27	32		350	29						15
16	20	25	27	23	30	26	31	32	37	38	40	32		361	30						16
17	39	32	30	28	33	38	37	38	49		32	40		(396)	(36)	11					17
18								41	36	50	42	41		(210)	(42)	5					18
19	43	41	36	46	40	46	49	45	41	48	48	48		531	44						19
20	51	49	49	50	52	44	48	46	47	48	51	62		597	50						20
21	52	57	56	51	57	50	46	44	54	55	50	51		623	52						21
22	52	37	41	40	48	39	38	46	43	41	43	36		504	42						22
23	40	36	41	41	35	34	34	43	37	37	23	21		422	35						23
24	23	26	11	29	23	9	30	28	21	27	18	23		268	22						24
25	18	14	23	15	19	27	21	27	23	28	18	28		261	22						25
26	18	20	26	36	30	28	27	20	21	32	26	24		308	26						26
27	25	29	40	34	33	39	25	20	35	28	36	37		381	32						27
28	25	27	38	29	24	32	25	35	30	35	32	47		379	32						28
29	31	37	34	32	33	40	37	31	33	32	35	32		407	34						29
30	42	37	33	34	36	38	33	37	25	29	33	38		415	35						30
31	28	30	34	34	29	38	32	38	39	32	27	32		393	33			DAYS		MEAN	31
* Sum	993	1005	1034	1001	1038	1023	957	1009	999	986	959	1018		12022	1003•	COMPLETE		29	=	34.6	
													→	414.6	→	COMPLETE		29	=	34.6	
* Mean	34.2	34.7	35.7	34.5	35.8	35.3	33.0	34.8	34.4	34.0	33.1	35.1			1081•	ALL		31	=	34.9	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

SEPTEMBER 1956

TABLE 153

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean	B				Day
1	19	24	20	34	28	22	29	25	30	28	30	20	309	26					1
2	19	18	5	5	4	-3	5	10	4	18	10	19	114	10					2
3	17	14	6	22	16	11	11	10	27	19	22	26	201	17					3
4	24	21	15	30	27	30	28	35	37	28	25	32	332	28					4
5	34	42	35	34	26	41	32	42	36	32	39	43	436	36					5
6	44	35	44	35	47	45	45	51	47	55	52	53	553	46					6
7	53	45	64	48	58	49	53	47	46	45	50	49	607	51					7
8	48	39	45	38	53	58	51	48	58	43	52	45	578	48					8
9	39	39	37	31	39	39	32	42	47	46	49	52	492	41					9
10	34	44	36	36	31	40	39	42	38	48	39	44	471	39					10
11	50	38	42	40	41	38	38	42	47	49	43	47	515	43					11
12	45	35	39	45	45	35	50	42	40	37	58	47	518	43					12
13	33	49	46	47	52	50	44	48	48	38	45	48	548	46					13
14	46	56	43	51	39	49	46	48	49	48	49	43	567	47					14
15	58	51	47	48	54	45	56	61	55	56	49	50	630	52					15
16	44	51	51	53	52	51	42	52	50	50	44	50	590	49					16
17	47	50	52	45	47	50	59	46	51	48	54	56	605	50					17
18	51	55	56	53	47	55	55	50	51	57	48	55	633	53					18
19	45	53	62	47	42	51	45	56	47	53	60	53	614	51					19
20	50	52	50	48	45	60	43	53	54	45	46	44	590	49					20
21	42	43	35	37	36	52	47	44	43	45	40	50	514	43					21
22	47	48	51	44	41	44	48	38	53	42	53	50	559	47					22
23	49	51	51	56	53	53	55	45	55	51	46	54	619	52					23
24	47	60	48	54	45	38	46	47	43	43	44	40	555	46					24
25	53	48	45	46	61	46	42	48	50	53	45	54	591	49					25
26	53	58	42	39	51	49	43	47	40	41	50	52	565	47					26
27	48	48	45	54	49	50	53	49	54	52	49	55	606	50					27
28	55	53	54	59	52	51	47	47	57	56	63	52	646	54					28
29	55	56	41	56	54	53	56	57	55	48	51	51	633	53					29
30	50	48	54	60	52	54	55	58	59	59	56	57	662	55					30
31																	DAYS		MEAN 31
Sum*	1299	1324	1261	1295	1287	1306	1295	1330	1371	1333	1361	1391	15853	132•	COMPLETE		30	=	44.0
Mean*	43.3	44.1	42.0	43.2	42.9	43.5	43.2	44.3	45.7	44.4	45.4	46.4	→ 528.4	→ •	COMPLETE		30	=	44.0
															ALL			=	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

TABLE 154 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	64	70	63	63	51	61	63	55	65	57	50	50		712	59					1
2	58	55	50	53	61	63	55	59	58	59	51	53		675	56					2
3	57	51	45	53	54	52	63	58	53	57	58	55		656	55					3
4	53	56	48	55	56	56	46	45	49	57	42	47		610	51					4
5	52	48	48	45	46	55	50	57	48	43	55	45		592	49					5
6	46	57	55	56	58	48	55	57	60	72	57	64		685	57					6
7	51	48	52	57	59	55	52	51	62	66	52	68		673	56					7
8	50	53	57	52	56	62	61	62	60	58	56	62		689	57					8
9	62	54	53	58	56	61	66	60	58	67	63	63		721	60					9
10							59	56	55	65	54	56		(345)	(58)	6				10
11	66	49	54	54	59	59	54	61	63	63	58	63		703	59					11
12	65	65	64	63	66	59	58	75	61	59	65	63		763	64					12
13	61	63	64	57	61	61	59	63	56	57	55	68		725	60					13
14	58	66	56	50	56	56	55	58	62	60	58	58		693	58					14
15	49	57	47	47	52	50	47	50			57	67		(523)	(52)	10				15
16	65	65	64	54	68	74	80	75	72	72	69	75		833	69					16
17	69	72						81	82	82	80	69		(535)	(76)	7				17
18	81	75	79	74	80	78	82	76	70	78	77	78		928	77					18
19	79	77	75	80	74	74	80	84	81	85	82	83		954	80					19
20	74	86	70	78	75	78	87	75	71	76	82	80		932	78					20
21	93	82	88	78	83	80	76	85	82	78	80	81		986	82					21
22	75	75	72	65	74	68	69	66	75	72	68	79		858	72					22
23	56	57	78	71	57	66	78	71	66	63	68	74		805	67					23
24	68	66	66	72	71	73	64	65	68	68	72	71		824	69					24
25	67	64	66	69	79	69	65	74	68	81	77	78		857	71					25
26	81	69	79	87	76	71	69	82	70	76	74	70		904	75					26
27	56	66	64	67	57	69	58	50	65	52	59	68		731	61					27
28	51	57	65	58	56	68	56	69	66	81	70	67		764	64					28
29	72	64	69	57	63	60	73	74	64	64	79	69		808	67					29
30	66	66	62	64	67	70	65	70	67	61	55	57		770	64					30
31	61	61	55	59	48	58	53	53	54	64	58	55		679	57			DAYS		MEAN 31
Sum*	1788	1765	1761	1749	1767	1804	1792	1830	1794	1846	1790	1844		21530	1794•	COMPLETE		28	=	64.1
Mean*	63.9	63.0	62.9	62.5	63.1	64.4	64.0	65.4	64.1	65.9	63.9	65.9	→	769.0	→	COMPLETE		28	=	64.1
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1988	ALL		31	=	63.9

GODHAVN MAGNETIC OBSERVATORY

TABLE 155 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	64	61	54	52	51	64	60	54	62	47	52	50		671	56						1
2	45	53	48	51	53	52	56	53	52	49	47	57		616	51						2
3	53	51	53	59	42	50	57	61	70	55	59	60		670	56						3
4	57	58	60	58	72	56	58	71	59	67	77	64		757	63						4
5	71	72	66	64	73	71	73	80	66	69	77	67		849	71						5
6	75	75	71	68	76	70	75	74	89	88	83	84		928	77						6
7	80	90	88	88	83	85	89	75	84	86	94	86		1028	86						7
8	75	85	80	81	85	75	85	81	71	83	84	82		967	81						8
9	83	88	79	75	88	78	81	79	89	79	80	72		971	81						9
10	56	62	60	56	53	55	56	53	64	63	48	58		684	57						10
11	48	46	55	52	53	58	63	66	58	57	39	51		646	54						11
12	52	60	59	64	64	51	64	60	61	67	61	57		720	60						12
13	63	72	62	54	63	66	61	59	62	71	65	65		763	64						13
14	61	63	71	61	63	62	67	64	76	69	55	66		778	65						14
15	57	65	62	67	49	43	57	53	51	49	53	49		655	55						15
16	53	59	50	67	61	54	58	63	60	64	58	60		707	59						16
17	61	63	62	50	56	56	67	64	66	59	62	60		726	60						17
18	69	71	70	72	78	75	77	79	77	85	79	88		920	77						18
19	80	90	85	93	86	99	81	83	90	86	90	80		1043	87						19
20	85	89	77	79	88	93	82	98	84	89	101	92		1057	88						20
21	82	85	88	75	84	75	89	85	81	79	74	74		971	81						21
22	74	71	76	74	74	80	71	74	71	76	73	73		887	74						22
23	81	82	76	60	62	81	84	82	85	86	93	95		967	81						23
24	94	82	82	80	77	79	84	88	88	83	82	84		1003	84						24
25	78	88	85	80	78	82	94	79	82	87	81	84		998	83						25
26	76	74	82	69	86	86	83	80	74	77	72	73		932	78						26
27	65	72	74	81	75	71	72	80	71	85	87	73		906	76						27
28	77	80	79	80	69	70	70	79	70	82	78	89		923	77						28
29	81	73	94	83	82	81	85	84	89	95	100	102		1049	87						29
30	88	84	84	98	99	93	89	94	88	97	84	95		1093	91						30
31																		DAYS		MEAN	31
Sum*	2084	2164	2132	2091	2123	2111	2188	2195	2190	2229	2188	2190		25885	2160•		COMPLETE	30	=	72.0	
Mean*	69.5	72.1	71.1	69.7	70.8	70.4	72.9	73.2	73.0	74.3	72.9	73.0	→	862.9	→		COMPLETE	30	=	71.9	
															•		ALL		=		

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

TABLE 156 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean	B				Day
1	87	83	88	81	82	83	88	75	88	86	85	86	1012	84					1
2	81	85	81	83	88	77	75	83	77	77	93	85	985	82					2
3	78	81	76	65	71	77	70	71	79	74	72	73	887	74					3
4	67	66	77	60	72	74	56	65	66	77	71	65	816	68					4
5	65	59	63	64	70	64	65	62	66	67	66	76	787	66					5
6	70	62	73	77	69	77	70	74	68	75	70	64	849	71					6
7	75	73	74	84	72	83	73	85	78	82	71	84	934	78					7
8	75	76	72	83	80	83	82	85	77	87	88	81	969	81					8
9	85	80	78	77	83	89	82	91	80	83	79	83	990	82					9
10	85	83	89	87	86	89	94	83	90	92	89	91	1058	88					10
11	88	84	83	83	88	91	99	103	88	90	89	95	1081	90					11
12	86	86	88	95	88	86	94	96	96	93	106	92	1106	92					12
13	95	97	113	99	96	103	105	101	93	104	99	96	1201	100					13
14	100	99	101	98	104	106	100	95	95	99	92	88	1177	98					14
15	90	92	93	96	91	88	95	92	92	93	88	96	1106	92					15
16	93	86	82	93	80	99	86	94	92	90	81	81	1057	88					16
17	95	96	94	94	102	100	108	105	110	94	100	98	1196	100					17
18	92	98	92	97	105	96	101	107	97	106	98	108	1197	100					18
19	105	95	97	97	94	89	85	94	102	94	97	94	1143	95					19
20	95	102	103	97	92	95	81	87	92	102	91	89	1126	94					20
21	91	96	98	79	89	93	74	78	80	87	91	82	1038	86					21
22	77	81	73	77	85	82	76	82	92	73	72	80	950	79					22
23	80	75	80	84	83	85	84	76	86	79	80	90	982	82					23
24	85	80	95	88	83	85	86	77	79	82	76	88	1004	84					24
25	84	72	78	83	81	81	86	71	76	77	86	69	944	79					25
26	63	79	69	62	59	72	59	62	70	71	62	76	804	67					26
27	64	80	66	66	75	80	68	72	68	72	62	68	841	70					27
28	71	62	51	49	59	51	59	61	68	45	48	63	687	57					28
29	67	60	57	56	62	55	59	65	52	66	58	65	722	60					29
30				66	72		60						(198)	(66)	3				30
31		57	67	60	61	56	73	69	67	67	59	63	(699)	(64)	11		DAYS		MEAN 31
Sum*	2389	2368	2384	2354	2389	2433	2360	2392	2397	2417	2360	2406	28649	2387•	COMPLETE		29	=	82.3
Mean*	82.4	81.7	82.2	81.2	82.4	83.9	81.4	82.5	82.7	83.3	81.4	83.0	→ 988.1	→	COMPLETE		29	=	82.3
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM													2517•	ALL		31	=	81.2

GODHAVN MAGNETIC OBSERVATORY — JANUARY 1957

TABLE 157 — COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	59	59	56	55	57	61	59	57	54	56	65	58		696	58						1
2	54	60	58	62	63	63	64	57	57	55	55	61		709	59						2
3	57	64	61	62	48	64	68	64	67	79	67	72		773	64						3
4	68	67	82	80	75	87	78	84	80	86	85	97		969	81						4
5	82	86	91	86	86	81	82	80	83	86	84	89		1016	85						5
6	95	89	88	95	85	95	90	98	95	97	90	92		1109	92						6
7	92	105	92	91	86	96	90	94	90	93	91	87		1107	92						7
8	91	96	98	79	83	91	92	85	79	88	77	89		1048	87						8
9	92	89	84	86	89	93	84	86	81	77	80	76		1017	85						9
10	73	79	85	86	80	82	90	84	78	80	76	81		974	81						10
11	79	73	78	80	85	79	81	78	74	80	79	80		946	79						11
12	64	86	67	65	78	74	80	75	84	85	84	80		922	77						12
13	77	79	78	76	80	83	86	84	84	85	81	87		980	82						13
14	82	84	82	86	84	84	88	80	90	84	84	92		1020	85						14
15	77	87	86	77	78	81	89	88	82	83	82	73		1003	84						15
16	81	86	92	82	89	80	96	84	92	88	88	81		1039	87						16
17	89	91	89	86	95	79	92	82	94	95	89	85		1066	89						17
18	87	88	86	86	93	96	94	98	101	104	102	109		1144	95						18
19	100	104	101	105	96	108	106	110	118	112	107	103		1270	106						19
20	109	105	116	100	107	109	109	100	104	112	103	108		1282	107						20
21	114	105	110	105	115	111	111	111	111	109	95	79		1276	106						21
22	63	58	60	48	41	51	47	46	46	53	46	43		602	50						22
23	36	55	51	48	58	54	64	66	55	64	62	60		673	56						23
24	62	72	55	66	60	61	63	81	61	71	75	70		797	66						24
25	78	68	69	70	77	70	72	77	70	64	65	67		847	71						25
26	68	70	74	59	56	66	65	71	68	68	69	75		809	67						26
27	80	76	73	73	68	70	64	67	69	65	64	84		853	71						27
28	93	86	79	74	86	79	83	77	74	75	67	88		961	80						28
29	72	81	87	75	75	82	80	69	71	68	70	65		895	75						29
30	71	77	70	76	84	78	82	77	83	78	76	75		927	77						30
31	82	71	77	69	67	72	56	69	68	75	67	72		845	70			DAYS		MEAN	31
Sum*	2427	2496	2475	2388	2424	2480	2505	2479	2463	2515	2425	2498		29575	2464•	COMPLETE		31	=	79.5	
Mean*	78.3	80.5	79.8	77.0	78.2	80.0	80.8	80.0	79.5	81.1	78.2	80.6	→	954.0	→	COMPLETE		31	=	79.5	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

GODHAVN MAGNETIC OBSERVATORY

TABLE 158 — COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS — FEBRUARY 1957

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	76	74	73	68	63	62	62	68	66	70	81	76		839	70						1
2	76	67	82	74	76	74	66	73	73	69	76	74		880	73						2
3	67	79	72	64	73	61	62	60	66	76	66	61		807	67						3
4	57	49						52	57	49	50	54		(368)	(53)	7					4
5	42	48	53	53	41	55	40	40	58	58	43	51		582	48						5
6	58	53	58	49	56	57	60	56	55	51	54	63		670	56						6
7	54	50	42	43	46	45	47	41	45	54	45	47		559	47						7
8	48	49	45	46	49	49	41	35	47	36	44	45		534	44						8
9	42	44	36	36	35	39	37	31	46	48	31	39		464	39						9
10	35	35	21	38	32	41	39	37	40	34	46	47		445	37						10
11	41	33	30	28	36	33	27	39	30	42	33	34		406	34						11
12	28	28	34	39	47	33	27	41	33	44	42	38		434	36						12
13	38	35	28	30	33	40	27	26	32	34	26	26		375	31						13
14	35								26	29				(90)	(30)	3					14
15		12	24					38	30	33	31	33		(201)	(29)	7					15
16	30	26	44	35	41	38								(214)	(36)	6					16
17	26	39	28	27	37	32	34	26	31	36	21	22		359	30						17
18	21	31	31	28	30	28	38	50	55	52	50	47		461	38						18
19	36	35	46	36	42	56	49	45	42	46	49	46		528	44						19
20	45	47	52	49	42	54	45	51	46	51	54	42		578	48						20
21	39	40	48	53	38	40	50	44	37	44	38	51		522	44						21
22	42	44	47	41	44	44	45	54	44	50	50	51		556	46						22
23	47	57	57	54	51	56	54	56	58	55	44	46		635	53						23
24	43	50	57	58	46	62	56	53	60	48	48	54		635	53						24
25							36	50	48	48	44	55		(281)	(47)	6					25
26	44	57	42	53	47	49	46	55						(393)	(49)	8					26
27									58	58	54	53		(223)	(56)	4					27
28	62	60	55	50	52	55	58	51	45	51	58	49		646	54						28
29																					29
30																					30
31																		DAYS		MEAN	31
Sum*	966	998	995	964	969	1016	964	977	1009	1049	999	1009		11915	992•	COMPLETE		21	=	47.2	
Mean*	46.0	47.5	47.4	45.9	46.1	48.4	45.9	46.5	48.0	50.0	47.6	48.0	→	567.3	→	COMPLETE		21	=	47.3	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1292•	ALL		28	=	46.1	

GODHAVN MAGNETIC OBSERVATORY

MARCH 1957

TABLE 159

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION +130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	44	52	46	46	51	47	53	52	54	58	52	48		603	50						1
2	53	48	45	48	44	43	35	42	45	59	48	40		550	46						2
3	39	43	47	45	53	36	52	47	53	48	49	48		560	47						3
4	46	47	51	44	50	45	36	45	38	43	45	53		543	45						4
5	46	50	50	44	44	49	54	47	42	49	59	44		578	48						5
6	49	53	51	60	50	51	50	56	56	54	57	52		639	53						6
7	57	54	48	60	63	49				52	57	59		(499)	(55)	9					7
8	57	57	53	58	60	62	51	58	66	59	56	54		691	58						8
9	63	63	63	67	59	57	53	57			53	64		(599)	(60)	10					9
10	51	52	57	45	54	34	29	30	43	28	17	37		477	40						10
11	14	25	25	24	30	18	23	31	20	19	25	30		284	24						11
12	32	28	30	32	34	46	35	44	44	38	49	28		440	37						12
13	45	38	42	34	45	50	41	39	34	44	44	39		495	41						13
14	46	50	40	54	42	47	61	46	46	54	55	50		591	49						14
15	39	56	56	57	50	49	49	58	55	57	55	49		630	52						15
16	53	61	61	52	60	54	53	51	52	59	62	48		666	56						16
17	49	53	54	53	51	51	56	52	57	49	53	54		632	53						17
18	55	54	59	59	60	58	53	58	61	62	53	63		695	58						18
19	65	65	54	65	57	65	63	59	58	58	65	58		732	61						19
20	66								60	58	63	59		(306)	(61)	5					20
21	65	64	60	59	66	61	58	64	57	61	61	66		742	62						21
22	68	67	53	57	68	63	71	56	56	54	52	48		713	59						22
23	61	63	62	48	49	61	50	63	48	60	67	49		681	57						23
24	55	46	60	60	60	53	51	61	54	57	59	51		667	56						24
25	55	49	57	55	65	60	61	52	64	64	68	67		717	60						25
26	55	62	57	57	66	61	62	64	64	62	63	58		731	61						26
27	55	55	67	63	60	56	57	64	55	60	51	63		706	59						27
28	54	56	51	56	55	58	57	49	45	65	68	59		673	56						28
29	56	49	52	56	53	62	52	61	56	58	50	51		656	55						29
30	38	51	42	49	46	47	49	45	45	45	49	50		556	46						30
31	43	38	43	42	38	52	48	51	46	50	50	50		551	46			DAYS		MEAN	31
*Sum	1388	1432	1425	1422	1461	1439	1410	1445	1414	1474	1482	1407		17199	1435•	COMPLETE		28	=	51.2	
*Mean	49.6	51.1	50.9	50.8	52.2	51.4	50.4	51.6	50.5	52.6	52.9	50.2	→	614.2	→	COMPLETE		28	=	51.2	
															1611•	ALL		31	=	52.0	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

TABLE 160 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION +130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	44	55	44	50	54	51	49	44	51	48	39	57		586	49						1
2								39	47	57	45	40		(228)	(46)	5					2
3	43	47	52	48	44	47	61	50	44	42	46	37		561	47						3
4	38	52	46	48	54	47	44	48	36	32	44	41		530	44						4
5	47	39	23	41	35	25	37	26	22	17	31	33		376	31						5
6	20	16	26	27	32	24	27	28	36	30	26	25		317	26						6
7	31	33	37	35	19	29	25	34	28	25	33	30		359	30						7
8	26	23	10	10	23	18	13	14	13	14	23	12		199	17						8
9	20	33	18	19	11	1	16	18	12	7	17	-3		169	14						9
10	7	6	-1	7	9	11	17	20	10	26	26	21		159	13						10
11	24	13	17	19	25	33	33	26	26	25	27	35		303	25						11
12	29	34	33	28	24	26	37	41	37	46	35	35		405	34						12
13	36	39	38	46	39	40	40	47	48	48	46	52		519	43						13
14	44	44	42	45	47	51	51	45	55	48	50	49		571	48						14
15	46	44	45	47	47	48	46	54	57	40	41	45		560	47						15
16	48	49	43	46	46	49	44	46	52	59	49	48		579	48						16
17	45	43	59	50	51	50	52	49	45	35	37	30		546	46						17
18	30	42	36	24	33	25	30	31	26	24	37	39		377	31						18
19	29	32	40	31	28	31	28	31	19	32	23	22		346	29						19
20	17	19	19	23	29	20	26	31	28	16	18	14		260	22						20
21	14	20	23	18	23	25	11	22	13	28	27	18		242	20						21
22	25	26	22	35	31	24	28	32	23	22	22	17		307	26						22
23	19	30	17	19	20	11	24	16	12	22	9	12		211	18						23
24	19	25	24	15	20	22	20	31	28	27	29	31		291	24						24
25	28	44	26	33	26	37	32	30	34	38	32	42		402	34						25
26	40	35	42	39	31	43	35	41	38	45	39	42		470	39						26
27	42	39	34	42	38	41	45	48	46	44	43	36		498	42						27
28	41	39	31	52	44	42	48	50	38	40	40	55		520	43						28
29	32	39	44	43	41	39	39	43	40	41	48	37		486	40						29
30	45	48	45	44	46	44	43	35	41	46	37	41		515	43						30
31																		DAYS		MEAN	31
Sum*	929	1008	935	984	970	954	1001	1031	958	967	974	953		11664	973•	COMPLETE		29	=	33.6	
Mean*	32.0	34.8	32.2	33.9	33.4	32.9	34.5	35.6	33.0	33.3	33.6	32.9	→	402.1	→	COMPLETE		29	=	33.5	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1019•	ALL		30	=	34.0	

GODHAVN MAGNETIC OBSERVATORY

MAY 1957

TABLE 161

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	49	43	47	40	44	34	33	34	33	46	31	38		472	39						1
2	41	43	39	40	35	35	47	41	46	41	40	39		487	41						2
3	40	42	36	40	48	44	47	48	43	50	45	43		526	44						3
4	42	44	44	40	43	39	35	46	45	53	45	53		529	44						4
5	55	43	46	49	41	52	48	58	47	51	51	42		583	49						5
6	46	53	46	50	55	52	57	70	57	51	44	42		623	52						6
7	51	51	54	54	47	53	49	57	53	47	48	46		610	51						7
8	50	45	55	57	48	42	49	54	40	42	45	47		574	48						8
9	48	38	44	33	43	39	39	38	44	39	37	41		483	40						9
10	29	31	32	35	27	39	39	27	43	35	35	32		404	34						10
11	34	32	35	22	32	33	34	32	38	47	32	26		397	33						11
12	36	18	34	36	31	42	42	29	36	49	35	33		421	35						12
13	35	33	42	27	37	37	34	43	27	32	29	29		405	34						13
14	35	28	27	31	30	33	34	26	24	32	36	32		368	31						14
15	28	22	32	28	25	25	13	21	19	22	29	29		293	24						15
16	20	23	23	22	23	23	27	31	35	25	25	29		306	26						16
17	38	33	36	26	31	32	35	31	33	40	36	32		403	34						17
18	36	37	36	33	31	38	34	36	32	37	37	35		422	35						18
19	36	35	32	46	28	41	36	47	35	34	32	30		432	36						19
20	40	38	32	27	39	47	43	40	34	37	36	37		450	38						20
21	32	28	32	44	35	39	38	41	33	35	35	34		426	36						21
22	27	36	36	30	35	33	28	31	36	23	24	27		366	30						22
23	31	35	39	29	28	29	42	40	41	35	29	26		404	34						23
24	33	38	30	37	22	33	33	40	38	31	33	30		398	33						24
25	35	40	36	32	36	29	26	34	37	32	29	28		394	33						25
26	32	28	29	30	29	21	19	29	23	24	20	27		311	26						26
27	23	27	27	23	26	21	26	11	26	27	18	24		279	23						27
28	28	27	18	23	24	18	23	20	14	19	19	12		245	20						28
29	32	20	31	17	17	15	13	16	22	30	15	18		246	20						29
30	22	25	27	18	24	23	16	21	24	15	25	22		262	22						30
31	8	19	23	16	9	17	11	21	20	17	23	18		202	17			DAYS		MEAN	31
Sum*	1092	1055	1100	1035	1023	1058	1050	1113	1078	1098	1018	1001		12721	1062	COMPLETE		31	=	34.3	
Mean*	35.2	34.0	35.5	33.4	33.0	34.1	33.9	35.9	34.8	35.4	32.8	32.3	→	410.3	→	COMPLETE		31	=	34.2	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM														●	ALL			=		

GODHAVN MAGNETIC OBSERVATORY — JUNE 1957

TABLE 162 — COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean	B				Day
1	7	26	14	29	23	32	20	23	14	26	12	16	242	20					1
2	30	23	13	16	23	21	23	24	22	25	33	32	285	24					2
3	21	24	29	20		27	31	21	20	23	26	14	(256)	(23)	11				3
4	21	18	20	28	24	28	27	28	19	30	19	30	292	24					4
5	18	29	22	28	17	18	19	34	23	23	18	16	265	22					5
6	18	15	23	15	12	26	23	24	20	26	17	16	235	20					6
7	19	16	22	23	28	31	22	33	18	28	24	19	283	24					7
8	19	21	18	19	20	18	18	30	21	18	26	17	245	20					8
9	20	24	23	30	23	25	27	23	28	30	15	31	299	25					9
10	17	34	23	24	23	30	24	28	36	27	28	22	316	26					10
11	22	31	34	28	31	38	32	26	24	34	17	30	347	29					11
12	24	34	28	28	27	27	27	37	27	32	38	33	362	30					12
13	25	28	26	32	28	32	30	24	30	38	24	26	343	29					13
14	24	31	30	34	39	25	27	33	42	28	31	32	376	31					14
15	35	29	26	27	30	28	26	24	32	38	24	33	352	29					15
16	30	28	11	25	23	23	23	19	22	21	13	31	269	22					16
17	19	25	34	34	30	25	23	29	30	27	32	21	329	27					17
18	27	27	18	22	25	15	26	18	7	23	16	9	233	19					18
19	22	12	21	7	11	19	12	17	5	6	6	3	141	12					19
20	15	14	-4	0	4	18	-5	1	3	-3	-1	4	46	4					20
21	5	3	-1	3	2	9	-4	4	3	6	-6	6	30	2					21
22	18	10	9	5	2	2	3	5	1	-3	-5	-5	42	4					22
23	-11	1	-8	-11	-16	-3	-2	-10	1	-5	-3	-3	-70	-6					23
24	-13	-11	-14	-11	-9	-3	-13	-2	-19	-23	-18	-19	-155	-13					24
25	-11	-17	-12	-18	-12	-10	-12	-8	-11	-7	-12	-7	-137	-11					25
26	-10	-18	-3	-2	4	-6	1	0	0	0	8	-1	-27	-2					26
27	-1	-3	1	14	16	-3	3	1	-1	12	-1	1	39	3					27
28	5	5	3	5	15	16	6	11	-1	3	16	0	84	7					28
29	6	8	-8	9	0	11	2	5	-9	-9	-3	-12	0	0					29
30	0	-6	1	-9	-6	-2	0	-18	-16	-23	-22	-27	-128	-11					30
31																	DAYS		MEAN	31
Sum*	400	437	370	434	437	490	408	463	371	428	346	354	4938	410•	COMPLETE		29	=	14.1	
Mean*	13.8	15.1	12.8	15.0	15.1	16.9	14.1	16.0	12.8	14.8	11.9	12.2	→ 170.5	→	COMPLETE		29	=	14.2	
														433•	ALL		30	=	14.4	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

JULY 1957

TABLE 163

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	-11	-6	-15	-16	-24	-16	2	4	4		-7	-18		(-103)	(-9)	11				1
2	-7	-7	-10	-17	-17	-5	-5	-17	-16	-12	-10	-26		-149	-12					2
3	-13	-18	-14	-21	-27	-10	-23	-14	-2	-11	-24	-4		-200	-17					3
4	-17	-18	-14	-14	-14	-14	-20	-6	-2	-7	-8	-4		-138	-12					4
5	-18	-13	-16	0	-18	-15	-19	-12	-15	-3	-10	-11		-150	-12					5
6	-3	-16	-15	-9	-5	-9	-7	-12	-7	-2	-9	-10		-104	-9					6
7	-14	-14	-24	1	0	-3	-2	0	2	-4	-4	4		-58	-5					7
8	-5	-6	-10	-10	11	-3	14	-6	11	13	11	11		31	3					8
9	9	4	5	6	15	14	14	7	16	15	12	6		123	10					9
10	17	4	17	2	19	14	6	16	21	13	12	17		158	13					10
11	3	3	12	7	13	13	12	7	9	8	4	3		94	8					11
12	4	3	9	-1	7	5	11	5	12	10	10	11		86	7					12
13	11	9	11	8	28	14	10	13	24	10	15	19		172	14					13
14	9	17	15	15	24	14	21	18	15	6	11	16		181	15					14
15	22	9	23	11	11	24	25	20	29	18	13	37		242	20					15
16	23	22	25	20	23	18	24							(155)	(22)	7				16
17									12	17	23	22		(74)	(18)	4				17
18	8	12	10	5	18	13	20	8	18	14	24	27		177	15					18
19	22	21	14	14	21	21	7	7	22	11	14	3		177	15					19
20	11	6	13	9	15	7	-1	5	3	1	9	-6		72	6					20
21	0	2	6	9	-2	6	11	-1	4	7	-1	3		44	4					21
22	3	5	17	13	9	14	14	16	20	10	13	4		138	12					22
23	18	7	8	10	4	-1	1	8	8	-6	18	13		88	7					23
24	16	16	22	17	14	16	15	12	21	24	13	28		214	18					24
25	25	22	21	19	22	37	23	19	31	22	27	27		295	25					25
26	18	22	9	18	17	18	25	26	20	21	14	31		239	20					26
27	30	16	22	22	15	17	15	20	34	31	23	13		258	22					27
28	1	3	12	17	11	16	21	20	9	8	17	21		156	13					28
29	9	17	15	19	24	13	9	20	23	15	11	11		186	16					29
30	16	13	21	20	13	20	13	13	17	21	24	22		213	18					30
31	19	19	18	20	28	19	23	15	22	26	18	15		242	20			DAYS		MEAN 31
Sum*	194	138	197	190	256	255	233	207	330	259	247	281		2787	234•	COMPLETE		28	=	8.4
Mean*	6.9	4.9	7.0	6.8	9.1	9.1	8.3	7.4	11.8	9.2	8.8	10.0	→	99.3	→	COMPLETE		28	=	8.3
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														265•	ALL		31	=	8.5

GODHAVN MAGNETIC OBSERVATORY — AUGUST 1957

TABLE 164 — COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	22	21	21	27	18	18	27	27	16	15	12	21		245	20						1
2	21	20	16	13	20	16	22	10	15	19	29	21		222	18						2
3	17	15	13	20	23	18	19	19	24	22	12	18		220	18						3
4	12	14	0	-1	2	9	0	2	2	0	-13	-18		9	1						4
5	-16	-20	-15	-18				-8	-7	-12	-12	-21		(-129)	(-14)	9					5
6	-4	-9	-9	-8	-1	-17	-16	-6	-6	-5	-6	-6		-93	-8						6
7	-8	-10	-14	-8	-11	-14	-12	-8	-6	-5	-11	-10		-117	-10						7
8	0	-9	-9	0	1	-1	-2	3	6	11	5	-2		3	0						8
9	1	0	3	12	3	3	-2	16	8	9	2	3		58	5						9
10	12	1	4	11	6	13	0	9	27	14	15	18		130	11						10
11	14	18	16	13	9	16	9	22	15	15	22	17		186	16						11
12	26	19	16	27	21	19	18	20	14	17	14	17		228	19						12
13	20	13	12	20	19	13	26	23	29	17	14	15		221	18						13
14	17	19	10	18	5	13	10	21	19	19	25	19		195	16						14
15	27	19	15	15	20	21	14	13	27	23	13	21		228	19						15
16	13	25	16	14	21	17	20	13	11	20	18	18		206	17						16
17	17	22	11	23	24	18	21	19	18	20	21	17		231	19						17
18	25	34	32	40	24	23	23	25	27	21	25	25		324	27						18
19	17	33	25	26	30	34	29	36	42	30	33	37		372	31						19
20	36	36	31	38	32	28	37	28	31	41	33	40		411	34						20
21	33	29	36	33	40	36	45	42	56	37	39	49		475	40						21
22	30	38	48	33	41	41	50	43	36	48	48	48		504	42						22
23	37	32	39	34	44	28	41	41	41	35	32	37		441	37						23
24	31	27	35	25	37	34	43	46	30	29	26	33		396	33						24
25	26	39	25	32	30	27	24	26	28	36	34	27		354	30						25
26	27	27	21	32	30	33	37	31	30	28	28	28		352	29						26
27	26	19	15	25	15	19	25	21	26	12	20	16		239	20						27
28	17	16	18	14	4	14	21	28	18	21	22	21		214	18						28
29	12	23	19	19	26	24	33	18	23	22	22	0		241	20						29
30	-8	-10	-15	-17	-17	-22	-24	-16	-20	-18	-20	-22		-209	-17						30
31	-16	-21	-13	-7	-4	-12	-5	-5	-10	-11	-7	-6		-117	-10			DAYS		MEAN	31
Sum*	500	500	437	523	512	469	533	567	577	542	507	502		6169	513•	COMPLETE		30	=	17.1	
Mean*	16.7	16.7	14.6	17.4	17.1	15.6	17.8	18.9	19.2	18.1	16.9	16.7	→	205.7	→	COMPLETE		30	=	17.1	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														499•	ALL		31	=	16.1	

GODHAVN MAGNETIC OBSERVATORY SEPTEMBER 1957

TABLE 165 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	-6	-10	-17	-13	-19	-6	-9	-2	-16	-9	-19	-11		-137	-11						1
2	-7	-5	-19	-22	-17	-15	-7	6	-7	-8	-3	-17		-121	-10						2
3	-17	-20	-21	-23	-27	-25	-18	-16	-24	-6	-13	-9		-219	-18						3
4	-15	-26	-12	-19	-16	-22	-2	-13	-19	1	-17	-28		-188	-16						4
5	-25	-27	-7	-21	-5	-16	-14	-6	-9	-5	-6	0		-141	-12						5
6	-12	-9	-4	-8	-2	2	12	-8	2	11	5	13		2	0						6
7	-6	-6	2	6	-3	1	4	13	2	16	14	7		50	4						7
8	9	5	11	3	16	11	12	16	8	13	5	8		117	10						8
9	10	22	16	14	23	18	14	14	19	16	19	17		202	17						9
10	12	17	4	7	4	3	13	13	22	25	26	14		160	13						10
11	15	18	17	11	22	18	5	27	15	12	17	18		195	16						11
12	11	3	5	11	2	10	12	19	18	18	8	5		122	10						12
13	6	-10	-17	-12	7	-6	3	12	-13	-9	-3	0		-42	-4						13
14	9	-13	-1	4	5	13	1	13	9	18	12	8		78	6						14
15	12	8	15	10	11	8	12	14	22	15	8	20		155	13						15
16	8	18	5	21	3	7	39	21	23	19	9	14		187	16						16
17	18	16	19	15	20						36	19		(143)	(20)	7					17
18	20	15	16											(51)	(17)	3					18
19																0					19
20	26	14	17	27	30	21	32	28	44	32	33	27		331	28						20
21	30	30	32	21	23	27	33	40	27	6	15	19		303	25						21
22	17	22	21	30	30	32	41	34	39	20	20	14		320	27						22
23	15	15	12	10	14	17	25	19	16	14	17	24		198	16						23
24	14	12	17	26	17	26	19	21	29	40	32	30		283	24						24
25	25	25	24	37	27	35	30	28	41	34	41	31		378	32						25
26	37	35	39	38	25	35	34	28	37	28	35	37		408	34						26
27	34	33	39	33	28	28	35	23	24	32	31	33		373	31						27
28	26	32	31	27	20	16	23	29	28	33	34	33		332	28						28
29	32	28	20	28	31	27	25	11	9	12	14	10		247	21						29
30	18	5	5					13	9	12	4	5		(71)	(9)	8					30
31																		DAYS		MEAN	31
Sum*	260	211	229	246	249	265	374	384	346	378	334	317		3593	300•	COMPLETE		26	=	11.5	
Mean*	10.0	8.1	8.8	9.5	9.6	10.2	14.4	14.8	13.3	14.5	12.8	12.2	→	138.2	→	COMPLETE		26	=	11.5	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														346•	ALL		29	=	11.9	

GODHAVN MAGNETIC OBSERVATORY

OCTOBER 1957

TABLE 166 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	6	8	16	12	11	7	18	8	24	27	0	8		145	12						1
2							14	3	15	14	14	20		(80)	(13)	6					2
3	14	14	18	9	13	12	12	15	11	21	21	21		181	15						3
4	25	32	17	20	14	20	18	26	30	33	28	36		299	25						4
5	24	27	34	38	37	37	52	46	52	38	36	49		470	39						5
6	47	49	48	46	45	46	36	35	47	44	43	38		524	44						6
7	36	42	38	34	41	37	38	39	47	37	38	41		468	39						7
8	34	38	42	40	41	43	46	37	36	46	47	46		496	41						8
9	50	53	45	50	54	48	43	47	42	52	57	61		602	50						9
10	55	50	56	51	56	42	48	54	54	40	52	44		602	50						10
11	52	49	36	44	51	39	51	48	42	36	50	31		529	44						11
12	49	50	48	50	45	51	58	46	49	46	47	47		586	49						12
13	40	49	47	53	53	56	51	44	48	45	46	43		575	48						13
14	44	50	48	42	46	48	54	51	39	46	44	43		555	46						14
15	42	40	48	44	42	45	46	54	50	51	42	49		553	46						15
16	49	38	41	50	44	41	48	50	42	46	48	41		538	45						16
17	43	37	36					39	41	36	45	38		(315)	(39)	8					17
18	41	40	37	51	48	43	42	49	45	51	41	48		536	45						18
19	57	61	49	62	62	57	63	51	58	49	48	47		664	55						19
20	50	50	48	44	49	51	52	54	45	50	53	51		597	50						20
21	53	54	42	53	43	54	49	51	48	52	60	59		618	52						21
22	33	21	20	19	9	25	22	21	11	10	18	25		234	20						22
23	18	16	5	6	14	17	21	15	14	26	20	18		190	16						23
24	28	26	22	20	20	23	18	31	30	36	36	38		328	27						24
25	30	37	41	28	27	34	36	34	47	40	30	34		418	35						25
26	35	37	47	39	49	41	27	40	41	43	45	35		479	40						26
27	45	40	51	52	50	55	52	46	48	44	40	43		566	47						27
28	56	48	58	45	50	52	61	46	40	50	48	49		603	50						28
29	51	53	47	48	49	50	52	49	54	50	51	49		603	50						29
30	50	43	43	53	58	42	51	44	42	47	44	46		563	47						30
31	47	49	40	39	41	44	39	39	40	44	48	47		517	43			DAYS		MEAN	31
Sum*	1161	1164	1132	1142	1162	1160	1204	1170	1176	1200	1181	1187		14039	1178	COMPLETE		29	=	40.3	
Mean*	40.0	40.1	39.0	39.4	40.1	40.0	41.5	40.3	40.6	41.4	40.7	40.9	→	484.0	→	COMPLETE		29	=	40.3	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1222	ALL		31	=	39.4	

GODHAVN MAGNETIC OBSERVATORY

NOVEMBER 1957

TABLE 167

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	46	43	42	41	37	44	46	47	48	51	39	50		534	44						1
2	53	44	43	55	46	37	55	38	54					(425)	(47)	9					2
3																					3
4																					4
5								51	51	50	46	53		(251)	(50)	5					5
6	51	47	40	48	46	45	41	43	37	50	44	39		531	44						6
7	39	41	42	44	49	44	46	40	46	50	46	59		546	46						7
8	33	48	45	51	51	47	53	50	48	49	35	55		565	47						8
9	51	49	45	46	43	54	56	44	43	42	52	45		570	48						9
10	45	34	35	38	26	37	36	41	34	33	38	48		445	37						10
11	47	36	46	47	40	42	53	39	57	37	42	44		530	44						11
12	43	41	43	49	46	49	50	49	49	49	49			(517)	(47)	11					12
13	E								44	42	46	45		(177)	(44)	4					13
14	41	36	34	38	42	39	45	42	34	34	32	37		454	38						14
15	29	36	31	38	26	31	55	44	40	37	46	38		451	38						15
16	38	47	42	31	59	44	46	46	36	49	53	58		549	46						16
17	62	56	40	46	55	52	50	64	44	56	51	66		642	54						17
18	57	58	57	53	59	67	67	53	67	53	54	56		701	58						18
19	59	52	63	53	47	51	61	60	60	51	48	54		659	55						19
20	42	47	58	48	42	44	42							(323)	(46)	7					20
21	E								49	46	45	49		(189)	(47)	4					21
22	46	45	56	43	54	53	49	52	45	59	45	54		601	50						22
23	46	59	44	37	46	56	56	49	47	47	36	36		559	47						23
24	34	24	26	26	30	35	33	41	36	24	33	29		371	31						24
25	37	23	22	27	26	37	24	26	33	25	16	32		328	27						25
26	17	17	18	15	12	20	14	3	8	5	1	-8		122	10						26
27	8	0	2	2	3	4	9	15	22	28	25	23		141	12						27
28	17	24	24						31	25	34	31		(186)	(27)	7					28
29	26	22	31	24	21	25	24	34	28	29	22	18		304	25						29
30	24	24	25	14	26	27	31	35	34	35	19	26		320	27						30
31																		DAYS		MEAN	31
*Sum	836	797	786	762	798	854	895	868	847	844	777	859		9923	828•	COMPLETE		21	=	39.4	
*Mean	39.8	38.0	37.4	36.3	38.0	40.7	42.6	41.3	40.3	40.2	37.0	40.9	→	472.5	→	COMPLETE		21	=	39.4	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1136•	ALL		28	=	40.6	

GODHAVN MAGNETIC OBSERVATOY

DECEMBER 1957

TABLE 168

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	25	21	31	35	25	22	28	31	31	34	41	35		359	30						1
2	37	26	26	28	28	27	29	36	38	35	29	30		369	31						2
3	25	44	33	32	31	27	42	34	32	37	40	38		415	35						3
4	34	41	36	37	42	44	40	46	46	46	53	38		503	42						4
5	44	50	49	55	54	38	43	46	46	62	54	39		580	48						5
6	42	52	48	58	46	48	57	45	51	49	52	54		602	50						6
7	54	56	50	46	50	54	48	56	63	58	54	56		645	54						7
8	60	54	59	56	67	61	61	61	58	69	54	66		726	60						8
9	61	63	63	60	65	61	60	60	70	63	61	71		758	63						9
10	59	66	60	56	64	51	66	63	53	57	63	62		720	60						10
11	68	60	63	60	59	70	61	60	59	59	53	56		728	61						11
12	56	59	57	57	52	56	71	59	62	64	57	56		706	59						12
13	56	57	53	62	61	59	69	56	57	61	48	58		697	58						13
14	62	62	47	65	68	69	73	71	73	59	74	71		794	66						14
15	80	73	74	66	67	74	74	72	83	76	87	76		902	75						15
16	84	78	81	77	80	80	84	84	73	82	78	84		965	80						16
17	82	84	82	74	82	76	78	80	89	73	80	84		964	80						17
18	76	88	77	78	77	61	73	75	64	67	70	75		881	73						18
19	75	72	77	79	89	81	87	77	80	71	75	59		922	77						19
20	59	65	61	57	53	45	60	56	43	50	51	62		662	55						20
21	49	50	49	46	50	46	51	35	41	38	32	38		525	44						21
22	30	24	20	23	25	16	28	23	21	16	31	19		276	23						22
23	23	28	34	36	39	43	48	43	42	38	43	57		474	40						23
24	59	69	54	58	55	53	48	53	52	62	63	53		679	57						24
25	53	53	63	58	62	55	57	62	58	58	62	59		700	58						25
26	69	67	50	61	63	54	70	56	66	64	60	61		741	62						26
27	53	68	70	55	50	70	64	59	65	62	64	72		752	63						27
28	62	72	76	65	69	70	66	69	69	61	72	64		815	68						28
29	67	64	56	55	61	59	58	55	66	57	58	69		725	60						29
30	62	60	56	52	60	59	63	55	51	53	50	48		669	56						30
31	46	41	40	45	41	43	45	46	52	46	49	56		550	46			DAYS		MEAN	31
*Sum	1712	1767	1695	1692	1735	1672	1802	1724	1754	1727	1758	1766		20804	1734•	COMPLETE		31	=	55.9	
*Mean	55.2	57.0	54.7	54.6	56.0	53.9	58.1	55.6	56.6	55.7	56.7	57.0	→	6711	→	COMPLETE		31	=	55.9	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

TABLE 169

GODHAVN MAGNETIC OBSERVATORY

JANUARY 1958

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	56	57	59	68	65	56	63	64	57	64	68	59		736	61						1
2	67	70	58	57	57	59	63	51	60	72	63	60		737	61						2
3	74	61	62	62	62	56	63	61	74	63	68	67		773	64						3
4	69	64	63	66	66	59	61	67	72	69	78	64		798	66						4
5	71	67	75	68	68	67	79	64	76	89	63	78		865	72						5
6	76	76					74	85	67	80	87	87		(632)	(79)	8					6
7	77	75	75	81	78	82	84	76	83	80	85	80		956	80						7
8	83	78	80	85	89	83	79	99	88	96	88	94		1042	87						8
9	88	90	92	86	96	90	91	94	84	86	82	87		1066	89						9
10	82	82	85	82	92	73	77	96	92	91	93	83		1028	86						10
11	89	79	86	74	80	88	87	82	82	80	81	86		994	83						11
12	88	84	74	76	81	81	87	79	71	80	88	74		963	80						12
13	81	83	74	79	78	80	66	71	82	69	85	77		925	77						13
14	78	70	74	75	72	70	73	82	77	75	78	83		907	76						14
15	74	80	77	84	91	90	85	82	85	84	79	75		986	82						15
16	85	84	90	91	83	86	84	84	84	80	75	77		1003	84						16
17	70	69	66	62	69	68	61	71	57	75	68	66		802	67						17
18	70	64	65	60	57	55	55	51	48	51	44	44		664	55						18
19	49	47	40	42	38	42	35	38	48	46	40	34		499	42						19
20	33	37	37	39	43	37	43	33	39	37	38	41		457	38						20
21	41	39	34	39	29	37	35	41	34	40	47	46		462	38						21
22	39	40	37	35	31	28	43	27	32	28	36	24		400	33						22
23	40	35	30	36	41	39	40	35	27	42	27	40		432	36						23
24	30	34	29	40	32	35	43	34	36	36	42	31		422	35						24
25	40	37	35	36	47	33	44	39	46	41	43	42		483	40						25
26	33	31	43	42	41	52	44	46	42	45	42	48		509	42						26
27	44	47	50	53	56	54	50	47	51	50	49	53		604	50						27
28	52	53	48	56	64	54	54	48			58	58		(545)	(54)	10					28
29	43	48	63	55	40	53	56	52	55	54	50	53		622	52						29
30	56	72	62	51	58	53	60	50	50	57	50	44		663	55						30
31	44	47	52	50	49	54	56	44	57	50	48	47		598	50			DAYS		MEAN	31
*Sum	1794	1771	1767	1774	1789	1760	1807	1760	1789	1830	1798	1757		21396	1781•	COMPLETE		29	=	61.4	
*Mean	61.9	61.1	60.9	61.2	61.7	60.7	62.3	60.7	61.7	63.1	62.0	60.6	→	737.9	→	COMPLETE		29	=	61.5	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1914•	ALL		31	=	61.7	

GODHAVN MAGNETIC OBSERVATORY

FEBRUARY 1958

TABLE 170

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	52	49	55	42	47	53	44	49	55	48	48	60		602	50					1
2	50	51	51	55	47	54	56							(364)	(52)	7				2
3									40	41	36	50		(167)	(42)	4				3
4	36	38	47	40	34	36	35	34	31	34	37	40		442	37					4
5	31	35	31	31	30	32	31	27	31	21	25	30		355	30					5
6	26	30	22	24	30	30	24	24	26	26	26	27		315	26					6
7	22	28	23	18	24	24	19	21	21	22	16	29		267	22					7
8	27	34	24	24	20	16	22	18	24	25	18	25		277	23					8
9	25	27	27	25	27	19	18	19	23	17	31	22		280	23					9
10	35	27	27	29	28	23	24	30	36	25	33	26		343	29					10
11	28	22	5	4	18	34	23	19	13	19	15	23		223	19					11
12	19	20	17	15	15	18	19	21	23	28	34	27		256	21					12
13	32	24	35	30	37	36	38	44	45	42	38	39		440	37					13
14	40	42	54	37	42	43	50	41	44	43	52	49		537	45					14
15	48	53	41	53	40	49	43	36	30	49	36	39		517	43					15
16	38	30												(68)	(34)	2				16
17									30	34	16	26		(106)	(26)	4				17
18	29	28	28	29	14	23	21	24	29	33	36	36		330	28					18
19	43	33	37	30	46	37	42	45	35	39	40	35		462	38					19
20	45	34	39	45	39	38	46	44	43	43	43	38		497	41					20
21	42	46	45	36	55	47	35	38	46	39	39	42		510	42					21
22	38	40	39	44	46	46	46	46	50	39	52	52		538	45					22
23	40	52	54	48	53	46	49	51	55					(448)	(50)	9				23
24								48	56	49	56	57		(266)	(53)	5				24
25	54	50	45	46	50	43	56	57	62	54	51	54		622	52					25
26	57	53	45	57	51	52	47	53	59	55	51	53		633	53					26
27	52	50	52	54	50	50	50	47	48	55	49	53		610	51					27
28	43	58	47	46	50	56	47	52	58	61	58	62		638	53					28
29																				29
30																				30
31																	DAYS		MEAN	31
Sum*	824	821	785	759	793	805	780	789	832	817	828	861		9694	808•	COMPLETE	22	=	36.7	
Mean*	37.5	37.3	35.7	34.5	36.0	36.6	35.5	35.9	37.8	37.1	37.6	39.1	→	440.6	→	COMPLETE	22	=	36.7	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1065•	ALL	28	=	38.0	

GODHAVN MAGNETIC OBSERVATORY

MARCH 1958

TABLE 171

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	55	54	62	54	56	53	48	58	50	53	60	63		666	56					1
2	59	61	56	65	55									(296)	(59)	5				2
3								50	56	51	52	57		(266)	(53)	5				3
4	53	51	48	49	43	54	50	52	46	51	46	49		592	49					4
5	50	44	46	43	46	36	32	32	32	27	29	24		441	37					5
6	29	37	32	30	28	27	21	19	13	20	10	24		290	24					6
7	32	29	22	12	12	21	18	11	14	24	21	17		233	19					7
8	15	18	16	8	20	20	11	10	16	17	14	16		181	15					8
9	13	14	14	21	11	17	15	25	24	19	18	24		215	18					9
10	22	26	21	22	25	25	16	20	17	24	26	15		259	22					10
11	19	34	27	36	28	36	32	34	29	27	31	29		362	30					11
12	29	41	40	48	34	38								(230)	(38)	6				12
13																				13
14																				14
15										36	33	41		(110)	(37)	3				15
16	34	35	37	28	32	31	39	42		37				(315)	(35)	9				16
17																				17
18																				18
19										51	46	44		(141)	(47)	3				19
20	46			45	41				54	39	48	36		(309)	(44)	7				20
21	40	42	53	36	37	42	48	44	40	42	32	33		489	41					21
22	39	30	34	34	37	32	36	44	36	42	37	41		442	37					22
23	40	30	36	37	45	34	35	25	39	43	43	47		454	38					23
24	46	28	48	37	44	42	47	48	49	49	48	40		526	44					24
25	43	45	45	44	45	52	56	50	50	39	32	14		515	43					25
26	24	26	17	24	22	21	22	21	26	26	26	24		279	23					26
27	25	26	27	26	23	39	39	36	46	36	38	32		393	33					27
28	36	32	38	35	38	36	36	38	40	29	40	28		426	36					28
29	40	33	36	42	40	50	38	52	42	42	47	34		496	41					29
30	48	39	46	41	49	49	56	40	41	41	43	39		532	44					30
31	37	49	47	44	46	35	38	31	44	41	29	32		473	39		DAYS		MEAN	31
Sum*	706	687	715	675	695	721	694	690	694	692	670	625		8264	689•	COMPLETE	20	=	34.4	
Mean*	35.3	34.4	35.8	33.8	34.8	36.0	34.7	34.5	34.7	34.6	33.5	31.2	→	413.3	→	COMPLETE	20	=	34.4	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														1002•	ALL	27	=	37.1	

GODHAVN MAGNETIC OBSERVATORY

APRIL 1958

TABLE 172

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	34	33	41	39	35	20	41	33	45	44	44	47		456	38						1
2	39	43	26	41	41	33	37	32	37	40	33	34		436	36						2
3	33	32	35	31	36	38	25	33	26	38	32	32		391	33						3
4	32	36	30	30	35	36	32	31	33	27	31	36		389	32						4
5	29	39	23	31	30	26	28	20	23	23	32	35		339	28						5
6	29	35	28	20	27	31	12	15	18	25	20	26		286	24						6
7	24	21	16	16	19	18	26	22	27	25	26	27		267	22						7
8	33	24	30	32	22	29	28	35	32	29	34	31		359	30						8
9	30	34	42	39	43	34	42	44	45	49	44	43		489	41						9
10	45	50	41	45	41	51	44	45	42	57	42	48		551	46						10
11	48	46	43	43	43	52	44	52	47	48	47	41		554	46						11
12	47	45	48	47	45	50	50	43	48	62	48	41		574	48						12
13	46	46	43	51	56	50	45	49	48	60	46	49		589	49						13
14	53	48	44	55	50	44	44	42	45	50	53	47		575	48						14
15	58	48	46	54	46	40	42	57	43	47	49	60		590	49						15
16	53	49	44	52	45	50	51	51	40	45	41	37		558	46						16
17	36	42	49	45	46	53	46	56	55	56	45	51		580	48						17
18	54	61	56	52	50	53	41	43	40	46	49	49		594	50						18
19	48	56	41	49	45	57	46	46	55	55	51	52		601	50						19
20	41	46	44	60	56	48	51	52	57	59	60	57		631	53						20
21	57	48	43	56	46	53	62	53	56	61	62	65		662	55						21
22	53	61	57	49	48	53	53	54	52	41	47	52		620	52						22
23	57	52	48	54	52	52	61	57	54	58	52	56		653	54						23
24	56	58	55	55	51	47	42	54	61	57	69	56		661	55						24
25	52	52	47	52	58	54	44	58	52	44	37	50		600	50						25
26	44	47	49	39	45	56	44	45	52	52	37	39		549	46						26
27	58	49	36	44	56	43	48	48	45	42	46	47		562	47						27
28	46	50	41	47	34	34	44	36	29	49	39	40		489	41						28
29	40	40	38	35	34	34	28	40	32	33	42	35		431	36						29
30	36	34	24	27	19	27	26	28	19	20	11	20		291	24						30
31																		DAYS		MEAN	31
Sum*	1311	1325	1208	1290	1254	1266	1227	1274	1258	1342	1269	1303		15327	1277•	COMPLETE		30	=	42.6	
Mean*	43.7	44.2	40.3	43.0	41.8	42.2	40.9	42.5	41.9	44.7	42.3	43.4	→	510.9	→	COMPLETE		30	=	42.6	
															•	ALL			=		

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

MAY 1958

TABLE 173

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	20	33	23	24	30	19	21	17	25	36	23	26		297	25						1
2	32	28	21	30	18	27	18	26	10	21	23	20		274	23						2
3	22	29	24	33	22	23	18	28	8	28	32	23		290	24						3
4	26	31	22	28	35	24	32	30	22	37	24	23		334	28						4
5	28	34	30	24	30	26	36	28	41	40	32	34		383	32						5
6	23	31	27	28	26	32	26	24	23	33	31	22		326	27						6
7	26	25	28	29	30	36	36	43	37	35	28	34		387	32						7
8	24	27	30	36	32	31	33	41	42	29	25	37		387	32						8
9	41	29	31	32	27	27	25	22	27	21	25	23		330	28						9
10	26	27	23	31	25	28	26	39	29	24	22	36		336	28						10
11	34	36	26	26	28	36	28	32	31	33	32	34		376	31						11
12	20	29	19	31	28	32	21	32	36	31	32	24		335	28						12
13	34	24	28	27	34	44	30	34	32	33	37	34		391	33						13
14	29	25	29	27	32	31	29	31	28	32	31	25		349	29						14
15	29	28	31	16	18	20	21	42	33	21	33	37		329	27						15
16	28	29	29	34	33	34	28	28	31	36	36	34		380	32						16
17	36	39	41	33	36	33	36	41	26	40	38	48		447	37						17
18	33	33	36	30	42	40	49	37	36	38	41	38		453	38						18
19	42	42	30	35	28	43	45	40	28	35	42	35		445	37						19
20	28	25	30	28	37	34	37	31	33	36	27	33		379	32						20
21	27	29	35	37	28	33	22	31	24	31	30	16		343	29						21
22	29	23	24	34	25	27	31	31	33	33	25	28		343	29						22
23	23	30	28	31	23	32	32	28	36	31	28	28		350	29						23
24	31	39	31	33	27	28	30	36	27	36	29	33		380	32						24
25	32	28	33	38	32	43	33	39	43	41	32	36		430	36						25
26	35	43	45	45	41	39	38	45	41	43	31	40		486	40						26
27	39	30	31	34	30	32	22	35	31	34	43	39		400	33						27
28	33	32	44	40	45	46	47	36	53	46	37	44		503	42						28
29	40	42	41	36	36	30	28	7	17	23	17	19		336	28						29
30	8	20	21	19	-5	4	2	11	5	3	5	7		100	8						30
31	10	7	4	-2	9	6	-1	4	6	0	3	3		49	4			DAYS		MEAN	31
Sum*	888	927	895	927	882	940	879	949	894	960	894	913		10948	913•	COMPLETE		31	=	29.5	
Mean*	28.6	29.9	28.9	29.9	28.5	30.3	28.4	30.6	28.8	31.0	28.8	29.5	→	353.2	→	COMPLETE		31	=	29.4	
															•	ALL			=		

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

TABLE 174 — JUNE 1958

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	9	14	2	5	5	6	5	-3	7	9	8	4		71	6					1
2	7	5	11	15	12	18	18	20	18	10	20	21		175	15					2
3	22	18	19	17	20	23	16	25	21	20	18	20		239	20					3
4	25	30	21	22	32	25	25	31	23	29	28	28		319	27					4
5	20	34	24	27	23	32	27	32	15	28	22	21		305	25					5
6	28	25	19	19	20	26	11	29	12	16	16	20		241	20					6
7	22	18	19	9	3	5	17	15	14	19	14	11		166	14					7
8	5	-2	0	8	10	12	14	22	7	14	4	19		113	9					8
9	10	5	16	8	15	6	6	14	3	15	10	14		122	10					9
10	9	13	10	19	7	9	12	21	20	17	12	20		169	14					10
11	18	21	19	15	9	17	12	13	11	18	19	13		185	15					11
12	6	11	14	25	17	10	17	22	25	18	21	25		211	18					12
13	28	15	26	28	23	19	23	19	18	25	25	12		261	22					13
14	22	32	16	23	23	18	13	24	20	29	23	23		266	22					14
15	25	24	31	31	27	25	26	30	24	26	30	19		318	26					15
16	19	27	22	34	23	23	27	27	28	35	39	26		330	28					16
17	30	29	24	33	28	33	27	29	28	29	27	30		347	29					17
18	33	26	33	25	29	28	29	38	29	28	24	31		353	29					18
19	27	29	17	24	28	31	31	28	22	31	31	32		331	28					19
20	22	25	23	27	13	16	21	17	29	27	18	23		261	22					20
21	18	15	13	13	20	20	15	20	21	31	26	24		236	20					21
22	22	29	17	22	14	22	16	13	19	23	21	29		247	21					22
23	27	23	18	23	22	28	20	23	21	21	32	20		278	23					23
24	27	28	11	19	27	20	28	29	25	26	24	18		282	24					24
25	20	25	30	30	20	27	23	30	31	30	33	33		332	28					25
26	29	29	31	18	29	45	23	31	29	41	38	37		380	32					26
27	28	35	22	33	37	37	40	38	28	29	31	36		394	33					27
28	37	38	28	34	32	33	35	39	37	31	25	16		385	32					28
29	18	16	17	20	21	17	21	18	16	20	13	11		208	17					29
30	22	15	24	17	19	20	22	20	16	11	1	1		188	16					30
31																		DAYS		MEAN	31
Sum*	635	652	577	643	608	651	620	714	617	706	653	637		4713	645•	COMPLETE		30	=	21.5	
Mean*	21.2	21.7	19.2	21.4	20.3	21.7	20.7	23.8	20.6	23.5	21.8	21.2	→	257.1	→	COMPLETE		30	=	21.4	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

GODHAVN MAGNETIC OBSERVATORY

TABLE 175 — COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS — JULY 1958

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	9	3	8	8	7	18	9	4	8	0	9	3		86	7						1
2	-1	1	0	4	10	2	7	0	7	12	-5	-1		36	3						2
3	-1	6	7	5	12	7	11	4	2	5	-2	-4		52	4						3
4	14	2	0	3	-1	10	2	2	12	13	9	4		70	6						4
5	12	11	-2	2	12	11	11	-3	10	12	7	6		89	7						5
6	12	12	8	5	3	0	6	3	8	19	18	18		112	9						6
7	6	15	8	15	13	14	12	19	14	34	19	15		184	15						7
8	14	14	14	23	19	19	12	5	1	-3	-8	-8		102	8						8
9	-5	-5	-7	6	-7	-8	-8	-15	-9	-5	-3	-13		-79	-7						9
10	-10	-9	-4	-12	-6	1	0	2	11	-4	5	2		-24	-2						10
11	0	4	4	7	17	8	14	21	16	18	8	14		131	11						11
12	19	19	16	17	16	13	13	9	12	11	24	4		173	14						12
13	13	14	8	11	14	3	8	19	8	15	7	4		124	10						13
14	8	6	2	11	1	2	11	4	4	9	6	14		78	6						14
15	8	11	14	7	15	13	20	18	8	22	8	19		163	14						15
16	14	9	10	15	15	13	12	15	12	18	20	18		171	14						16
17	19	18	15	13	19	29	19	24	20	20	28	26		250	21						17
18	21	24	10	12	7	13	4	9	6	14	-4	8		124	10						18
19	10	11	1	9	-5	6	11	11	7	4	6	12		83	7						19
20	13	12	2	11	15	20	11	8	7	9	7	20		135	11						20
21	9	1	17	3	7	11	7	14	20	18	11	6		124	10						21
22	7	13	3	7	17	6	8	1	2	6	-1	-1		68	6						22
23	6	9	10	3	16	14	14	10	9	16	13	19		139	12						23
24	15	33	19	18	4	20	26	22	11	18	26	14		226	19						24
25	14	13	12	30	24	12	21	23	22	15	21	8		215	18						25
26	13	17	8	17	20	14	5	20	12	15	10	12		163	14						26
27	16	19	22	20	20	14	14	17	4	15	11	19		191	16						27
28	16	16	7	13	12	16	11	23	17	17	19	20		187	16						28
29	9	13	14	14	23	15	15	17	16	12	14	15		177	15						29
30	-1	6	8	9	8	7	9	11	8	6	-2	2		71	6						30
31	8	10	15	7	4	10	0	16	5	-1	9	2		85	7			DAYS		MEAN	31
*Sum	287	328	249	313	331	333	315	333	290	360	290	277		3706	307 ●	COMPLETE		31	=	9.9	
*Mean	9.3	10.6	8.0	10.1	10.7	10.7	10.2	10.7	9.4	11.6	9.4	8.9	→	119.6	→	COMPLETE		31	=	10.0	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM														●	ALL			=		

GODHAVN MAGNETIC OBSERVATORY

TABLE 176 — COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS — AUGUST 1958

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	-1	2	2	3	0	12	1	7	8	6	-5	6		41	3						1
2	1	0	2	2	3	4	18	17	3	16	-1	10		75	6						2
3	6	7	-5	10	7	8	5	14	3	7	4	8		74	6						3
4	6							20	9	7	24	22		(88)	(15)	6					4
5	8	20	10	19	5	18	19	22	28	25	15	21		210	18						5
6	16	26	18	12	11	9	23	18	11	21	12	22		199	17						6
7	21	24	11	21	29	27	23	26	24	27	20	39		292	24						7
8	19	21	26	16	28	29	31	33	24	30	24	34		315	26						8
9	28	26	22	25	32	40	25	30	34	30	26	34		352	29						9
10	30	36	28	39	30	41	31	25	37	48	25	38		408	34						10
11	23	30	23	36	26	36	26	27	25	33	32	43		360	30						11
12	36	24	36	24	26	30	29	29	29	41	25	38		367	31						12
13	32	33	33	33	26	37	33	46	40	39	40	39		431	36						13
14	40	31	32	42	28	39	32	38	39	38	35	43		437	36						14
15	40	42	30	34	30	43	34	33	29	33	42	43		433	36						15
16	34	35	29	40	43	25	32	26	34	34	34	38		404	34						16
17	32	35	26	19	13	25	9	22	22	13	16	20		252	21						17
18	21	16	16	21	22	22	12	12	14	19	17	20		212	18						18
19	14	11	14	12	15	27	18	22	21	25	8	23		210	18						19
20	15	18	22	26	13	12	20	26	27	15	26	15		235	20						20
21	20	22	14	14	17	28	25	26	23	24	27	20		260	22						21
22	31	31	27	30	33	17	21	17	6	21	14	15		263	22						22
23	15	13	8	16	18	19	12	18	15	28	22	18		202	17						23
24	16	22	4	-8	-8	2	14	15	16	18	3	10		104	9						24
25	1	0	-3	12	4	16	-3	9	-3	11	3	1		48	4						25
26	3	15	3	10	13	12	13	10	16	15	12	16		138	12						26
27	9	11	7	8	-1	5	3	-2	11	-2	5	8		62	5						27
28	-2	0	11	5	1	7	0	8	2	14	11	15		72	6						28
29	15	7	13	17	21	24	17	17	19	27	24	22		223	19						29
30	12	20	14	24	21	34	23	28	20	31	27	28		282	24						30
31	22	26	27	27	20	25	28	23	35	33	28	36		330	28			DAYS		MEAN	31
*Sum	557	604	500	589	526	673	574	642	612	720	571	723		7291	611•	COMPLETE		30	=	20.4	
*Mean	18.6	20.1	16.7	19.6	17.5	22.4	19.1	21.4	20.4	24.0	19.0	24.1	→	2429	→	COMPLETE		30	=	20.2	
															626•	ALL		31	=	20.2	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY SEPTEMBER 1958

TABLE 177 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean	B				Day
1	30	28	22	21	26	21	16	20	31	19	21	25	280	23					1
2	22	24	15	31	15	33	27	27	34	32	23	22	305	25					2
3	22	25	24	22	28	22	16	24	17	24	21	23	268	22					3
4	16	7	8	6	3	16	10	25	18	11	11	20	151	13					4
5	15	21	15	14	4	13	12	9	10	13	15	14	155	13					5
6	16	8	15	8	14	17	20	9	6	26	21	16	176	15					6
7	21	13	21	15	26	19	33	34	20	27	25	32	286	24					7
8	30	13	25	25	26	31	30	29	27	21	33	18	308	26					8
9	36	34	35	38	29	26	27	36	35	32	36	34	398	33					9
10	34	35	37	33	32	36	45	29	41	40	39	32	433	36					10
11	36	35	33	35	44	40	33	36	38	42	51	44	467	39					11
12	43	41	43	37	34	42	43	31	41	47	38	43	483	40					12
13	47	34	40	40	39	52	40	44	40	42	41	35	494	41					13
14	38	43	47	50	51	48	47	54	50	59	58	50	595	50					14
15	49	40	52	62	53	48	43	46	61	44	52	52	602	50					15
16	48	50	52	42	52	37	36	32	34	26	26	27	462	38					16
17	35	30	17	26	26	23	19	19	22	20	22	23	282	24					17
18	26	25	18	22	18	22	23	27	24	25	35	34	299	25					18
19	22	25	26	27	22	25	27	26	27	26	26	38	317	26					19
20	33	28	38	34	32	32	25	33	23	36	42	37	393	33					20
21	46	32	31	30	34	39	39	43	40	50	43	41	468	39					21
22	47	40	37	44	47	46	47	38	39	43	34	44	506	42					22
23	41	34	39	43	39	36	37	38	32	43	46	29	457	38					23
24	34	43	41	31	39	37	34	38	41	39	30	43	450	38					24
25	41	43	35	33	34	38	26	34	31	36	31	36	418	35					25
26	29	30	28	27	30	24	29	29	29	40	32	33	360	30					26
27	28	38	39	28	38	29	41	31	34	41	35	41	423	35					27
28	26	38	38	31	39	31	39	33	41	32	34	39	421	35					28
29	43	44	41	33	37	39	41	38	36	30	31	40	453	38					29
30	35	35	38	36	32	36	35	39	36	40	34	36	432	36					30
31																	DAYS		MEAN 31
Sum*	989	936	950	924	943	958	940	951	958	1006	986	1001	11542	962•	COMPLETE		30	=	32.1
Mean*	33.0	31.2	31.7	30.8	31.4	31.9	31.3	31.7	31.9	33.5	32.9	33.4	→ 384.7	→ •	COMPLETE		30	=	32.1
															ALL			=	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

OCTOBER 1958

TABLE 178

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	44	36	37	34	35	28	27	38	25	22	24	26		376	31						1
2	35	24	31	30	35	22	23	31	34	25	34	38		362	30						2
3	40	38	43	42	34	35	52	44	45	40	40	38		491	41						3
4	38	43	30	43	45	44	50	43	45	46	52	47		526	44						4
5	44	49	52	48	47	39	44	44	41	46	46	43		543	45						5
6	48	48	42	42	44	43	40	41	40	52	44	47		531	44						6
7	39	31	37	41	52	33	43	48	46	38	47	45		500	42						7
8	45	34	34	44	32	50	37	42	38	42	41	43		482	40						8
9	44	39	36	41	38	45	44	45	40	41	32	52		497	41						9
10	44	25	37	47	48	44	44	34	43	49	42	44		501	42						10
11	45	49	46	41	52	51	46	43	48	43	43	44		551	46						11
12	47	52	52	53	54	53	42	49	46	54	45	45		592	49						12
13	47	51	45	43	43	51	43	56	44	50	48	44		565	47						13
14	50	52	56	56	62	44	54	51	52	56	59	53		645	54						14
15	61	58	57	65	52	56	55	56	61	54	55	63		693	58						15
16	51	59	52	52	51	58	46	47	55	50	48	47		616	51						16
17	56	46	49	51	46	55	54	54	44	53	60	57		625	52						17
18	55	54	47	50	45	46	51	53	46	50	53	43		593	49						18
19	50	42	48	53	44	47	51	55	47	55	54	55		601	50						19
20	52	54	64	52	51	50	55	70	53	57	53	54		665	55						20
21	63	53	56	61	64	52	58	52	64	64	60	58		705	59						21
22	48	45	43	32	41	42	50	49	40	48	55	48		541	45						22
23	47	31	46	46	24	44	40	40	47	45	40	37		487	41						23
24	35	38	34	32	27	18	33	39	32	34	24	23		369	31						24
25	29	45	30	39	32	29	27	32	36	33	27	28		387	32						25
26	33	26	35	29	38	25	35	43	44	38	49	51		446	37						26
27	43	43	46	47	49	57	53	52	54	49	54	49		596	50						27
28	52	49	54	62	61	59	54	48	57	61	52	53		662	55						28
29	57	57	56	64	62	60	60	53	58	57	62	64		710	59						29
30	63	57	69	65	62	67	74	71	71	69	72	63		803	67						30
31	79	66	67	67	69	71	72	69	75	83	74	73		865	72			DAYS		MEAN	31
*Sum	1484	1394	1431	1472	1439	1418	1457	1492	1471	1504	1489	1475		17526	1458 ●	COMPLETE		31	=	47.1	
*Mean	47.9	45.0	46.2	47.5	46.4	45.7	47.0	48.1	47.5	48.5	48.0	47.6	→	565.4	→ ●	COMPLETE		31	=	47.1	
																ALL			=		

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY NOVEMBER 1958

TABLE 179 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130 CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	68	71	75	79	78	75	88	80	81	78	85	80		938	78					1
2	75	85	82	73	75	78	79	82	77	78	80	77		941	78					2
3	74	84	83	71	87	72	76	80	86	90	83	79		965	80					3
4	85	85	88	78	80	75	88	61	78	69	66	72		925	77					4
5	67	67	64	62	58	70	71	68	58	76	66	64		791	66					5
6	63	58	63	56	56	64	68	62	70	59	55	61		735	61					6
7	68	63	62	61	63	56	59	59	60	66	64	70		751	63					7
8	62	72	67	62	65	57	59	62	65	58	58	63		750	62					8
9	57	64	54	56	64	54	58	66	69	70	57	64		733	61					9
10	73	76	62	77	72	76	79	69	77	80	69	68		878	73					10
11	61	65	57	57	61	56	60	58	55	59	53	47		689	57					11
12	48	47	51	52	48	53	58	56	62	53	52	56		636	53					12
13	60	52	58	58	53	50	64	52	58	61	56	53		675	56					13
14	48	52	44	52	51	48	51	55	55	49	58	54		617	51					14
15	53	57	56	60	66	54	68	60	60	53	58	59		704	59					15
16	65	58	65	56	63	60	59	67	72	67	63	64		759	63					16
17	76	63	66	62	73	65	67	74	72	75	63	65		821	68					17
18	71	72	73	73	71	78	78	70	78	71	67	58		860	72					18
19	70	57	67	62	70	69	60	77	75	70	78	79		834	70					19
20	66	66	76	67	58	71	63	59	60	75	69	55		785	65					20
21	59	59	56	54	51	56	50	63	69	58	62	61		698	58					21
22	64	58	58	54	55	50	56	50	55	65	53	63		681	57					22
23	58	58	53	54	59	59	57	52	66	60	58	61		695	58					23
24	57	48	56	59	62	56	60	49	54	61	59	57		678	56					24
25	57	54	65	53	59	55	51	56	51	58	43	54		656	55					25
26	65	56	46	46	57	48	39	55	55	61	40	58		626	52					26
27	50	43	58	62	50	60	59	51	56	57	54	62		662	55					27
28	48	60	57	54	49	57	51	60	55	42	45	39		617	51					28
29	33	55	52	53	50	54	50	51	52	53	48	54		605	50					29
30	50	52	47	51	59	58	51	63	56	58	48	55		648	54					30
31																		DAYS		MEAN 31
*Sum	1851	1857	1861	1814	1863	1834	1877	1867	1937	1930	1810	1852		22353	1857•	COMPLETE		30	=	62.0
*Mean	61.7	61.9	62.0	60.5	62.1	61.1	62.6	62.2	64.6	64.3	60.3	61.7	→	7450	→	COMPLETE		30	=	62.1
															•	ALL			=	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

DECEMBER 1958

TABLE 180

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	53	69	52	57	58	59	62	68	59	64	69	59		729	61					1
2	71	61	64	65	69	56	74	69	67	68	61	59		784	65					2
3	60	59	53	62	47	57	61	62	55	53	72	50		691	58					3
4	51	48	44	45	49	48	40	49	34	50	41	51		550	46					4
5	33	48	51	62	45	51	54	49	52	55	50	54		604	50					5
6	39	50	56	55	49	48	58	49	52	46	34	43		579	48					6
7	50	48	49	52	50	47	59	60	51	55	52	51		624	52					7
8	50	57	39	53	46	50	60	49	45	59	49	52		609	51					8
9	56	41	50	51	52	48	52	53	54	63	47	46		613	51					9
10	46	51	46	51	45	60	56	51	52	55	53	48		614	51					10
11	47	58	47	56	45	46	42	46	51	58	67	55		618	52					11
12	66	62	57	55	56	58	66	58	73	74	71	65		761	63					12
13	60	66	62	66	71	58	63	63	59	58	64	68		758	63					13
14	59	62	66	62	59	57	61	63	57	65	62	61		734	61					14
15	62	68	63	64	58	60	75	68	66	65	62	57		768	64					15
16	62	61	59	67	62	62	63	65	64	66	61	71		763	64					16
17	54	60	58	59	63	63	67	73	63	67	55	62		744	62					17
18	53	64	64	54	53	56	52	56	55	51	54	60		672	56					18
19	48	57	54	52	54	61	57	56	68	60	50	75		692	58					19
20	63	53	61	55	53	72	59	59	57	53	60	47		692	58					20
21	63	50	61	58	55	66	47	59	57	60	57	61		694	58					21
22	55	58	61	65	59	65	62	60	65	61	70	72		753	63					22
23	63	68	60	64	62	63	65	66	65	74	70	63		783	65					23
24	69	63	68	61	57	63	61	62	63	63	62	66		758	63					24
25	75	66	73	61	61	75	65	74	74	61	82	73		840	70					25
26	89	77	73	73	77	74	72	64	76	70	72	69		886	74					26
27	66	82	75	69	59	76	71	67	76	72	77	68		858	72					27
28	72	78	61	73	82	72	72	80	76	63	69	69		867	72					28
29	67	67	66	82	72	74	66	66	70	69	74	75		848	71					29
30	69	83	77	81	79	76	83	80	69	87	81	86		951	79					30
31	84	79	81	86	83	90	93	88	82	88	78	82		1014	84		DAYS		MEAN	31
Sum*	1855	1914	1851	1916	1830	1911	1938	1932	1907	1953	1926	1918		22851	1905•	COMPLETE	31	=	61.5	
Mean*	59.8	61.7	59.7	61.8	59.0	61.6	62.5	62.3	61.5	63.0	62.1	61.9	→	736.9	→	COMPLETE	31	=	61.4	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL		=		

GODHAVN MAGNETIC OBSERVATORY

JANUARY 1959

TABLE 181

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	88	81	84	83	89	84	74	74	81	80	75	77		970	81						1
2	76	75	68	65	64	65	69	73	60	60	60	56		791	66						2
3	58	62	56	58	45	45	63	57	56	58	53	51		662	55						3
4	45	56	49	50	49	48	54	56	60	60	60	61		648	54						4
5	58	49	53	58	61	56	55	56	59	50	55	50		660	55						5
6	48	42	57	51	45	49	44	50	44	42	44	37		553	46						6
7	45	40	43	43	41	54	47	41	40	53	54	58		559	47						7
8	55	45	46	56	51	52	54	60	58	60	54	54		645	54						8
9	54	51	48	55	55	57	52	57	65	59	43	55		651	54						9
10	53	52	50	63	52	58	60	54	66	59	57	55		679	57						10
11	47	49	65	64	56	58	62	60	63	60	60	62		706	59						11
12	62	62	58	57	58	59	60	57	61	62	50	63		709	59						12
13	55	61	59	54	62	61	60	59	73	58	64	59		725	60						13
14	54	60	53	64	61	67	54	68	73	72	65	63		754	63						14
15	69	61	56	56	63	60	70	67	65	67	58	60		752	63						15
16	57	54	56	56	49	55	53	57	69	60	56	60		682	57						16
17	59	59	61	50	55	59	66	53	56	59	66	75		718	60						17
18	58	57	51	55	45	60	49	54	47	50	58	58		642	54						18
19	47	51	56	60	67	65	65	66	63	69	66	65		740	62						19
20	68	67	72	59	66	69	69	56	67	65	74	67		799	67						20
21	75	71	76	77	82	72	74	73	82	70	78	84		914	76						21
22	72	70	70	71	81	74	79	69	81	85	78	76		906	76						22
23	70	79	77	74	71	76	78	81	69	88	92	90		945	79						23
24	99	96	97	94	93	84	90	92	90	84	94	91		1104	92						24
25	86	97	88	87	85	84	83	82	87	79	89	86		1033	86						25
26	75	85	81	82	77	70	74	77	83	87	82	91		964	80						26
27	79	77	72	74	71	69	80	81	63	65	73	60		864	72						27
28	74	68	63	60	68	66	58	66	62	76	75	71		807	67						28
29	68	57	69	63	67	61	69	68	61	70	76	67		796	66						29
30	83	65	69	69	76	78	76	83	74	81	74	72		900	75						30
31	82	91	85	85	85	88	85	93	92	97	89	89		1061	88			DAYS		MEAN	31
Sum*	2019	1990	1988	1993	1990	2003	2026	2040	2070	2085	2072	2063		24339	2030•	COMPLETE		31	=	65.5	
Mean*	65.1	64.2	64.1	64.3	64.2	64.6	65.4	65.8	66.8	67.3	66.8	66.5	→	7851	→	COMPLETE		31	=	65.4	
															•	ALL			=		

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

TABLE 182 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	93	80	84	99	74	78	79	83	82	97	90	94		1033	86						1
2	93	88	88	89	93	96	93	92	88	93	98	79		1090	91						2
3	99	83	79	81	84	83	83	78	81	82	84	81		998	83						3
4	77	87	96	76	85	85	90	87	79	82	83	78		1005	84						4
5	80	67	77	81	79	80	81	91	71	92	85	77		961	80						5
6	84	76	83	81	72	75	82	79	85	85	77	85		964	80						6
7	76	82	85	89	73	78	81	87	78	85	78	92		984	82						7
8	85	91	88	87	79	93	88	87	82	89	79	84		1032	86						8
9	83	88	90	99	93	96	92	94	97	88	100	90		1110	92						9
10	97	100	92	96	99	89	98	98	97	105	103	102		1176	98						10
11	90	98	99	99	96	80	76	79	90	97	84	75		1063	89						11
12	77	77	71	84	72	74	80	73	72	76	77	82		915	76						12
13	89	84	83	72	90	79	82	77	79	85	80	72		972	81						13
14	89	83	83	80	79	83	86	84	89	74	73	68		971	81						14
15	74	88	74	75	68	79	68	75	76	86	76	75		914	76						15
16	72	74	75	68	68	72	64	76	71	65	68	52		825	69						16
17	55	68	65	63	68	69	65	70	71	66	73	69		802	67						17
18	75	73	86	82	71	81	79	73	85	78	82	79		944	79						18
19	66	78	82	76	71	70	89	79	75	66	72	72		896	75						19
20	74	68	57	63	68	70	75	72	70	63	72	66		818	68						20
21	65	59	60	63	62	56	62	56	63	54	63	74		737	61						21
22	68	62	46	49	52	71	61	68	71	72	70	70		760	63						22
23	57	65	64	67	70	61	59	65	66	86	64	77		801	67						23
24	73	71	70	76	75	82	80	80	76	81	72	73		909	76						24
25	67	78	69	74	79	81	83	86	84	79	86	95		961	80						25
26	89	84	90	82	84	83	79	84	74	91	89	88		1017	85						26
27	83	90	91	91	90	93	91	96	103	101	96	102		1127	94						27
28	100	91	96	96	102	95	97	107	95	100	103	98		1180	98						28
29																					29
30																					30
31																		DAYS		MEAN	31
*Sum	2230	2233	2223	2238	2196	2232	2243	2276	2250	2318	2277	2249		26965	2247●	COMPLETE		28	=	80.2	
*Mean	79.6	79.8	79.4	799	78.4	79.7	80.1	81.3	80.4	82.8	81.3	80.3	→	963.0	→	COMPLETE		28	=	80.2	
															●	ALL			=		

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

MARCH 1959

TABLE 183

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	103	96	92	100	101	100	92	106	108	104	105	95		1202	100						1
2	92	100	97	89	96	98	94	92	95	87	86	89		1115	93						2
3	87	86	90	90	82	88	86	95	86	89	86	82		1047	87						3
4	79	89	82	73	78	93	80	81	80	75	80	79		969	81						4
5	77	65	76	76	77	66	71	81	68	70	63	73		863	72						5
6	67	62	72	65	66	58	60	62	62	64	68	58		764	64						6
7	63	56	63	64	54	54	60	62	67	66	56	57		722	60						7
8	67	56	66	65	63	66	65	66	66	71	61	57		769	64						8
9	65	62	61	63	59	72	57	63	70	65	60	72		769	64						9
10	61	74	68	64	66	75	73	70	66	71	72	68		828	69						10
11	60	66	60	58	64	55	67	63	67	75	62	71		768	64						11
12	60	58	63	62	67	60	61	59	56	61	55	59		721	60						12
13	67	60	59	72	62	56	59	63	57	56	53	55		719	60						13
14	49	58	58	51	54	56	59	54	57	55	64	58		673	56						14
15	70	57	64	67	66	64	53	57	57	67	63	49		734	61						15
16	64	71	57	53	69	61	67	69	62	66	65	67		771	64						16
17	62	70	55	70	72	69	79	61	64	66	56	57		781	65						17
18	68	60	57	57	60	63	74	64	66	77	52	64		762	64						18
19	62	61	66	66	56	63	67	62	63	64	57	67		754	63						19
20	57	63	66	59	65	57	59	58	71	54	60	63		732	61						20
21	51	56	50	57	51	54	51	55	59	51	46	46		627	52						21
22	54	48	46	56	47	48	58	47	58	52	53	52		619	52						22
23	48	43	49	44	47	48	37	39	41	41	50	43		530	44						23
24	51	45	41	56	52	47	45	55	57	54	44	51		598	50						24
25	59	48	54	59	58	63	53	50	57	53	53	54		661	55						25
26	53	52	54	59	65	54	53	55	47	59	50	49		650	54						26
27	41	45	31	40	51	31	38	41	39	46	39	39		481	40						27
28	36	27	39	43	35	47	40	42	52	45	57	54		517	43						28
29	40	54	51	54	63	43	51	53	58	59	60	53		639	53						29
30	56	64	62	55	60	62	64	56	68	64	61	54		726	60						30
31	61	60	57	62	68	67	59	59	64	70	69	64		760	63			DAYS		MEAN	31
Sum*	1930	1912	1906	1949	1974	1938	1932	1940	1988	1997	1906	1899		23371	1938•	COMPLETE		31	=	62.5	
Mean*	62.3	61.7	61.5	62.9	63.7	62.5	62.3	62.6	64.1	64.4	61.5	61.3	→	750.8	→	COMPLETE		31	=	62.6	
															•	ALL			=		

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

APRIL 1959

TABLE 184 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	59	66	64	61	74	64	65	73	75	61	63	67		792	66						1
2	66	61	57	64	68	63	64	77	68	70	65	64		787	66						2
3	69	68	70	52	56	64	52	57	68	61	56	61		734	61						3
4	64	66	57	53	54	63	60	55	59	64	64	69		728	61						4
5	52	75	59	64	56	62	58	58	62	57	64	62		729	61						5
6	65	63	62	61	64	60	54	59	69	68	65	66		756	63						6
7	54	63	68	62	56	60	63	63	68	67	58	69		751	63						7
8	57	69	56	64	53	64	63	62	66	67	66	64		751	63						8
9	60	65	60	61	55	57	61	56	56	41	47	47		666	56						9
10	46	36	30	30	38	33	46	45	37	37	35	30		443	37						10
11	33	35	32	38	33	40	32	29	29	37	49	33		420	35						11
12	39	32	41	39	33	36	32	39	41	39	31	36		438	36						12
13	29	37	48	39	36	42	39	37	38	39	41	39		464	39						13
14	39	36	43	40	44	44	44	44	37	45	49	39		504	42						14
15	45	42	52	41	42	38	35	46	39	35	35	35		485	40						15
16	30	38	34	28	30	38	40	36	48	49	38	45		454	38						16
17	29	37	35	38	44	39	43	41	37	40	35	39		457	38						17
18	31	37	44	53	48	41	42	38	40	40	38	40		492	41						18
19	39	51	47	42	41	43	43	48	37	44	43	43		521	43						19
20	48	47	45	56	42	48	47	58	48	46	50	47		582	48						20
21	55	49	51	47	49	58	48	50	60	55	45	55		622	52						21
22	53	55	52	51	51	52	56	58	53	48	59	55		643	54						22
23	56	60	49	58	47	51	50	56	56	47	38	30		598	50						23
24	46	40	24	32	39	32	37	32	37	38	38	34		429	36						24
25	37	35	37	44	36	33	35	36	36	40	38	46		453	38						25
26	46	50	47	40	42	45	52	48	49	46	45	38		548	46						26
27	48	46	40	43	46	52	46	48	46	50	46	54		565	47						27
28	47	53	56	58	58	59	54	64	59	60	58	58		684	57						28
29	65	55	67	68	60	57	65	63	65	67	66	58		756	63						29
30	61	60	51	61	60	57	58	51	47	53	48	53		660	55						30
31																		DAYS		MEAN	31
Sum*	1468	1527	1478	1488	1455	1495	1484	1527	1530	1511	1473	1476		17912	149.5•	COMPLETE		30	=	49.8	
Mean*	48.9	50.9	49.3	49.6	48.5	49.8	49.5	50.9	51.0	50.4	49.1	49.2	→	597.1	→	COMPLETE		30	=	49.8	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

GODHAVN MAGNETIC OBSERVATORY MAY 1959

TABLE 185 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	44	45	57	51	40	50	42	46	42	49	42	39		547	46						1
2	44	46	39	40	46	34	37	47	51	38	45	39		506	42						2
3	40	27	35	28	43	38	29	38	42	37	40	41		438	36						3
4	39	46	34	35	39	38	35	36	45	44	48	48		487	41						4
5	42	50	44	41	47	40	41	45	47	46	43	45		531	44						5
6	38	42	41	47	40	51	42	48	43	40	46	52		530	44						6
7	48	51	55	43	51	47	47	40	47	53	52	55		589	49						7
8	45	57	56	58	42	49	49	54	55	52	54	55		626	52						8
9	44	58	58	63	55	56	65	61	58	61	70	59		708	59						9
10	50	57	60	53	53	48	53	61	56	59	55	55		660	55						10
11	48	46	43	51	50	52	47	58	50	50	47	42		584	49						11
12	15	-6	-28	-18	-11	1	10	11	7	14	18	9		22	2						12
13	-1	18	4	16	12	17	17	10	9	17	0	7		126	10						13
14	-14	-9	-16	-2	-1	-5	-2	4	-9	4	-8	-4		-62	-5						14
15	-11	2	-6	-5	-3	4	-5	0	-3	4	6	-15		-32	-3						15
16	0	-4	5	15	5	7	9	14	3	3	3	0		60	5						16
17	-2	0	2	7	2	11	6	7	4	15	12	19		83	7						17
18	9	15	17	15	17	24	19	25	21	22	16	13		213	18						18
19	22	24	17	27	24	29	25	33	22	32	36	29		320	27						19
20	27	26	26	28	23	31	34	31	27	33	26	32		344	29						20
21	23	28	22	22	36	33	28	31	39	34	30	27		353	29						21
22	21	31	35	27	25	29	26	17	32	29	32	32		336	28						22
23	28	31	37	31	32	34	35	29	22	28	24	46		377	31						23
24	35	35	30	34	33	40	38	38	37	29	33	12		394	33						24
25	25	28	11	22	28	26	34	25	23	37	33	21		313	26						25
26	27	26	17	18	21	24	27	26	28	34	26	28		302	25						26
27	32	37	26	29	32	27	28	32	27	33	38	26		367	31						27
28	23	32	25	32	26	35	33	34	36	43	26	34		379	32						28
29	34	39	33	40	36	48	26	39	40	41	41	32		449	37						29
30	18	31	32	34	32	36	35	35	26	28	32	29		368	31						30
31	29	29	33	30	35	28	29	33	32	38	37	31		384	32			DAYS		MEAN	31
Sum*	822	938	844	912	910	982	939	1008	959	1047	1003	938		11302	942	COMPLETE		31	=	30.4	
Mean*	26.5	30.3	27.2	29.4	29.4	31.7	30.3	32.5	30.9	33.8	32.4	30.3	→	364.7	→	COMPLETE		31	=	30.4	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; ● INDICATES COLUMN SUM														●	ALL			=		

GODHAVN MAGNETIC OBSERVATORY

TABLE 186 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	35	28	30	32	33	42								(200)	(33)	6				1
2	44	28	47	34	44	47	40	44	40	44	42	48		502	42					2
3	47	47	40	35	42	45	41	42	38	45	44	47		513	43					3
4	35	45	47	39	41	42	42	49	37	46	42	41		506	42					4
5	37	35	37	37	37	45	32	43	34	39	41	35		452	38					5
6	39	37	39	30	32	31	42	38	34	34	34	44		434	36					6
7	31	36	40	37	22	30	35	39	46	46	42	34		438	36					7
8	50	38	40	34	40	39	33	29	39	40	35	40		457	38					8
9	30	29	31	39	34	26	34	34	34	36	36	28		391	33					9
10	23	34	38	30	42	40	38	38	41	40	40	40		444	37					10
11	35	36	47	38	31	32	37	25	17	21	25	22		366	30					11
12	26	26	25	26	26	35	23	37	41	45	39	36		385	32					12
13	29	39	39	41	31	30	29	33	27	37	27	27		389	32					13
14	31	30	26	26	24	20	24	29	24	23	24	22		303	25					14
15	16	23	18	22	13	17	26	24	11	16	19	29		234	20					15
16	19	21	3	13	18	15	22	14	15	12	26	22		200	17					16
17	19	26	15	25	2	19	18	18	16	18	22	21		219	18					17
18	19	17	15	13	14	19	13	19	22	19	25	26		221	18					18
19	20	16	21	21	21	22	24	27	27	28	23	22		272	23					19
20	17	23	17	27	13	25	28	27	16	26	24	14		257	21					20
21	27	20	26	24	22	14	32	29	17	23	22	29		285	24					21
22	13	20	18	15	12	21	28	20	27	23	13	9		219	18					22
23	11	17	11	23	17	17	19	15	17	32	11	18		208	17					23
24	22	18	6	10	6	9	14	16	13	18	14	10		156	13					24
25	14	12	10	16	17	15	17	21	5	16	11	11		165	14					25
26	16	15	18	17	15	14	10	9	10	15	25	11		175	15					26
27	21	11	23	25	17	12	11	8	9	2	18	5		162	14					27
28	11	6	10	15	12	7	4	8	12	17	7	16		125	10					28
29	7	14	3	22				23	25	25	18	30		(167)	(19)	9				29
30	11	13	15	15	9	16	10	21	7	9	6	15		147	12					30
31																		DAYS		MEAN 31
Sum*	713	718	722	727	654	704	726	756	676	770	737	722		8625	718•	COMPLETE		28	=	25.6
Mean*	25.5	25.6	25.8	26.0	23.4	25.1	25.9	27.0	24.1	27.5	26.3	25.8	→	308.0	→	COMPLETE		28	=	25.7
															718	ALL		30	=	25.7

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

GODHAVN MAGNETIC OBSERVATORY

JULY 1959

TABLE 187

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 130
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 760 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	15	7	1	4	-1	5	-3	7	4	4	5	5		53	4						1
2	3	11	13	13	20	16	18	16	17	21	7	15		170	14						2
3	13	13	3	10	16	14	22	17	12	17	10	13		160	13						3
4	8	13	6	7	5	17	14	23	18	23	19	24		177	15						4
5	19	14	17	17	12	22	25	23	28	28	26	29		260	22						5
6	17	14	9	24	26	23	27	27	25	31	22	30		275	23						6
7	21	29	24	19	13	34	14	30	19	28	28	19		278	23						7
8	22	23	8	21	17	27	16	25	27	37	31	26		280	23						8
9	25	29	29	28	21	19	23	30	31	26	27	29		317	26						9
10	22	33	18	29	21	13	23	19	19	15	14	18		244	20						10
11	16	21	17	29	31	28	25	22	16	-1	-4	-9		191	16						11
12	-8	-13	-12	-4	-9	-4	-1	-7	0	-3	-5	1		-65	-5						12
13	-3	-2	1	4	-8	1	-7	3	-9	3	0	0		-17	-1						13
14	-7	5	3	0	8	4	-6	7	9	11	-1	6		39	3						14
15	-2	8	8	-3	12	-7	-12	-20	-48	-41	-71	-41		-217	-18						15
16	-46	-47	-38	-26	-33	-27	-40	-20	-23	-14	-25	-20		-359	-30						16
17	-19	-25	-23	-12	-23	-6	-16	-8	-19	-12	-32	-46		-241	-20						17
18	-59	-60	-60	-72	-70	-64	-53	-46	-54	-47	-50	-42		-677	-56						18
19	-45	-41	-43	-38	-40	-42	-34	-38	-34	-35	-38	-32		-460	-38						19
20	-29	-18	-30	-23	-24	-17	-19	-19	-23	-14	-21	-12		-249	-21						20
21	-10	-17	-20	-10	-19	-5	-2	-10	-18					(-111)	(-12)	9					21
22																					22
23																					23
24												-1		(-1)	(-1)	1					24
25	6	2	0	0	5	-5	1	4	9	4	4	2		32	3						25
26	12	4	-2	8	9	1	6	3	3	4	8	3		59	5						26
27	-7	12	-8	-3	-6	-9	-2	5	-5	1	-16	-15		-53	-4						27
28	3	-6	-4	9	-3	4	2	6	5	4	-2	-1		17	1						28
29	12	9	5	7	0	8	11	15	13	11	21	14		126	10						29
30	6	4	15	19	5	12	9	18	14	14	13	9		138	12						30
31	19	9	2	18	24	10	11	20	17	19	22	12		183	15			DAYS		MEAN	31
*Sum	14	48	-41	85	28	77	54	162	71	134	-8	37		661	55•	COMPLETE		27	=	2.0	
*Mean	0.5	1.8	-1.5	3.1	1.0	2.9	2.0	6.0	2.6	5.0	-0.3	1.4	→	24.5	→	COMPLETE		27	=	2.0	
															42•	ALL		29	=	1.4	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

TABLE 188

Daily Mean Departures from Balance, +130 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on Greenwich Mean Time, Godhavn Magnetic Observatory, 1954

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.												Day
1	100	99	78	74[b]	46	43	44	38	51	66	79	84												1
2	89	106	81[b]	81	46	52	39	37	47[c]	74	84	95												2
3	91	101	86	73	43	53	43	42	54[b]	71	93	100												3
4	103	98	86	72	44	48	41	41	50	74	84	94												4
5	97	94	90	75	39	47	40	41	53	72	89	89												5
6	93	90	90	80	40	48	42	38	55	74	100	93												6
7	96	99	85	80	42	44	42	34	43[f]	73	105	94												7
8	83	112[g]	79	77	48	45	42	38	44[g]	84	103	90												8
9	78	106	73	77	51	53	46	42	47	86	104	92												9
10	74	102	72	76	56	48	40	44	50	83	102	105												10
11	76	97	71	78	59	43	38	38	49	83	101	111												11
12	89	94	77	76	54	40	36	38	49	73	96	118												12
13	91	90	79	77	56	47	36	42[e]	55	76	88	121												13
14	97	96	72	69	53	49	36		61	70	94	110												14
15	98[b]	101	69	65	50	52	38		68	68	95	104												15
16	106[h]	103	68	58	52	51	43		72	56	98	100												16
17	97	101	62	56	54	47	48	47[g]	66	65	104	97												17
18	90	99	66	51	53	48	47	49	63	72	96	93[b]												18
19	81	104	69	50	49	47	49	48	65	76	94	89												19
20	86	103	74	60	52	47	44	49	66[d]	73	94	98												20
21	93	100	76	60	48	48[e]	38	46	58[e]	74	90	95												21
22	101	93	70	61	48	48	35	42	63	65	90[b]	90												22
23	103	98	74	60	53	47	36	39	65	70	90	90												23
24	108	99	74	60	56	44	40	41	66	77	81	92												24
25	112	90	73	58	52	42	36	46	69[a]	84	82	94												25
26	110	76	77	57	40	37	32	44	64	85	86	100												26
27	104	72	82	55	34	34[f]	32	46[g]	66	86	86	104[b]												27
28	94	74	78	52	40	43[i]	32	58	64[c]	83	82	106[b]												28
29	83		80	46	41	32[f]	33	52	65[d]	83	83	107												29
30	84[d]		77	43	42	53[h]	33	55	67[a]	80	81[c]	100												30
31	91		72		44		39	51		80		96												31
Mean	93.5	96.3	76.1	65.2	47.9	46.0	39.4	43.8	58.5	75.4	91.8	98.4												
	358	329	370	358	372	326	372	315	318	372	355	366	No. of Bihours											

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 189

Daily Mean Departures from Balance, +130 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on Greenwich Mean Time, Godhavn Magnetic Observatory, 1955

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.													Day
1	90	72	90	73	63	49	48	40	44	54	63	94													1
2	82	70	90	77	60	44	43	42	58	60	65	99													2
3	76	79	88	82	59	36	45	43	65	67	62	103													3
4	66	81	88	85	63	35	50	37	66	63	63	105													4
5	64	86	84	82	62	37	52	36	70	62	66	110													5
6	63	84	87	82	62	41	51	36	63	59	71	86													6
7	59	81	84	80	59	34	48	43	61[c]	59	72	70													7
8	55	83	81	76	54	37	49	50	61[c]	51	77	67													8
9	65	80	90	75	49[c]	36	49	49	62[b]	47	78[b]	70													9
10	63[b]	68	95	80	56[g]	46	51	47	67[d]	50	77	77													10
11	62	72	92	81	56	50	54[c]	41	60[g]	49	78	82													11
12	60	72	91	82	53	52	52[a]	43	57[a]	49	87	87													12
13	60	68	92	78	47	50	50	39	56	46	82	91													13
14	62	65	88	78	45	52	47	40	58	39	74	94													14
15	66	61	86	73	53	46	47	48	59	41	65	94													15
16	68	57	79	71	59	42	49	52	54	41	70	91													16
17	63	59	72	69	53	48	51	57	54	42	72	88													17
18	70	72	61	64	50	42	54	56	55	46	79	85													18
19	77	75	61	56	51	40	55	58	52	53	72	82													19
20	84	76	61	53	55	44[d]	55	54	54	67	66	79													20
21	87	84	71	57	58	45	57	55	56	73	72	86													21
22	83	84	78	63	59	41	55	52	59	75	70	89													22
23	85	86	80	69	62	50	47	53	57	71	63	89													23
24	84	80	81	74	60	55[a]	51	55	63	64	69	88													24
25	84	81	86	74	56	60[a]	50	55	64	52	73	95													25
26	86	80	78	75	55	56	43	52	71	40	77	98													26
27	82[a]	87	72	72	51	56	40	54	66	48[d]	78	96													27
28	82[g]	88	77	71	52	59	43	50	65	54	85	98													28
29	79[c]		78	64	57	53	42	45	63	54	94	103													29
30	74		75	68	58[b]	48	40	40	55	56	91	107													30
31	71		71		51[a]		41	42		57		110													31
Mean	72.6	76.1	80.9	72.8	55.7	46.1	48.7	47.2	59.8	54.5	73.7	90.7													
	355	336	372	360	359	354	368	372	340	368	358	372	No. of Bihours												

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

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 Greenwich Mean Time, Godhavn Magnetic Observatory, 1956

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.												Day
1	114	126	89	50	46[c]	45	31	31	26	59	56	84												1
2	121	123	96	51	52	43	32[a]	33	10	56	51	82												2
3	126	122	88	53	52	44	39	29	17	55	56	74												3
4	121	117	80	54	49	46	42	31	28	51	63	68												4
5	105	117	76	57	48	42	44[d]	28	36	49	71	66												5
6	90	121	76	54	46	35		39	46	57	77	71												6
7	87	118	85	42	45	30		40	51	56	86	78												7
8	91	117	94	43	52	35		43	48	57	81	81												8
9	88	107[d]	92	44	54	40	38[g]	41	41	60	81	82												9
10	86	90	85	49	55	36	37	44	39	58[f]	57	88												10
11	78	90[b]	82	47	54	32	31	40	43	59	54	90												11
12	86[b]	100	74	48	47[b]	26	32	33	43	64	60	92												12
13	102	91[e]	73	48	45	21	32	26	46	60	64	100												13
14	111	83[f]	81	50	46	25	27	27	47	58	65	98												14
15	112	80[e]	88	46	41	28	26	29	52	52[b]	55	92												15
16	108	74[b]	86	44	32	28	24	30	49	69	59	88												16
17	97	65[b]	70	43	28	28	24	36[a]	50	76[e]	60	100												17
18	95	59[f]	75	42	36	30	29	42[g]	53	77	77	100												18
19	90	46	75	43[c]	39	34	31	44	51	80	87	95												19
20	80	46[e]	79	42	39	34	32	50	49	78	88	94												20
21	72	57[e]	79	41	43	38	34	52	43	82	81	86												21
22	71	58	69	33	37	36	38	42	47	72	74	79												22
23	71	101	65	36	37	34	45[g]	35	52	67	81	82												23
24	81	74	66	41	39	26	41	22	46	69	84	84												24
25	89	76	70	41	39	19	31	22	49	71	83	79												25
26	99	70	74	47	47[d]	21	23	26	47	75	78	67												26
27	111	71	66	45	51	23	22	32	50	61	76	70												27
28	123	83	67	41	50	22	34	32	54	64	77	57												28
29	129	85	65	42	51	19	40	34	53	67	87	60												29
30	125		60	47	46[a]	19	43[c]	35	55	64	91	66[e]												30
31	122		56		44		34	33		57		64[a]												31
Mean	99.4	88.5	76.8	45.5	44.8	31.3	33.4	34.9	44.0	63.9	72.0	81.2												
	370	302	372	357	362	360	314	364	360	359	360	362	No.	of	Bihours									

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

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 Greenwich Mean Time, Godhavn Magnetic Observatory, 1957

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.													Day
1	58	70	50	49	39	20	-9[a]	20	-11	12	44	30													1
2	59	73	46	46[g]	41	24	-12	18	-10	13[f]	47[c]	31													2
3	64	67	47	47	44	23[a]	-17	18	-18	15		35													3
4	81	53[e]	45	44	44	24	-12	1	-16	25		42													4
5	85	48	48	31	49	22	-12	-14[c]	-12	39	50[g]	48													5
6	92	56	53	26	52	20	-9	-8	0	44	44	50													6
7	92	47	55[c]	30	51	24	-5	-10	4	39	46	54													7
8	87	44	58	17	48	20	3	0	10	41	47	60													8
9	85	39	60[b]	14	40	25	10	5	17	50	48	63													9
10	81	37	40	13	34	26	13	11	13	50	37	60													10
11	79	34	24	25	33	29	8	16	16	44	44	61													11
12	77	36	37	34	35	30	7	19	10	49	47[a]	59													12
13	82	31	41	43	34	29	14	18	-4	48	44[h]	58													13
14	85	30[i]	49	48	31	31	15	16	6	46	38	66													14
15	84	29[e]	52	47	24	29	20	19	13	46	38	75													15
16	87	36[f]	56	48	26	22	22[e]	17	16	45	46	80													16
17	89	30	53	46	34	27	18[h]	19	20[e]	39[d]	54	80													17
18	95	38	58	31	35	19	15	27	17[i]	45	58	73													18
19	106	44	61	29	36	12	15	31		55	55	77													19
20	107	48	61[g]	22	38	4	6	34	28	50	46[e]	55													20
21	106	44	62	20	36	2	4	40	25	52	47[h]	44													21
22	50	46	59	26	30	4	12	42	27	20	50	23													22
23	56	53	57	18	34	-6	7	37	16	16	47	40													23
24	66	53	56	24	33	-13	18	33	24	27	31	57													24
25	71	47[f]	60	34	33	-11	25	30	32	35	27	58													25
26	67	49[d]	61	39	26	-2	20	29	34	40	10	62													26
27	71	56[h]	59	42	23	3	22	20	31	47	12	63													27
28	80	54	56	43	20	7	13	18	28	50	27[e]	68													28
29	75		55	40	20	0	16	20	21	50	25	60													29
30	77		46	43	22	-11	18	-17	9[d]	47	27	56													30
31	70		46		17		20	-10		43		46													31
Mean	79.5	46.1	52.0	34.0	34.3	14.4	8.5	16.1	11.9	39.4	40.6	55.9													
	372	293	360	353	372	359	358	369	330	362	299	372	No. of Bihours												

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

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 Greenwich Mean Time, Godhavn Magnetic Observatory, 1958

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.													Day
1	61	50	56	38	25	6	7	3	23	31	78	61													1
2	61	52[e]	59[g]	36	23	15	3	6	25	30	78	65													2
3	64	42[h]	53[g]	33	24	20	4	6	22	41	80	58													3
4	66	37	49	32	28	27	6	15[f]	13	44	77	46													4
5	72	30	37	28	32	25	7	18	13	45	66	50													5
6	49[d]	26	24	24	27	20	9	17	15	44	61	48													6
7	80	22	19	22	32	14	15	24	24	42	63	52													7
8	87	23	15	30	32	9	8	26	26	40	62	51													8
9	89	23	18	41	28	10	-7	29	33	41	61	51													9
10	86	29	22	46	28	14	-2	34	36	42	73	51													10
11	83	19	30	46	31	15	11	30	39	46	57	52													11
12	80	21	38[f]	48	28	18	14	31	40	49	53	63													12
13	77	37		49	33	22	10	36	41	47	56	63													13
14	76	45		48	29	22	6	36	50	54	51	61													14
15	82	43	37[i]	49	27	26	14	36	50	58	59	64													15
16	84	34[j]	35[c]	46	32	28	14	34	38	51	63	64													16
17	67	26[h]		48	37	29	21	21	24	52	68	62													17
18	55	28		50	38	29	10	18	25	49	72	56													18
19	42	38	47[i]	50	37	28	7	18	26	50	70	58													19
20	38	41	44[i]	53	32	22	11	20	33	55	65	58													20
21	38	42	41	55	29	20	10	22	39	59	58	58													21
22	33	45	37	52	29	21	6	22	42	45	57	63													22
23	36	50[c]	38	54	29	23	12	17	38	41	58	65													23
24	35	53[g]	44	55	32	24	19	9	38	31	56	63													24
25	40	52	43	50	36	28	18	4	35	32	55	70													25
26	42	53	23	46	40	32	14	12	30	37	52	74													26
27	50	51	33	47	33	33	16	5	35	50	55	72													27
28	54[b]	53	36	41	42	32	16	6	35	55	51	72													28
29	52		41	36	28	17	15	19	38	59	50	71													29
30	55		44	24	8	16	6	24	36	67	54	79													30
31	50		39		4		7	28		72		84													31
Mean	61.7	38.0	37.1	42.6	29.5	21.5	9.9	20.2	32.1	47.1	62.0	61.5													
	366	295	278	360	372	360	372	366	360	372	360	372	No.	of	Bihours										

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

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 Greenwich Mean Time, Godhavn Magnetic Observatory, 1959

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Day
1	81	86	100	66	46	33	4						1
2	66	91	93	66	42	42	14						2
3	55	83	87	61	36	43	13						3
4	54	84	81	61	41	42	15						4
5	55	80	72	61	44	38	22						5
6	46	80	64	63	44	36	23						6
7	47	82	60	63	49	36	23						7
8	54	86	64	63	52	38	23						8
9	54	92	64	56	59	33	26						9
10	57	98	69	37	55	37	20						10
11	59	89	64	35	49	30	16						11
12	59	76	60	36	2	32	-5						12
13	60	81	60	39	10	32	-1						13
14	63	81	56	42	-5	25	3						14
15	63	76	61	40	-3	20	-18						15
16	57	69	64	38	5	17	-30						16
17	60	67	65	38	7	18	-20						17
18	54	79	64	41	18	18	-56						18
19	62	75	63	43	27	23	-38						19
20	67	68	61	48	29	21	-21						20
21	76	61	52	52	29	24	-12[c]						21
22	76	63	52	54	28	18							22
23	49	67	44	50	31	17							23
24	92	76	50	36	33	13	-1[k]						24
25	86	80	55	38	26	14	3						25
26	80	85	54	46	25	15	5						26
27	72	94	40	47	31	14	-4						27
28	67	98	43	57	32	10	1						28
29	66		53	63	37	19[c]	10						29
30	75		60	55	31	12	12						30
31	88		63		32		15						31
Mean	65.5	80.2	62.5	49.8	30.4	25.7	1.4						
	372	336	372	360	372	351	334						

No. of Bihours

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 194 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 Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Godhavn Magnetic Observatory, 1954

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	929	920	930	918	927	941	936	947	936	946	930	924	932	28
Feb.	961	955	957	953	956	976	966	966	963	958	953	941	959	27
Mar.	754	754	770	762	751	763	758	777	741	775	756	746	759	30
Apr.	646	660	652	657	651	658	649	650	642	647	638	637	649	29
May	456	484	475	485	470	500	490	491	457	490	471	477	479	31
June	452	470	466	478	491	476	478	459	440	467	465	478	468	25
July	388	406	395	395	387	395	381	399	377	390	402	405	393	31
Aug.	422	456	453	446	438	438	420	428	398	418	431	429	431	24
Sept.	576	606	594	586	590	586	584	579	594	581	594	597	589	20
Oct.	745	768	753	760	745	759	738	755	766	736	748	766	753	31
Nov.	916	914	925	935	932	924	918	914	920	919	923	924	922	28
Dec.	964	970	993	969	987	990	985	992	986	994	966	988	982	28
I	942	940	951	944	950	958	951	955	951	954	943	944	949	111
II	680	697	692	691	684	692	682	690	686	685	684	686	688	110
III	430	454	447	451	446	452	442	444	418	441	442	447	443	111
Year	684	697	697	695	693	701	692	696	685	693	690	692	693	332

TABLE 195 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 Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Godhavn Magnetic Observatory, 1955

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	717	730	690	713	716	724	723	751	716	747	707	709	720	27
Feb.	741	753	749	767	759	762	770	785	776	758	754	756	761	28
Mar.	788	805	813	810	801	820	819	800	810	838	803	805	809	31
Apr.	719	709	737	730	722	731	744	730	727	720	732	730	728	30
May	544	564	557	562	566	579	555	574	562	557	546	551	560	27
June	450	455	465	454	443	460	463	465	448	444	429	466	454	27
July	486	491	486	465	489	485	488	483	489	475	474	502	484	29
Aug.	468	495	465	493	486	465	467	465	468	460	466	467	472	31
Sept.	600	587	590	595	566	585	592	615	608	603	595	582	593	24
Oct.	548	553	541	548	545	560	549	547	545	545	544	545	548	30
Nov.	710	719	734	735	739	729	746	742	746	737	748	741	736	29
Dec.	900	907	910	899	912	898	907	923	915	912	908	898	907	31
I	767	777	771	778	782	778	786	800	788	788	779	776	781	115
II	664	664	670	671	658	674	676	673	672	676	668	666	670	115
III	487	501	493	494	496	497	493	497	492	484	479	496	492	114
Year	639	647	645	648	645	650	652	657	651	649	642	646	648	344

TABLE 196 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 Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Godhavn Magnetic Observatory, 1956

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	988	983	997	982	996	1001	1017	1021	994	997	988	1010	998	30
Feb.*	927 (945)	935 (949)	1012 (952)	1016 (961)	969 (948)	947 (947)	933 (941)	939 (950)	947 (960)	946 (961)	941 (953)	931 (945)	954 (951)	19 (18)
Mar.	763	739	765	767	769	772	767	793	781	774	768	763	768	31
Apr.	430	457	431	443	458	455	457	491	481	483	463	421	456	29
May	424	432	424	450	448	460	451	472	451	450	437	444	445	27
June	306	311	309	312	306	318	311	314	329	324	307	305	313	30
July	294	321	320	307	301	300	311	333	347	339	313	335	318	23
Aug.	342	347	357	345	358	353	330	348	344	340	331	351	346	29
Sept.	433	441	420	432	429	435	432	443	457	444	454	464	440	30
Oct.	639	630	629	625	631	644	640	654	641	659	639	659	641	28
Nov.	695	721	711	697	708	704	729	732	730	743	729	730	719	30
Dec.	824	817	822	812	824	839	814	825	827	833	814	830	823	29
I	858 (863)	864 (868)	886 (870)	877 (863)	874 (868)	873 (873)	873 (875)	879 (882)	874 (878)	880 (884)	868 (871)	875 (879)	874 (873)	108 (107)
II	566	567	561	567	572	576	574	595	590	590	581	577	576	118
III	342	353	352	354	353	358	351	367	368	363	347	359	356	109
Year	589 (590)	595 (596)	600 (594)	599 (595)	600 (598)	602 (602)	599 (600)	614 (615)	611 (612)	611 (612)	599 (600)	604 (605)	602 (602)	335 (334)

* VALUES IN ( ) EXCLUDE FEBRUARY 23

TABLE 197 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 Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Godhavn Magnetic Observatory, 1957

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	783	805	798	770	782	800	808	800	795	811	782	806	795	31
Feb.	460	475	474	459	461	484	459	465	480	500	476	480	473	21
Mar.	496	511	509	508	522	514	504	516	505	526	529	502	512	28
Apr.	320	348	322	339	334	329	345	356	330	333	336	329	335	29
May	352	340	355	334	330	341	339	359	348	354	328	323	342	31
June	138	151	128	150	151	169	141	160	128	148	119	122	142	29
July	69	49	70	68	91	91	83	74	118	92	88	100	83	28
Aug.	167	167	146	174	171	156	178	189	192	181	169	167	171	30
Sept.	100	81	88	95	96	102	144	148	133	145	128	122	115	26
Oct.	400	401	390	394	401	400	415	403	406	414	407	409	403	29
Nov.	398	380	374	363	380	407	426	413	403	402	370	409	394	21
Dec.	552	570	547	546	560	539	581	556	566	557	567	570	559	31
I	548	558	548	534	546	558	568	558	561	568	549	566	555	104
II	329	335	327	334	338	336	352	356	344	354	350	340	341	112
III	182	177	175	182	186	189	185	196	196	194	176	178	184	118
Year	353	357	350	350	357	361	368	370	367	372	358	361	360	334

TABLE 198 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 Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Godhavn Magnetic Observatory, 1958

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	619	611	609	612	617	607	623	607	617	631	620	606	615	29
Feb.	375	373	357	345	360	366	355	359	378	371	376	391	367	22
Mar.	353	344	358	338	348	360	347	345	347	346	335	312	344	20
Apr.	437	442	403	430	418	422	409	425	419	447	423	434	426	30
May	286	299	289	299	285	303	284	306	288	310	288	295	294	31
June	212	217	192	214	203	217	207	238	206	235	218	212	214	30
July	93	106	80	101	107	107	102	107	94	116	94	89	100	31
Aug.	186	201	167	196	175	224	191	214	204	240	190	241	202	30
Sept.	330	312	317	308	314	319	313	317	319	335	329	334	321	30
Oct.	449	450	462	475	464	457	470	481	475	485	480	476	471	31
Nov.	617	619	620	605	621	611	626	622	646	643	603	617	621	30
Dec.	598	617	597	618	590	616	625	623	615	630	621	619	614	31
I	552	555	546	545	547	550	557	553	564	569	555	558	554	112
II	400	387	385	388	386	390	385	392	390	403	392	389	390	111
III	194	206	182	202	192	213	196	216	198	225	198	209	202	122
Year	382	383	371	378	375	384	379	387	384	399	382	385	382	345

TABLE 199 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 Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Godhavn Magnetic Observatory, 1959

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	651	642	641	643	642	646	654	658	668	673	668	665	654	31
Feb.	796	798	794	799	784	797	801	813	804	828	813	803	802	28
Mar.	623	617	615	629	637	625	623	626	641	644	615	613	626	31
Apr.	489	509	493	496	485	498	495	509	510	504	491	492	498	30
May	265	303	272	294	294	317	303	325	309	338	324	303	304	31
June	255	256	258	260	234	251	259	270	241	275	263	258	257	28
July	5	18	- 15	31	10	29	20	60	26	50	- 3	14	20	27
Aug.														
Sept.														
Oct.														
Nov.														
Dec.														
I														
II														
III														
Year														

UNIVERSIDAD NACIONAL DE MEXICO, INSTITUTO DE GEOFISICA

JULY 1957

TABLE 200

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	16	8	2	18	11	14	15	15	15	18	7	15		154	13						1
2	14	14	11	10	10	4	5	3	15	19	14	17		136	11						2
3	9	5	8	10	3	3	9	13	19	16	21	15		131	11						3
4	11	13	14	13	12	16	17	13	11	25	22	18		185	15						4
5	17	16	14	12	11	5	7	4	3	10	14	18		131	11						5
6	15	16	11	15	21	16	13	10	16	20	24	22		199	17						6
7	18	15	19	18	15	22	19	17	20	19	17	27		226	19						7
8	24	17	20	25	15	25	12	17	21	26	31	21		254	21						8
9	20	17	23	25	12	24	25	27	33	34	31	25		296	25						9
10	27	25	24	29	25	21	24	26	24	47	34	29		335	28						10
11	23	27	22	24	26	21	29	26	22	27	30	28		305	25						11
12	24	25	29	35	20	31	32	33	34	34	28	37		362	30						12
13	33	33	28	29	28	32	31	31	32	30	33	31		371	31						13
14	25	26	34	39	37	42	38	35	33	32	28	37		406	34						14
15	34	34	30	33	30	35	29	33	35	40	28	31		392	33						15
16	37	31	30	32	36	32	28					32		(258)	(32)	8					16
17	27	29	22	23	25	15	42	36	35	36	41	36		367	31						17
18	30	30	30	33	37	30	31	32	37	39	36	32		397	33						18
19	31	28	35	34	27	29	34	25	31	28	27	28		357	30						19
20	27	24	27	27	30	25	27	25	12	21	24	23		292	24						20
21	26	29	30	30	31	28	21	24	25	26	20	31		321	27						21
22	37	23	30	28	29	18	27	22	25	34	31	28		332	28						22
23	24	26	25	23	32	21	28	21	29	33	40	29		331	28						23
24	25	29	29	23	33	38	27	23	25	29	31	36		348	29						24
25	33	33	36	30	36	26	25	30	25	35	36	35		380	32						25
26	33	28	39	33	29	33	28	31	43	37	40	37		411	34						26
27	30	39	45	43	38	35	35	39	38	30	35	36		443	37						27
28	37	27	32	30	33	29	28	30	32	30	31	29		368	31						28
29	30	34	30	35	27	31	33	26	32	30	37	49		394	33						29
30	28	26	35	26	22	31	23	30	27	31	31	25		335	28						30
31	27	33	30	26	27	29	30	26	30	34	32	29		353	29			DAYS		MEAN	31
*Sum	755	729	764	779	732	729	744	723	779	870	854	854		9312	778•	COMPLETE		30	=	25.9	
*Mean	25.2	24.3	25.5	26.0	24.4	24.3	24.8	24.1	26.0	29.0	28.5	28.5	→	310.6	→	COMPLETE		30	=	25.9	
															810•	ALL		31	=	26.1	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

AUGUST 1957

UNIVERSIDAD NACIONAL DE MEXICO, INSTITUTO DE GEOFISICA

TABLE 201 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	24	30	38	36	26	36	31	30	26	34	35	29		375	31						1
2	28	32	39	28	34	26	27	29	31	40	33	36		383	32						2
3	30	32	30	30	32	32	35	29	31	28	30	34		373	31						3
4	24	26	20	18	12	4	6	6	3	15	24	20		178	15						4
5	17	10	8	10	4	3	8	4	10	19	6	11		110	9						5
6	5	13	11	19	15	19	10	10	8	22	23	22		177	15						6
7	9	11	18	14	15	14	16	16	14	20	19	10		176	15						7
8	19	16	19	9	21	14	18	19	23	28	25	14		225	19						8
9	16	16	15	21	21	21	20	22	20	30	25	15		242	20						9
10	22	20	21	10	21	19	30	20	24	29	29	22		267	22						10
11	26	21	18	27	29	17	26	20	22	23	23	24		276	23						11
12	25	20	25	22	24	22	24	21	23	26	32	27		291	24						12
13	24	28	29	23	22	31	18	20	24	37	41	32		329	27						13
14	26	32	23	30	26	23	21	22	35	37	44	32		351	29						14
15	31	32	29	19	29	29	20	23	23	29	27	24		315	26						15
16	23	30	26	23	28	24	26	21	31	39	34	30		335	28						16
17	29	35	23	26	26	22	23	30	21	25	28	32		320	27						17
18	31	28	30	29	31	29	28	30	35	34	29	35		369	31						18
19	37	27	25	30	33	30	31	28	38	40	42	39		400	33						19
20	39	34	36	36	34	34	30	26	39	44	42	37		431	36						20
21	33	37	39	40	37	38	27	33	45	46	58	35		468	39						21
22	34	38	34	35	41	29	30	38	34	40	38	37		428	36						22
23	34	39	35	26	30	37	33	33	38	34	31	30		400	33						23
24	31	31	29	22	34	32	28	22	33	34	31	31		358	30						24
25	29	21	25	30	27	25	20	27	28	34	32	31		329	27						25
26	30	25	19	26	29	24	24	19	26	27	24	26		299	25						26
27	20	14	23	21	13	17	18	17	15	30	20	21		229	19						27
28	21	24	15	20	19	14	19	18	15	11	13	16		205	17						28
29	12	18	20	16	15	21	19	22	26	25	19	7		220	18						29
30	-3	-6	-6	-20	-19	-8	-19	-12	-12	-9	-14	-4		-132	-11						30
31	-19	-21	-10	-10	-8	-7	-11	-12	-7	-1	-7	-2		-115	-10			DAYS		MEAN	31
Sum*	707	713	706	666	701	671	636	631	722	870	836	753		8612	716•	COMPLETE		31	=	23.1	
Mean*	22.8	23.0	22.8	21.5	22.6	21.6	20.5	20.4	23.3	28.1	27.0	24.3	→	277.9	→	COMPLETE		31	=	23.2	
															•	ALL			=		

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

UNIVERSIDAD NACIONAL DE MEXICO, INSTITUTO DE GEOFISICA

TABLE 202 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	-8	-7	-1	-3	0	1	0	-5	0	-1	0	-4		-28	-2					1
2	5	10	6	3	-9	-3	5	1	3	-4	-1	1		17	1					2
3	-15	-21	-17	-9	-6	-10	-15	-8	-6	-10	-6	-6		-129	-11					3
4	-8	-8	0	-3	-2	-3	-1	4	6	6	-5	-3		-17	-1					4
5	-3	0	7	3	-4	-3	-13	-4	11	15	7	6		22	2					5
6	5	0	8	-2	-3	2	-3	4	1	15	7	11		45	4					6
7	9	4	2	-3	-1	2	0	4	5	15	12	5		54	4					7
8	-2	8	8	3	2	-2	-1	-1	2	11	2	-1		29	2					8
9	-2	12	5	14	11	5	6	-5	10	12	13	12		93	8					9
10	10	11	9	13	13	12	13	7	17	18	13	13		149	12					10
11	9	15	16	14	15	11	2	5	7	17	24	10		145	12					11
12	16	14	14	13	13	13	20	11	17	14	17	13		175	15					12
13	16	14	6	3	19	17	3	11	12	14	11	7		133	11					13
14	1	7	11	7	14	11	13	16	15	12	14	17		138	12					14
15	9	8	8	13	12	9	6	21	15	21	21	18		161	13					15
16	7	13	15	15	20	20	15	16	20	26	18	15		200	17					16
17	11	22	18	23	15	22	20	28	18	28	31	25		261	22					17
18	24	18	18	18	22	23	23	29	29	32	20	24		280	23					18
19	24	20	24	20	26	23	18	26	22	26	29	24		282	24					19
20	24	23	20	18	19	28	25	30	26	30	33	24		300	25					20
21	27	19	25	25	24	31	38	25	29	16	19	19		297	25					21
22	20	18	21	24	24	18	26	24	18	4	18	12		227	19					22
23	22	9	17	9	7	8	12	12	14	13	16	11		150	12					23
24	17	12	16	18	15	9	12	21	18	16	19	27		200	17					24
25	14	16	20	20	22	20	24	20	12	17	24	18		227	19					25
26	20	25	29	17	15	18	18	22	23	25	19	26		257	21					26
27	26	20	24	22	26	26	18	24	24	27	30	25		292	24					27
28	18	23	22	20	21	15	24	22	25	32	23	34		279	23					28
29	23	11	7	3	8	13	12	9	0	5	10	-2		99	8					29
30	-3	-6	-3	1	4	6	6	10	9	12	10	8		54	4					30
31																		DAYS		MEAN	31
Sum*	316	310	355	319	342	342	326	379	402	464	448	389		4392	365•	COMPLETE		30	=	12.2	
Mean*	10.5	10.3	11.8	10.6	11.4	11.4	10.9	12.6	13.4	15.5	14.9	13.0	→	146.3	→	COMPLETE		30	=	12.2	
															•	ALL			=		

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

UNIVERSIDAD NACIONAL DE MEXICO, INSTITUTO DE GEOFISICA

OCTOBER 1957

TABLE 203

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	10	12	5	15	16	13	11	10	18	20	14	11		155	13						1
2	14	15	19	17	16	16	15	11	4	15	17	17		176	15						2
3	20	9	12	22	12	14	4	11	20	24	12	16		176	15						3
4	9	17	17	18	7	17	22	20	13	21	18	18		197	16						4
5	8	11	16	16	17	21	21	16	25	14	24	23		212	18						5
6	13	17	22	14	20	21	17	19	9	16	19	15		202	17						6
7	23	18	22	16	20	15	17	13	15	16	20	16		211	18						7
8	19	27	19	23	19	14	20	24	15	23	21	22		246	20						8
9	19	29	26	27	22	23	26	18	28	33	29	27		307	26						9
10	24	31	30	29	29	25	26	26	29	22	30	20		321	27						10
11	26	24	23	21	24	24	23	25	23	26	32	25		296	25						11
12	19	17	18	28	19	20	28	18	18	16	18	20		239	20						12
13	22	21	25	26	28	24	23	20	22	25	19	27		282	24						13
14	26	22	24	30	34	32	22	28	24	26	27	30		325	27						14
15	28	23	28	25	24	31	27	26	26	28	35	39		340	28						15
16	24	27	30	26	26	20	23	16	29	22		22		(265)	(24)	11					16
17	25	23	19	28	21	28	25	21	23	28	29	16		286	24						17
18	24	31	17	26	18	21	16	21	12	22	22	27		257	21						18
19	20	22	22	21	20	16	19	19	17	26	25	26		253	21						19
20	22	18	17	18	23	18	21	18	22	25	21	24		247	21						20
21	22	17	23	20	13	18	8	20	29	23	45	45		283	24						21
22	18	14	-2	-17	-19	-19	-21	-15	-4	3	-12	-18		-92	-8						22
23	-12	-14	-22	-22	-16	-7	-14	-24	-1	2	4	9		-117	-10						23
24	-3	1	-7	3	-8	1	-5	0	-6	1	6	0		-17	-1						24
25	0	-3	8	3	4	6	-7	-6	0	3	1	10		19	2						25
26	8	5	5	2	10	2	5	2	7	12	12	0		70	6						26
27	3	13	14	12	18	17	10	10	8	11	13	20		149	12						27
28	11	14	13	13	13	21	10	15	13	19	25	18		185	15						28
29	14	12	18	16	18	16	4	6	11	17	11	8		151	13						29
30	14	11	18	8	9	5	13	5	6	18	18	20		145	12						30
31	9	11	15	17	17	12	10	12	14	32	32	6		187	16			DAYS		MEAN	31
*Sum	455	468	464	475	448	465	396	389	440	567	587	537		5691	477•	COMPLETE		30	=	15.9	
*Mean	15.2	15.6	15.5	15.8	14.9	15.5	13.2	13.0	14.7	18.9	19.6	17.9	→	189.8	→	COMPLETE		30	=	15.8	
															501•	ALL		31	=	16.2	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

UNIVERSIDAD NACIONAL DE MEXICO, INSTITUTO DE GEOFISICA

TABLE 204 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION +60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	10	14	11	5	8	11	15	8	9	9	16	14		130	11						1
2	14	13	24	19	22	17	14	10	11	14	20	15		193	16						2
3	23	11	18	17	13	21	12	11	12	25	19	21		203	17						3
4	16	22	18	18	19	23	18	21	18	27	25	23		248	21						4
5	21	17	19	27	17	21	25	27	14	24	27	25		264	22						5
6	24	22	26	19	28	21	21	17	21	34	29	23		285	24						6
7	17	7	13	16	23	27	15	22	32	30	21	28		251	21						7
8	23	25	19	21	28	22	22	28	15	16	17	17		253	21						8
9	29	26	22	24	30	12	25	13	18	17	18	19		253	21						9
10	29	18	24	22	25	22	15	18	22	19	29	26		269	22						10
11	24	27	18	8	14	17	16	25	22	17	26	22		236	20						11
12	22	17	19	12	27	22	15	22	25	30	36	25		272	23						12
13	28	25	26	20	18	20	26	19	37	39	26	30		314	26						13
14	26	22	27	18	22	25	18	28	27	41	30	28		312	26						14
15	24	25	19	18	24	24	18	25	26	42	40	28		313	26						15
16	23	28	26	22	22	31	18	17	21	27	20	18		273	23						16
17	23	23	26	22	23	18	20	16	20	24	18	24		257	21						17
18	25	19	27	23	23	24	28	25	13	24	28	22		281	23						18
19	22	25	16	25	27	19	22	17	20	19	19	28		259	22						19
20	26	23	27	19	22	17	18	14	17	22	28	28		261	22						20
21	22	19	28	21	24	21	18	25	23	29	33	21		284	24						21
22	19	23	16	18	32	26	23	20	26	34	24	20		281	23						22
23	17	17	21	25	24	20	19	19	22	14	19	17		234	20						23
24	12	10	4	1	5	7	8	7	17	10	11	8		100	8						24
25	5	10	21	7	3	6	9	4	7	16	10	16		114	10						25
26	18	9	-4	-16	-5	-9	-3	-11	-8	-2	-11	-6		-48	-4						26
27	-15	-26	-14	-10	-9	-7	-14	-12	-9	8	-4	-5		-117	-10						27
28	-8	-2	-4	-6								-7		(-27)	(-5)	5					28
29	-6	-2	-12	-7	-13	-16	-6	-7	-6	1	-4	-3		-81	-7						29
30	-6	1	-1	6	11	8	9	14	11	12	11	17		93	8						30
31																		DAYS		MEAN	31
Sum*	515	470	484	420	507	470	444	442	483	622	581	549		5987	500•	COMPLETE		29	=	17.2	
Mean*	17.8	16.2	16.7	14.5	17.5	16.2	15.3	15.2	16.7	21.4	20.0	18.9	→	206.4	→	COMPLETE		29	=	17.2	
															495•		ALL	30	=	16.5	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

UNIVERSIDAD NACIONAL DE MEXICO, INSTITUTO DE GEOFISICA

DECEMBER 1957

TABLE 205 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	12	10	10	10	15	7	4	5	1	14	5	5		98	8						1
2	5	3	-2	2	4	3	5	9	6	11	3	9		58	5						2
3	4	5	2	5	0	5	12	2	6	9	8	14		72	6						3
4	14	12	8	14	9	6	2	12	11	16	12	19		135	11						4
5	11	8	3	13	16	8	11	12	16	11	11	14		134	11						5
6	12	14	17	20	20	21	9	16	11	18	16	16		190	16						6
7	17	15	19	8	18	13	11	12	9	15	16	14		167	14						7
8	12	12	15	10	11	13	12	15	14	23	20	14		171	14						8
9	8	13	13	14	13	18	11	13	18	23	13	16		173	14						9
10	13	15	13	13	16	11	9	11	18	18	6	11		154	13						10
11	9	7	16	8	19	12	18	7	16	9	13	10		144	12						11
12	9	7	3	9	10	7	14	7	7	9	13	16		111	9						12
13	18	9	12	11	10	16	12	7	15	13	6	13		142	12						13
14	17	17	11	7	14	4	17	11	18	13	13	10		152	13						14
15	17	7	11	13	14	22	17	5	22	17	11	15		171	14						15
16	18	12	15	11	14	16	17	16	16	7	15	21		178	15						16
17	17	12	10	8	8	14	6	6	2	0	-1	5		87	7						17
18	10	-1	16	14	11	13	4	-4	-5	-1	0	2		59	5						18
19	3	14	12	12	13	14	5	11	16	8	0	-6		102	8						19
20	-7	-9	-13	-8	-13	-4	-3	-2	-2	-2	1	-8		-70	-6						20
21	-8	-10	-11	-6	-7	-13	-13	-10	-18	-18	-22	-16		-152	-13						21
22	-9	-20	-16	-10	-9	-3	-8	-21	-19	-18	-21	-22		-176	-15						22
23	-11	-11	-2	6	2	6	-1	2	4	-8	-1	2		-12	-1						23
24	7	12	7	8	3	4	7	0	7	3	2	4		64	5						24
25	4	5	0	5	0	2	5	10	2	1	-6	4		32	3						25
26	4	2	3	13	8	8	16	17	13	12	16	17		129	11						26
27	21	22	14	18	12	17	18	19	14	25	23	18		221	18						27
28	23	15	18	16	20	15	16	24	14	13	18	17		209	17						28
29	21	19	11	13	16	10	9	2	13	16	22	18		170	14						29
30	9	12	12	9	16	12	18	16	16	22	16	11		169	14						30
31	14	24	15	5	7	9	14	12	12	8	16	7		143	12			DAYS		MEAN	31
Sum*	294	252	242	271	290	286	274	242	273	287	244	270		3225	266•	COMPLETE		31	=	8.6	
Mean*	9.5	8.1	7.8	8.7	9.4	9.2	8.8	7.8	8.8	9.3	7.9	8.7	→	104.0	→	COMPLETE		31	=	8.7	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

UNIVERSIDAD NACIONAL DE MEXICO, INSTITUTO DE GEOFISICA

JANUARY 1958

TABLE 206

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	19	10	11					13	15	10	14	26		(118)	(15)						1
2	23	23	19	10	4	14	16	13	16	14	18	15		185	15						2
3	14	17	21	20	13	11	10	12	10	13	17	21		179	15						3
4	12	20	20	12	13	10	8	9	15	13	14	14		160	13						4
5	8	9	12	4	11	12	11	12	7	5	8	8		107	9						5
6	9	5	2	4	-3	6	6	10	8	9	7	11		74	6						6
7	8	11	9	10	5	3	7	14	10	8	15	15		115	10						7
8	12	25	7	11	9	14	7	19	18	15	15	15		167	14						8
9	17	10	9	2	5	11	8	3	21	17	14	15		132	11						9
10	14	15	17	19	16	13	16	15	12	14	16	24		191	16						10
11	13	17	15	13	22	16	10	19	20	23	25	16		209	17						11
12	11	18	16	17	21	18	20	22	18	13	23	22		219	18						12
13	18	22	15	16	17	22	12	21	11	17	19	23		213	18						13
14	18	16	19	20	19	20	15	12	17	17	20	18		211	18						14
15	21	22	22	27	25	24	21	22	20	24	15	20		263	22						15
16	12	14	26	27	25	22	25	23	18	17	15	14		238	20						16
17	14	15	6	17	16	20	15	21	10	15	15	10		174	14						17
18	11	6	10	5	7	12	10	8	6	3	8	0		86	7						18
19	4	12	16	8	16	13	10	2	10	6	1	5		103	9						19
20	8	8	7	18	12	18	8	14	6	5	4	-4		104	9						20
21	-6	5	6	7	9	4	3	-4	0	1	-4	5		26	2						21
22	0	0	8	-2	-1	4	-3	-4	-4	5	8	8		19	2						22
23	8	8	-2	12	15	5	4	6	8	16	13	4		97	8						23
24	8	-5	1	2	8	0	3	6	8	2	12	8		53	4						24
25	15	4	4	12	8	8	13	8	7	8	6	15		108	9						25
26	2	8	10	11	19	6	7	6	16	14	26	19		144	12						26
27	10	13	11	16	16	17	15	16	24	30	25	25		218	18						27
28	26	20										20		(66)	(22)	3					28
29	21	17	25	31	26	22	18	30	29	25	29	23		296	25						29
30	17	16	25	21	20	14	22	23	28	20	27	12		245	20						30
31	13	13	12	15	18	23	14	9	13	22	17	21		190	16			DAYS		MEAN	31
*Sum	335	364	368	385	391	382	331	367	382	391	428	402		4526	317•	COMPLETE		29	=	13.0	
*Mean	11.6	12.6	12.7	13.3	13.5	13.2	11.4	12.7	13.2	13.5	14.8	13.9	→	156.4	→	COMPLETE		29	=	13.0	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														414•	ALL		31	=	13.4	

UNIVERSIDAD NACIONAL DE MEXICO. INSTITUTO DE GEOFISICA

FEBRUARY 1958

TABLE 207

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	20	22	11	16	17	20	19	14	26	16	21	18		220	18						1
2	9	24	21	14	16	18	18	18	23	19	26	21		227	19						2
3	24	19	20	26	12	11	13	20	22	24	24	21		236	20						3
4	17	13	14	22	20	15	28	32	20	28	29	25		263	22						4
5	26	28	23	22	23	19	23	26	26	20	28	27		291	24						5
6	22	20	28	21	27	23	21	22	22	19	19	26		270	22						6
7	19	22	18	26	26	23	24	23	18	22	20	13		254	21						7
8	20	26	38	23	27	29	24	26	14	18	24	19		288	24						8
9	17	22	17	27	23	23	21	14	10	22	15	18		229	19						9
10	11	23	27	28	20	17	25	25	17	20	14	12		239	20						10
11	16	7	0	11	7	12	5	9	21	19	12	10		129	11						11
12	10	8	8	8	8	10	5	2	8	8	9	11		95	8						12
13	12	10	10	12	16	24	9	12	12	12	10	18		157	13						13
14	23	14	14	18	21	18	18	12	16	16	16	22		208	17						14
15	19	19	21	19	25	28	17	20	14	26	25	26		259	22						15
16	28	23	23	28	26	21	25	20	22	17	24	24		281	23						16
17	19	16	17	14	22	16	16	20	18	31	25	22		236	20						17
18	21	19	21	16	23	21	18	30	16	19	20	26		250	21						18
19	22	27	19	24	24	20	21	24	23	25	25	20		274	23						19
20	25	31	16	30	26	22	21	25	28	18	27	20		289	24						20
21	13	27	26	22	23	25	25	21	19	22	20	27		270	22						21
22	24	25	21	18	25	19	15	24	22	24	24	27		268	22						22
23	24	29	26	26	27	24	28	26	27	24	34	32		327	27						23
24	36	28	30	27	30	22	22	31	25	36	36	35		358	30						24
25	35	24	28	31	24	26	24	28	28	36	35	39		358	30						25
26	24	20	21	27	22	23	19	24	23	15	18	21		257	21						26
27	26	24	23	20	21	19	25	16	29	15	27	18		263	22						27
28	24	26	21	16	18	23	18	13	17	27	21	25		249	21						28
29																					29
30																					30
31																		DAYS		MEAN	31
Sum*	586	596	562	592	599	571	547	577	566	598	628	623		7045	586•	COMPLETE		28	=	20.9	
Mean*	20.9	21.3	20.1	21.1	21.4	20.4	19.5	20.6	20.2	21.4	22.4	22.2	→	251.5	→	COMPLETE		28	=	21.0	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

UNIVERSIDAD NACIONAL DE MEXICO. INSTITUTO DE GEOFISICA

TABLE 208 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	26	28	23	23	20	15	17	14	13	16	24	25		244	20						1
2	30	25	27	19	22	16	15	19	19	25	28	16		261	22						2
3	23	17	26	19	23	22	16	14	15	15	23	21		234	20						3
4	17	18	18	24	25	14	15	10	19	29	25	21		235	20						4
5	20	26	19	25	19	20	19	22	16	11	12	18		227	19						5
6																					6
7										12	9	8		(29)	(10)	3					7
8	10	19	14	7	13	15	6	12	6	10	14	13		139	12						8
9	13	11	19	18	17	17	10	13	14	13	13	14		172	14						9
10	13	16	15	16	21	15	12	12	14	14	24	18		190	16						10
11																					11
12																					12
13											9	19		(28)	(14)	2					13
14	19	19	22	22	24	21	19	16	20	20	14	15		231	19						14
15	11	12	18	6	7	11	2	5	5	10	13	18		118	10						15
16	18	25	14	14	13	15	15	17	13	13	21	20		198	16						16
17	23	22	22	20	17	20	15	17	21	17	24	22		240	20						17
18	22	22	20	28	21	20	24	21	30	24	23	25		280	23						18
19	25	18	28	23	23	25	21	23	26	22	21	23		278	23						19
20	18	23	31	27	20	28	17	22	21	27	21	35		290	24						20
21	27	22	21	25	23	25	27	18	18	23	21	23		273	23						21
22	22	23	23	22	10	15	17	20	16	20	19	21		228	19						22
23	25	18	24	22	19	24	19	25	23	23	28	19		269	22						23
24	25	24	21	27	19	27	18	19	25	32	29	29		295	25						24
25	25	34	27	26	25	26	19	28	32	25	23	15		305	25						25
26	4	-6	-5	-6	2	-2	0	3	8	19	4	17		38	3						26
27	3	5	1	0	-1	-3	-3	-4	3	16	15	13		45	4						27
28	9	2	13	-3	6	1	4	-3	6	10	12	11		68	6						28
29	11	12	13	1	6	10	-3	9	10	12	11	12		104	9						29
30	13	5	12	7	15	4	-2	10	9	14	15	19		121	10						30
31	13	15	17	9	15	8	4	2	8	14	11	20		136	11			DAYS		MEAN	31
Sum*	465	455	483	421	424	409	323	364	410	474	488	503		5219	435•	COMPLETE		26	=	16.7	
Mean*	17.9	17.5	18.6	16.2	16.3	15.7	12.4	14.0	15.8	18.2	18.8	19.3	→	200.7	→	COMPLETE		26	=	16.7	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														489•	ALL		28	=	16.4	

UNIVERSIDAD NACIONAL DE MEXICO. INSTITUTO DE GEOFISICA

TABLE 209 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	19	21	19	6	9	8	18	7	9	23	19	21		179	15						1
2	15	16	15	8	10	11	10	11	11	15	9	22		153	13						2
3	17	17	12	19	18	17	20	15	15	17	15	10		192	16						3
4	19	21	12	22	14	19	9	13	9	12	19	21		190	16						4
5	14	13	16	12	19	12	13	2	11	16	17	13		158	13						5
6	18	11	18	13	13	10	12	11	8	13	16	9		152	13						6
7	21	15	18	17	13	15	18	8	15	13	18	23		194	16						7
8	22	22	19	21	20	19	23	16	21	22	25	23		253	21						8
9	29	27	30	28	24	31	28	27	22	24	27	33		330	28						9
10	26	31	26	29	32	25	24	28	29	31	29	27		337	28						10
11	30	29	31	25	25	21	20	21	28	34	30	30		324	27						11
12	28	25	18	18	12	19	13	19	25	24	24	29		254	21						12
13	21	19	18	22	21	18	22	19	25	23	24	23		255	21						13
14	19	20	17	20	15	19	21	21	25	21	25	27		250	21						14
15	30	25	22	24	34	24	24	29	26	31	34	31		334	28						15
16	26	32	32	36	28	22	27	25	21	28	26	32		335	28						16
17	28	20	22	27	27	31	19	26	21	19	21	23		284	24						17
18	20	20	25	20	20	20	21	16	23	21	20	25		251	21						18
19	19	24	18	23	21	24	23	23	19	17	28	28		267	22						19
20	29	25	23	25	15	24	17	28	25	28	25	28		292	24						20
21	26	28	28	27	22	30	30	33	19	21	28	27		319	27						21
22	26	30	31	21	28	23	31	29	31	28	34	26		338	28						22
23	22	22	28	31	23	36	18	28	28	29	29	28		322	27						23
24	24	27	35	31	28	28	30	28	26	29	28	27		341	28						24
25	35	38	30	28	29	31	28	30	29	22	29	26		355	30						25
26	19	28	18	22	19	28	17	18	30	20	25	33		277	23						26
27	24	29	27	26	18	28	18	22	24	30	25	23		294	24						27
28	30	24	25	21	24	29	25	12	23			28		(241)	(24)	10					28
29	21	25	20	22	23	22	22	14	12	16	23	18		238	20						29
30	22	18	24	16	11	22	15	16	20	19	17	25		225	19						30
31																		DAYS		MEAN	31
Sum*	669	678	652	639	591	637	591	583	607	646	689	711		7693	642•	COMPLETE		29	=	22.1	
Mean*	23.1	23.4	22.5	22.0	20.4	22.0	20.4	20.1	20.9	22.3	23.8	24.5	→	265.4	→	COMPLETE		29	=	22.1	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														666•	ALL		30	=	22.2	

UNIVERSIDAD NACIONAL DE MEXICO, INSTITUTO DE GEOFISICA — MAY 1958

TABLE 210

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	19	16	16	22	19	24	22	18	23	27	18	22		246	20						1
2	23	23	19	17	23	17	24	26	30	25	16	23		266	22						2
3	21	20	25	24	22	23	30	27	28	30	22	28		300	25						3
4	25	24	24	24	20	26	32	24	32	30	27	33		321	27						4
5	28	28	33	30	27	23	26	28	26	30	36	28		343	29						5
6	25	26	30	34	24	21	23	21	25	24	32	27		312	26						6
7	31	27	28	26	22	31	25	19	14	28	30	22		303	25						7
8	23	23	30	19	24	19	17	17	18	22	26	22		260	22						8
9	28	32	27	15	12	3	0	4	11	19	19	16		186	16						9
10	18	20	7	8	11	9	19	21	26	30	26	23		218	18						10
11	20	18	17	18	15	16	20	25	22	24	24	20		239	20						11
12	26	21	19	19	25	13	14	22	13	26	31	24		253	21						12
13	25	27	28	26	16	22	15	17	26	22	25	22		271	23						13
14	22	19	18	22	21	12	16	20	21	26	22	20		239	20						14
15	16	15	18	17	24	22	23	17	14	24	20	27		237	20						15
16	24	21	24	25	30	26	24	27	28	19	19	23		290	24						16
17	23	18	23	21	24	30	23	22	26	21	23	24		278	23						17
18	23	25	23	23	24	21	29	27	21	24	21	25		286	24						18
19	21	26	29	31	24	31	29	26	27	32	30	28		334	28						19
20	24	26	25	35	30	31	27	21	31	29	25	32		336	28						20
21	30	40	32	31	33	35	25	35	35	38	30	32		396	33						21
22	28	33	29	29	29	31	27	30	30	30	29	29		354	30						22
23	34	27	23	28	31	33	28	31	33	32	35	33		368	31						23
24	33	32	27	29	29	29	28	30	33	32	33	31		366	30						24
25	32	33	28	28	36	34	24	34	35	36	36	39		395	33						25
26	40	38	32	36	34	38	37	37	31	39	33	31		426	36						26
27	31	34	37	33	28	25	29	23	30	29	35	35		369	31						27
28	30	35	29	40	34	27	34	33	36	31	31	31		391	33						28
29	37	33	28	26	26	30	24	21	12	21	29	22		309	26						29
30	17	31	27	24	21	28	19	17	20	20	26	18		268	22						30
31	22	26	29	31	20	14	12	10	17	16	19	15		231	19			DAYS		MEAN	31
*Sum	799	817	784	791	758	744	725	730	774	836	828	805		9391	785•	COMPLETE		31	=	25.3	
*Mean	25.8	26.4	25.3	25.5	24.5	24.0	23.4	23.5	25.0	27.0	26.7	26.0	→	303.1	→	COMPLETE		31	=	25.3	
															•	ALL			=		

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

UNIVERSIDAD NACIONAL DE MEXICO. INSTITUTO DE GEOFISICA

TABLE 211 — JUNE 1958

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	19	23	17	12	16	10	14	8	12	15	18	14		178	15					1
2	22	23	15	15			16			19	24	21		(155)	(19)	8				2
3	25	17	17	20	23	19	14	16	14	13	29	23		230	19					3
4	22	21	22	22	20	16	12			27	24	23		(209)	(21)	10				4
5	20	22	19	23	22	16	19	26	22	22	28	21		260	22					5
6	18	17	23	12	17	16	13	16	20	25	21	26		224	19					6
7	24	25	23	18	22	20	15	14	22	27	26	27		263	22					7
8	24	21	12	6	12	13	16	18	14	20				(156)	(16)	10				8
9																				9
10												20		(20)	(20)	1				10
11	23	23	22	22	21	19	18	13	18	16	21	26		242	20					11
12	20	23	22	20	21	28	24	19	20	22	27	24		270	22					12
13	27	22	27	25	20	22	21	28	21	33	23	25		294	24					13
14	24	29	25	31	22	24	24	22	20	17	21	24		283	24					14
15	23	28	28	25	27	25	22	25	25	21	26	26		301	25					15
16	25	23	27	24	31	39	25	24	22	21	29	28		318	26					16
17	26	25	31	34	27	26	25	23	23	35	37	31		343	29					17
18	31	34	24	32	28	26	20	14	20	28	31	34		322	27					18
19	32	33	34	26	29	19	20	27	28	36	33	32		349	29					19
20	33	30	27	17	22	16	11	17	25	32	37	27		294	24					20
21	28	28	27	20	21	18	23	28	35	32	31	35		326	27					21
22	32	26	35	25	25	20	27	19	21	26	24	29		309	26					22
23	27	24	19	21	22	26	21					27		(187)	(23)	8				23
24	25	29	28	30	27	21	26	27	26	26	26	25		316	26					24
25	25	26	32	18	23	30	27	21	23	30	31	27		313	26					25
26	27	29	30	24	20	26	27	26	26	25	28	25		313	26					26
27	29	23	29	31	29	27	19	30	34	25	27	21		324	27					27
28	28	30	23	23	19	24	20	23	24	20	16	13		263	22					28
29	15	18	20	21	17	18	20	17	21					(167)	(19)	9				29
30												16		(16)	(16)	1				30
31																		DAYS		MEAN 31
Sum*	564	565	570	512	512	491	454	466	501	547	590	563		6335	527•	COMPLETE		22	=	24.0
Mean*	25.6	25.7	25.9	23.3	23.3	22.3	20.6	21.2	22.8	24.9	26.8	25.6	→	288.0	→	COMPLETE		22	=	24.0
															661•	ALL		29	=	22.8

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

UNIVERSIDAD NACIONAL DE MEXICO. INSTITUTO DE GEOFISICA

JULY 1958

TABLE 212

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	8	6	16	4	14	6	7	8	11	14	5	10		109	9						1
2	14	13	11	17	8	4	12	11	12	18	21	12		153	13						2
3	12	11	18	9	9	11	11	9	14	23	24	10		161	13						3
4	11	17	10	5	9	11	11	7	7	13	14	9		124	10						4
5	5	8	13	10	11	6	4	8	10	13	12	17		117	10						5
6	19	13	15	14	0	6	6	3	13	10	16	16		131	11						6
7	9	9	11	19	7	5	14	18	14	20	21	16		163	14						7
8	10	16	15	13	4	5	-2	5	1	1	-2	-1		65	5						8
9	1	0	1	-8	-2	1	-2	2	0	-8	-5	-5		-25	-2						9
10	2	-4	-2	-3	1	-1	11	-1	12	7	7	8		37	3						10
11	2	4	5	9	12	21	10	11	22	15	20	14		145	12						11
12	17	19	20	21	27	20	21	22	14	20	19	20		240	20						12
13	19	17	14	16	14	13	18	19	15	16	9	13		183	15						13
14	16	15	10	10	17	13	16	14	16	16	22	11		176	15						14
15	15	14	18	14	16	19	24	14	18			17		(169)	(17)	10					15
16	12	15	15	12	17	15	13	21	16	20	18	26		200	17						16
17	16	25	19	22	22	15	21	17	17	19	28	24		245	20						17
18	23	29	22	31	21	18	14	20	16	21	24	21		260	22						18
19	28	23	16	21	20	22	21	12	19	20	17	21		240	20						19
20	22	27	21	22	25	15	18	15	27	18	25	20		255	21						20
21	23	24	21	8	15	14	17	23	25	22	14	15		221	18						21
22	20	18	10	14	5	8	14	8	12	22	15	17		163	14						22
23	16	18	20	25	26	22	18	29	30	24	14	25		267	22						23
24	25	33	37	27	21	22	25	18	24	25	30	24		311	26						24
25	30	30	26	23	27	27	26	30	18	18	24	22		301	25						25
26	24	29	26	24	22	31	14	16	22	26	19	19		272	23						26
27	31	23	20	16	23	20	25	11	21	22	18	24		254	21						27
28	14	15	12	14	9	17	22	25	28	22	25	22		225	19						28
29	19	15	24	25	23	27	25	18	22	27	26	26		277	23						29
30	20	18	24	19	14	26	22	18	19	26	31	30		267	22						30
31	21	25	16	22	28	23	21	25	19	23	22	29		274	23			DAYS		MEAN	31
Sum*	489	511	486	461	449	443	453	442	496	533	533	515		5811	484•	COMPLETE		30	=	16.1	
Mean*	16.3	17.0	16.2	15.4	15.0	14.8	15.1	14.7	16.5	17.8	17.8	17.2	→	193.8	→	COMPLETE		30	=	16.2	
															501•	ALL		31	=	16.2	

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

AUGUST 1958

UNIVERSIDAD NACIONAL DE MEXICO, INSTITUTO DE GEOFISICA

TABLE 213 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	21	21	7	11	14	14	9	14	11	15	16	16		169	14						1
2	21	14	17	16	10	15	24	15	17	25	28	26		228	19						2
3	16	19	19	25	18	18	17	19	18	29	26	23		247	21						3
4	21	22	31	30	24	32	28	27	33	28	26	26		328	27						4
5	24	29	29	26	24	24	21	25	19	28	29	28		306	26						5
6	22	32	30	31	23	25	29	31	25	28	26	30		332	28						6
7	26	29	30	22	30	21	24	29	27	29	30	32		329	27						7
8	29	24	30	23	33	22	19	30	24	24	34	33		325	27						8
9	28	31	26	22	25	30	29	38	28	28	29	29		343	29						9
10	35	28	30	31	27	32	28	25	31	33	38	31		369	31						10
11	28	26	28	25	32	30	30	33	29	31	33	32		357	30						11
12	34	30	31	28	34	34	37	31	34	31	34	30		388	32						12
13	37	26	39	34	36	35	33	31	34	31	34	39		409	34						13
14	34	43	40	35	34	44	25	39	39	36	35	37		441	37						14
15	33	35	34	40	33	30	29	35	32	30	35	37		403	34						15
16	40	40	39	39	40	37	39	27	34	30	33	39		437	36						16
17	31	30	28	16	23	15	16	8	20	17	23	16		243	20						17
18	19	15	21	11	8	7	12	15	23	21	13	20		185	15						18
19	12	14	8	15	15	23	19	21	31	22	21	19		220	18						19
20	20	19	28	26	16	20	27	22	22	22	22	23		267	22						20
21	24	26	27	26	34	29	21	28	23	25	30	25		318	26						21
22	28	33	22	23	10	17	12	12	14	20	15	19		225	19						22
23	18	18	21	21	9	16	16	18	14	17	19	29		216	18						23
24	18	16	14	10	-6	-1	8	8	18	15	9	12		121	10						24
25	8	8	-7	-3	10	4	13	10	13	16	11	6		89	7						25
26	9	1	3	1	-1	25	10	12	14	21	25	15		135	11						26
27	9	6	12	3	10	12	4	3	5	12	6	8		90	8						27
28	-4	1	4	6	13	12	4	6	11	21	21	10		105	9						28
29	11	5	9	3	6	8	11	4	14	18	8	18		115	10						29
30	14	6	11	8	12	13	12	18	13	13	22	16		158	13						30
31	18	14	17	12	14	23	16	8	14	15	17	17		185	15			DAYS		MEAN	31
Sum*	684	661	678	616	610	666	622	642	684	731	748	741		8083	673 •	COMPLETE		31	=	21.7	
Mean*	22.1	21.3	21.9	19.9	19.7	21.5	20.1	20.7	22.1	23.6	24.1	23.9	→	260.9	→	COMPLETE		31	=	21.7	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

UNIVERSIDAD NACIONAL DE MEXICO. INSTITUTO DE GEOFISICA

SEPTEMBER 1958

TABLE 214

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	10	13	23	19	16	19	17	15	20	17	19			(188)	(17)	11				1
2										29	27	23		(79)	(26)	3				2
3	17	29	18	22	12	23	26	16	22	26	13	8		232	19					3
4	12	10	12	17	23	16	11	13	10	10	18	11		163	14					4
5	9	13	9	10	12	11	5	13	5	20	9	5		121	10					5
6	6	4	9	6	4	6	13	13	10	11	10	17		109	9					6
7	9	3	12	12	14	16	23	20	8	21	25	21		184	15					7
8	15	11	14	18	14	12	13	19	16	28	37	27		224	19					8
9	11	23	15	16	16	16	19	17	15	17	21	21		207	17					9
10	20	21	15	20	20	19	19	27	21	18	20	17		237	20					10
11	23	19	19	22	20	19	13	24	16	16	25	23		239	20					11
12	19	16	27	20	27	17	24	24	29	27	22	23		275	23					12
13	20	24	20	30	32	19	25	20	26	25	23	22		286	24					13
14	32													(32)	(32)	1				14
15																				15
16																				16
17																				17
18	1	8	14	11	17	15	17	15	12	6	2	11		129	11					18
19	7	16	16	14	14	13	14	10	16	17				(137)	(14)	10				19
20																				20
21																				21
22											13	30		(43)	(22)	2				22
23	26	22	29	25	21	27	26	18	20	29	23	28		294	24					23
24	18	24	30	25	19	24	13	18	30	22	16	24		263	22					24
25	24	17	24	28	30	18	16	22	18	21	27	24		269	22					25
26	18	13	18	29	29	18	14	18	28	25	19	10		239	20					26
27	20	20	7	15	22	17	18	22	22	26	23	22		234	20					27
28	17	23	23	23	20	19	21	21	21	24	27	26		265	22					28
29	21	26	22	18	22	25	32	24	22	31	25	26		294	24					29
30	25	26	19	13	22	25	27	21	24	32	31	25		290	24					30
31																		DAYS	MEAN	31
Sum*	331	352	356	380	396	362	375	385	375	435	416	391		4554	379•	COMPLETE		20	= 19.0	
Mean*	16.6	17.6	17.8	19.0	19.8	18.1	18.8	19.2	18.8	21.8	20.8	19.6	→	227.9	→	COMPLETE		20	= 19.0	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														490•	ALL		25	= 19.6	

UNIVERSIDAD NACIONAL DE MEXICO, INSTITUTO DE GEOFISICA

TABLE 215 — OCTOBER 1958

COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	26	18	14	17	12	10	8	11	9	9	26	12		172	14						1
2	9	19	19	12	13	10	20	19	13	13	20	21		188	16						2
3	20	22	20	28	20	27	16	25	25	30	30	23		286	24						3
4	18	22	23	13	23	20	22	19	20	21	24	20		245	20						4
5	24	23	22	26	19	20	32	24	26	22	28	21		287	24						5
6	24	24	25	19	24	17	25	19	22	28	24	25		276	23						6
7	23	13	12	13	24	17	13	15	23	22	25	23		223	19						7
8	21	16	7	17	14	18	22	19	20	25	15	22		216	18						8
9	19	14	18	26	20	17	16	20	22	25	24	14		235	20						9
10	21	18	15	25	21	15	19	17	16	26	22	18		233	19						10
11	21	20	18	21	24	14	26	21	17	25	18	21		246	20						11
12	18	17	21	20	20	17	19	21	20	19	18	20		230	19						12
13	19	18	15	23	24	20	16	16	15	20	24	22		232	19						13
14	25	20	28	30	33	22	20	18	25	18	26	19		284	24						14
15	23	22	20	23	22	16	16	15	19	21	16	16		229	19						15
16	14	22	18	21	25	22	21	17	24	25	25	15		249	21						16
17	26	20	21	17	21	18	17	16	21	24	20	17		238	20						17
18	24	19	23	24	22	17	20	21	18	30	23	17		258	22						18
19	18	19	25	21	21	23	27	21	29	27	22	30		283	24						19
20	22	21	27	21	28	24	32	25	27	25	29	21		302	25						20
21	26	25	26	17	25	28	21	26	27	27	28	19		295	25						21
22	26	22	23	28	30	32	28	26	28	26	19	15		303	25						22
23	24	19	18	10	16	11	10	8	6	11	7	2		142	12						23
24	8	11	11	16	14	9	6	18	28	20	16	13		170	14						24
25	15	12	9	12	10	4	1	16	12	18	12	18		139	12						25
26	13	8	11	17	15	14	16	14	14	15	16	19		172	14						26
27	12	10	15	17	26	15	12	17	14	17	19	16		190	16						27
28	20	14	20	26	15	9	19	14	18	18	21	22		216	18						28
29	23	18	16	15	19	19	17	22	21	22	19	22		233	19						29
30	28	20	17	16	20	18	26	16	20	26	20	23		250	21						30
31	22	16	25	19	23	23	20	19	24	28	23	27		269	22			DAYS		MEAN	31
Sum*	632	562	582	610	643	546	583	575	623	683	659	593		7291	608•	COMPLETE		31	=	19.6	
Mean*	20.4	18.1	18.8	19.7	20.7	17.6	18.8	18.5	20.1	22.0	21.3	19.1	→	235.1	→	COMPLETE		31	=	19.6	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														•	ALL			=		

UNIVERSIDAD NACIONAL DE MEXICO. INSTITUTO DE GEOFISICA

NOVEMBER 1958

TABLE 216 COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60
CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B				Day
1	26	28	22	29	29	15	21	28	23	24	30	24		299	25					1
2	21	16	14	20	16	18	21	19	34	26	25	23		253	21					2
3	19	19	27	14	24	24	22	24	26	28	28	29		284	24					3
4	24	26	20	18	23	22	21	13	21	25				(213)	(21)	10				4
5																				5
6																				6
7																				7
8																				8
9																				9
10																				10
11																				11
12																				12
13																				13
14																				14
15	24	12	23	19	22	16	25	24	30	19	19	23		256	21					15
16	24	24	24	31	28	30	22	30	25	24	27	24		313	26					16
17	27	21	23	25	32	21	28	29	32	26	30	26		320	27					17
18	26	23	26	26	29	31	26	30	28	23	39	28		335	28					18
19	25	29	32	27	31	29	28	27	32	33	32	32		357	30					19
20	34	28	32	30	26	33	32	28	37	27	40	36		383	32					20
21	28	32	34	30	29	29	34	29	28	40	30	29		372	31					21
22	34	30	34	29	30	31	34	30	35	40	32	31		390	32					22
23	34	37	33	29	31	25	33	28	28	35	32	25		370	31					23
24	24	29	30	32	31	31	32	25	29	31	[40]	28		362	30					24
25	29	31	24	27	27	29	30	29	26	31	31	31		345	29					25
26	27	35	30	29	32	28	26	16	23	27	26	27		326	27					26
27	31	21	30	29	27	23	26	30	27	[37]	[42]	23		346	29					27
28	28	30	25	22	16	20	20	14	[37]	[47]	28	22		309	26					28
29	22	25	29	28	32	24	31	26	24	35	26	33		335	28					29
30	30	34	17	29	32	36	31	34	31	30	29	30		363	30					30
31																		DAYS		MEAN 31
*Sum	513	504	509	505	524	493	522	500	555	583	586	524		6318	527•	COMPLETE		19	=	27.7
*Mean	27.0	26.5	26.8	26.6	27.6	259	27.5	26.3	29.2	30.7	30.8	27.6	→	332.5	→	COMPLETE		19	=	27.7
															548•	ALL		20	=	27.4

*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM

[ ] VALUES QUESTIONABLE

UNIVERSIDAD NACIONAL DE MEXICO. INSTITUTO DE GEOFISICA

TABLE 217 — COSMIC-RAY BIHOURLY MEAN VALUES OF DEPARTURES FROM BALANCE, IN UNITS OF 0.1% OF THE TOTAL IONIZATION + 60 — DECEMBER 1958

CORRECTED FOR BURSTS AND TO BAROMETRIC PRESSURE 585 MM HG, VALUES CENTERED AT INDICATED GMT HOURS

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean	B					Day
1	38	33	35	22	26	28	33	30	30	30	34	34		373	31						1
2	25	26	27	27	26	30	33	35	35	40	41	32		377	31						2
3	29	27	31	22	27	28	31	28	31	34	28	[54]		370	31						3
4	44	32	22	20	15	23	21	19	23	[43]	24	[50]		336	28						4
5	28	23	22	29	28	32	25	27	[45]	[49]	29	36		373	31						5
6	27	24	21	22	28	21	29	27	29	33	31	36		328	27						6
7	28	33	24	26	26	26	23	24	30	26	32	36		334	28						7
8	36	33	24	33	21	23	29	24	29	28	31	28		339	28						8
9	26	27	25	29	26	28	26	24	30	28	30	28		327	27						9
10	31	28	28	27	27	22	30	25	35	[58]	[49]	26		386	32						10
11	26	33	27	27	29	21	16	21	23	[39]	29	24		315	26						11
12	26	19	28	22	24	28	22	27	32	26	[36]	18		308	26						12
13	17	26	25	22	20	21	19	23	23	23	22	26		267	22						13
14	14	24	19	21	28	22	24	22	26	23	16	21		260	22						14
15	16	13	24	22	24	24	23	29	26	31	28	24		284	24						15
16	16	20	24	25	20	21	22	30	31	22	27	26		284	24						16
17	20	26	27	17	23	22	17	33	34	37	26	20		302	25						17
18	23	16	10	6	6	12	5	13	18	15	19	11		154	13						18
19	6	8	12	14	13	18	14	8	22	16	13	15		159	13						19
20	18	16	14	17	12	20	22	16	21	22	26	21		225	19						20
21	21	21	18	25	18	16	23	19	21	20	30	21		253	21						21
22	21	18	19	21	22	23	20	24	20	24	21	25		258	22						22
23	20	19	21	15	18	18	19	14			18	30		(192)	(19)	10					23
24	27	21	26	26	32	24	19	23	20	21	29	19		287	24						24
25	23	24	23	25	28	22	22	23	29	27	30	31		307	26						25
26	30	15	24	17	30	18	23	22	19	30	27	21		276	23						26
27	23	20	24	24	23	28	21	26	19	27	26	27		288	24						27
28	24	21	28	25	18	31	24	26	20	27	29	27		300	25						28
29	22	23	26	29	22	21	23	22	21	28	28	20		285	24						29
30	26	30	24	30	27	28	27	32	25	24	28	35		336	28						30
31	24	30	26	33	30	32	27	31	32	33	32	32		362	30			DAYS		MEAN	31
Sum*	735	710	707	705	699	713	693	733	799	884	851	824		9053	755•	COMPLETE		30	=	25.2	
Mean*	24.5	23.7	23.6	23.5	23.3	23.8	23.1	24.4	26.6	29.5	28.4	27.5	→	301.9	→	COMPLETE		30	=	25.2	
	*FOR COMPLETE DAYS, B = 12; B = NO. OF BIHOURLY VALUES, 12 UNLESS INDICATED; • INDICATES COLUMN SUM														774•	ALL		31	=	25.0	

[ ] VALUES QUESTIONABLE

TABLE 218

Daily Mean Departures from Balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization) Corrected to 585 mm Hg, on Greenwich Time, Universidad Nacional de Mexico, Instituto de Geofisica, 1957

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.													Day
1							13	31	-2	13	11	8													1
2							11	32	1	15	16	5													2
3							11	31	-11	15	17	6													3
4							15	15	-1	16	21	11													4
5							11	9	2	18	22	11													5
6							17	15	4	17	24	16													6
7							19	15	4	18	21	14													7
8							21	19	2	20	21	14													8
9							25	20	8	26	21	14													9
10							28	22	12	27	22	13													10
11							25	23	12	25	20	12													11
12							30	24	15	20	23	9													12
13							31	27	11	24	26	12													13
14							34	29	12	27	26	13													14
15							33	26	13	28	26	14													15
16							32[d]	28	17	24[a]	23	15													16
17							31	27	22	24	21	7													17
18							33	31	23	21	23	5													18
19							30	33	24	21	22	8													19
20							24	36	25	21	22	-6													20
21							27	39	25	24	24	-13													21
22							28	36	19	-8	23	-15													22
23							28	33	12	-10	20	-1													23
24							29	30	17	-1	8	5													24
25							32	27	19	2	10	3													25
26							34	25	21	6	-4	11													26
27							37	19	24	12	-10	18													27
28							31	17	23	15	-5[g]	17													28
29							33	18	8	13	-7	14													29
30							28	-11	4	12	8	14													30
31							29	-10		16		12													31
Mean							26.1	23.1	12.2	16.2	16.5	8.6													
							368	372	360	371	353	372	No. of Bihours												

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 219

Daily Mean Departures from Balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization) Corrected to 585 mm Hg, on Greenwich Time, Universidad Nacional de Mexico, Instituto de Geofisica, 1958

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.													Day
1	15[d]	18	20	15	20	15	9	14	17[a]	14	25	31													1
2	15	19	22	13	22	19[d]	13	19	26[i]	16	21	31													2
3	15	20	20	16	25	19	13	21	19	24	24	31													3
4	13	22	20	16	27	21[b]	10	27	14	20	21[b]	28													4
5	9	24	19	13	29	22	10	26	10	24		31													5
6	6	22		13	26	19	11	28	9	23		27													6
7	10	21	10[i]	16	25	22	14	27	15	19		28													7
8	14	24	12	21	22	16[b]	5	27	19	18		28													8
9	11	19	14	28	16		-2	29	17	20		27													9
10	16	20	16	28	18	20[k]	3	31	20	19		32													10
11	17	11		27	20	20	12	30	20	20		26													11
12	18	8		21	21	22	20	32	23	19		26													12
13	18	13	14[f]	21	23	24	15	34	24	19		22													13
14	18	17	19	21	20	24	15	37	32[k]	24		22													14
15	22	22	10	28	20	25	17[b]	34		19	21	24													15
16	20	23	16	28	24	26	17	36		21	26	24													16
17	14	20	20	24	23	29	20	20		20	27	25													17
18	7	21	23	21	24	27	22	15	11	22	28	13													18
19	9	23	23	22	28	29	20	18	14[b]	24	30	13													19
20	9	24	24	24	28	24	21	22		25	32	19													20
21	2	22	23	27	33	27	18	26		25	31	21													21
22	2	22	19	28	30	26	14	19	22[f]	25	32	22													22
23	8	27	22	27	31	23[d]	22	18	24	12	31	19[b]													23
24	4	30	25	28	30	26	26	10	22	14	30	24													24
25	9	30	25	30	33	26	25	7	22	12	29	26													25
26	12	21	3	23	36	26	23	11	20	14	27	23													26
27	18	22	4	24	31	27	21	8	20	16	29	24													27
28	22[c]	21	6	24[b]	33	22	19	9	22	18	26	25													28
29	25		9	20	26	19[c]	23	10	24	19	28	24													29
30	20		10	19	22	16[k]	22	13	24	21	30	28													30
31	16		11		19		23	15		22		30													31
Mean	13.4	20.9	16.4	22.2	25.3	22.8	16.2	21.7	19.6	19.6	27.4	25.0													
	359	336	317	358	372	311	370	372	267	372	238	370	No of Bihours												

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 220 Diurnal Variation in Departures from Balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 585 mm Hg, on Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Universidad Nacional de Mexico, Instituto de Geofisica, 1957

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.														
Feb.														
Mar.														
Apr.														
May														
June														
July	252	243	255	260	244	243	248	241	260	290	285	285	259	30
Aug.	228	230	228	215	226	216	205	204	233	281	270	243	232	31
Sept.	105	103	118	106	114	114	109	126	134	155	149	130	122	30
Oct.	152	156	155	158	149	155	132	130	147	189	196	179	158	30
Nov.	178	162	167	145	175	162	153	152	167	214	200	189	172	29
Dec.	95	81	78	87	94	92	88	78	88	93	79	87	87	31
I														
II														
III														
Year														

TABLE 221 Diurnal Variation in Departures from Balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 585 mm Hg, on Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Universidad Nacional de Mexico, Instituto de Geofisica, 1958

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	116	126	127	133	135	132	114	127	132	135	148	139	130	29
Feb.	209	213	201	211	214	204	195	206	202	214	224	222	210	28
Mar.	179	175	186	162	163	157	124	140	158	182	188	193	167	26
Apr.	231	234	225	220	204	220	204	201	209	223	238	245	221	29
May	258	264	253	255	245	240	234	235	250	270	267	260	253	31
June	256	257	259	233	233	223	206	212	228	249	268	256	240	22
July	163	170	162	154	150	148	151	147	165	178	178	172	162	30
Aug.	221	213	219	199	197	215	201	207	221	236	241	239	217	31
Sept.	166	176	178	190	198	181	188	192	188	218	208	196	190	20
Oct.	204	181	188	197	207	176	188	185	201	220	213	191	196	31
Nov.	270	265	268	266	276	259	275	263	292	307	308	276	277	29
Dec.	245	237	236	235	233	238	231	244	266	295	284	275	252	30
I	210	210	208	211	214	208	204	210	223	238	241	228	217	106
II	195	192	194	192	193	184	176	180	189	211	212	206	194	106
III	224	226	223	210	206	206	198	200	216	233	238	232	218	114
Year	210	209	208	204	204	199	193	197	209	227	230	222	210	326