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IONOSPHERIC DATA IN JAPAN

FOR MAY 1955

Vol. 7 No. 5

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PREPARED BY THE RADIO RESEARCH LABORATORIES

KOKUBUNJI, TOKYO, JAPAN

THE RADIO RESEARCH LABORATORIES

KOKUBUNJI, TOKYO, JAPAN

IONOSPHERIC DATA IN JAPAN FOR MAY , 1955

CONTENTS

PREFACE

The origin of ionospheric sounding in Japan dates back to 1931 and the results of the work have been published in the form of the monthly "Ionospheric Data in Japan" since 1949. As a result of the reform of administrative structure of the Japanese Government effective on August 1, 1952, the observation, data coordination and publication were handed over to the charge of the Radio Resarch Laboratories newly set up within the Ministry of Postal Services.

The Radio Research Laboratories consists of three Divisions, i. e., First, Second and Administrative Divisions, located in Tokyo and five local radio wave observatories established at Wakkanai, Akita, Hiraiso, Inubo and Yamagawa, respectively.

The First Division has the following three sections:

Ionospheric Propagation Section which shall carry on researches on ionosphere and wave propagation;

Tropospheric Propagation Section which shall carry on researches on troposphere and wave propagation; and

Data Coordination Section which shall conduct the collection and arrangement of observational results, supply of operational data relating to radio propagation, preparation of radio propagation forecasts and radio disturbance warnings broadcast of URSIGRAM and physical basic studies of wave propagation in general.

The Second Division has the following two sections:

Frequency Standard Section which shall carry on researches on the frequency standard and broadcast the standard frequencies and time signals (J. J. Y.); and

Apparatus Section which shall carry on researches on radio apparatus used for radio regulatory purpose and conduct the approval service of types of radio equipments.

The Administrative Division shall conduct the general affairs of the Laboratories.

The ionospheric sounding is, as heretofore, being carried out by the four observatories at Wakkanai, Akita, Kokubunji (Tokyo) and Yamagawa.

This report prevides the results of ionospheric sounding with symbols determined and in the form established on an international basis in the same way as followed by the former Radio Regulatory Commission and it is hoped that it will make any contribution toward the progress in world-wide short wave communications.

This report is intended for distribution on request to the largest possible number of organizations concerned all over the world, and any and every information that the organizations concerned might forward to us in exchange therefor would be highly appreciated.

Shogo Amari
Chief, Radio Research Laboratories,
Ministry of Postal Services

Aug, 1952

SITES OF THE IONOSPHERIC STATIONS

Ionospheric observation is carried out at the following four stations in Japan.

	Latitude	Longitude	Site
Wakkanai	45° 23.6′ N.	141° 41.1′ E.	Wakkanai-shi, Hokkaido
Akita	39° 43.5′ N.	140° 03.2′ E.	Tegata Nishishin-machi, Akita-shi, Akita-ken
Kokubunji	35° 42.4′ N.	139° 29.3′ E.	Koganei-machi, Kitatama-gun, Tokyo-to
Yamagawa	31° 12.5′ N.	130° 37.7′ E.	Yamagawa-machi, Ibusuki-gun, Kagoshima-ken

REMARKS ON SYMBOLS

All symbols in the table are used in accordance with "Production and Reduction of Ionospheric Data Standards. Symbols and Conventions (Recommendation No. 6 of Stockholm) at VIth Plenary Assembly C. C. I. R. Geneva, 1951" except f_{min} E and f_{min} F for E and F regions respectively instead of f_{min}, taken as f_{min} s in the above Resolution, in order to avoid the interruption of preceding form of data.

SOLAR RADIO EMISSION

Data on solar radio emission observed at Hiraiso Radio Wave Observatory has appeared from Vol. 6 No. 8 (F-68).

The location of the Observatory is as follows:

	Latitude	Longitude	Site
Hiraiso	36° 22.0′ N.	140° 37.5′ E.	Hiraiso-machi, Nakaminato-shi, Ibaragi-ken

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

Wakkanai

Lat. 45° 23.6' N
Long. 141° 41.1' E

May. 1955

foF2

135° E Mean Time

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	4.5^{F}	4.6^{F}	4.5^{F}	4.2^{F}	4.2	4.5	4.8	4.8	5.5	[5.5]^{A}	5.5	[5.5]^{A}	5.5	6.2	5.7	5.5	6.1	6.0	5.8	5.8	5.6	[6.3]^{A}	7.0	(6.9)^{F}
2	(4.5)^{F}	4.5^{F}	4.1^{PF}	4.1^{F}	3.9^{F}	4.0	4.5	[4.6]^{B}	4.7	5.3	[5.4]^{A}	5.5	A	A	5.5	5.5	5.8	5.8	5.7	5.7^{F}	5.3	4.7	F	F
3	F	5.3^{F}	[4.7]^{B}	4.1^{F}	4.1^{F}	4.8	4.2	5.0	6.1	A	A	6.2	6.3	6.2	6.5	5.6	6.4	5.6	5.7	6.5	6.3	5.7	4.5	4.5
4	4.1	4.6	4.5	[4.4]^{F}	4.2^{F}	4.6	6.0	5.3	5.4	5.9	5.8	6.2	5.7	5.7	6.3	6.1	6.3	6.1	6.0	6.5	6.7	6.5	5.8^{P}	4.8
5	4.5	4.5	4.4	4.5	4.5	5.0^{H}	5.1	5.9	5.6	6.0	6.9	6.5	5.9	6.2	5.8	6.0	6.2	6.9	6.9	7.9^{P}	7.8^{P}	5.5	4.5	4.3
6	4.5	F	F	F	F	5.2	5.7	5.2	5.3	C	C	C	C	C	C	5.4	5.5	5.8	6.0	7.0^{P}	6.8	6.4	5.3	4.8
7	4.5	4.5	4.0	3.3	3.3	[3.6]^{A}	3.9	4.3	4.8	A	B	4.9	4.8	4.6	5.1	4.9	5.6	5.6	5.1	5.3	5.5	5.2	4.0	3.8^{J}
8	A	A	3.5^{F}	3.6	3.8^{VF}	3.6	A	A	5.0	C	C	C	C	C	C	C	7.5	7.3	7.8^{J}	7.0	7.0^{J}	6.0	5.3	5.2
9	4.7	5.1	F	A	3.8^{F}	3.6	4.5	4.5	5.5	[5.1]^{A}	4.7	B	B	A	4.7	5.1	5.5	6.5	5.6	6.2	6.5	6.1	[5.5]^{S}	5.0
10	4.7	4.4	S	F	4.0^{J}	4.5	5.0	5.4^{J}	[5.4]^{B}	5.4^{J}	4.8	5.0	A	B	B	5.0	[5.0]^{A}	5.0	[5.6]^{A}	6.2	6.4	6.2	5.7^{Js}	5.7^{Js}
11	S	FS	F	F	S	4.6	5.3^{J}	5.5	5.9	5.3^{J}	6.0	6.0	5.2^{F}	5.7	6.1	5.8	6.0	7.0	7.0	7.0	6.3^{Js}	5.7^{JF}	5.3	(4.2)^{JF}
12	SF	SF	F	F	F	4.9	5.3	5.6	5.8	A	A	5.5	6.0	5.5	5.8	6.3	6.1	6.1	6.1	7.0	7.0	6.0	4.8^{Fs}	4.5
13	4.0	3.9	3.8^{Js}	(3.9)^{F}	4.1	4.5	5.2	5.6	5.0	5.7	5.9	5.2	B	B	5.6^{J}	A	A	A	A	A	6.5	6.5	5.2^{J}	[4.8]^{S}
14	4.5	4.0^{S}	SF	SF	4.2	4.2	5.1	6.4	5.6	5.9	[5.6]^{B}	5.3^{J}	[5.4]^{B}	5.4^{J}	5.3^{J}	5.2^{J}	5.5	5.9	5.8	6.8	6.8^{J}	6.5^{S}	6.0	(5.3)^{Js}
15	4.5	S	S	S	S	B	B	A	B	B	B	A	A	A	A	A	4.8	4.6	4.8	5.0	5.3	5.3^{F}	5.1	4.8
16	4.3	4.5	4.3	4.5	4.6	4.5	4.8	5.5	5.2	5.3	5.3	5.3	5.4	6.3	6.7	7.0	7.0	7.0	6.5	4.4	5.1	5.1	A	A
17	A	A	A	A	F	4.5^{F}	4.3	B	A	4.7	[4.8]^{A}	4.9	[5.2]^{B}	5.4	5.1	5.0	4.6	5.3	5.3	6.0	6.3	5.5	A	A
18	FS	FS	FS	4.2^{F}	4.1^{F}	4.3	5.0	5.3	5.7	5.3	5.3	4.9	4.9	5.0	4.9	A	A	A	6.3	7.0	7.5	6.8	5.5	5.3
19	F	F	4.0	4.0	4.2	5.0	5.7	6.0	6.1	6.2	5.0	5.2	5.3	5.6	5.7	5.9	5.5	A	A	6.5	S	S	(4.9)^{S}	4.1^{Js}
20	S	FS	4.0	4.0^{F}	4.0^{F}	4.6	5.2	6.2	6.4	6.0	5.7	5.9	B	A	5.6	5.9	6.3	6.5	6.5	6.7	(6.7)^{Js}	6.5^{S}	A	A
21	FS	FS	FS	FS	4.7	5.2	5.5	[6.4]^{A}	7.2	A	A	5.6	5.5	5.5	5.8	6.1	A	A	A	A	SF	A	FS	FS
22	(5.0)^{SF}	FS	F	F	4.6	4.8	5.1	5.8	5.9	C	C	C	C	C	C	C	C	A	A	6.3^{F}	FS	SF	A	FS
23	FS	FS	SF	F	4.9	5.0^{F}	6.3	6.0	6.7	6.1	5.7	5.3	[5.5]^{A}	5.7	5.5	5.6	6.0	6.1	6.0	A	F	7.2	6.9^{S}	5.7
24	5.3	5.3	5.1	4.5	4.8	6.2	5.7	6.6	5.7	5.5	C	C	C	5.6	5.3	5.5	6.2	6.2	6.2	6.7	6.5	6.2	6.2	6.0
25	6.0	5.6	5.5	(5.6)^{S}	4.5	4.8	5.5	6.5	7.0	7.0	5.6	5.6	5.7	6.1	6.3	A	C	6.2	6.5	6.6	F	A^{S}	A	A^{S}
26	SF	FS	SF	F	F	5.0	6.8^{J}	7.5	8.8^{J}	6.3	6.0	6.3	5.8	5.8	5.9	6.3	5.9	6.5^{J}	6.3	6.6	6.8	7.2^{J}	6.3	6.0
27	5.6	5.6	5.2	5.4^{J}	5.4^{J}	5.5	5.3	5.2	5.6	5.2	A	A	A	A	6.0	[6.0]^{A}	5.9	6.2^{J}	6.3	6.7	6.1	6.2	SF	SF
28	5.8^{Js}	S	S	SF	4.6	4.5	5.5	A	A	A	A	A	A	5.7	6.0	6.1	5.9	6.1	6.5	6.5	6.5	6.6	[6.4]^{A}	6.3
29	6.1	5.5	5.0	4.5	4.2	4.2	4.6	5.3	5.0	A	A	5.5	6.0	5.6	5.3	5.1	5.5	5.5	6.2	6.7	6.2	6.0	5.6^{F}	5.6
30	5.3^{J}	5.0^{Js}	F	F	4.1	4.4	5.0	5.3	5.5	6.8	[6.2]^{A}	5.5	5.8	5.7	5.5	5.5	5.4	5.3	5.5	6.1	7.0	7.2	5.9	5.3
31	5.3^{J}	5.0	[4.8]^{Fs}	4.7	4.8^{S}	4.0	4.8	5.1	5.4	5.6	5.3	[5.3]^{A}	5.3	5.5	5.3	5.5	6.0	6.0	5.9	6.3^{J}	(6.6)^{Js}	6.7	[6.6]^{S}	6.4
Mean Value	4.9	4.8	4.5	4.3	4.3	4.6	5.2	5.6	5.8	5.7	5.6	5.5	5.5	5.7	5.7	5.7	5.9	6.0	6.1	6.4	6.4	6.2	5.6	5.2
Median Value	4.6	4.6	4.4	4.2	4.2	4.6	5.1	5.5	5.6	5.6	5.6	5.5	5.5	5.7	5.6	5.6	5.9	6.0	6.0	6.6	6.5	6.2	5.5	5.2
Count	20	17	16	17	25	30	29	27	28	21	19	23	19	21	26	25	26	26	27	28	26	27	23	23

foF2

Sweep 1.0 Mc to 22.0 Mc in 1 min ☐ Manual ☒ Automatic

W 1

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

May. 1955 | h'F2 | 135° E Mean Time | Wakkanai | Lat. 45° 23.6' N | Long. 141° 41.1' E

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	290	290	260	270	250	250	290	330A	A	A	350	[360]A	360	340	340	350	290	270	270	270A	300A	[320]A	(350)A	(350)AF
2	290	300	300	280	250	240	280	[400]B	530	330	[340]A	(340)A	A	A	350	330	300	280	280	270	270	300	280	300F
3	270	290	290F	270	270	270	240	280	300A	A	A	340	310	350	330	330	290	300	270A	250	250A	270A	300A	310A
4	280	270	290	300	270	290	260	260	290	320	320	320	330	370	320	320	310	290	280	260A	270A	270A	260A	240
5	300	320A	280	260	250	240HL	320L	300	310	320	310	300	320	330	330	310	310	290	290	250A	240	230	260	300
6	(350)A	[350]F	350AF	270F	250F	270	270	370	340	C	C	C	C	C	C	360	(340)A	340A	320A	260A	260	250	260	330
7	320	280	300	250	A	A	450	550	400	A	B	470	470	510	370	450	320	300	270	280	270	240	290	A
8	A	A	330	310	260	250	A	A	A	C	C	C	C	C	C	C	310	290	280	250	260	240	270	310
9	290	270	300F	[300]A	290	(370)A	350	410	290	[360]A	440	B	B	A	430	420	340	350	350A	300	270	270	270	290
10	300	320	[300]A	290	260	260	300	A	A	B	500	390	A	B	B	380	[360]A	340	[320]A	300	270	270	260	250
11	250	290	260	300F	300	300	270	310	310	310	320	320	370	B	B	340	320	290	260	240	260	250	280	250
12	250	300	290F	250F	260	250	290L	300	320	A	A	340B	B	B	B	320	300	280	310A	270	230	230	250	270
13	290	310	290	260	250	240	260	310	350L	310	370	400	B	B	350	A	A	A	A	A	270	260	S	S
14	260	280	260	280	310L	280	350	300A	B	B	B	300	B	B	B	B	310	310	310	260	270	260	250	250
15	240	310	270	240	240	250	B	A	B	A	A	A	A	A	A	A	360	320	290	280	280	280	280	260
16	250	280	260	250	240	(300)L	330	310	320	350	370	400	430	390	370	320	300	270	240	250	320	310	A	A
17	A	A	A	A	280	270	330	B	A	400	[400]A	400	[380]B	350	380	350	360	310	290	260	240	240	A	A
18	330F	[320]AS	310	270	250	260	310	320	300	300	350	380	420	400	440	A	A	A	310	270	240	250	250	270
19	270	270	270	260	260	260	300	300	300	350	370	410	410	350	350	400	300	A	A	260	S	S	260	300
20	270	300	260	260	260	250	350	300	300	270	320	360	B	A	370	360	310	300	280	260	270	(300)A	A	A
21	300	280	270	300	260	260	360L	[320]A	280	A	A	350	400	350	340	330	A	A	A	A	270	A	A	A
22	280	310F	300F	320FA	270	250	350	310	310A	C	C	C	C	C	C	C	C	A	A	270	300F	300	[280]A	270F
23	260F	280F	290F	290	260	230	310	320	280	310	330	390	[380]A	360	360	360	330	290	300	[300]A	290	270	250	240
24	270	290	250	280	280	260	330	290	300	310	C	C	C	370	400	360	320	290	300	250	280	260	260	260
25	260	270	300	240	220	290	360	310	290	280	340	360	[360]A	350	340	A	C	300	280	290	310	AS	A	AS
26	310	290	300	280	260	420	320	340	270	280	380	350	410	380	410	340	370	350A	280	300	310	250	250	260
27	310	300	300	260	290	290	300	350	320	350	A	A	A	A	350	[340]A	330	310	280	270	290	350A	310	330
28	330	[320]A	300	300	260	300	280	A	A	A	A	A	A	410	370	340	350	320	300	270	300	320	[300]A	280
29	270	310	270	280	270	270	410	320	370	A	A	420	350	340	380	430	360	350	300	260	260	270	280	290
30	290	290	270F	230	260	250	370	330	360	330	[340]A	350	410	330	380	350	330	340	320	300	270	260	250	310
31	270	260	290	260	250	240	340	310	340	340	360	[380]A	400	420	350	420	310	310	320	300	290	290	260	250
Mean Value	280	290	290	270	260	270	320	330	320	320	360	370	380	370	370	360	320	310	290	270	270	270	270	280
Median Value	286	290	290	270	260	260	320	310	310	320	350	360	380	360	360	350	320	300	290	270	270	270	260	280
Count	29	29	30	30	30	30	29	26	24	18	18	23	17	18	23	24	26	26	27	29	30	28	25	24

h'F2 | Sweep 1.0 Mc to 22.0 Mc in 1 min | ☐ Manual ☒ Automatic | W 2

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

May. 1955 | **fEs** | 135° E Mean Time | **Wakkanai** | Lat. 45° 23.6' N, Long. 141° 41.1' E

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	E	2.5Y	E	E	2.3Y	1.7	G	4.6	6.5	6.2	5.2	6.6	G	5.7Y	6.2	4.5	4.6	3.8	4.1Y	4.2	6.5	6.7Y	7.0Y	6.0Y
2	2.3Y	3.0Y	3.0Y	4.3Y	3.8Y	2.3	G	G	4.7	5.6	9.1Y	6.0	6.5	6.7	4.5Y	4.7	G	4.6	5.6	4.7Y	3.5Y	4.6Y	5.2Y	2.5Y
3	6.5Y	8.0Y	5.3Y	4.6	3.9Y	2.3Y	G	G	6.0	7.5	11.0	6.0	5.5	4.2	4.4	4.7	4.5	4.2	3.3	3.5Y	3.5Y	5.0Y	4.2Y	3.2Y
4	2.5Y	2.3Y	3.5Y	1.8	E	G	G	G	4.8	G	4.6	6.0	6.8Y	G	G	G	G	G	G	3.0Y	3.0Y	3.5Y	3.0Y	2.2Y
5	3.5Y	3.8Y	2.3Y	2.3Y	1.9	2.3Y	3.8Y	G	G	G	4.9Y	4.8Y	4.9Y	6.2Y	4.2Y	5.0Y	4.4	4.0	5.2	4.8	3.5Y	2.7Y	E	2.2Y
6	5.0Y	7.5	6.0Y	3.5Y	2.3Y	2.3	G	4.7Y	5.1	C	C	C	C	C	C	G	5.8	6.6Y	4.5Y	4.0Y	E	E	E	E
7	E	E	1.8	2.3Y	3.8	4.0Y	3.9	G	4.2Y	6.7Y	G	6.5Y	G	G	4.6	G	4.7	G	3.4	E	E	E	2.3	4.5
8	7.0	6.0	3.8	3.7	3.2	3.5	5.0	7.0	5.9	C	C	C	C	C	C	C	G	4.0	3.5	2.6	E	E	E	E
9	E	E	3.5Y	4.7	2.7	4.1	4.8	4.5	5.8	5.0	4.5	4.7Y	G	6.7	G	5.0	4.7	6.4	4.7	4.0Y	2.7	2.6	2.6	2.5
10	4.4	4.7	3.0	3.0Y	2.3	4.0	4.5	4.6	5.6Y	4.4	6.4	6.2Y	6.5Y	B	B	G	6.0Y	4.8	5.8Y	6.2Y	3.3	2.3	E	E
11	5.7Y	3.9Y	2.2	2.7	3.0	G	G	G	4.6Y	4.6	G	G	4.5	4.6Y	G	4.1Y	G	G	4.6Y	3.0	4.5	E	3.0	2.5
12	2.5	2.9	2.4	2.3Y	2.2Y	G	G	G	4.6	6.2	6.4	4.2	4.8Y	5.5Y	G	4.4	G	4.7Y	6.0	4.7	4.5	4.0	4.4	4.0
13	3.0	3.5	2.5	E	E	G	4.0	G	5.0Y	G	G	4.5	G	G	5.7Y	8.5Y	12.5Y	12.0Y	12.5Y	7.9	4.6	4.0	4.5	4.0Y
14	2.3	2.2	E	E	G	G	G	6.1	4.0Y	5.7Y	6.5Y	G	4.5Y	4.5	G	4.5	4.5	4.9Y	4.5Y	2.5	3.5Y	2.3	E	E
15	2.5	3.2	2.3	2.3	2.5	G	G	5.5	G	5.0	4.5	5.2	5.8	5.7	6.0	5.7	4.0F	3.5F	5.0Y	4.1	3.5	4.0	4.5	E
16	2.2	2.5	E	E	G	G	G	G	4.5	4.5Y	4.5Y	G	4.8Y	4.6	4.3	4.3	4.0	G	G	2.5Y	3.8	3.7	6.8Y	6.5
17	6.0	6.5	7.4	7.4	4.0	G	G	G	6.5	5.1	5.0	5.3	6.6Y	4.5	5.3	4.5	4.6	G	G	2.5	2.5	2.4	6.5	5.5
18	6.0	5.5F	5.0F	3.5FY	2.5	4.0	4.1	4.5	5.8	4.6	4.7	4.5	G	G	5.2	7.5	9.5	6.5	4.0	3.9	3.5	5.0	5.0Y	6.5
19	3.5	2.3	E	2.3	2.2	3.5	6.0Y	6.5	6.3	5.9Y	4.5	4.4Y	4.0	4.5Y	G	5.0	5.7	6.5	10.3	7.0Y	4.5	6.0Ys	4.5Y	4.5
20	2.6	3.2	2.2	2.3	G	G	4.5	5.8	5.5Y	4.6	4.1	4.7Y	4.5Y	6.9Y	4.5	7.5	7.0	6.0	4.5	6.1	4.5	7.0Y	7.5F	8.0
21	6.5Y	3.5	3.5	4.5	2.5	G	4.5	7.0	7.5	11.5Y	12.5Y	7.3Y	6.5Y	G	4.7	4.5	9.0	10.5	9.5	7.5	3.9	7.5Y	7.5Y	7.5Y
22	7.0	4.2	4.2	3.6	2.9	G	4.7	5.6Y	5.7Y	C	C	C	C	C	C	C	C	9.5	8.5	6.5Y	4.2F	6.2F	7.5	4.5
23	4.0	6.0	3.5	3.5	2.5	G	4.5	6.5	5.9	4.7	6.5	4.5	6.5	4.7	G	4.9	G	G	7.4	6.5	3.0	2.9	2.6	2.5
24	2.6	4.5	2.6	3.0	2.6	G	G	4.5Y	4.7	G	C	C	C	4.5	G	4.5	G	G	5.3	4.0	3.8	E	E	2.3Y
25	2.3	2.5Y	3.5	2.5	2.3	G	G	6.0Y	G	6.1	6.4	4.7	7.4	5.2	4.6	7.2	C	4.7	G	5.1	7.2	9.0	7.5	6.6Y
26	6.7	6.1	4.9	5.0	2.5	4.5	4.1	7.0	5.1	5.1	5.2	7.2	5.0	G	G	G	5.2	8.0	G	E	2.4	2.3	E	2.4
27	4.5	4.0	2.5	2.5	4.0	G	G	5.0	6.5	4.8	9.8	10.0Y	7.5	7.5	6.8	7.5	6.3	4.9	7.2	4.5	4.7	7.4Y	7.2Y	4.0
28	4.5	6.9	4.0Y	5.3Y	3.5Y	5.2Y	6.0Y	7.5	12.5	10.5	8.0Y	7.5Y	7.5Y	8.5Y	7.0Y	8.5Y	8.5Y	6.0Y	3.5Y	4.0Y	4.5	5.0Y	7.3	4.0Y
29	3.0Y	4.0Y	3.8Y	5.2Y	7.0Y	5.1Y	7.5Y	8.0Y	7.5Y	8.5	8.5Y	8.5Y	8.5Y	7.0	8.5	8.0Y	7.5Y	7.0	7.0Y	4.6	5.0Y	3.0	2.6	2.8
30	3.0	3.5Y	3.7Y	3.0	3.8Y	5.0Y	5.3Y	5.3Y	7.0Y	7.0Y	11.0	7.5	7.5Y	7.0Y	G	G	G	G	3.8	3.8Y	6.0	2.5	4.3	4.5
31	3.5Y	3.5	3.5Y	5.0Y	3.9	5.0Y	5.3Y	6.0Y	6.0	7.5	7.5Y	9.3Y	8.0Y	8.0	7.7Y	7.2Y	8.0Y	5.3Y	4.9	6.3	7.0	6.5	3.9	4.0
Mean Value	4.1	4.2	3.6	3.6	3.1	3.7	4.9	5.8	5.9	6.1	6.7	6.1	6.1	5.8	5.5	5.8	6.0	6.0	5.4	4.6	4.2	4.5	4.9	4.1
Median Value	3.5	3.5	3.5	3.0	2.5	1.7	3.9	4.7	5.6	5.0	5.2	5.3	5.8	4.7	4.5	4.5	4.6	4.7	4.6	4.1	3.8	3.7	4.3	4.0
Count	31	31	31	31	31	31	31	31	31	28	27	27	27	27	27	29	29	31	31	31	31	31	31	31

fEs

Sweep 1.0 Mc to 22.0 Mc in 1 min ☐ Manual ☒ Automatic

W 3

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

Akita

Lat. 39° 43.5' N
Long. 140° 08.2' E

May. 1955

foF2

135° E Mean Time

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	4.7	4.7	4.0	4.0	3.8	4.5	4.9	6.4	7.1	5.5	6.2	5.9J	6.5	6.5	7.0	7.4	8.4	6.8	5.9	6.3	5.0	4.5	4.4	4.1
2	4.1	4.0F	4.0F	3.9F	3.7F	(4.3)M	4.9	5.0	5.3	5.7	6.3	5.2	6.2	6.1	6.4	6.9	7.2	7.0	5.7	5.8	5.1	4.8	4.5	4.4F
3	(4.2)A	4.1F	4.3F	4.4F	4.1JF	4.7	4.8	5.0	5.5	5.6	6.2	6.5	6.9	6.5	7.2	7.7	6.9	7.0	5.9	6.5	6.5	5.0	4.5	4.5
4	4.1	4.4F	4.0F	4.0F	3.8JF	4.6F	5.4	6.1V	5.6V	5.5	(5.9)P	6.5	6.5	6.4	6.3	6.5	6.5	7.0	6.5	6.9	6.9	6.1P	5.5	5.6F
5	5.5	4.9	4.8	5.0	4.6	4.7	5.8P	6.5	6.9	6.5	6.5	7.2	6.5	6.9	6.5	6.6	6.9	7.4	7.5	8.6	6.9	5.0	4.4	4.0
6	4.0F	4.1J	3.8PF	3.6F	3.4F	4.5	6.3	5.7	5.5	6.0P	7.2	6.1	6.3	6.5	6.3	6.2J	6.0P	5.9P	6.6	7.6	6.5	6.5	6.0	6.0F
7	5.5	5.1	4.6	3.8	3.2H	A	A	A	5.0	5.1	5.1	5.8	5.9	5.4	A	A	6.2	6.4	6.0J	5.8	6.0	6.0	4.6	4.5
8	3.8P	3.5	3.5	3.7V	3.5	3.7	(4.4)A	5.1	5.9	6.0	5.7	5.9	6.4	6.5	6.8	6.6	7.4	8.6	8.0P	7.3P	7.2	6.0	5.2	(5.0)A
9	4.8	4.8P	4.5	3.8F	3.7	3.8	5.1	A	A	4.8	5.3	(5.1)A	4.9	5.1	5.3	5.4	6.7	6.0	6.7	6.4	6.6	5.7J	6.0JF	6.3
10	5.4F	4.8F	4.7F	4.5JF	4.0JF	4.6	5.2	5.7	(5.9)A	6.1	5.7	5.1	A	A	5.4	5.5	5.8	A	A	A	6.5	6.4	5.9J	6.1
11	4.2	3.7	3.7	4.1F	4.0	4.8	6.5	5.9	(6.0)M	6.2J	6.0J	5.8	5.2	5.5	5.9	6.6	7.0	7.6	A	A	5.7F	4.9F	4.5F	4.5F
12	5.0F	4.6F	4.4	4.0F	3.9F	4.6	5.6	6.0J	6.4J	C	C	C	C	C	C	C	C	7.0	6.7	7.5	6.9	5.5F	4.6F	4.5F
13	4.1F	4.0F	(3.9)P	3.8F	3.9F	5.1	4.7	5.1	(5.3)A	5.5V	5.0J	5.0	5.9	6.0J	6.0J	6.2	6.6	6.6	7.2	7.9	7.5	(6.4)A	5.4	5.4
14	4.9F	4.5F	4.3F	4.1F	3.9F	4.3	5.4	M	6.1J	A	A	6.0	5.9	6.0	6.0	A	A	A	6.4	(6.5)A	6.6	5.9	(6.2)P	(5.8)P
15	4.6	4.0	4.3	4.0F	3.5F	4.3	4.3	4.5	4.5	4.7	4.3	5.0	4.6	4.6	4.9	5.3	5.2	(5.1)A	5.0	5.3	5.5	(5.2)A	5.0F	4.5
16	4.3F	4.4	4.3	4.6	4.2F	4.0	(4.2)P	5.6	(5.6)B	5.5	5.1	(5.3)B	5.5	6.1	7.5	8.4	8.3	7.3	6.5	4.4	4.4	(4.5)A	4.6	4.7
17	4.6	4.1	4.0	4.1	3.9	4.6	4.0P	4.8	5.0P	(5.0)A	5.0	A	A	5.7	5.6	6.0J	A	A	A	7.2	7.0	4.5	3.9	3.7
18	(3.9)P	3.8P	3.7	4.0	3.8P	4.2	5.7	6.2	5.5	4.8	A	A	4.9	5.1	5.4	A	A	A	A	7.0P	8.2F	6.8	5.9F	5.0JF
19	4.2F	4.1F	4.7F	4.4F	4.0F	5.0F	5.9P	6.0	6.0P	5.7	5.5	(5.5)A	5.5	6.0	6.1	5.9	(5.7)A	5.5	A	A	6.5	6.2P	5.5	4.2F
20	3.8P	3.8	3.9	3.8F	3.8F	4.6	5.2	6.6	6.5	6.0J	A	A	A	5.5	6.1	7.8	8.0	7.1	7.0	7.2	6.8	6.5	(6.0)AF	5.5F
21	AF	A	4.6F	4.5P	4.7F	4.8F	5.5	(6.4)A	7.2	(6.6)A	5.9J	5.6	6.1J	6.4	6.3	A	A	A	A	A	(7.8)J	6.9	5.5	A
22	A	6.1JF	5.0F	5.0F	4.2F	5.2	A	A	A	A	6.5	6.0J	6.0J	A	A	A	7.2	7.8	6.8	5.9	(5.4)M	(4.9)J	5.1	4.7F
23	A	F	4.7F	4.1	(4.5)A	4.9	A	A	A	A	6.1J	(6.1)A	6.1J	6.1	6.5	(6.4)A	6.2	6.6	6.7	6.6	6.7F	6.7F	6.0	6.0F
24	5.9J	5.1	4.5	4.6	4.4	4.8	6.6	7.5	6.5	5.5	6.5	5.5	5.7	5.9	5.9J	6.5	7.2	7.0	7.0	6.6	6.0	6.0	6.3	6.1
25	6.0	5.5	5.5	4.7	4.0F	4.5	5.7	7.3	7.7	6.1J	5.2	5.4	5.5	6.5	7.5	7.9	7.1	6.5	6.5	6.4	6.5	6.5	5.7	6.0JF
26	5.9JF	6.0F	5.6	4.8	4.7	4.8H	6.5	7.6	8.6	6.1	5.5	6.9	6.3	6.4	6.8	A	A	A	A	6.9	6.8	7.2	6.8	6.5
27	6.4	6.1	5.9	5.3	5.7	6.6	5.7	5.3	(5.4)A	5.6	5.5	5.2	6.1J	6.4	6.0J	7.0	(7.0)A	7.1	7.3	(6.3)P	6.0	5.9PJ	6.0	6.1
28	(5.8)B	5.6	(4.7)P	5.3	4.6	(5.1)A	5.6	B	B	6.4	5.9	A	A	6.3	7.1	7.2	7.1	7.0	6.9	(6.4)A	6.0J	A	A	6.2JF
29	6.5F	6.1F	5.1	4.4	4.0	4.3	A	B	A	C	C	C	C	A	5.9	5.7	6.0J	6.3	7.1	(6.5)A	5.9J	B F	M	5.5
30	M	M	4.8	4.5F	4.0F	4.1	B	B	6.0J	6.1J	5.7J	A	A	5.7	(6.0)A	6.3	6.0J	A	A	6.5	7.1	5.0	6.0JF	4.8P
31	4.7	4.3JF	5.1P	4.7	4.5	4.7	4.9	5.5	5.5	6.0J	6.1J	(5.7)A	5.3	5.5	6.0J	6.6	6.1	6.3	6.8	7.3	7.0J	7.0F	6.9P	6.0
Mean Value	4.8	4.7	4.5	4.3	4.1	4.6	5.3	5.9	6.0	5.7	5.8	5.8	5.9	6.0	6.2	6.6	6.7	6.8	6.6	6.7	6.4	5.8	5.4	5.2
Median Value	4.7	4.4	4.5	4.1	4.0	4.6	5.4	5.9	5.9	5.7	5.8	5.8	6.0	6.1	6.1	6.6	6.9	7.0	6.7	6.5	6.5	6.0	5.5	5.2
Count	27	28	31	31	31	30	26	23	26	26	26	24	24	27	28	24	25	24	23	27	31	29	29	30

foF2

Sweep 0.85 Mc to 22.0 Mc in 2 min ☐ Manual ☒ Automatic

A 1

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

May. 1955 | h'F2 | 135° E Mean Time | Akita | Lat. 39° 43.5' N | Long. 140° 08.2' E

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	310	290	290	300	300	290	270	300	290	A	340	380	350	360	340	330	290	260	270	250	240	280	300	330
2	300	300F	310F	300F	290F	250	250	320	300	350	370	350	360	350	350	320	300	290	270	250AF	[260]A	270	290	340
3	[320]A	290	330	260	280	250	250	300	340	350	350A	340	350	350	340	310	310	290	290	280	290A	330	290	[320]A
4	340	300	300F	280F	320F	270	250	280	300	L	340	350	340	350	340	340	350	300	270	270	250	250	270	340
5	290	330	330	290	240	250	280	300	290	350	350	350	340	340	340	340	320	300	290	250	250A	A	A	310
6	320	310	350A	320	300A	270	A	300	400	380	330	410	400	410	400	340	340	340	310	270	280	290	290	340F
7	320	320F	270	250	340H	A	A	A	A	450	520	400	380	A	A	A	350	300	[300]A	290A	300	270	300	290
8	320	[350]A	380A	270	260	260	[300]A	340	[340]A	330	330	410	350	370	360	400	350	330	300A	270	270	250	340	[320]A
9	290F	300	300F	330F	330	410	350A	A	A	550	400	[430]A	460	440	390	400	350	330	300	300A	270	310	290F	260F
10	320F	350F	340A	320F	300F	260	330L	290	[320]A	350	340	440	A	A	390	390	340	A	A	A	290	340	A	250
11	250	300	320	300	300	290	280	290	[310]M	330	310	340	390	410	390	350	330	300	A	A	280	350A	340A	310
12	300	280	270	250	250	240	310	270	290	C	C	C	C	C	C	C	C	290A	290A	290A	A	330F	250F	290
13	330F	320	290	290	260	240	250	300	[300]A	310	350	[370]A	390	350	370	A	A	320	300	260	240	[280]A	320	290
14	290F	300	290	300	330	270	400	290	A	A	A	370	370	350	340	A	A	A	A	A	A	330A	280	270
15	280	320	290	270F	290F	A	A	390	430	400	730	440	400	550	450	360	350	[320]A	300	310A	250	[260]A	280	270
16	310	290	270	250	240	270	260	300	[320]B	350	410	[460]B	510	450	370	320	300	280	250	270A	310	[320]A	340	300
17	300	300	270	270	270	260	240	370	350	[420]A	500	A	A	370	380	330	A	A	A	290A	240A	240A	280	300
18	300	310	290	260	290	380L	300	280	300	320	A	A	550	480	440	A	A	A	A	A	300A	300A	260	270
19	280F	A	380	300	300F	270	300L	290	320	[340]A	350	[380]A	410	400	350	350	[340]A	320A	A	A	320A	300	250	270
20	290	350	A	280	290F	270	350	280	300	A	A	A	A	440	400	340	300	300	310	280A	280A	240	[280]A	310F
21	AF	A	320	320	290F	250	A	A.	290A	[340]A	380	380	390	360	400	A	A	A	A	A	A	240	240	A
22	A	290	290F	270F	300F	270	A	A	A	A	390	380	A	A	A	A	330	290	260	240	240	A	310	[320]A
23	320F	320	290	330	[300]A	260	A	A	A	A	330	A	A	350	370	[360]A	350	[320]A	280	A	310	320	300	300
24	290	270	290	300	280	350	320	280	[310]B	340	350	440	430	410	390	360	310	300	280	260	250	280	300	290
25	290	290	270	240	310	280	340	300	290	290	340	380	450	400	350	320	300	300	[300]A	290	280	290	290	300
26	300	280	260	300A	310	290M	350	350A	300	290	540	350	390	400	360	A	A	A	A	330	300	310	280	290
27	310	370A	300	270	270	280	270	300	[340]A	380	390	420L	420	390	A	350	[320]A	300	270	270	270	330	310	350A
28	350A	350	310	300	240	[280]A	310	320L	[340]B	350	A	A	A	A	350	350	350	A	A	A	310	A	A	310
29	320	270	240	300	320	320A	[340]A	350	A	C	C	C	C	A	390	400	350	350	300	[260]A	230A	310	310	300
30	300	[290]M	280	260	250	280	A	A	330	340	A	A	A	420	[380]A	340	370	A	A	A	290	270	310	300
31	310	320F	270	260	250	240	290L	350	330L	330	340	[410]A	480	440B	390	330	340	300	310	310	270	270	250	270
Mean Value	310	310	300	290	290	280	300	310	320	360	390	390	410	400	370	350	330	310	290	280	270	290	290	300
Median Value	300	300	290	290	290	270	300	300	310	350	350	380	390	400	370	340	340	300	290	270	280	290	290	300
Count	29	29	30	31	31	29	24	25	25	23	24	23	22	25	27	23	24	23	21	22	28	28	28	30

h'F2 | Sweep 0.85 Mc to 22.0 Mc in 2 min | ☐ Manual ☒ Automatic | A 2

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

May. 1955 | **fEs** | 135° E Mean Time | **Akita** | Lat. 39° 43.5' N | Long. 140° 08.2' E

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	3.2	2.4	2.4	2.2	2.4	3.1Y	3.5	3.5	3.3Y	7.0	5.5	6.8	5.0	5.0	6.8Y	4.7	5.5	4.5	9.1	4.5	5.0	2.5	2.5	2.5
2	2.9	2.6	E	E	1.7	M	3.5	4.5	4.5	5.0	5.0	5.5	6.3	5.0	G	4.0	3.3	4.0	4.0	4.6	7.5	2.3	2.7	4.5
3	6.5	6.5	2.7	E	E	2.0	G	G	G	5.3	5.5	5.5	4.5	4.0	4.0	3.5	3.7	3.0	2.8	3.8	4.5	4.6	4.5	5.5
4	4.0	3.5	3.0	2.9	2.5	2.8	2.2	4.5	5.0	4.5	4.9	5.0	5.1	4.5	4.0	3.5	G	3.0	G	2.0Y	2.5	1.9	4.5	3.5
5	3.0	3.5	3.1	2.7	2.7	G	3.5	4.5	4.3	4.6	5.0	G	G	G	G	G	5.0	6.5	4.5	6.5	5.5	5.5	4.5	3.8
6	3.5	2.5	3.5	3.5	4.7	3.0	7.0	4.6	5.0	5.6	5.6	6.2	5.1	4.3	5.4	4.9	G	3.5	3.5	4.0	2.9	3.1	2.1	2.7
7	2.4	E	1.8	2.1	3.1	3.5	5.6	5.6	5.6	5.1	6.7	5.0	5.0	6.3	9.3	5.6	4.5	4.7	5.6	4.1	2.8	2.4	3.2	2.2
8	3.5	4.2	3.5	2.0	2.1	G	5.0	4.9	6.3	6.5	5.6	5.0	G	G	G	G	G	6.5	6.5	5.3	5.0	3.5	4.1	8.5
9	2.5	2.3	2.5	3.5	3.0	3.5	5.5	5.0	6.5	6.5	5.3	10.2	6.5	3.5	3.5	5.6	6.5	4.1	3.5	5.9	3.6	3.9	4.5	3.1
10	5.0	5.6	4.5	4.2	2.9F	2.8	3.5	4.7	6.5	5.9	4.5	11.2	8.0	5.7	G	G	5.6	12.5	8.5	7.8	6.4Y	4.4	6.6	3.5
11	1.9	1.8	3.2	2.9	2.9	2.4	G	4.0	4.3	5.3	6.7	6.4	3.9	5.4	4.1	3.5	G	4.0	8.4	13.6	4.5	4.4	4.5	3.7
12	6.7	3.2	2.6	3.4	2.5	G	G	4.5	4.4	C	C	C	C	C	C	C	C	5.4	5.0	7.5	8.5	5.5	3.5	5.5
13	4.5	3.5	3.0	3.5	2.7	2.7	3.5	4.5	6.5	5.5	4.5	6.4	6.4	G	G	6.5	10.5	7.0	4.5	3.5	3.9	7.0	4.5	3.3
14	4.1	3.3	2.7	2.4	2.3	3.1	4.0	5.4	6.5	9.5	7.1	6.8	5.5	4.0	3.8	6.5	9.5	16.5	7.5	8.5	14.0	7.4	4.5	3.3
15	3.0	2.5	3.2	E	E	4.1	4.0	4.0	4.5	6.5	4.1	4.5	5.0	4.0	3.5	3.5	4.5	6.5	7.0	7.5	12.3Y	7.0	4.7	2.3
16	4.0	2.5Y	E	E	3.5Y	2.3Y	3.1	3.5	3.5	G	6.2	3.5	3.5	G	4.0	4.2	3.4	G	3.1	3.5	3.1	5.6	4.5	3.2
17	2.9	3.8	2.3	2.4	3.0	2.0Y	G	G	4.2	5.6	6.7	6.5	8.0	5.5	G	12.5	6.5	7.5	8.0	5.3	3.5	3.2	2.6	2.1
18	2.6	2.4	1.8	2.7	2.2Y	G	4.5	4.5	5.0	6.5	8.2	8.3	5.0	6.7	13.5	15.2	14.0	13.5	12.1	8.5	7.7	6.8	5.0	2.8
19	4.5	4.5	4.0	5.0	3.6	3.5	3.5	5.1	4.5	6.4	5.1	7.0	6.5	G	3.5	6.5	7.1	7.1	7.6	12.5	7.1	3.5	3.5	7.0
20	4.4	4.3	4.2	3.4	3.0	3.1	4.3	4.5	5.5	7.1	6.7	6.8	6.3	6.5	5.3	6.5	7.3	5.4	5.8	7.1	6.5Y	7.2	7.0	6.5F
21	4.7	6.3	4.4	4.4	4.5F	3.5F	5.5	8.6	6.5	8.0	6.5	6.4	6.5	7.1	6.5	8.6	9.5	11.1	11.0	10.5	8.5	12.0	11.4Y	6.7
22	6.4	6.4Y	4.0	3.3	3.5F	3.3	7.7	7.0	7.9	6.5	6.5	5.6	7.1	8.0	12.5	7.5	G	3.3	G	2.5Y	3.0Y	5.0	5.0	6.5
23	6.4	3.5	4.5	4.5	4.5	3.1	5.5	9.1	6.6	6.8	5.6	12.8	10.5	5.0	4.5	8.5	5.5	7.1	12.5	6.6	4.4	4.5	4.2	4.5
24	4.1	3.5	2.5	3.1	3.5Y	3.4	4.5	5.0	4.4	5.5	5.6	6.0	5.2	4.7	4.5	4.7	4.5	3.5	G	2.8	4.5	3.5	3.5	3.5
25	2.0	2.3	3.5	3.4	3.0F	2.0Y	G	4.6	4.5	4.5	G	4.5	6.5	5.0	G	G	6.5	4.5	7.5	7.5	4.7	4.5	4.3	4.0
26	4.7	4.0	4.0	5.0	5.2	4.7	4.9	6.1	6.0	6.5	5.2	4.2	5.3	5.2	6.3	8.2	11.0	12.3	13.5	5.9	2.9	4.0	5.5	1.9
27	6.5	6.0	3.5F	3.1	2.5F	2.3	G	4.7	7.1	5.5	6.0	4.8	G	6.1	5.3Y	5.5	8.7	4.2	4.8	4.5	4.1	4.5	5.0	4.0
28	4.3	3.5	6.3	3.5	3.0Y	5.5	3.8	4.5	4.2	5.5	6.4	12.5	15.8	12.5	6.9Y	6.9Y	6.9	6.8	6.4	8.0	6.5	8.6	7.5	7.8
29	3.5	3.5Y	3.3Y	3.5	E	3.8	5.5	4.5	6.1Y	C	C	C	C	9.8	5.3	5.4	4.1	3.5	3.3	12.1	4.3	3.2	2.4	3.5
30	2.8	M	3.4	2.5	2.4	G	4.5	5.5	4.3	5.5	7.9	6.9	9.5	4.8	6.7	3.7	3.5	8.5	9.0	7.2	4.5F	5.3	4.5	4.0Y
31	4.5	4.5	3.1	2.0	2.3	G	G	G	4.5	5.1	G	8.4	G	G	G	G	G	G	3.7	4.5	3.5	4.0	4.5	4.0
Mean Value	4.0	3.7	3.3	3.2	3.0	3.1	4.5	5.1	5.3	6.0	5.9	6.7	6.5	5.4	5.9	6.2	6.6	6.6	6.7	6.4	5.4	5.5	4.6	4.2
Median Value	4.0	3.5	3.2	3.1	2.9	2.9	3.8	4.5	5.0	5.6	5.6	6.4	5.3	5.0	4.0	5.2	5.2	5.4	5.8	5.9	4.5	4.5	4.5	3.7
Count	31	30	31	31	31	30	31	31	31	29	29	29	29	30	30	30	30	31	31	31	31	31	31	31

fEs

Sweep 0.85 Mc to 22.0 Mc in 2 min ☐ Manual ☒ Automatic

A 3

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The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

May. 1955 | foF2 | 135° E Mean Time | Kokubunji Tokyo | Lat. 35° 42.4' N | Long. 139° 29.3' E

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	4.8	4.8	4.4	4.0	3.9P	4.4	5.7	>7.0B	(7.3)P	6.8	6.2	6.7	[7.3]A	7.9P	8.5	9.6	9.7	7.9P	7.0	6.5	4.5	4.2	4.4	4.2
2	4.3	4.2	4.0	3.6	3.5F	3.9	5.0	5.5	5.7	5.7	5.7	5.8	6.4	7.1	(7.8)J	8.6	8.5	7.4P	7.0	6.0	5.1	4.4	4.3	4.4
3	3.9	3.3	3.9F	3.9ZF	3.7F	4.4	4.8	5.2	5.5	5.5	6.2	6.5	[6.8]A	7.2P	7.3P	8.8	8.4	8.0P	6.7	6.2	5.9	4.6	4.8	4.6
4	4.0F	4.0	4.0	3.8JF	3.5F	4.5	(5.4)JP	(6.2)J	5.8	5.4	5.9	6.6	7.7P	7.1	6.7	6.5	7.2	7.4	8.0J	7.6	7.1	6.2	5.2P	5.4
5	5.1F	5.1F	4.9JF	5.3F	4.2F	5.0Z	6.4J	6.5	7.1	6.4	7.0	7.1	7.6	7.0	7.5	7.9P	8.5	8.4	8.1J	8.1J	6.0	4.9	4.3	[4.2]A
6	4.0	4.0	3.7	3.3	[4.0]A	4.7	5.7	6.2	[6.4]A	6.7	7.4	6.8	7.4	7.2	7.8J	7.3	6.4	6.0	7.1	7.3P	6.5	5.9	6.2	5.9
7	6.0	5.5	5.4	4.2J	2.9	A	A	A	A	A	A	6.2	6.3	6.0	6.4	5.9	6.5	7.0	A	A	A	5.5	[5.0]A	4.6
8	4.2	3.8	3.5F	3.9F	3.5F	4.1	4.8	5.5	6.5	6.5	6.0	6.1	6.5	7.0	7.2	7.2	8.3J	8.7	8.9	(8.4)J	6.4	A	A	A
9	A	A	4.7	3.0F	3.3F	4.4	5.8	4.5	5.1	5.1	A	A	5.2P	[5.6]A	6.0	6.0	6.5	[7.2]A	7.8P	7.2P	6.4P	5.3JF	[5.2]A	5.0JF
10	[4.7]A	4.4	[4.2]AF	4.0F	3.9F	4.4	5.8	5.6	A	M	5.9P	5.7	5.4	(5.3)B	5.2J	5.9	6.0	5.8	6.4	7.0	7.0	(6.9)J	6.1	5.3
11	[4.8]A	4.4	3.5	3.6	3.7	5.0	6.2	5.8	5.3	6.0	5.7	5.4	[5.5]A	5.6	6.6	7.4	7.9J	7.3P	8.2	7.5	[6.0]A	4.4F	A	A
12	A	(4.3)PF	4.8F	3.7F	3.0F	4.0	5.7	6.5	6.4	6.2P	5.4	5.5	5.6	6.6	8.1J	8.6	7.3	7.3P	7.4P	8.5	6.7	4.1	(4.5)F	4.8
13	(4.4)J	4.0	3.8F	3.9	4.0	4.5	4.6	5.4	A	A	A	A	6.5J	7.0	6.8	7.1	7.1	7.2	7.4P	8.1J	7.2	A	A	4.5
14	[4.5]A	4.5	4.4JF	3.9	3.5F	4.2	5.6	7.1	A	A	A	A	7.0	7.2	7.4	6.6	5.8	5.7	6.5	[6.4]A	6.3J	(5.6)A	[4.7]A	(3.8)F
15	4.3	4.3	4.1	3.0	3.5JF	4.8	4.9	4.9	A	A	B	B	G	B	5.2	5.7	5.6	5.2	4.9	5.3	5.7	5.0	4.2	4.2F
16	(4.2)JB	4.0F	4.4	3.5	F	3.6	4.6	4.9	5.5	5.2	5.2	5.3	5.7	6.6	7.5P	9.5P	8.6	6.8	5.7	A	A	4.2	4.2	4.2
17	[4.2]A	4.1P	3.9	3.9	3.4	4.0	4.8	5.6	5.6	4.8	[5.2]A	5.5	5.5	4.7	6.3	6.8	6.6	5.9	6.4	A	6.5	4.5	4.0	3.9
18	C	C	C	C	C	C	C	C	C	C	A	A	5.2	B	B	6.0	6.2	6.8	7.2	8.5	7.4	[6.4]A	5.5	[5.3]A
19	(5.1)JFP	4.5	4.4JF	[4.1]A	3.8F	[4.9]C	6.0	7.1	6.2	A	A	A	5.7	[6.4]A	7.0	6.7	6.5	6.5	6.8	6.8	5.9	(5.5)BF	[5.4]A	5.2
20	4.3	4.1F	4.5F	3.8	3.6	4.2	5.5	7.0	6.9	C	A	(4.9)J	5.2	6.1	7.2	9.0	9.0	7.1	(7.9)P	A	A	5.5	(4.4)F	A
21	A	A	A	4.1	(4.7)JB	4.4	5.5H	A	A	A	A	A	A	A	6.9P	7.9J	8.0	7.2	6.8	A	A	7.0	(6.4)P	3.9J
22	[3.9]A	3.9JP	4.5J	4.2J	3.8F	5.3P	6.1	6.5	A	A	A	A	A	6.7	[7.1]A	7.5	8.5	8.5	7.4	6.4	5.5	5.4	5.2P	A
23	A	A	A	(3.9)J	A	5.6	5.1J	A	A	A	A	A	A	A	6.7	6.7	[6.9]A	7.1	6.8	6.4	6.0	5.9	6.2P	5.4JF
24	A	A	4.7	4.4P	4.1J	4.5H	6.5	(7.3)P	6.2	5.5	5.5	5.5	5.6	[6.3]A	7.0	7.9J	8.0P	8.0J	[7.4]A	6.8	5.8	6.0	5.9J	5.5J
25	5.5	5.1	4.9	3.8	4.2	4.3H	5.7	7.8J	7.4J	6.0	B	B	B	A	8.5	8.9	7.3P	6.8	6.0	5.8	6.0	6.0	(5.2)JF	3.7
26	>4.0A	>4.1B	>4.2B	A	4.2P	4.5	5.7	A	8.6	A	A	7.2P	[6.9]A	6.6	[7.3]A	8.0J	7.3P	[7.4]A	7.4	7.3P	A	A	(6.6)J	6.4P
27	5.5	A	A	>5.2B	6.3J	6.3	5.3J	5.9	5.5	A	A	A	A	7.0	8.1J	[8.4]A	8.6	8.5	7.0	5.7	5.9	5.5	5.5	(5.0)J
28	(5.5)J	4.9	5.4J	5.1J	4.4	4.9J	[5.1]A	5.3J	6.1	6.6	5.7	6.2	6.3J	7.1	A	A	8.6	7.9J	7.9J	7.3P	6.8	6.5	A	A
29	(6.3)P	6.4J	5.2J	4.4	3.7J	4.5	5.5	A	A	5.4	5.9	6.0	5.8	6.3	[6.2]C	6.2	C	A	8.2J	7.5	5.6	5.5JF	5.2J	5.4
30	C	5.1	[4.8]C	4.4	4.0	4.8	5.2	5.7	6.4	5.9	[5.9]A	5.9	6.3	6.2	6.6	A	A	6.9	6.9	[6.8]A	(6.8)P	5.7	A	A
31	A	6.2	5.2JF	(4.8)F	4.1	4.9J	5.1	4.9	5.8	5.8	5.7	[5.8]B	5.8	5.9	6.5	7.5	6.6	6.8	6.5	7.3P	8.2J	6.6	6.4P	[6.2]A
Mean Value	4.7	4.5	4.4	4.0	3.9	4.6	5.5	6.0	6.3	5.9	5.9	6.0	6.2	6.5	7.0	7.5	7.5	7.2	7.1	7.0	6.3	5.5	5.2	4.8
Median Value	4.4	4.4	4.4	3.9	3.8	4.5	5.5	5.8	6.2	5.8	5.8	6.0	6.0	6.6	7.0	7.4	7.3	7.2	7.0	7.2	6.2	5.5	5.2	4.8
Count	22	24	26	29	28	29	29	25	21	18	17	20	26	26	29	29	29	30	30	26	26	28	26	25

foF2

Sweep 1.0 Mc to 17.2 Mc in 2 min ☐ Manual – ☒ Automatic

K 1

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

May. 1955 | h_pF2 | 135° E Mean Time | **Kokubunji Tokyo** | Lat. 35° 42.4' N, Long. 139° 29.3' E

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	350	320	280	320	310P	260	270	B	(230)P	280	300	310	(320)A	330P	320	290	270	260P	260	260	280	320	350	360
2	350	320	320	320	320F	260	250	270	260	A	A	U	340	320	(320)J	290	280	260P	260	270	270	300	320	320
3	370	350	310F	320F	280F	250	260	260	300	U	320	320	(300)A	290P	340P	310	300	280P	270	290	290	310	330	310
4	360F	320	320	(320)JF	330F	260	(230)JF	(250)J	270	290	340	350	310P	290	280	330	310	320	(290)J	280	280	300	300P	330
5	350F	320F	(320)JF	290F	280F	270Z	(260)J	270	260	300	310	330	280	330	310	310P	310	310	(280)J	(270)J	270	300	320	A
6	A	330	330	300	(280)A	260	250	270	(300)A	320	290	A	360	310	(350)J	270	290	300	300	280P	270	370	350	380
7	350	390	300	(230)J	360A	A	A	A	A	A	A	360	(330)A	300	340	300	330	290	A	A	A	350	(330)A	310
8	330	360	360F	300F	320F	260	280	(280)A	280	(320)A	310	330	350	330	320	350	(360)J	330	A	(270)J	260	A	A	A
9	A	A	310	(310)F	350F	330	270	260	U	U	A	A	U	A	330	(320)A	310	(300)A	300P	260P	310P	(370)JF	(340)A	(310)JF
10	(330)A	350	(340)AF	340F	330F	300	260	290	A	M	M	A	U	U	U	330	310	310	310	320	330	(320)J	290	310
11	(320)A	340	320	340	330	280	250	250	A	290	330	330	A	U	320	310	(310)J	290P	270	260	(320)A	390F	A	A
12	A	(330)PF	310F	270F	310F	250	260	A	280	290P	310	U	U	350	(320)J	290	310	320P	290P	280	240	340	(330)F	340
13	(320)J	350	320F	300	260	230	240	260	A	A	A	A	(320)J	310	330	(310)A	290	300	300P	(280)J	250	A	A	340
14	(340)A	330	(330)JF	330	340F	350	A	260	A	A	A	A	330	(320)A	300	280	320	A	A	A	(290)J	(270)A	(280)A	(300)F
15	320	350	300	300	(310)JF	270	290	A	A	A	B	B	G	B	U	330	310	280	290	320	310	270	330	350F
16	(350)JB	320F	280	230	F	270	260	260	300	A	U	B	B	400	360P	290P	260	260	260	A	A	360	360	350
17	(340)A	320P	320	280	300	300	260	280	280	A	A	U	U	B	320	310	280	290	A	A	260	300	340	320
18	C	C	C	C	C	C	C	C	C	C	A	A	U	B	B	330	320	310	320	280	250	(280)A	320	(320)A
19	(310)JF	330	(270)JF	(290)A	310F	(300)C	280	250	250	A	A	A	U	A	320	300	300	280	280	290	300	(330)BF	(320)A	300
20	340	330F	320F	270	310	300	280	260	250	C	A	A	U	360	360	330	290	290	(310)P	A	A	270	330F	A
21	A	A	A	330	(330)JB	260	330H	A	A	A	A	A	A	A	340P	(320)J	290	270	310	A	A	270	(280)P	(280)J
22	(300)A	(330)JF	(310)J	(260)J	330F	270P	270	270	A	A	A	A	A	320	(320)A	330	300	290	270	280	310	340	340P	A
23	A	A	A	(330)J	A	270	(350)J	A	A	A	A	A	A	A	310	320	(300)A	290	290	290	290	330	310P	(310)F
24	A	A	330	330P	(310)J	340H	280	(250)P	A	A	A	A	A	A	A	(330)J	300P	(300)J	(300)A	290	320	380	(310)J	(320)J
25	340	320	260	330	330	320H	300	(270)J	(250)J	270	B	B	B	A	330	290	280P	300	A	A	340	260	(330)JF	390
26	A	B	B	A	310P	A	A	A	A	A	A	350P	(360)A	380	(340)A	(310)J	310P	(320)A	320	310P	A	A	(350)J	340F
27	320	A	A	B	(290)J	240	(270)J	280	A	A	A	A	A	350	(340)J	(320)A	290	270	270	280	340	360	370	(350)JB
28	(340)J	360	(350)J	(270)J	310	(290)J	A	A	320	310	A	360	(360)J	A	A	A	310	(310)J	(310)J	310P	330	360	A	A
29	(370)P	(290)J	(280)J	310	(340)J	310	310	A	A	A	A	A	B	C	C	C	C	A	(280)J	260	330	(340)JF	(340)J	360
30	C	310	(300)F	290	340	290	260	310	290	350	(340)A	340	A	A	300	A	A	330	330	(300)A	(270)P	A	A	A
31	A	320	(280)JF	(280)F	310	(240)J	280	250	A	A	B	B	A	U	340	300	320	320	320	310P	(280)J	280	340P	(340)A
Mean Value	340	330	310	300	320	280	270	270	270	300	320	340	330	330	330	310	300	300	290	290	290	320	330	330
Median Value	340	330	320	300	310	270	270	260	280	300	320	340	330	320	320	310	300	300	290	280	290	320	330	320
Count	21	24	26	28	28	28	26	21	15	10	9	10	12	16	25	28	29	29	26	24	26	27	26	24

h_pF2 | Sweep 1.0 Mc to 17.2 Mc in 2 min | ☐ Manual ☒ Automatic | K 2

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

Kokubunji Tokyo

Lat. 35° 42.4' N
Long. 139° 29.3' E

May. 1955

h'F2

135° E Mean Time

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	300[A]	260	230	250	250	230	270	290	230	280	300	310	[320]A	320	300	270	250	240	230	220	[240]A	250	280	280
2	280	280	250	250	250[F]	230	250	260	260	320[A]	320	350	340	320	300	280	260	250	230	230	220	230	260	250
3	330[A]	330[A]	260	270	270	220	230	250	290	360	320	320	[300]A	280	330	280	270	250	240	250[A]	250A	250A	280[A]	270
4	290	270	270	260	270[F]	230	220	240	270	280	340	350	300	290	280	330	300	290	250	230	230	230	240	270
5	290[F]	280[F]	290[F]	240[F]	200[F]	240	230	260	260	290	310	330	280	330	300	280	280[A]	290[A]	250	220	200	230[A]	290[A]	A
6	A	300	280	270[F]	[250]A	230[A]	230	270	[290]A	310	280	430[A]	350	310	320	270	280	300	270[A]	250[A]	230[A]	310	290	330[A]
7	280	320	230	210	360[A]	A	A	A	A	A	A	360	310	300	340	300	330[A]	280	A	A	A	340[A]	[320]A	310[A]
8	280	290	310	250	260	240	250	300[A]	280	280	310	330	350	330	310	330	330	300[A]	330	230[A]	220	A	A	A
9	A	A	250	270[F]	290	300	260	260	310	380	A	A	370	[350]A	330	[320]A	310	[280]A	260	240[A]	240	310[F]	[300]A	300[A]
10	[320]A	330[A]	(320)[F]	290	270[F]	260	260	290	A	M	<320[M]	330	380	(400)[B]	350	330	310	310	280	250	250	260	250[A]	280[A]
11	[270]A	260	280	270	280	240	250	250	300[A]	290	330	330	[360]A	390	320	300	280	280	240	220[A]	[270]A	320[F]	A	A
12	A	290[F]	260	220[F]	250[F]	240	250	280[A]	270[A]	290	310	370	380	350	310	270	290	300	270[A]	250[A]	210[A]	310[A]	330[A]	260
13	270	290	280	250	230A	210	230	260	A	A	A	A	320	310	330	300[A]	280	280[A]	270	240[A]	210	A	A	290
14	[290]A	290	280	280	280	250	350[A]	240	A	A	A	A	320A	310[A]	300	280	320	A	300A	[290]A	280A	250[A]	[240]A	230
15	260[F]	290	240	240	250[F]	230	280	300	A	A	B	B	G	B	380	330	310	280	240	260	300A	250	310	260
16	290[F]	270	240	200	260[F]	240	250[L]	270	300	310	350	360	(430)[B]	400	360	270	250	250	240	A	A	A	300	300
17	[280]A	250	290	250	230	250[A]	250	280	280	A	A	380	350	[340]B	320	300	280	270	310A	A	250A	250A	290[A]	280A
18	C	C	C	C	C	C	C	C	C	C	A	A	380	B	B	330	310	280	280	250A	210[A]	[260]A	320A	[300]A
19	270[AF]	280[A]	240[F]	[260]A	280	[270]C	260	250	250[A]	A	A	A	380	[350]A	320	300	300	270	260	250A	280A	A	A	240
20	260	300[A]	250[F]	230[F]	250	250	280	250[A]	250	C	A	A	430	360	350	300	270	270	270	A	A	230A	300	A
21	A	A	A	300A	300A	230	L	A	A	A	A	A	A	A	340	310	290	260	280[A]	A	A	250[A]	250	230
22	[260]A	300A	280	250A	260	240	260	270[A]	A	A	A	A	A	320	[320]A	320	280	260	240	230A	230	280	320A	A
23	A	A	A	280A	A	230	360	A	A	A	A	A	A	A	310	320A	[300]A	270	270	240	240	290A	260	300A
24	A	A	280	270	270	250[H]	270	250	270A	280	380A	360	390	[380]A	360A	310	280	300A	[280]A	270A	250	300	250	260
25	280	250	220	190	270	270[AH]	290	260	250	270	B	B	B	B	310	280	270	280A	[270]A	260A	300A	220	280[F]	350
26	260	260	230	[250]A	270	[310]A	350	A	290A	A	A	350	[360]A	380[A]	[330]A	290	300	[310]A	310[A]	270[A]	A	A	A	(320)[A]
27	260	A	A	300A	250	220	260	280	A	A	A	A	A	350	340	[300]A	270	250	250	240	270A	280	320	290
28	290	280	290	240	250	250	A	A	320	310	350A	360	360	360	A	A	280	280	290	240[A]	260A	300A	[290]A	280
29	310	260	220A	230	290	260	310	A	A	A	370	330	400	C	C	C	C	A	260	240A	220	310[A]	290	310
30	300	290	230	230	280	240	240	310	290A	350	[340]A	340	300[A]	A	300	A	A	320[A]	300A	[280]A	250A	A	A	A
31	A	270	230[F]	230[F]	250	220	280	230	330	270	380	[360]B	350	370	340	290	320	300	290	270[A]	240[AF]	260	260	[270]A
Mean Value	280	280	260	250	260	250	270	270	280	300	330	350	350	340	330	300	290	280	270	250	240	270	280	280
Median Value	280	280	260	250	260	240	260	260	280	290	330	350	360	340	320	300	280	280	270	240	240	260	290	280
Count	23	25	27	30	29	29	27	24	20	16	15	19	26	24	28	28	29	29	30	26	26	25	25	25

h'F2

Sweep 1.0 Mc to 17.2 Mc in 2 min ☐ Manual ☒ Automatic

K 3

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

Kokubunji Tokyo

Lat. 35° 42.4' N
Long. 139° 29.3' E

May. 1955

foF1

135° E Mean Time

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1							A	A	A	A	A	4.5	A	A	A	4.2	3.9	3.5	L					
2							3.6	3.9	A	A	A	4.7	4.6	4.4	4.4	4.2^{H}	4.1	3.6						
3							Q	3.9	4.2^{L}	A	A	A	A	A	4.5	4.1	4.1	3.5						
4							3.3	B	A	A	4.5	4.6	4.5	4.5	4.5	4.5	4.1	4.0	3.0					
5							L	4.0	4.2	A	4.3	A	A	4.4	4.4	A	A	A	A					
6							L	L	A	4.3	A	A	A	A	A	4.2	[3.9]^{A}	3.6						
7							A	A	A	A	A	A	A	4.4	[4.3]^{B}	4.2	A	A	A					
8						Q	Q	A	A	A	A	A	B	B	4.4	4.3	4.1	A	A					
9							A	A	4.1	4.2^{B}	A	A	4.4	A	A	A	A	A	2.9^{L}					
10							3.6	4.0	A	M	M	A	4.4	4.3	4.3	4.1	[3.8]^{A}	3.6	3.0^{L}					
11							3.5^{L}	3.9	A	A	B	A	A	4.5	A	B	A	A	L					
12							A	A	A	A	4.4	4.5	4.5	4.3	4.2	4.2	A	A	A					
13							Q	A	A	A	A	A	A	A	4.3	[4.2]^{A}	4.1	[3.6]^{A}	3.0^{L}					
14							A	A	A	A	A	A	A	A	A	4.1	A	A						
15							A	A	A	A	B	B	4.2	B	B	B	4.0	3.6						
16							L	4.0	A	A	4.5	4.4	B	A	B	4.2	A	A	Q					
17							L	4.0	4.1	A	A	4.5	4.4	B	B	4.2	[4.0]^{A}	3.8	A					
18							C	C	C	C	A	A	B	B	B	A	A	A						
19							L	4.1^{L}	A	A	A	A	4.5	A	A	A	A	3.6	3.1					
20							3.6	A	A	C	A	A	A	B	4.4	A	A	3.8	3.2					
21							L	A	A	A	A	A	A	A	A	A	A	A	A					
22						Q	A	A	A	A	A	A	A	A	A	4.4	A	L	3.0^{L}					
23							4.0	A	A	A	A	A	A	A	A	A	A	3.6	3.3^{L}					
24							3.8	A	A	A	A	A	A	A	A	A	4.1	A						
25						Q	3.8	4.1	4.2	4.5	B	B	B	A	B	A	A	A	A					
26							A	A	A	A	A	A	A	A	A	A	A	A	A					
27						Q	L	A	A	A	A	A	A	B	A	A	4.1	[3.5]^{A}	2.9^{L}					
28						Q	A	A	A	A	A	A	A	A	A	A	A	3.9	A					
29						Q	3.7	A	A	A	A	A	A	C	C	A	C	A	4.0					
30							Q	4.1	[4.2]^{A}	4.4	A	A	A	A	A	A	A	A	A					
31						L	4.0	Q	A	A	A	A	A	4.5	A	A	4.2	4.0	3.5^{L}					
Mean Value							3.7	4.0	4.2	4.4	4.4	4.5	4.4	4.4	4.4	4.2	4.0	3.7	3.2					
Median Value							3.6	4.0	4.2	4.4	4.4	4.5	4.4	4.4	4.4	4.2	4.1	3.6	3.0					
Count							10	10	6	4	4	6	8	8	10	14	13	15	11					

foF1

Sweep 1.0 Mc to 17.2 Mc in 2 min ☐ Manual ☒ Automatic

K 4

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

May. 1955 | h'F1 | 135° E Mean Time

Kokubunji Tokyo | Lat. 35° 42.4' N | Long. 139° 29.3' E

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1							A	A	A	A	A	210	A	A	A	230	220	220	230					
2							230	220	A	A	A	200	230	250A	220	220H	220	230						
3							Q	230	220	A	A	A	A	A	210	210	230	220						
4							230	B	A	A	220	230	230	220	260A	270	[260]A	240	230					
5							240	230	270	A	180	A	A	220	220	A	A	A	A					
6							230	270A	A	230	A	A	A	A	A	A	A	250						
7							A	A	A	A	A	A	A	280	[260]B	230	A	A	A					
8						Q	Q	A	A	A	A	A	B	B	280	B	A	A	A					
9							A	A	210	A	A	A	280	A	A	A	A	A	270					
10							260	280A	A	M	M	A	230	210	270	210	[220]A	230	240					
11							240	220	A	A	B	A	A	270	A	B	A	A	A					
12							A	A	A	A	230	220	B	250	260	B	A	A	A					
13							Q	A	A	A	A	A	A	A	280	[260]A	230	[250]A	270A					
14							A	A	A	A	A	A	A	A	A	A	A	A						
15							A	A	A	A	B	B	220	B	B	B	250	270						
16							230	220	A	A	230	210	B	A	B	A	A	A	Q					
17							230	230	230	A	A	210	230	B	B	270	[260]A	250	A					
18							C	C	C	A	A	A	B	B	B	A	A	A						
19							250	A	A	A	A	A	A	A	A	A	A	A	A					
20							250	A	A	C	A	A	A	B	260	A	A	250	260					
21							230	A	A	A	A	A	A	A	A	A	A	A	A					
22						Q	A	A	A	A	A	A	A	A	A	230	A	A	230					
23							230	A	A	A	A	A	A	A	A	A	A	230A	240					
24							280A	A	A	A	A	A	A	A	A	A	A	A						
25						Q	250	230	230	230	B	B	B	A	B	A	A	A	A					
26							A	A	A	A	A	A	A	A	A	A	A	A	A					
27						Q	240	A	A	A	A	A	A	B	A	A	260A	[250]A	240A					
28						Q	A	A	A	A	A	A	A	A	A	A	A	260A	A					
29						Q	A	A	A	A	A	A	A	C	C	A	C	A	250					
30							Q	A	A	270	A	A	A	A	A	A	A	A	A					
31						230	200	Q	A	A	A	A	A	230	A	A	250	240	250					
Mean Value							240	240	230	240	220	210	240	240	250	240	250	240	250					
Median Value							240	230	230	230	220	210	230	240	260	230	240	240	240					
Count							16	9	5	3	4	6	6	8	10	9	10	14	11					

h'F1

Sweep 1.0 Mc to 17.2 Mc in 2 min ☐ Manual · ☒ Automatic

K 5

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

May. 1955 | foE | 135° E Mean Time

Kokubunji Tokyo Lat. 35° 42.4' N Long. 139° 29.3' E

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1							2.3	2.6	3.0	3.0	3.0	3.2	3.2	(3.2)^{B}	3.3	3.0	2.8	2.2	A					
2							B	2.5	A	A	A	A	A	A	A	3.0	A	A						
3							A	2.6	2.9	3.3	(3.2)^{P}	3.2^{B}	A	A	A	A	2.7	A						
4							2.4	2.9	3.1	3.2	3.3	3.2	3.1	[3.0]^{A}	3.0	2.8	A	A	1.8					
5							2.3	2.7	3.0	3.0	3.0	3.1^{B}	3.3	>2.9^{B}	3.2	[3.0]^{A}	2.8	2.3	A					
6							2.3	2.7	3.0	3.1	A	A	A	A	A	A	A	A						
7							2.1	2.6	2.8	3.0	3.1	3.2	3.2	3.0	3.0	3.0	2.8	2.4	A					
8						(1.5)^{A}	1.9	2.6	3.0	3.0	3.1	A	B	A	>2.9^{B}	3.0	2.7	2.3	(1.7)^{A}					
9							2.1	2.5	3.0	[3.0]^{A}	3.1	A	B	B	3.1	3.0	2.8	(2.3)^{A}	1.5					
10							2.0	2.5	2.9	M	M	A	A	>2.9^{B}	B	2.8	2.8	2.5	A					
11							2.3	2.7	3.0	A	B	A	3.0	A	A	A	2.8^{A}	A	A					
12							2.1	2.6	3.0	3.2	3.0	3.2	B	A	A	A	2.8	2.5	1.7					
13							2.2	2.5	3.1	3.2	[3.2]^{A}	3.2	3.3	>3.0^{B}	3.0	3.0	2.8	2.5	A					
14							2.1	2.6	3.0	3.1	3.1	A	A	A	A	3.0	2.7	2.5						
15							2.0	2.5	2.9	3.0	>2.9^{B}	A	A	>2.7^{B}	B	>2.7^{B}	2.9	2.4						
16							2.0	2.7	(2.9)^{B}	3.1	[3.2]^{C}	3.2	3.2	A	A	3.1	2.9	[2.4]^{A}	1.9					
17							2.1	2.5^{A}	3.0	3.1^{B}	3.3	3.0	3.3	>3.0^{B}	3.0	2.9	2.7	(1.9)^{A}	1.6					
18							C	C	C	C	A	3.1	>3.0^{B}	>3.0^{B}	>2.9^{B}	3.2	2.9	2.5						
19							2.3	2.7	[2.9]^{A}	3.1	A	A	A	A	A	3.2	2.8	2.4	A					
20							2.4^{F}	2.7	2.9	[3.0]^{C}	3.2	3.2^{B}	[3.2]^{A}	3.1	3.2	3.0	2.9	2.5	2.4					
21							2.1	2.8	3.0	A	A	A	A	A	3.1	3.0	2.9	2.5	2.0					
22						1.5	2.2	2.7	3.0	3.0	A	A	B	B	3.0^{B}	3.1	3.0	2.5	A					
23							2.2	2.5	3.0	A	A	A	B	B	3.2	3.1	2.9	2.5	A					
24							2.4	2.7	3.0	3.2	3.3	A	A	A	A	2.9	A	A						
25						1.8	2.3	2.9	3.1	(3.0)^{B}	(3.2)^{B}	A	A	A	>2.9^{B}	3.0	2.9	2.5	A					
26							A	2.5	2.9	A	A	A	A	3.1	3.1	3.1	2.8	2.5	1.9					
27						1.6	2.3	2.7	3.0	3.0	>3.0^{B}	>2.9^{B}	>3.0^{B}	>2.9^{B}	3.2	3.1	2.8	2.5	A					
28						1.7	2.4	2.6	3.1	3.0	3.0	3.1	>3.0^{B}	A	3.0	[2.8]^{A}	2.5	A	A					
29						1.9^{J}	2.3	2.8	3.0	3.0	B	3.1	3.2	C	C	A	C	A	A					
30							2.2	2.8	3.0	3.2	A	A	3.3	A	A	A	A	A	A					
31						1.5	2.3	2.9	3.1	3.0	3.1	3.2	3.3	[3.2]^{A}	3.2	3.2	3.0	2.6	A					
Mean Value						1.6	2.2	2.7	3.0	3.1	3.1	3.2	3.2	3.1	3.1	3.0	2.8	2.4	1.8					
Median Value						1.6	2.2	2.6	3.0	3.0	3.1	3.2	3.2	3.1	3.1	3.0	2.8	2.5	1.8					
Count						7	27	30	29	24	17	14	12	6	15	25	25	22	9					

foE

Sweep 1.0 Mc to 17.2 Mc in 2 min ☐ Manual ☒ Automatic

K 6

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

Kokubunji Tokyo

Lat. 35° 42.4' N
Long. 139° 29.3' E

May. 1955

h'E

135° E Mean Time

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1							160	120	110	110	110	110	110	110	110	110	120	120	A					
2							B	110	A	A	A	A	A	A	A	110	A	A						
3							A	110	110	110	110	110	A	A	A	A	120[A]	A						
4							120	110	110	110	110	110	110	(110)[A]	110	110	A	A	130					
5							120	110	110	110	110	110	110	110	110	(110)[A]	110	120	A					
6							110	110	110	110	A	A	A	A	A	A	A	A						
7							120	110	110	110	110	110	110	110	110	110	110	120	A					
8						150	110	100	110	110	110	A	B	A	110	110	110	110	130					
9							120	110	110	(110)[A]	110	(110)[A]	110	(110)[B]	110	110	110	110	120					
10							120	110	110	M	M	A	A	110	(110)[B]	110	110	120	A					
11							110	110	110	A	B	A	110	A	A	A	A	A	A					
12							110	110	110	110	110	110	110	A	A	A	110	110	120					
13							A	110	110	110	(110)[A]	110	110	110	110	110	110	120	A					
14							120	110	110	110	110	A	A	A	A	110	110	110						
15							120	110	110	110	110	A	A	110	(110)[B]	110	110	120						
16							110	110	110	110	(110)[C]	110	110	A	A	A	110	A	A					
17							120	(120)[A]	110	110	110	110	110	110	110	110	110	110	120					
18							C	C	C	C	A	110	110	110	110	110	110	110						
19							110	110	(110)[A]	110	A	A	A	A	A	110	110	120	A					
20							110	110	110	(110)[C]	110	110	(110)[A]	110	110	110	110	110	120					
21							110	110	110	A	A	A	A	A	110	110	110	120	120					
22						B	110	110	110	110	A	A	110	110	110	110	110	110	A					
23							110	110	110	A	A	A	110	110	110	110	120	120	A					
24							120	110	110	110	110	A	A	A	A	110	A	A						
25						130	110	110	110	110	110	A	A	A	110	110	110	110	A					
26							A	110	110	A	A	A	A	110	110	110	110	110	120					
27						130	140[A]	110	110	110	110	110	110	110	110	110	110	110	A					
28						140	110	110	110	110	110	110	110	(110)[A]	110	(110)[A]	110	A	A					
29						130	120	110	110	110	110	110	110	C	C	A	C	A	A					
30							120	110	110	110	A	A	110	A	A	A	A	A	A					
31						130	110	110	110	110	110	110	110	A	110	110	110	120	A					
Mean Value						140	120	110	110	110	110	110	110	110	110	110	110	110	120					
Median Value						130	110	110	110	110	110	110	110	110	110	110	110	110	120					
Count						6	26	30	29	24	20	16	19	16	20	24	24	21	8					

h'E

Sweep 1.0 Mc to 17.2 Mc in 2 min ☐ Manual ☒ Automatic

K 7

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

May. 1955 | **fEs** | 135° E Mean Time | **Kokubunji Tokyo** | Lat. 35° 42.4' N | Long. 139° 29.3' E

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	3.0	2.5	2.5	2.7	2.4	2.5	4.7	5.0	6.0	5.7	5.9	4.4	6.7	G	5.3	4.0	3.1	2.9	2.5Y	6.8	5.0	3.0	3.0	2.7
2	2.9	3.0	2.4	2.6	2.5	2.5	2.5	3.3	4.6	5.7	5.1	4.0	4.5	5.0	3.2	G	4.3	3.0	3.0	3.2	3.3	2.5Y	3.0	2.8Y
3	4.5	4.5	3.0F	4.9	3.1	3.2	2.4	3.3	4.2	5.1	5.0	5.5	7.4	5.7	4.5	3.0	3.2	3.0	3.2	4.1	4.0	3.5	5.0	5.0
4	4.5	4.9	4.5	3.7	2.4	E	2.8	2.8	5.0	5.6	4.5	4.0	3.9	5.2	4.5	4.0	4.7	3.5	2.7	2.5	E	2.5Y	2.4Y	4.0
5	3.5	2.7	3.8	1.8	2.4Y	3.7	3.2	4.0	5.5	5.3	3.8	5.0	5.4	G	3.8	5.5	6.5	7.0	4.4	3.0	2.5	7.0	4.5	6.5
6	5.2	4.4	5.6	4.8	5.0	3.5	3.5	4.9	10.0	4.7	4.9	5.7	4.9	7.0Y	5.7	4.2	6.5	6.5Y	4.2	3.8	3.8	3.5	2.7	3.5
7	2.5	2.7	2.4Y	2.5Y	3.3	4.0	5.1	6.8	6.8	7.2	6.1	5.3	6.8	G	2.9	G	6.4	5.5	7.1	9.6Y	7.0	5.7	7.0	4.7
8	4.2	3.0	3.2	3.0F	3.0	3.0	4.0	5.6	6.0	6.9	5.9	5.9	3.9	4.0Y	G	G	4.3	7.0	9.2Y	3.7	7.0F	6.5	8.5	5.9
9	7.0	5.5	4.5F	4.2	E	4.0	5.0	4.7	5.2Y	4.8Y	6.4	7.5	4.1	6.0	5.3	6.5	5.6	10.0	4.5	4.2	3.0	3.9	6.5	5.4
10	5.7	7.0	6.8	6.9	4.2F	3.5	3.0	4.5	7.2	M	7.0	5.0	3.4	G	G	G	5.2	3.8	3.1	2.8	7.0	5.0	7.0	5.0
11	5.0	E	3.0Y	3.0	2.4	2.6Y	3.0	4.0	5.5	7.0	G	7.0	5.8	3.5	5.5	3.8	6.1	4.8	3.5	5.9	6.9	4.3F	5.0	6.7
12	5.0	4.3	6.6	3.1	2.4	3.2	3.9	6.5	5.5	5.0	4.6	3.9	3.9	4.3Y	3.4	3.5	5.7	5.5	5.1	7.0	5.5F	6.6F	5.5	3.9
13	3.2	3.7	3.2	3.0	3.2	2.5	3.5	4.7	7.1	9.9	6.9	8.5	5.4	7.0Y	4.0	6.6	6.5	6.9	4.3	5.0	3.8	5.5	5.0	4.5
14	5.0	3.0	3.0	4.6	2.7	2.8	5.9	5.0	10.0	10.0	8.4	7.2	6.9	7.0	4.3	4.7	6.4	7.0	7.0	7.0	6.8	5.8	7.0	3.2
15	2.7	3.2	3.8	2.3	2.4Y	2.6	4.0	5.0	6.7	6.9	G	3.0	3.5	G	B	G	G	3.8	4.2	3.6	7.0	5.2	7.0	3.7
16	3.5	3.0	2.8	2.9	2.7	2.5Y	2.6	3.2	5.2	5.0	C	3.8	4.4	3.2	3.9	4.5	5.3	4.5	4.3	5.5	6.3	4.7	5.0	2.9
17	5.0	2.9	3.2	2.7	2.6	3.7	2.6	3.0	3.6	5.2	6.0	G	5.0	G	G	G	5.0	4.7	6.0	7.0	5.4	7.0	4.9	3.3
18	C	C	C	C	C	C	C	C	C	C	6.5	7.1	G	G	G	4.5	5.0	5.2	4.3	3.8	5.0Y	8.7	5.5	5.5
19	5.5	3.0	4.3Y	5.0	4.5	C	4.2	5.5	6.0	5.9	5.2	5.5	5.0	9.9	4.5	5.3	5.3	4.5	4.5	7.1	5.8	5.0	5.7	4.5
20	3.6	4.3	3.1	3.8	3.5	3.0	3.9	6.5	5.9	C	6.7	7.0	5.5	3.9	4.4	5.0	5.8	4.2	3.1	7.0	8.5	4.5	4.7	6.8
21	4.5	3.8	4.3	4.9	4.5	5.0	2.9	10.0	10.0	10.0	10.1	10.2	10.0	10.3	5.6	5.4	6.7	7.0	5.1	8.5	7.0	7.0	5.7	5.7
22	4.1	5.0	5.0	4.4	2.5	3.0	5.0	5.9	10.0	8.8	9.5	8.5	9.0	9.0	7.2	3.9	5.5	3.9	3.0	3.0	1.9	4.5	5.5	7.0
23	5.8	5.5	5.8	4.5	3.2F	2.6	2.4	7.5	9.0	10.0	9.7	10.0	7.5	8.6	7.2	6.5	10.0	3.5	3.0	2.4	3.0	4.2	4.5	5.0
24	5.8	7.0	3.6	3.0F	3.2	3.2	4.2	5.0	6.4	5.1	5.1	6.9	4.9	5.0	4.6	4.5	4.6	8.5	8.5	5.2	2.9	4.4	3.7	3.7
25	2.8	2.8	2.4Y	2.5Y	3.0	3.7	4.0	3.2	3.5	3.9	4.0	3.5	4.2	8.5Y	G	5.5	5.7	5.8	7.0	5.4	6.8	3.7	3.7	7.0
26	5.6	3.0	1.5	4.3	4.5	6.7	5.7	7.2	7.2	9.7Y	7.0	5.6	10.0	8.5Y	10.0Y	5.0	3.9	7.2	7.0	5.3	7.1	7.2	6.5	5.5
27	7.0Y	5.5	5.9	4.5	3.5	G	3.5	4.3	5.5	7.0	7.3	7.0	6.5	G	7.0	7.1	3.9	5.1	3.2	2.4	5.6	3.0	4.3	3.0
28	2.8	2.5	3.9	3.8	2.9F	3.1	5.9	6.5	5.5	5.7	5.5	6.5	7.0	8.6	10.0	10.0	6.5	3.9	5.9	3.8	4.0	3.5	5.9	8.5
29	4.3	3.8	2.8	2.9	3.0	3.0	4.1	6.7	5.6	5.6	5.6	6.0	4.5	C	C	>50C	C	7.5	5.0	>3.3C	5.0	5.5	2.9	4.3
30	3.0	4.3	C	2.9	2.9	2.8F	2.8	3.6	6.8	3.6	7.2	5.6	7.4	7.0	7.0	6.9	9.7	9.2	8.4	9.8	8.5	7.0	8.5	8.5
31	6.7	6.0	3.9	3.5	2.7	2.5	2.9	3.6	5.7	5.5	4.3	4.1	5.6	3.5	6.5	5.9	7.0	3.8	5.0	4.9	4.9	7.0	4.3	7.0
Mean Value	4.7	4.0	4.2	3.6	3.1	3.3	3.8	5.1	6.4	6.7	6.2	6.0	5.8	6.4	5.4	5.2	5.7	5.4	4.9	5.1	5.3	5.1	5.2	5.0
Median Value	4.5	3.8	3.6	3.3	3.0	3.0	3.7	5.0	6.0	5.7	5.9	5.6	5.2	5.0	4.5	4.5	5.6	5.1	4.4	5.0	5.4	5.0	5.0	5.0
Count	30	30	29	30	30	29	30	30	30	28	30	31	31	30	29	30	30	31	31	30	31	31	31	31

fEs

Sweep 1.0 Mc to 17.2 Mc in 2 min ☐ Manual ☒ Automatic

K 8

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The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

Kokubunji Tokyo Lat. 35° 42.4' N Long. 139° 29.3' E

May. 1955 | (M3000)F2 | 135° E Mean Time

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	2.9	3.0	3.1	3.0	3.0^{P}	3.4	3.3	B	(3.8)^{P}	3.2	3.2	3.1	[3.0]^{A}	2.9^{P}	3.0	3.2	3.3	3.5^{P}	3.3	3.3	3.1	3.0	2.9	2.8
2	2.9	3.0	3.0	3.0	3.0^{F}	3.3	3.5	3.4	3.4	3.2	3.3	3.1	3.0	3.0	(3.0)^{J}	3.3	3.3	3.5^{P}	3.4	3.3	3.2	3.0	3.1	3.0
3	2.7	2.9	3.1^{F}	2.9$^{2}_{F}$	3.2^{F}	3.4	3.4	3.5	3.3	3.0	3.2	3.0	[3.2]^{A}	3.3^{P}	3.0^{P}	3.3	3.1	3.3^{P}	3.2	3.2	3.1	3.0	2.9	3.0
4	3.1^{F}	3.1	3.1	(2.9)$^{J}_{F}$	3.0^{F}	3.4	(3.6)$^{J}_{P}$	(3.8)^{J}	3.4	3.3	3.0	3.0	3.2^{P}	3.1	3.1	3.0	3.1	3.0	(3.2)^{J}	3.2	3.3	3.1	3.1^{P}	2.9
5	2.9^{F}	2.8^{F}	(3.0)$^{J}_{F}$	3.2^{F}	3.2^{F}	3.4^{2}	(3.3)^{J}	3.2	3.4	3.2	3.0	2.9	3.3	3.0	3.1	3.1^{P}	3.1	3.1	(3.3)^{J}	(3.3)^{J}	3.3	3.0	3.0	[3.0]^{A}
6	3.1	3.0	2.9	3.1	[3.2]^{A}	3.4	3.5	3.3	[3.2]^{A}	3.0	3.1	2.7	2.8	3.0	(2.8)^{J}	3.4	3.1	3.0	3.1	3.2^{P}	3.1	2.7	2.8	2.7
7	2.9	2.7	3.0	(3.6)^{J}	2.8	A	A	A	A	A	A	2.9	3.2	3.0	3.0	3.2	3.0	3.3	A	A	A	2.9	[3.0]^{A}	3.1
8	3.0	2.8	2.8^{F}	3.2^{F}	3.0^{F}	3.3	3.2	3.3	3.2	3.2	3.2	3.1	2.9	3.1	3.1	2.8	(2.8)^{J}	3.0	3.1	(3.4)^{J}	3.3	A	A	A
9	A	A	3.0	(3.0)^{F}	2.8^{F}	3.0	3.4	3.3	3.3	3.0	A	A	3.0^{P}	[3.0]^{A}	3.1	3.1	3.1	[3.2]^{A}	3.2^{P}	3.5^{P}	3.0^{P}	(2.8)$^{J}_{F}$	[3.0]^{A}	(3.1)$^{J}_{F}$
10	[3.0]^{A}	2.9	[3.0]$^{A}_{F}$	3.0^{F}	3.0^{F}	3.1	3.5	3.3	A	M	3.1^{P}	3.2	2.9	(2.8)^{B}	(3.0)^{J}	3.0	3.1	3.1	3.0	3.0	3.0	(3.0)^{J}	3.2	3.1
11	[3.0]^{A}	2.8	3.0	2.9	2.9	3.3	3.4	3.5	3.1	3.3	3.2	3.1	[3.0]^{A}	2.8	3.1	3.1	(3.1)^{J}	3.4^{P}	3.3	3.5	[3.1]^{A}	2.7^{F}	A	A
12	A	(3.2)$^{J}_{P}$	3.1^{F}	3.4^{F}	3.1^{F}	3.4	3.5	3.4	3.2	3.3^{P}	3.1	3.0	3.0	3.0	(3.1)^{J}	3.3	3.1	3.0^{P}	3.3^{P}	3.4	3.5	2.9	(3.0)^{F}	2.9
13	(3.0)^{J}	3.0	3.0^{F}	3.1	3.5	3.7	3.5	3.5	A	A	A	A	(3.1)^{J}	3.1	3.0	3.2	3.2	3.1	3.1^{P}	(3.3)^{J}	3.5	A	A	3.0
14	[3.0]^{A}	3.0	(3.0)$^{J}_{F}$	3.1	3.0^{F}	2.8	3.0	3.4	A	A	A	A	3.0	3.2	3.1	3.2	3.1	(3.0)^{A}	3.1	[3.1]^{A}	(3.1)^{J}	(3.2)^{A}	[3.2]^{A}	(3.1)^{F}
15	3.0	2.9	3.1	3.1	(3.0)$^{J}_{F}$	2.7	3.2	3.3	A	A	B	B	G	B	2.9	3.1	3.2	3.3	3.2	3.0	3.1	3.4	2.8	2.9^{F}
16	(2.9)$^{J}_{B}$	3.0^{F}	3.1	3.6	F	3.3	3.4	3.4	3.3	3.6	3.0	3.0	2.7	2.6	2.9^{P}	3.2^{P}	3.5	3.3	3.4	A	A	2.7	2.7	2.8
17	[2.8]^{A}	2.9^{P}	2.8	3.3	3.1	3.0	3.4	3.4	3.3	3.2^{A}	[3.0]^{A}	2.9	3.1	3.1	3.1	3.1	3.2	3.1	3.1	A	3.3	3.1	3.0	2.9
18	C	C	C	C	C	C	C	C	C	C	A	A	3.0	B	B	3.1	3.1	3.1	3.0	3.1	3.6	[3.3]^{A}	3.0	[3.0]^{A}
19	(3.1)$^{J}_{P}$	3.0	(3.2)$^{J}_{F}$	[3.0]^{A}	2.9^{F}	[3.1]^{C}	3.3	3.5	3.4	A	A	A	2.8	[2.9]^{A}	3.0	3.1	3.1	3.2	3.2	3.1	3.1	(3.0)$^{B}_{F}$	[3.0]^{A}	3.0
20	3.0	2.9^{F}	3.0^{F}	3.2	3.0	3.0	3.3	3.5	3.6	C	A	A	2.8	2.9	2.9	3.0	3.3	3.3	(3.1)^{P}	A	A	3.3	3.0^{F}	A
21	A	A	A	3.0	(2.9)$^{J}_{B}$	3.3	3.0^{H}	A	A	A	A	A	A	A	3.0^{P}	(3.0)^{J}	3.3	3.4	3.0	A	A	3.2	(3.3)^{P}	(3.3)^{J}
22	[3.2]^{A}	(3.0)$^{J}_{P}$	(3.1)^{J}	(3.4)^{J}	3.0^{F}	3.2^{P}	3.3	3.3	A	A	A	A	A	3.1	[3.0]^{A}	3.0	3.2	3.2	3.4	3.1	3.0	2.9	2.9^{P}	A
23	A	A	A	(3.0)^{J}	A	3.3	(3.0)^{J}	A	A	A	A	A	A	A	3.0	3.0	[3.1]^{A}	3.2	3.2	3.1	3.1	3.0	3.1^{P}	(3.1)$^{J}_{F}$
24	A	A	2.9	3.0^{P}	(3.1)^{J}	2.9^{H}	3.2	(3.6)^{P}	3.5	3.4	2.9	3.0	2.9	[2.9]^{A}	2.9	(2.9)^{J}	3.1^{P}	(3.2)^{J}	[3.2]^{A}	3.1	3.1	2.7	(3.1)^{J}	(3.0)^{J}
25	2.9	3.0	3.4	3.0	3.0	3.0^{H}	3.1	(3.3)^{J}	(3.5)^{J}	3.5	B	B	B	A	3.1	3.3	3.4^{P}	3.1	3.3	3.4	3.0	3.3	(3.1)$^{J}_{F}$	2.7
26	A	B	B	A	3.1^{P}	3.0	2.9	A	3.4	A	A	3.0^{P}	[2.9]^{A}	2.8	[3.0]^{A}	(3.1)^{J}	3.1^{P}	[3.0]^{A}	3.0	3.1^{P}	A	A	(2.8)^{J}	2.9^{P}
27	3.0	A	A	B	(3.3)^{J}	3.4	(3.3)^{J}	3.3	3.0	A	A	A	A	3.0	(3.0)^{J}	[3.2]^{A}	3.3	3.4	3.3	3.1	2.8	2.9	2.9	(2.9)^{J}
28	(2.9)^{J}	2.8	(2.8)^{J}	(3.3)^{J}	3.0	(3.2)^{J}	[3.2]^{A}	(3.3)^{J}	3.2	3.1	3.0	2.6	(3.0)^{J}	2.9	A	A	3.2	(3.1)^{J}	(3.1)^{J}	3.0^{P}	3.0	2.8	A	A
29	(2.7)^{P}	(3.2)^{J}	(3.2)^{J}	3.0	(2.8)^{J}	3.0	3.0	A	A	2.8	2.9	3.1	2.8	2.8	[2.9]^{C}	3.0	C	A	(3.5)^{J}	3.4	3.0	(2.9)$^{J}_{F}$	(2.9)^{J}	2.8
30	C	3.1	[3.1]^{C}	3.1	2.9	3.1	3.4	3.2	3.1	3.1	[3.2]^{A}	3.2	3.3	3.1	3.2	A	A	3.0	3.0	[3.2]^{A}	(3.3)^{P}	3.5	A	A
31	A	3.1	(3.2)$^{J}_{F}$	(3.2)^{F}	3.1	(3.6)^{J}	3.6	3.5	3.2	3.4	2.9	[3.0]^{B}	3.0	2.9	2.9	3.2	3.0	3.0	3.0	3.0^{P}	(3.4)^{J}	3.3	2.9^{P}	[2.9]^{A}
Mean Value	3.0	3.0	3.0	3.1	3.0	3.2	3.3	3.4	3.3	3.2	3.1	3.0	3.0	3.0	3.0	3.1	3.2	3.2	3.2	3.2	3.1	3.0	3.0	3.0
Median Value	3.0	3.0	3.0	3.1	3.0	3.3	3.3	3.4	3.3	3.2	3.1	3.0	3.0	3.0	3.0	3.1	3.1	3.2	3.2	3.2	3.1	3.0	3.0	3.0
Count	22	24	26	28	28	29	29	24	21	18	17	19	26	26	27	29	29	30	30	26	26	28	26	25

(M3000)F2 Sweep 1.0 Mc to 17.2 Mc in 2 min ☐ Manual ☒ Automatic

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

May. 1955 | **fminF** | 135° E Mean Time | **Kokubunji Tokyo** | Lat. 35° 42.4' N, Long. 139° 29.3' E

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	(1.8)A	1.5	1.4	1.3	1.2	1.6	3.9	5.4A	4.5	5.0A	4.5A	4.0	(4.4)A	4.7	4.8A	3.7	3.3	2.6	2.0	1.4	3.5A	1.6	1.4	1.5
2	1.5	1.4	1.1	1.0	1.2	1.4	2.5	3.4	4.1A	5.1A	4.8A	4.0	4.0	4.0A	3.5	3.6	3.3	2.5	2.2	2.1	2.1	1.5	1.5	1.5
3	A	A	1.1	1.8	1.5	2.1	2.5	3.4	3.4	4.5A	4.5A	4.8A	A	5.0A	3.7	3.2	3.3	2.5	2.5	3.5A	3.0A	2.5A	2.1A	2.1
4	2.0	2.0	1.3	1.3	E	1.5	2.5	4.3	4.3A	4.4A	4.0	4.0	4.1	3.5	4.0A	4.0	4.0A	3.0	2.1	1.8	1.4	1.4	1.4	1.4
5	2.0A	1.4	1.3	1.4	E	2.1	3.0	3.3	4.0	4.6A	3.8	4.8A	4.5A	4.0	3.9	5.0A	5.3A	6.9A	3.8A	1.5	1.5	2.1A	2.7A	(3.1)A
6	3.5A	2.1	1.6	2.1A	(2.2)A	2.4A	2.7	4.0A	(4.0)A	4.0A	4.4A	6.0A	4.7A	4.8A	4.9A	4.0A	3.8A	2.8	2.9A	3.0A	2.6A	2.1	1.9	2.5A
7	1.4	1.9	1.2	1.0	A	A	A	A	A	A	A	4.9A	5.4A	4.0	4.5	3.5	5.4A	4.2A	A	A	A	4.4A	(4.0)A	3.6A
8	1.8	(1.8)A	1.7	1.2	1.5	2.1	2.1	4.9A	4.9A	5.7A	5.0A	4.9A	5.4	5.0	4.0	4.0	4.0A	6.0A	8.0A	A	2.1	A	A	A
9	A	A	2.1	2.1	E	2.4A	4.1A	3.6A	3.4	4.0A	A	A	4.1	(4.3)A	4.5A	5.5A	5.0A	(3.8)A	2.5	4.0A	1.7	2.0	(3.0)A	4.0A
10	(3.8)A	3.5A	2.1A	1.4	1.5	2.2	3.0	3.8A	A	M	<5.2M	4.8A	4.0	4.0	4.0	3.2	4.5A	2.7	2.1	1.4	2.1	2.1	2.5A	3.5A
11	(2.4)A	1.4	1.3	E	1.2	1.5	2.8	3.2	4.5A	4.4A	4.7	4.5A	(4.3)A	4.1	4.4A	4.5	4.0A	3.9	2.8A	A	A	2.1	A	A
12	A	2.1	2.1	1.5	1.5	2.2	3.2	5.6A	5.0A	4.3A	4.0A	4.0	4.2	4.0A	4.0	4.0	5.0A	5.0A	5.0A	5.1A	A	2.7A	(2.1)A	1.5
13	1.5	1.4	1.3	1.5	2.1A	1.7	2.8	4.1A	A	A	A	A	4.5A	4.5A	4.0	6.0A	3.3	5.0A	2.7A	2.2A	2.1	A	A	2.0
14	(2.0)A	2.1	1.4	1.4	1.0	2.1	5.0A	2.8A	A	A	A	A	5.5	6.4A	4.3A	4.0A	4.9A	5.4A	5.6A	(5.2)A	4.8A	2.6A	(2.0)A	1.5
15	1.4	2.0	1.3	1.5	E	2.1	3.5A	4.3A	A	A	B	B	4.0	B	4.3	4.2	3.5	3.3	2.3	2.1	4.7A	2.1	1.5	1.5
16	1.4	1.5	1.3	E	E	2.1	2.5	3.2	4.2A	4.4A	4.0	3.8	5.2	4.6A	5.0	4.0	4.5	3.6A	3.1	A	A	3.5A	1.3	2.0
17	(1.7)A	1.4	1.5	2.1	1.5	2.6A	2.5	3.3	3.6	4.5A	(4.2)A	3.9	4.0	4.3	4.5	4.0	4.4A	3.3	5.5A	(5.0)A	4.5A	2.1A	2.1A	2.1A
18	C	C	C	C	C	C	C	C	C	C	A	A	4.5	B	B	4.5	4.3A	4.0A	3.5A	3.0A	A	A	A	A
19	2.1A	2.1A	1.9	(2.0)A	2.0	(2.6)C	3.3	4.0A	5.2A	A	A	A	4.4A	(4.4)A	4.4A	4.5A	4.8A	3.4A	3.0A	3.6A	4.0A	(4.5)A	A	1.9
20	1.4	2.1A	1.4	1.3	1.5	2.1	3.3	4.5A	5.2A	C	A	5.2A	4.6A	4.6	4.0	4.3A	5.0A	3.5	2.7	A	A	2.5A	2.1	A
21	A	A	A	A	A	2.0	2.9	A	A	A	A	A	A	A	5.5A	4.6A	6.0A	5.0A	4.0A	A	A	5.0A	3.5	1.5
22	A	A	2.1	2.1A	E	2.2	4.3A	5.4A	A	A	A	A	A	5.4A	(4.6)A	3.8	4.9A	4.0A	2.5	(2.0)A	1.4	2.0	A	A
23	A	A	A	2.1A	(2.3)A	2.5	2.8	A	A	A	A	A	A	A	4.8A	5.4A	A	A	2.2	1.4	2.1	3.2A	2.0	4.0A
24	A	A	2.1	1.5	2.1	2.2	3.5A	4.4A	5.6A	4.9A	5.0A	4.8A	5.1A	(5.6)A	6.0A	4.5A	3.8A	6.6A	(5.8)A	5.0A	2.1	2.0	1.7	1.5
25	2.0	1.3	1.3	E	1.5	(2.8)A	3.3	3.2	3.4	3.9	B	B	A	A	5.0	4.5A	5.0A	5.3A	5.4A	5.0A	4.0A	2.0	2.1	1.5
26	1.5	1.5	1.1	(1.6)A	2.1	3.9A	5.0A	A	7.5A	A	A	5.0A	(5.2)A	5.5A	(5.2)A	4.9A	4.0	(5.0)A	5.9A	5.2A	A	A	5.4A	5.0A
27	1.5	A	A	A	2.1	1.9	2.8	4.0A	5.0A	A	A	A	A	5.0	6.6A	(5.2)A	3.6A	4.2A	2.6A	2.1	2.7A	2.0	2.1	1.5
28	1.5	1.4	2.0	2.1A	1.5	2.3	(3.9)A	5.5A	5.0A	5.0A	5.0A	5.1A	5.0A	6.0A	A	A	5.3A	3.2	5.5A	2.5A	2.3A	2.3A	(2.2)A	2.1A
29	1.5	2.5	(1.8)A	1.2	1.5	2.1	3.2A	A	A	5.0A	5.0A	5.2A	5.0	C	C	(5.5C	C	A	3.2	3.3A	1.5	(1.5)A	1.5	2.1
30	2.1	3.5A	1.5	E	1.3	2.1	2.6	4.0A	5.0A	4.0	(4.4)A	4.9A	5.5A	5.8A	5.0A	A	A	5.1A	4.3A	(4.6)A	5.0A	5.0A	A	A
31	A	2.1	1.2	2.1A	1.4	1.9	2.7	3.3	5.0A	5.0A	5.1	(5.0)A	5.0A	3.6	4.7A	5.2A	3.6	2.7	2.6	4.0A	1.6	4.4A	1.7	(2.1)A
Mean Value	1.9	2.0	1.5	1.7	1.6	2.2	3.2	4.0	4.6	4.6	4.5	4.7	4.7	4.7	4.6	4.4	4.4	4.1	3.6	3.2	2.7	2.6	2.2	2.3
Median Value	1.8	1.9	1.4	1.4	1.5	2.1	3.0	4.0	4.5	4.4	4.5	4.8	4.5	4.6	4.5	4.4	4.4	3.9	3.0	3.0	2.3	2.1	2.1	2.0
Count	22	23	27	28	28	29	29	25	21	18	16	20	25	25	28	28	28	29	30	25	23	27	24	25

fminF

Sweep 1.0 Mc to 17.2 Mc in 2 min ☐ Manual ☒ Automatic

K 10

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

Kokubunji Tokyo Lat. 35° 42.4' N Long. 139° 29.3' E

May. 1955 | fminE | 135° E Mean Time

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	1.4	1.4	1.6	E	E	1.4	2.1	2.1	1.5	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	1.5	1.6	1.4	1.4	1.5	1.4	1.4
2	1.4	1.4	1.0	E	E	1.4	2.1	1.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.4	1.5	1.4	1.4	1.4	1.5	1.5	1.4
3	1.4	1.4	1.0	E	1.0	1.4	1.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.5	1.4	1.4	1.4	1.5	1.4	1.5	1.5
4	1.4	1.4	1.2	E	E	E	1.4	1.5	2.0	2.1	2.1	2.1	2.1	2.1	1.9	2.1	1.4	1.5	1.4	1.4	E	1.6	1.6	1.4
5	1.4	1.4	E	1.5	E	1.4	1.5	1.4	1.7	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.4	1.4	1.4	1.4	1.2	1.4	1.3	1.4
6	1.3	1.4	E	1.4	E	1.3	1.5	1.4	1.5	1.5	2.1	2.1	2.1	2.1	2.1	1.5	1.5	1.5	1.4	1.4	1.3	1.4	1.4	1.4
7	1.5	1.3	1.0	E	E	1.3	1.5	1.4	1.5	1.5	2.1	2.1	2.1	2.1	1.6	2.1	1.4	1.5	1.4	1.5	1.5	1.5	1.4	1.5
8	1.2	1.3	E	E	E	1.4	1.4	1.4	2.1	2.0	2.1	2.1	3.3	2.0	2.2	2.1	1.5	1.4	1.4	1.4	1.5	1.4	1.5	1.4
9	1.5	1.4	1.0	1.0	1.2	1.4	1.4	1.4	1.5	1.5	2.1	1.5	2.1	[2.1]B	2.1	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
10	1.4	1.4	1.3	1.3	E	1.4	1.4	1.5	1.5	M	M	2.1	2.1	2.2	B	2.1	1.5	1.4	1.5	1.4	1.5	1.5	1.4	1.4
11	1.4	E	E	1.4	E	1.5	1.4	1.5	2.1	2.1	B	2.1	2.1	1.5	2.1	1.5	1.5	1.5	1.5	1.4	1.2	1.5	1.4	1.5
12	1.5	1.4	E	E	E	1.4	1.5	1.6	2.1	1.5	1.5	2.1	2.1	2.1	2.1	1.6	1.5	1.4	1.4	1.5	1.4	1.5	1.5	1.4
13	1.4	1.4	E	E	E	1.3	1.2	1.5	1.5	2.1	2.1	2.1	2.0	1.9	2.1	2.1	1.5	1.5	1.4	1.3	1.5	1.4	1.4	1.4
14	1.4	1.3	E	1.4	E	1.5	2.5	1.5	1.5	1.5	2.1	2.1	2.1	2.1	2.1	2.1	1.5	1.5	1.3	1.4	1.5	1.3	1.4	1.5
15	1.4	1.4	1.4	E	1.0	1.4	1.5	1.5	2.1	1.5	2.1	1.5	1.4	2.1	[2.1]B	2.1	1.4	1.5	1.4	1.4	1.3	1.5	1.4	1.5
16	1.5	1.4	E	E	E	1.3	1.4	1.5	1.5	1.6	[1.8]C	2.1	2.1	2.0	2.1	2.1	1.5	1.5	1.4	1.5	1.3	1.4	2.1	1.2
17	1.3	1.3	1.0	E	E	1.3	1.4	1.5	1.5	2.1	2.1	2.1	2.1	1.8	2.1	2.1	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.3
18	C	C	C	C	C	C	C	C	C	C	2.1	1.6	1.6	2.1	2.1	2.1	1.5	1.5	1.5	1.4	1.4	1.5	1.5	1.3
19	1.3	1.0	1.2	E	E	C	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	1.4	1.4	1.4	1.4	1.3	1.5	1.5
20	1.4	1.4	1.2	E	E	1.4	1.4	1.5	1.5	[1.8]C	2.1	2.1	2.1	1.9	2.1	2.1	1.5	1.5	1.5	1.4	1.4	1.5	1.5	1.4
21	1.5	1.4	1.3	E	E	1.4	1.4	1.5	2.1	1.5	2.0	1.4	1.9	2.1	2.1	1.8	1.5	1.4	1.5	1.4	1.4	1.4	1.5	1.2
22	1.3	1.1	1.3	1.4	1.3	1.5	1.2	1.5	2.0	1.6	2.0	2.0	2.0	2.0	2.1	2.1	1.5	1.4	1.5	1.4	1.3	1.5	1.4	1.5
23	1.4	1.4	1.4	1.4	E	1.5	1.4	1.4	2.1	1.6	1.7	1.4	2.1	2.1	2.1	1.7	2.1	1.5	1.4	1.5	1.4	1.4	1.5	1.5
24	1.3	1.4	E	E	E	1.4	1.4	1.5	1.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.4	1.5	1.4	1.4	1.5	1.4	1.4	1.5
25	1.4	1.4	E	1.4	E	1.3	1.4	1.4	1.5	2.1	2.1	2.1	2.0	1.5	2.1	2.0	1.5	1.5	1.4	1.4	1.4	1.2	1.5	1.4
26	1.4	1.4	E	E	E	1.3	1.4	1.5	1.2	1.5	2.1	2.1	1.8	1.6	1.6	1.5	1.4	1.5	1.4	1.4	1.5	1.4	1.4	1.4
27	1.4	1.0	E	1.4	E	1.4	1.4	1.5	1.5	1.3	1.5	1.5	2.1	1.0	2.0	2.1	2.1	1.4	1.5	1.4	1.4	1.4	1.4	1.4
28	1.1	1.5	E	E	E	1.4	1.5	1.5	1.5	2.1	2.1	2.1	1.5	2.1	2.1	2.1	1.5	2.1	1.4	1.4	1.4	1.4	1.4	1.4
29	1.4	1.4	1.5	E	E	1.4	1.3	1.5	1.5	2.1	1.4	1.6	2.1	C	C	2.1	[1.8]C	1.5	1.5	1.4	1.4	1.5	1.4	1.4
30	1.5	1.4	C	E	E	1.4	1.5	1.4	1.5	1.5	2.1	2.1	2.1	2.1	2.1	2.1	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4
31	1.4	1.3	E	E	E	1.4	1.4	1.4	1.4	1.5	2.1	2.1	2.0	2.1	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.5	1.3	1.4
Mean Value	1.4	1.3	1.2	1.4	1.1	1.4	1.5	1.5	1.7	1.8	2.0	2.0	2.1	2.0	2.0	2.0	1.6	1.5	1.4	1.4	1.4	1.4	1.5	1.4
Median Value	1.4	1.4	1.0	E	E	1.4	1.4	1.5	1.5	1.8	2.1	2.1	2.1	2.1	2.1	2.1	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4
Count	30	30	29	30	30	29	30	30	30	29	29	31	31	30	29	31	31	31	31	31	31	31	31	31

fminE

Sweep 1.0 Mc to 17.2 Mc in 2 min ☐ Manual ☒ Automatic

K 11

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

Kokubunji Tokyo Lat. 35° 42.4' N Long. 139° 29.3' E

May. 1955 | ypF2 | 135° E Mean Time

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	60	70	90	60	80^{P}	50	60	B	(50)^{P}	50	50	50	[60]^{A}	70^{P}	50	40	50	50^{P}	70	70	80	70	60	70
2	70	70	80	60	40^{F}	90	50	50	50	A	A	U	60	60	(80)^{J}	30	40	50^{P}	40	60	60	90	50	80
3	80	70	70^{F}	80^{ZF}	100^{F}	70	40	50	30	U	50	80	[60]^{A}	40^{P}	60^{P}	60	90	50^{P}	50	60	100	60	70	50
4	40^{F}	60	50	(50)^{JF}	50^{F}	70	(60)^{JP}	(20)^{J}	50	50	60	40	60^{P}	60	60	70	60	50	(40)^{J}	60	60	70	60^{P}	70
5	50^{F}	70^{F}	(50)^{JF}	60^{F}	90^{F}	50^{2}	(50)^{J}	60	50	50	80	70	50	50	50	40^{P}	60	80	(50)^{J}	(60)^{J}	60	70	60	A
6	A	70	70	50	[60]^{A}	60	60	50	[60]^{A}	60	70	A	60	70	(90)^{J}	50	70	80	50	50^{P}	100	70	60	50
7	60	60	60	(60)^{J}	90^{A}	A	A	A	A	A	A	60	[70]^{A}	80	60	50	50	40	A	A	A	60	[60]^{A}	50
8	50	70	70^{F}	60^{F}	60^{F}	60	80	[60]^{A}	50	[40]^{A}	40	40	50	40	50	70	(80)^{J}	50	A	(80)^{J}	60	A	A	A
9	A	A	90	(90)^{F}	70^{F}	70	50	70	U	U	A	A	U	A	30	[40]^{A}	60	[70]^{JF}	80^{P}	50^{P}	90^{P}	(50)^{JF}	[60]^{A}	(70)^{JF}
10	[80]^{A}	80	[60]^{AF}	50^{F}	50^{F}	80	50	50	A	M	M	A	U	U	U	70	70	90	70	90	70	(90)^{J}	70	60
11	[80]^{A}	90	50	60	70	40	60	80	A	30	30	40	A	U	40	60	(60)^{J}	40^{P}	50	60	[80]^{A}	90^{F}	A	A
12	A	(30)^{JF}	60^{F}	50^{F}	70^{F}	60	50	A	60	50^{P}	50	U	U	40	(50)^{J}	50	50	50^{P}	50^{P}	50	60	50	60	60
13	(50)^{J}	40	80^{F}	70	40	40	60	50	A	A	A	A	(40)^{J}	60	80	[60]^{A}	50	70	100^{P}	(50)^{J}	60	A	(70)^{F}	60
14	[50]^{A}	50	(70)^{JF}	80	50^{F}	70	A	80	A	A	A	A	60	[60]^{A}	50	40	70	A	A	A	(60)^{J}	(50)^{A}	A	50
15	70	60	50	60	(70)^{JF}	50	60	A	A	A	B	B	G	B	U	50	40	60	50	80	60	40	[60]^{A}	(80)^{F}
16	(70)^{JB}	70^{F}	70	50	F	50	40	40	30	A	U	B	B	70	50^{P}	40^{P}	40	50	60	A	A	70	70	70^{F}
17	[80]^{A}	80^{P}	90	50	60	70	50	30	40	A	A	U	U	B	40	60	60	60	A	A	80	70	60	70
18	C	C	C	C	C	C	C	C	C	C	A	A	U	B	B	60	60	70	60	60	50	[60]^{A}	70	80
19	(60)^{JFP}	70	(70)^{JF}	[80]^{A}	90^{F}	[80]^{C}	60	30	50	A	A	A	U	A	50	60	70	70	60	70	60	(50)^{JF}	[60]^{A}	60
20	70	70^{F}	60^{F}	70	60	70	50	40	40	C	A	A	U	30	50	50	50	40	(60)^{P}	A	A	50	70^{F}	A
21	A	A	A	50	(90)^{JB}	90	60^{H}	A	A	A	A	A	A	A	70^{P}	(80)^{J}	60	40	80	A	A	60	40^{P}	(70)^{J}
22	[60]^{A}	(40)^{JP}	(50)^{J}	(70)^{J}	50^{F}	80^{P}	60	70	A	A	A	A	A	30	[40]^{A}	60	50	50	50	80	70	70	60^{P}	A
23	A	A	A	(50)^{J}	A	70	(50)^{J}	A	A	A	A	A	A	A	70	50	[60]^{A}	60	60	80	40	50	70^{P}	(70)^{JF}
24	A	A	60	70^{P}	(50)^{J}	60^{H}	50	(50)^{P}	A	A	A	A	A	A	A	(50)^{J}	70^{P}	(60)^{J}	[60]^{A}	70	70	70	(70)^{J}	(70)^{J}
25	80	40	40	50	70	70^{H}	90	(60)^{J}	(60)^{J}	30	B	B	B	A	30	50	40^{P}	60	A	A	50	70	(40)^{JF}	60
26	A	B	B	A	60^{P}	A	A	A	A	A	A	40^{P}	[40]^{A}	50	[60]^{A}	(70)^{J}	60^{P}	[60]^{A}	60	50^{P}	A	A	(80)^{J}	80^{P}
27	60	A	A	B	(60)^{J}	120	(80)^{J}	40	A	A	A	A	A	40	(50)^{J}	[40]^{A}	40	60	80	80	90	40	30	(60)^{JB}
28	(50)^{J}	50	(60)^{J}	(60)^{J}	60	(60)^{J}	A	A	30	40	A	60	(40)^{J}	A	A	A	50	(70)^{J}	(80)^{J}	50^{P}	70	80	A	A
29	(80)^{P}	(40)^{J}	(60)^{J}	90	(70)^{J}	50	70	A	A	A	A	A	B	C	C	C	C	A	(60)^{J}	60	70	(80)^{JF}	(60)^{J}	60
30	C	50	[60]^{C}	70	70	90	60	50	70	30	[40]^{A}	40	A	A	50	A	A	80	80	[70]^{A}	(60)^{P}	A	A	A
31	A	70	(50)^{JF}	(70)^{F}	50	(50)^{J}	30	60	A	A	B	B	A	U	80	60	80	60	80	70^{P}	(50)^{J}	50	60^{P}	[80]^{A}
Mean Value	60	60	60	60	70	70	60	50	50	40	50	50	50	50	60	50	60	60	60	70	70	60	60	70
Median Value	60	70	60	60	60	70	60	50	50	40	50	40	60	60	50	50	60	60	60	60	60	70	60	70
Count	21	24	26	28	28	28	26	21	15	10	9	10	12	16	25	28	29	29	26	24	26	27	26	24

ypF2 | Sweep 1.0 Mc to 17.2 Mc in 2 min | ☐ Manual ☒ Automatic

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

May. 1955 | foF2 | Yamagawa | Lat. 31° 12.5' N | Long. 130° 37.7' E

135° E Mean Time

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	4.9	5.1	5.0	4.2	4.0	3.8F	5.9	6.8	6.5	6.0	5.9	6.3	8.0	9.8	10.6	11.6	12.4	11.5	8.4	6.8	5.1	4.5	4.6	4.6
2	4.4	5.0F	[4.6]$^{F}_{S}$	4.3	3.5^{X}	2.8	4.7	5.8	6.3	[5.9]^{A}	5.5	5.9	7.3	8.1	(9.4)^{P}	10.5^{J}	11.0	10.5	9.4	8.3	6.7	5.7	C	F
3	F	4.4	3.8	3.3F	3.9	2.9F	4.3	5.2	5.0	5.9	6.2	6.5	7.8	8.8	9.4	10.1	11.2	11.1	10.0	8.0	6.5	5.4	4.5	A
4	F	F	F	F	F	F	5.2	6.0	5.5$^{V}_{H}$	5.6	5.4	6.6	8.4	7.7	7.5	8.2	8.8	9.5	9.9^{J}	8.8	7.3	5.9	5.2^{J}	5.3
5	5.1^{V}	FS	FS	FS	FS	3.3F	4.7	6.5	6.9	6.7	6.7	7.9	8.9	8.8	8.8	10.1	10.9	10.3^{J}	8.0	7.5	6.9	5.9	5.2^{S}	4.7
6	FS	A	FS	FS	4.3^{J}	3.4$^{F}_{E}$	[4.6]^{C}	5.9	7.2	7.2	7.5	8.5	9.2	10.5	10.9	10.1	8.4	7.2	7.8	8.9	7.4	7.0	F	F
7	F	F	8.8F	F	5.4F	5.0$^{V}_{F}$	5.0	6.0	A	A	A	7.5	[7.9]^{A}	8.3	7.3	7.9	7.4	8.5	8.5	7.9	[6.6]^{A}	5.4^{X}	6.3F	A
8	F	A	F	F	3.9F	3.3F	4.7	5.9	7.5	5.9	A	A	7.5	7.8	7.9	8.0	9.0	10.8	11.4	12.0	6.3	[5.4]^{A}	4.4^{V}	4.1
9	A	A	F	A	A	F	5.9	A	A	A	A	6.4	5.9	C	C	7.5	7.8	C	C	10.0	7.3	5.6	5.1	5.5$^{J}_{F}$
10	5.3^{V}	4.7F	[4.4]^{A}	4.0P	3.9$^{J}_{F}$	3.9$^{J}_{F}$	5.4	6.4	6.5	[6.2]^{A}	5.8^{H}	5.9	5.6	6.1	6.7	7.5	8.0	8.4	8.1	7.8	7.8	7.1	5.6	5.2^{V}
11	5.6$^{J}_{F}$	5.7F	F	F	5.2$^{J}_{F}$	5.3F	5.9	5.8	6.0	6.4	5.6	5.2	6.1	6.6	8.3	8.6	8.6	8.5	9.7	8.5	A	A	A	F
12	4.6	F	F	F	F	3.4F	4.9	5.9	A	A	5.3	A	A	A	8.5	9.5	8.5	8.9	10.5	11.1	7.0	4.6	3.9	3.9
13	FS	FS	FS	FS	3.9F	3.8	5.1	5.7	5.7	5.2	[5.2]^{A}	5.2	6.3	7.9	8.4	8.2	8.5	8.2	7.7	A	A	A	5.8$^{J}_{F}$	A
14	FS	F	F	F	4.2$^{J}_{F}$	3.8	5.8	6.2	5.8	5.7	A	A	9.1	10.0	10.0	9.8	8.6	8.8	9.0	9.0	7.0	5.9$^{J}_{S}$	A	A
15	A	A	FSH	FS	A	A	5.6	6.1	5.8	A	A	A	5.4	5.9	6.2	6.9	7.5	6.4	5.6	5.8	6.4^{J}	[5.1]$^{A}_{S}$	3.8	3.8^{S}
16	AS	AS	AS	AS	3.1$^{J}_{S}$	3.2$^{J}_{S}$	4.3	5.0	5.3	[5.4]^{A}	5.6	5.4	5.9	7.0	8.3	10.6	9.5	6.4	5.9	6.1	5.7	5.1	5.2	5.4
17	5.3	[5.3]F	5.3$^{J}_{F}$	4.4	3.9	3.9^{V}	5.1	6.1	5.8	5.5	5.5	5.8	6.3	6.1^{J}	6.6	7.9	8.9	7.9	8.4	8.7	6.0	4.0	3.9	3.9
18	3.8	3.8	3.7	[3.7]^{A}	3.7$^{J}_{F}$	3.6	5.4	7.0	[6.0]^{A}	5.0	5.4	5.6	5.5	6.0^{J}	[6.7]^{A}	7.4	7.9	8.3	8.9	9.9	A	6.0	6.0	5.9
19	5.3	5.0^{J}	5.0	A	A	3.9	5.9	6.8	C	C	C	C	C	C	C	C	C	C	6.6	6.4	6.7	A	A	5.5
20	[5.4]$^{F}_{S}$	5.3	5.4$^{F}_{S}$	4.9$^{J}_{F}$	F	F	5.3	6.5	A	A	C	A	7.3	8.5	9.5	10.3	10.4	9.5	8.9	9.0	8.5	6.4	5.1	4.9
21	FS	FS	A	A	FS	4.6$^{J}_{F}$	6.2	A	M	5.2	6.0	6.5	6.9	7.3	8.8	10.4	10.1	9.0	9.0	8.5	7.3	6.6^{H}	A	A
22	A	F	A	F	F	F	5.6	5.9	5.7	[6.0]^{A}	6.3	7.7	8.4	8.5	8.9	9.6	10.5	10.3	10.0	8.9	7.2	(7.0)$^{J}_{P}$	6.9	6.0
23	F	F	5.9$^{J}_{F}$	5.6^{H}F	[4.7]F	3.8F	5.6	7.2	A	A	A	6.4	6.3	6.8	7.3	7.9	8.7	9.4	8.5	7.6	7.3	6.3	6.2	F
24	F	5.4F	[4.7]F	4.0	[4.0]F	4.0F	6.0	7.0	5.8	[5.8]^{A}	5.9^{H}	5.5	A	A	9.6	9.5	9.3	9.5	9.2	7.1	6.5	7.0^{X}	5.4^{X}	5.6
25	6.4$^{J}_{F}$	[5.9]F	5.4F	F	F	5.0$^{J}_{E}$	6.1	7.6	6.6	5.5	5.4	5.9	6.2	8.0	9.7	9.1	7.9	A	7.3	7.7	7.4	6.6	7.0	7.0^{S}
26	7.0	5.9^{J}	6.0^{J}	4.9^{J}	4.8F	4.6	5.0	6.1	7.3	6.2	[6.6]^{A}	7.0	7.2	7.3	9.3	10.4	8.9	7.9	8.7	8.8	7.2	[7.1]^{A}	7.0	7.0
27	6.6	6.1	6.0	[6.8]^{A}	7.5	5.3	5.8	5.3	5.5	6.5	6.4	5.9	6.8	8.4	10.2	11.5	12.4	9.5	6.9	5.9	6.1^{H}	6.0^{V}	5.9^{H}	6.1^{F}
28	6.4	6.4$^{JP}_{F}$	6.9	[6.0]^{A}	5.0F	4.9F	5.4	7.2	6.4	6.0	6.9	[7.4]^{A}	7.8	8.7	9.1	9.8	10.5	10.1	(9.6)^{P}	[8.1]^{A}	6.6	6.7	7.1^{S}	FS
29	FS	6.6^{S}	FS	FS	6.4$^{JS}_{F}$	6.0$^{JF}_{S}$	5.1^{V}	A	A	A	A	6.5	6.2	7.4	8.7	A	A	A	A	8.4	7.0	A	A	FS
30	FS	FS	FS	4.4	4.5$^{J}_{F}$	4.4$^{J}_{F}$	5.3	6.5	A	A	A	A	6.5	6.7	7.0	7.2	8.1	[8.2]^{A}	8.3	9.0	7.6	7.0	6.9	7.2
31	F	F	F	F	F	F	5.0	5.5	6.9	A	A	A	6.1	7.2	7.5	7.6	[7.9]^{A}	8.2	8.5	8.9^{H}	9.4	7.7	6.9$^{J}_{E}$	F
Mean Value	5.4	5.4	5.4	4.7	4.5	4.1	5.3	6.2	6.2	5.9	6.0	6.4	7.0	7.8	8.5	9.1	9.2	9.0	8.6	8.3	7.0	6.0	5.6	5.3
Median Value	5.3	5.3	5.3	4.4	4.1	3.9	5.3	6.1	6.0	5.9	5.8	6.4	6.8	7.8	8.7	9.5	8.8	8.9	8.5	8.4	7.0	6.0	5.5	5.4
Count	14	15	15	13	20	25	31	28	22	21	20	23	28	27	29	29	29	27	29	30	28	27	24	19

foF2

Sweep 1.0 Mc to 22.0 Mc in 1 min ☐ Manual ☒ Automatic

Y 1

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

May. 1955 | **h'F2** | 135° E Mean Time | **Yamagawa** | Lat. 31° 12.5' N | Long. 130° 37.7' E

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	310	290	270	260	260	300	240	240	240	280A	300	350	360	330	300	300	280	240A	250	220A	250	310	340	300A
2	340	320	300F	270	220	250	230	240	250A	A	A	(450)A	360	340	330	300	280	260	250	240	240	300A	[300]C	310
3	320	300	280	350AF	250	300	220	250	(250)A	(380)A	330	400	360	330	320	310	290	260	250	240	250	240	290	[320]A
4	340	340AF	300	390F	300F	290F	220A	240	250H	310	320	370	310	300	340	340	300	290	250	240	240A	250	260	280
5	300	340F	310	240	220AF	[240]A	250	270	280	320	360	340	330	330	340	330	280	270	240A	260	250	270	320	300
6	310	[290]A	270	300F	250	250	[260]C	270	280	280	320	390	390	330	300	280	270	[280]A	290	250	240A	290	330F	300F
7	320F	360F	250	270F	[280]A	290	300	290	A	A	A	380	[350]A	320	330	310	350	310	270	250	[320]A	390	290	[290]A
8	290	[290]A	290F	250	250F	270	270	270	270	290	A	A	350	300	350	380	390	330	270	240A	A	A	340	390A
9	A	A	300	A	A	290AF	240A	A	A	A	A	340	410	C	C	320	340A	C	C	250	230A	260	300	300
10	310F	300	A	A	290	310	260	280	A	A	330H	340	430	380	360	350	320	290	290	270	250	250	230A	290
11	300	300	320A	300A	300F	250	240A	250	290	290	400	400	370	380	310A	300	300	290	280	250A	A	A	A	360
12	320A	310F	300F	300	300	250	240	260	A	A	300	A	A	A	340	300	340	320	290	250	230	240	300	340A
13	330	280F	290	290F	240	250	240	240A	250	300A	[400]A	500	390	310	310	310	290	290	290	A	A	A	310F	[300]A
14	300F	300AF	290F	270	330	300	290	240A	280	340	A	A	(370)A	300	310A	300	320	300	280	250	230A	300	A	A
15	A	A	250H	250	A	A	250	250	400	A	A	A	460	400	350	340	290	A	A	(300)A	250	[280]AS	300	370
16	A	A	A	240	290	300	250	250	290	[330]A	370A	470	430	430	380	300	250	270	270	250	250	300	320	320
17	300	310	280	270A	290	300	250	250	260	350	350	420	340	400	380	330	290	300	290	230A	210A	(260)A	390	370
18	340A	340A	300	[300]A	300	300A	(280)A	240	A	L	A	350	400	380	[360]A	(340)A	310	300	300A	260	[300]A	350A	[340]A	(330)A
19	320	290	300	A	A	290	270	250A	C	C	C	C	C	C	C	C	C	C	290	250	260	A	A	A
20	330A	320A	310A	270F	260F	260	250A	250A	A	A	C	A	(390)A	350	350	310	300	290	270	260	250	250	330A	330
21	340A	300F	A	A	A	270	250	A	A	300	350	350	340	400	360	320	300	290	290	260	270	300H	A	A
22	A	290F	280	280F	290F	250F	A	A	A	A	400	340	[340]A	(340)A	360A	350	300	290	270	250	280	260	250	340
23	250	310	260	240H	250	280	290	240	A	A	A	360	380	360	360	350	350A	290	260	250	240	(300)A	300	310
24	340A	290	310	300	320A	290	250	240	250A	[350]A	450H	A	A	A	340	300	320	290	260	240	270	270A	270A	[300]A
25	340A	250	250	330A	290	280	280A	240	[260]A	290	420	410	450	380	320	290	320	[310]A	300	260	270A	280	320	280
26	330A	290	270	290	250	240	240	290	270	290	A	A	A	440	350	300	290	330	300	270	300	[300]A	300	340
27	320	(390)A	400F	[320]A	250	(250)A	230	240	310	330	310	420	430	370	340	300	280	250	250	290	290H	300	320H	340
28	[340]A	330A	290	[290]A	290	260	(300)A	250	A	(380)A	290	A	A	370	[380]A	(380)A	310	290	A	A	A	320A	330A	320
29	300	340A	230A	(250)AF	300F	250	A	A	A	A	A	370	390	370	340	A	A	A	A	250A	320	A	A	330A
30	300A	270	250	300A	300A	310A	260	290	A	A	A	A	350	330	360	340	340	A	A	290A	260	300	250	330A
31	320	340F	300	270	250	260	250	340	(300)A	A	A	A	430	350	320	340	[320]A	310	290	300H	270	250	300	300
Mean Value	320	310	290	280	270	270	260	260	280	320	350	390	380	360	340	320	310	290	270	260	260	280	310	320
Median Value	320	300	290	280	290	280	250	250	270	310	350	380	380	350	340	310	300	290	280	250	250	280	300	320
Count	27	28	28	27	27	30	29	27	18	17	17	20	26	27	29	29	29	26	26	29	27	26	26	28

h'F2

Sweep 1.0 Mc to 22.0 Mc in 1 min ☐ Manual ☒ Automatic

Y 2

The Radio Research Laboratories
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

May. 1955 | fEs | 135° E Mean Time | Yamagawa | Lat. 31° 12.5' N | Long. 130° 37.7' E

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	3.8	2.3	3.7	2.3	2.4	E	3.5	3.8	4.8	5.8	5.6	6.7	5.0	5.7	5.8	5.0	5.8	6.8	9.0	4.3	7.0	6.1	6.6	3.8
2	3.8	3.8	3.7	3.1	2.1	2.3	G	3.7	5.9	6.6	6.2	6.2	5.7	5.0	5.6	8.7	5.8	5.9	6.2	3.8	3.7	6.5	C	6.7
3	8.5F	5.9	12.2	5.9Y	5.7Y	3.0	2.3	6.4	5.9	6.1	6.1	7.2	5.9	4.8	G	5.9	4.2	5.9	6.4	3.2	3.0	3.1Y	5.8	5.9
4	5.8	3.4	3.5	5.8	5.8F	3.3	4.8	G	3.6	5.9	5.9	6.2	7.8	5.9	5.7Y	4.6Y	4.0	3.4	5.9F	3.4F	5.6	3.5	E	E
5	E	3.3	3.2	3.5	3.1	3.4	4.9Y	6.4	5.7	9.0Y	6.0	5.9	5.9	G	G	4.9	4.8	3.8	5.9	4.7	4.2	4.7	3.9	5.0
6	5.9	9.0	5.8	3.2	3.4	3.0	C	3.8F	4.8	5.7	6.0	6.5	6.4	9.0F	5.0	5.9	6.2	8.5	3.2	2.9	4.3	6.5	E	5.8F
7	5.8F	5.3	3.2	3.0	6.9	4.4	5.9	7.2	7.3	8.9	14.0	12.2	10.1	G	G	G	5.9Y	5.9	3.4	4.9	9.2	5.9	5.9F	7.5
8	5.9F	9.0	3.8F	3.0	3.6F	2.4	3.7	3.8	5.8	7.0	9.0	9.5	6.1	7.0	9.5	6.8	5.5	5.8Y	5.8	5.9	7.0	8.8	3.5	6.8
9	6.6	6.8	5.9	5.9	5.9	5.9	8.6	12.2	12.7	15.5	13.5	6.3	6.2	C	C	6.3	7.1	C	C	9.0	5.9	3.8	6.8	5.8
10	8.6Y	5.8	6.0	6.0	2.3	2.4	3.8	6.0	7.0	13.5	9.6F	5.9	5.8	5.7	5.9	5.7	6.9	4.6	4.6	9.0F	5.8F	5.6	3.8	2.3
11	5.9	6.8	3.7F	4.0	3.2	6.8	5.8	4.6	5.3	5.9	5.8	8.9	12.3	9.3	8.0	6.5	4.7	5.4	6.6	7.0	11.6	9.5F	6.0	6.0
12	7.0	3.8	6.0	7.1	4.9	5.9	3.4	4.5	13.0	15.5	13.5	13.5	13.1	12.2	13.1	8.7	3.8	G	5.8	6.5	5.8	3.0	9.0F	8.6
13	5.6	2.8	3.0	3.8	3.0	3.8	3.2	5.0	4.8	5.3	12.0	6.0	5.7Y	6.2	4.8	6.5	5.8	6.8	6.4	8.9	8.1	9.0	3.3	9.0
14	11.5	6.8	3.5F	2.3	4.4	5.5	4.2	6.5	15.7F	12.5	12.2	12.5	12.8	8.7	11.5	9.5F	4.5	5.8	4.9	3.8	3.8	5.0	6.6	7.1
15	13.0	7.0	2.3	5.7	6.5	6.5	3.1	4.8	5.7F	6.5	6.9	8.5	14.6	7.7	5.7	6.5	6.1	6.6	5.7	4.9	3.6	6.5	3.2	3.8
16	8.9	5.7	8.9	5.7	4.6	5.7	5.7F	5.7F	5.8	6.5	6.1	5.9	5.9	5.8	5.9	3.8	5.8	5.6	3.6	3.3	3.1	2.3	2.3	3.0
17	5.5	5.9F	7.1	6.5	3.7	3.7	3.2	3.8	6.1Y	5.8	5.9	5.8	6.0Y	4.6Y	5.6	5.7	5.1	5.9	4.5	3.8	2.5	3.1	5.7	3.8
18	3.8	3.8	4.2	5.9	3.8	3.8	4.5	5.1	6.9	5.9	6.5	5.3	6.6	5.8	8.7	7.1	6.2	7.3	7.1	6.9	7.9	7.5	6.5	5.0
19	6.6	4.9	8.9	8.9	7.0	6.4	5.0	5.6	C	C	C	C	C	C	C	C	C	C	3.8	3.3	4.7	7.8	7.0	8.9
20	6.5	5.9	8.9	6.5	3.3F	2.3F	4.2	5.8	10.5	12.0	C	13.6	12.1	6.8	7.3	7.0	12.6	16.0	5.8	4.3	4.3	5.9	5.9	3.9
21	8.9	8.9	8.9	8.9Y	8.9F	3.8	4.4	9.5	5.8<	8.0	5.0	G	5.7	5.7	6.9	5.9	5.1	5.4	7.0	6.3	5.9	8.5	6.5	12.2F
22	12.0F	13.0F	13.0	6.0	3.0	2.4	6.0	8.0	14.0	8.3	6.1	6.9	8.5	8.0	10.0	8.4	6.7	9.7	5.5	3.8	4.6	3.8	3.1	9.0F
23	6.0	6.2	3.1	2.9	3.1	2.4	3.0	6.4	6.5	6.5	7.0	6.7	5.3	5.8	5.7	7.5	8.8	7.1	3.8	2.7	2.8	5.5	5.9	7.2
24	9.5	5.9	5.9	6.3	5.9	3.5	3.5	5.7	6.0	9.6	6.0	8.4	8.5	20.7Y	9.5Y	5.3	G	G	G	2.4	5.9Y	6.6	6.5F	13.1
25	6.5	3.6	2.6	3.8	2.7	2.3	5.9	4.9	8.1	6.0	7.0	5.8	5.9	8.9	9.8	3.8	6.1	7.0	5.9	7.2	9.0	7.3	4.6	3.2
26	7.2	E	E	3.1	3.8	2.9	B	3.2	3.8	5.8	12.2	9.5	7.4	G	G	4.8	G	G	6.0	3.8	4.3	7.2	2.5	6.4
27	5.8	7.0	8.9Y	6.9	6.2	8.9	4.1	3.8	3.8	3.8	5.0	G	6.6	6.4	G	7.0	6.2	G	4.7	3.5	9.5F	8.9	3.0	3.8
28	8.9	3.7F	7.5	7.2	6.3F	3.6F	5.8	5.8	7.0	8.9	5.6	13.5	8.5	10.0	14.0	16.2	3.8	3.8	8.6	12.2	9.1	7.2	7.1	9.1
29	5.8	8.9	12.5	13.1	6.5	4.3	6.0	8.9	8.5	13.5	13.5	6.5	6.0	6.2	G	11.1	10.5	13.0F	12.5	6.5	11.5	15.5	7.0	5.8
30	7.3	6.5	7.0	6.5	5.9	4.9	4.2	6.0	7.1	10.6	8.9	7.4	6.4	6.2	5.9	5.3	9.6	13.4	10.5	7.2	6.8	5.8	3.6	9.9
31	5.8	8.7	6.3	6.6	2.3F	3.8	3.4	4.4	9.2	8.9	9.2	12.2	12.2	15.4	5.4	5.9	9.7	7.2	3.8	5.8	7.0	7.1	5.9	5.9
Mean Value	7.1	6.0	6.1	5.5	4.5	4.1	4.5	5.7	7.3	8.3	8.2	8.2	7.8	7.8	7.6	6.8	6.3	7.1	6.0	5.3	6.0	6.4	5.3	6.5
Median Value	6.5	5.9	5.9	5.9	3.8	3.7	4.2	5.6	6.1	6.8	6.5	6.7	6.4	6.2	5.8	6.1	5.8	5.9	5.8	4.7	5.8	6.5	5.8	5.9
Count	31	31	31	31	31	31	29	31	29	30	29	30	30	29	29	30	30	29	30	31	31	31	30	31

fEs | Sweep 1.0 Mc to 22.0 Mc in 1 min | ☐ Manual ☒ Automatic | Y 3

SOLAR RADIO EMISSION

MAY, 1955

Observing Station: HIRAISO, Frequency: 200 Mc/s.

Flux in 10^{-22} w.m.$^{-2}$(c/s)$^{-1}$, two polarizations, Time in U.T.

Daily Data

Date	Steady Flux		
	00-03	03-06	Daily Averages
1	5	5	5
2	9	7	8
3	8	10	10
4	5	6	5
5	7	7	7
6	5	4	5
7	6	6	6
8	5	5	5
9	5	5	5
10	5	6	5
11	6	5	4
12	5	4	4
13	6	6	6
14	5	5	5
15	4	4	4
16	5	5	5
17	5	5	5
18	6	5	5
19	6	5	6
20	5	5	5
21	6	5	6
22	8	7	7
23	5	6	6
24	-	(7)	-
25	5	5	5
26	5	7	6
27	6	7	6
28	7	5	6
29	5	5	5
30	5	4	5
31	5	5	5

Outstanding Occurrences

Bursts were occasionally observed from 20th to 23rd.

Date	Starting Time	Duration	Type	Peak Flux	Time
20	0103-00^{s}	1^{m}00^{s}	CD	220	0103-00^{s}...1st peak
				92	0103-30^{s}...2nd peak
	0206-50^{s}	30^{s}	SD	390	0207-00^{s}
	0310-20^{s}	1^{m}50^{s}	CD	640	0310-30^{s}...1st peak
				130	0311-10^{s}...2nd peak
	0653-50^{s}	1^{m}00^{s}	CD	65	0654-00^{s}...1st peak
				370	0654-10^{s}...2nd peak
	0803-00^{s}	2^{m}00^{s}	CD	220	0803-10^{s}...1st peak
				570	0803-20^{s}...2nd peak
				480	0804-00^{s}...3rd peak
	2042-30^{s}	30^{s}	SD	460	2042-40^{s}
	2108-40^{s}	40^{s}	SD	690	2108-20^{s}
	2132-10^{s}	30^{s}	SD	280	2132-20^{s}
21	0340-10^{s}	40^{s}	SD	270	0340-20^{s}
	0341-20^{s}	20^{s}	SD	200	0341-30^{s}
	2014-20^{s}	20^{s}	SD	290	2014-30^{s}
	2035-50^{s}	20^{s}	SD	240	2036-00^{s}
	2045-50^{s}	30^{s}	SD	130	2046-00^{s}
	2227-00^{s}	1^{m}30^{s}	SD	290	2227-30^{s}
	2347-20^{s}	40^{s}	SD	720	2347-30^{s}
22	0330-00^{s}	30^{s}	SD	500	0330-40^{s}
	2020-40^{s}	10^{s}	SD	170	-
	2100-00^{s}	1^{m}00^{s}	CD	260	2100-10^{s}...1st peak
				340	2100-20^{s}...2nd peak
	2101-10^{s}	50^{s}	CD	180	2101-20^{s}...1st peak
				210	2101-30^{s}...2nd peak
23	0343-00^{s}	2^{m}00^{s}	CD	540	0343-10^{s}...1st peak
				570	0343-30^{s}...2nd peak
	0410-20^{s}	instant	SD	300	-
	0428-00^{s}	1^{m}00^{s}	SD	370	0428-20^{s}
	0448-30^{s}	instant	SD	240	-
25	0228-00^{s}	1^{m}30^{s}	SD	210	0228-50^{s}

IONOSPHERIC DATA IN JAPAN FOR MAY 1955

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