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IONOSPHERIC DATA IN JAPAN

FOR FEBRUARY 1956

Vol. 8 No. 2

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Prepared by

THE RADIO RESEARCH LABORATORIES

KOKUBUNJI, TOKYO, JAPAN

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KOKUBUNJI, TOKYO, JAPAN

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P R E F A C E

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 Research 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 provides 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

IONOSPHERIC DATA

Wakkanai

Lat. 45° 28.8' N
Long. 141° 41.1' E

foF2

Feb. 1956

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	3.7	3.7	3.8	3.5	3.5	3.1	2.7	4.5	9.3 ^J	6.5	8.6	9.5	10.0	8.6 ^F	8.2	7.2	6.7	6.8	5.2	4.3	4.1	4.0	4.2	4.1	
2	4.2	4.0	4.0	3.8 ^F	3.8	3.2 ^F	2.5 ^F	5.0 ^J	(8.8) ^F	9.2 ^J	12.5	9.6	9.8 ^J	9.2	8.0	7.6	7.3 ^J	6.2	4.3	(3.4) ^F	3.5	3.6	3.3 ^F	3.4	
3	3.5	3.5	3.5	3.3	3.0	3.0	2.8	5.6	7.0	7.2	8.3	(8.8) ^F	8.7 ^J	8.0	8.1	8.6	6.5	5.8	5.7	3.7	2.6	2.8	3.2	3.1	
4	3.0 ^F	3.4	3.2 ^F	3.3 ^F	3.2	3.0 ^F	3.0 ^F	5.3	7.0	8.3 ^J	8.5	9.3 ^J	8.4	8.5	8.1	8.2	6.8	6.0	4.8	4.5	3.5	3.5 ^J	3.5	3.6	
5	3.5 ^F	3.4	3.5	3.3	2.9	2.8	2.8	5.3	7.0	7.6	9.2 ^J	10.0	8.0	8.7	8.0	8.0	6.7	5.3	5.6	4.3	3.1	3.3	3.5	3.5	
6	3.7 ^F	3.9	3.7	3.7	3.6	3.6	2.7	5.3	6.5	7.6	8.7 ^J	8.8	8.0 ^H	9.0	7.9	7.3 ^J	6.8	5.3 ^F	5.4 ^J	(5.0) ^F	3.2	3.3	3.3	3.5	
7	3.5	3.6	3.8	3.8	4.0	4.0	3.0	5.0 ^F	6.7	7.4	9.0 ^J	8.8 ^J	10.5 ^J	9.8 ^J	8.7	7.7	6.7	5.3 ^J	5.0 ^J	4.0	2.8	2.8 ^F	F	F	
8	F	F	(3.6) ^F	(3.7) ^F	(3.6) ^F	(3.5) ^F	3.3 ^F	5.3	7.5	9.2 ^J	9.8 ^J	8.7	9.0 ^F	8.2	8.5 ^F	6.8 ^H	6.7	5.3	5.3 ^J	5.7 ^J	3.7	3.5	2.3 ^F	3.4	
9	3.7	3.8	4.0	4.0	3.7	3.5 ^F	3.5 ^F	3.6	7.0	7.5 ^F	8.5	9.3 ^J	9.0	8.5	8.3	8.1	7.7	4.5	5.0	4.6	3.5	3.3 ^F	3.6	3.8	
10	4.0 ^F	4.0 ^F	4.0 ^F	4.0 ^F	4.1 ^F	3.5 ^F	2.7	5.3 ^J	6.7	7.8	9.5	10.6	10.7	8.6	8.5	7.8	8.0	5.3 ^J	4.7	4.4	3.2	2.8	(3.0) ^F	3.2 ^F	
11	3.3 ^F	3.3 ^F	3.3 ^F	3.4	3.5 ^F	3.4 ^F	3.8	6.0	6.5	C	C	C	C	9.5	8.6	(8.7) ^F	8.2	(6.8) ^F	5.5	(5.2) ^F	5.0	(5.2) ^F	5.3 ^J	C	
12	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	5.5 ^F
13	6.0	4.8	4.0	4.1	3.6 ^F	3.5	3.6	6.5	9.7	9.2	10.1	10.6	10.7	10.2	9.3 ^J	B	B	6.9	5.7	5.3 ^J	4.1	3.7	3.4	3.5	
14	(3.6) ^F	3.6	3.6	3.5	3.5	3.3	3.1	5.8	8.0 ^F	8.6 ^F	9.9 ^J	11.6	10.0	10.2	9.0	(8.8) ^F	7.7	6.7	5.7	5.2 ^J	5.0	(5.1) ^F	(4.6) ^F	5.0	
15	F ₁	F ₁	F ₁	5.0 ^F	5.0	4.5	4.8	7.0	8.3 ^J	8.5	9.4	9.8 ^J	10.0 ^J	10.5	9.5	10.0	8.0	7.4	6.0	5.2	4.3	4.1	4.2	4.4	
16	4.5	4.3 ^J	4.3 ^P	4.5	4.8	4.4	4.3	6.5	8.0 ^J	8.6	8.6	11.6	11.0	10.5	10.3 ^J	9.5	9.0 ^J	7.0	7.0	5.0 ^J	4.3	4.5	4.5	4.5	
17	4.6	4.6	5.0	4.4	3.9	3.8	4.1	7.0	10.3	9.8 ^J	11.4	12.5	12.5	11.2	10.8	10.0	9.5	8.0	6.3	5.8	5.0 ^J	4.7	4.5	4.4	
18	4.7	4.9	4.6	4.5	4.3	4.0	4.3	7.0	8.7	9.9	10.5	11.0	11.5	11.3 ^J	10.2	10.0	8.6	7.5 ^J	6.4	6.4	5.3 ^J	4.3	4.3	4.5	
19	4.5	4.4	4.4	4.3	4.4	4.3	4.5	7.0 ^J	9.0	9.3 ^J	10.5	11.0	11.0	9.8 ^J	10.5	10.0	9.3 ^J	9.0	7.0	6.2	5.3 ^J	4.0	4.3	4.2	
20	4.5	4.5	4.5	3.9	3.7	3.6	3.8	7.3 ^J	10.5	11.0	10.7	11.8	12.5	11.0	10.0	9.8	8.2	8.0	6.7	5.7	4.8	4.5	4.3	4.2	
21	4.0	4.1 ^J	4.3	4.5	3.5	3.3	4.0	7.6	10.5 ^J	11.4	12.0	12.3	11.4	10.7 ^J	10.3	10.0	10.3 ^J	7.3 ^F	7.0 ^J	5.8 ^J	5.5	4.8 ^F	5.0 ^F	5.0 ^F	
22	4.9	4.5 ^F	4.8	4.8 ^F	4.7	4.7	4.8 ^F	7.9 ^F	9.5 ^F	10.3	11.6	11.5	12.0	12.0	10.7	10.8	10.6	10.0 ^F	(8.0) ^F	6.2	6.3	6.0	5.8	5.3	
23	5.3	5.3 ^J	5.3 ^J	5.7	5.3 ^J	4.5	4.8	7.8	9.8 ^F	11.0	12.5	13.0 ^F	12.7 ^F	(12.4) ^F	12.0	11.6	11.0	10.2 ^F	8.0 ^F	6.0	5.3 ^J	5.3 ^J	4.8	(4.9) ^F	
24	5.0	5.3 ^F	4.8	4.8 ^F	4.7	4.4 ^F	5.0 ^F	7.5 ^F	8.5 ^F	10.8	12.6	12.0	12.0	12.0	11.5	10.3	10.3	10.0	6.5	5.5	5.3	5.3 ^F	5.3 ^F	5.3 ^F	
25	5.2	5.5	5.3 ^J	4.6	4.3	4.3	4.8	9.0	10.0 ^J	9.5	10.3	10.7	10.8	11.5	9.8	9.2	9.5	9.0	9.5	6.0	6.0	4.7	4.5	5.3 ^J	
26	5.0	5.5	6.0 ^F	F	F	F	4.4	7.3 ^J	8.9	C	C	C	C	C	C	C	C	10.2	8.0	5.8	5.3 ^J	5.3 ^J	5.0 ^J	5.0	
27	4.8	5.0 ^J	4.8	4.3	3.5 ^F	3.4 ^F	3.7	6.5	9.8 ^J	10.7 ^J	12.3	11.5	11.0	10.3	10.0	10.0	9.8 ^J	7.7	6.5	6.1	5.7	(5.5) ^F	5.3 ^J	5.0	
28	5.0	5.0	4.7 ^F	4.8	4.7	3.8	4.5 ^F	7.3 ^J	9.5 ^J	11.0 ^J	10.7 ^F	11.3	C	C	C	9.3 ^J	8.8 ^J	C	C	5.3 ^J	5.3 ^J	(5.2) ^F	5.0	5.3 ^J	
29	5.2 ^F	4.8	4.2 ^F	3.8 ^J	(3.8) ^F	(4.3) ^F	6.0	8.3 ^J	8.7	C	C	10.8	12.3	12.5	10.7	10.0	9.9 ^J	9.5	7.0	5.0 ^J	5.0 ^J	4.8 ^F	F	F	
30																									
31																									
Mean Value	4.3	4.3	4.3	4.1	3.9	3.7	3.6	6.4	8.5	9.1	10.1	10.6	10.6	10.1	9.5	9.1	8.4	7.4	6.2	5.2	4.5	4.3	4.3	4.3	
Median Value	4.5	4.4	4.2	4.0	3.8	3.6	3.8	6.5	8.7	9.2	10.0	10.6	10.7	10.2	9.4	9.4	8.4	7.4	6.0	5.2	4.9	4.4	4.3	4.4	
Count	26	26	27	27	27	27	28	28	28	25	25	26	25	26	26	26	26	27	27	28	28	28	26	26	

foF2

Sweep 1.1 sec. Mc to 22.0 Mc in 1 min

Manual Automatic

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

Lat. 45° 28.6' N
Long. 141° 41.1' E

Wakkanai

IONOSPHERIC DATA

135° E Mean Time

Feb. 1956

K'F2

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	310	250	290	250	250	300	240	220	210	250	260	260	250	240	230	230	220	240	270	260	290	280	290	
2	270	270	280	260 ^F	250	220 ^F	300 ^F	240	250	250	250	230	250	240	250	240	220	220	210	220	260 ^S	290	340	360	
3	320	310	270	230	290	300	260	220	220	230	230	250	250	250	250	250	210	230	220	220	310	320	320	350	
4	310	250	270	260	260	280	260	220	210	230	250	230	250	250	240	240 ^L	230	220	230	240	250	320 ^A	310	310	
5	310	310	260	240	250	260	250	220	210	240	250	250	220	250	230	230	210	220	230	220	260	270	300	340 ^F	
6	310	300	280	260	240	250	250	230	210	220	240	240	250 ^H	240	220	230	220	220	220	220	260	230	310	310 ^F	
7	300	300	260	270	260	220	210	220	210	230	260	250	260	250	230	230	220	210	240	220	260	270	320 ^F	350 ^F	
8	280 ^F	270 ^F	270	260	260	260	240	230	240 ^L	230	240	240	250	240	240	230 ^H	220	220	210	240	240	210	250	280	340
9	310	310	310	260	260	220	250	220	220	220	240	250	250	250	240	250	220	200	240	230	240	300	300	320	
10	320	310	300	270	250	240	240	220	210	230	240	260	250	250	240	230	230	200	250	220	240	280	340 ^F	300	
11	310	300	290	270	250	270	250	210	210	210	240	240	240	240	240	240	230	220 ^C	220	220	240	250	280	310	
12	310	300	270	260	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	
13	240	240	260	260	240	300	270	230	240	250	260	260	250	250	250	230	230	220	220	240	240	270	320	360	
14	330 ^F	300	260	270	260	290	240	220	240 ^L	240 ^L	250	250	250	250	240	230 ^C	220	220	220	220	230	250	310 ^F	240	
15	260 ^F	290 ^F	260	260	240	250	240	220	230	240 ^L	250	250	250	260	240	260	220	220	250	220	220	250	280	300	310
16	310	280	300	280	260	230	230	240	220	230	240	260	260	250	270 ^L	250	240	220	210	220	220	260	310	320	350
17	330	310	260	250	250	320	290	250	240	220	250	260	260	250	250	240	240	220	220	220	220	270	290	340	
18	340	280	260	260	250	250	260	220	240	230	240 ^L	250	250	250	250	240	230	220	240	250	230	260	300	290	
19	310	250	300	290	270	270	240	220	230	220	240	250	250	250	240	250	240	220	210	240	240	280	340	310	
20	340	290	320	260	280	340	300	240	240	230	240	260	260	250	240	250	230	220	220	240	250	300	300	320	
21	360	370	330	250	220	300	300	240	230	240	250	250	260	250	240	240	250	220	220	240	240	280	300	280	
22	310	320	310	290	250	260	250	240	230	240	260	260	260	250	260	260 ^H	250	220	210	220	220	280	300	280	
23	340	330	310	270	240	250	250	240	220	230	250	260	250	250	240	240 ^B	240	230	220	220	270	270	280	300	
24	340	280	280	280	270	310	240	220	220	240	260	260	250	260	250	240	230	230	210	220	220	260	280	300	
25	310	260	240	260	260	290	260	240	230	220	240	240	260	260	240	260 ^L	250	300	300	240	220	270	320	340	
26	370	360	270 ^F	340 ^F	330 ^F	240 ^F	290	260	240	240	240	240	240	240	240	240	240	240	210	240	260	320	360	360	
27	350	300	260	240	260	330	290	240	240	250	250	260	260	260	240	240	230	220	230	230	240	250	260	270	
28	280	270	270	270	230	260	300	240	230	230	230	230	240	240	240	230	240	240	240	240	240	240	240	280	
29	260	250	260	280	300	320	230	230	220	220	240	260	260	260	250	250	250	230	210	250	310	300	390 ^F	310 ^F	
30																									
31																									
Mean Value	310	290	280	270	260	270	260	230	230	230	250	250	250	250	240	240	230	220	230	230	250	280	310	320	
Median Value	310	300	270	260	260	250	230	230	230	230	250	250	250	250	240	240	230	220	220	220	230	250	280	310	
Count	28	28	28	28	28	28	28	28	28	25	25	26	25	26	26	27	27	27	27	27	27	27	28	28	

K'F2

IONOSPHERIC DATA

Lat. 46° 23.6' N
Long. 141° 41.1' E
Wakkanai

Feb. 1956

fEs

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	(2.5) ³	E	2.3	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
2	2.5 ^F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
3	E	E	E	E	E	E	E	3.0 ^Y	2.5 ^F	4.2	E	E	E	E	E	E	E	E	E	E	E	E	E	E
4	E	2.5 ^F	2.0 ^F	2.2 ^F	2.2 ^F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
5	2.5	2.3	2.5 ^Y	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
6	E	2.2	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
7	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
8	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
9	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
10	3.0	2.3 ^F	2.0 ^F	E	E	E	E	E	E	E	4.8 ^Y	5.0	E	E	E	E	E	E	E	E	E	E	E	E
11	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
12	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
13	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
14	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
15	2.3	2.2 ^F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
16	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
17	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
18	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
19	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
20	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
21	E	E	2.2	2.2 ^Y	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
22	2.5	2.9	3.5	2.5 ^F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
23	E	E	2.5	2.3	2.2	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
24	E	E	2.2	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
25	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
26	2.5	4.2	E	3.0	3.6	3.0	2.3	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
27	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
28	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
29	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
30																								
31																								
Mean Value	2.5	2.6	2.4	2.4	2.7	2.6	2.2	3.0	3.5	4.2	4.8	4.6		4.1	4.2	4.2	4.0	4.2	3.3	3.0	3.5	3.1	3.2	2.9
Median Value	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Count	27	28	28	28	28	28	28	28	27	24	24	24	23	23	24	24	24	24	25	27	26	27	25	28

fEs

Sweep 1.1 Mc to 2.2 Mc in ___ min

Manual Automatic

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

Lat. 39° 48.5' N
Long. 140° 08.2' E

Akita

IONOSPHERIC DATA

foF2

Feb. 1956

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	4.0	3.9	3.9	3.2	3.3	2.9	2.6 ^J	4.9	7.5	10.2	7.4	9.0	9.1	(9.1) ^C	9.1	7.5	7.0	7.2	5.2	4.5	4.6	3.6	3.7	4.0	
2	4.2	4.1	3.7	3.6	3.7 ^F	3.2	2.7	5.4	8.1	11.0 ^P	12.2 ^J	(12.1)	10.1	10.2	9.0 ^P	7.6	6.5	6.8	5.4	3.9	3.7	3.6	3.2	3.2	
3	3.4 ^F	3.5	3.4	2.6	2.5	2.8	3.1	6.0 ^P	7.2	9.0 ^J	(9.3)	9.6	9.5	8.5 ^P	C	8.4	(7.0) ^C	5.6	4.8	4.8	2.7	2.8	3.0	3.1	
4	3.2	3.5	3.2	3.2	2.9	3.0	2.9	5.6	6.0	4.6 ^H	9.5	10.8	9.5	9.1	7.9	8.0	7.7	5.7	4.8	4.5	3.8	3.7	3.3	3.5	
5	3.5	3.6	3.6	3.2	2.7	3.0	3.0	5.7	7.4	7.2	9.5 ^H	10.6	10.0	8.0 ^H	8.0	8.0	7.1	5.8	5.8	5.2	3.6	3.3	3.3	3.3	
6	3.5	3.7	3.6	3.5	3.6	2.9	2.7	5.3	6.6	8.0	8.5	10.0	9.5	8.9	8.6 ^J	7.5	6.9	5.9 ^J	5.6	6.5	3.6	3.0	3.2	3.3	
7	3.5	3.5	3.6	3.8	3.6	3.4	3.0	5.8	6.6	7.0	8.4 ^P	10.5	11.1	9.9	8.8	8.1	7.1	5.8	4.6	5.3	3.4	3.1	3.1	3.4 ^F	
8	3.5	3.6	3.8	3.8	3.8	3.5	3.5	5.7	6.8	8.3 ^J	9.1	9.0	8.4	8.0	7.5	8.1	6.9	C	C	C	C	C	C	C	
9	3.5	3.6	3.6	3.9	3.6	3.5	3.5	5.9	7.0	C	C	C	C	C	C	7.7	7.7	5.6	4.3	4.8	3.5	3.1	(3.3)	3.5	
10	3.5	3.6	3.7	3.9	4.3	2.9	2.8	6.1	7.6	7.4	8.8	10.0	11.5	10.2	8.1	7.6	(6.8)	5.9 ^P	4.6	4.6	3.6	3.0	3.0	3.1 ^F	
11	3.4	3.5	3.5	3.6	3.3	3.0	3.2	6.2	6.5	7.6	8.6	11.8	11.5	9.5	8.6	8.2	8.4	6.5	4.6	4.6	4.5	4.5	4.5	4.4 ^F	
12	4.4	4.5	4.5	4.6	3.5	3.5	3.5	6.1	7.8	11.4	11.5	11.6	10.1	10.4	8.2	8.8	8.5 ^P	8.0	6.5	5.5	5.6	5.0	4.8	5.1	
13	(5.9) ^P	4.8	3.7	3.6	3.5	3.5	3.2	6.1	7.3	9.1	8.8	9.8	11.3	10.2	9.2	8.3	8.2	7.0	5.6	4.8	4.6	4.5 ^V	4.4 ^F	4.5 ^P	
14	3.6	3.6	3.6	3.5	3.4	3.3	3.2	6.1	8.5 ^P	8.8 ^J	9.6	10.6	10.6	9.0	9.8	9.5	9.4	6.9	5.8	5.5	4.2	3.8	3.8	4.0 ^P	
15	4.1	4.2	4.1 ^F	4.6	5.0	4.0 ^F	4.0 ^F	6.4	6.6	8.0	9.3	10.9	10.9	10.4	10.0	10.1	9.1	9.4	7.5	5.1	4.3	4.5	4.5	4.5	
16	4.0	4.1	4.2	4.3	4.5	3.7 ^{HF}	3.7 ^H	6.6	8.0	9.5	11.1	10.7	11.4	12.0 ^J	11.8 ^P	10.7	9.0	8.4	7.0	6.0	5.2	5.0	4.7	4.5	
17	4.5	4.6	4.6	4.2	3.9	3.8	4.0	7.0	9.0	10.0	11.0	10.5	11.7	11.3	10.5	9.8	9.1	(8.0) ^J	6.5	6.5	5.9 ^J	(5.3)	5.1	5.2	
18	4.5	4.6	4.9	4.5	3.0	3.7	4.0	7.1	9.4	10.1	10.5	10.9	11.5	11.9	10.6	11.0	9.8	9.4	7.8 ^P	6.2	5.9 ^P	5.4	4.6	4.5	
19	4.9	4.7	4.5	4.4	4.4	4.5	4.6	6.9	9.4	10.3	11.8	11.7	11.5	11.5	10.4	10.2	8.9	8.0 ^P	7.2	6.4	5.3	4.9	4.7	4.5	
20	5.0	5.2	5.6	4.4	3.9	3.9	4.0	7.5	10.3	11.7	12.0 ^P	12.5	12.0 ^J	11.4	10.6	10.4	10.4	10.0	7.3	6.6	5.6	5.1	5.2	5.2	
21	4.4	4.4	4.7	4.6	3.2	3.2	3.7	7.5	10.4	11.7	12.0 ^P	12.5	12.0 ^J	11.4	10.6	10.4	10.4	10.0	7.3	6.6	5.6	5.1	5.2	5.2	
22	4.9	4.8	4.8	4.7	4.8	4.2	4.6	8.1	9.5	10.5	10.6	11.6	12.0 ^P	11.6	11.1	11.0	10.1	10.4	8.9	7.0	6.0	6.2 ^P	5.6	5.3	
23	5.3	4.9 ^P	5.3	5.5	5.6	4.4	4.5	7.7	9.8	C	C	C	C	C	C	C	C	10.1	8.4 ^P	7.0	6.1 ^P	5.7	5.5	5.1	
24	5.1	5.0	5.0	(5.0) ^P	4.7	4.6	5.5	8.1	9.1 ^J	10.0	11.6	12.5 ^J	12.0 ^P	12.1 ^P	12.0 ^P	11.7	10.7	9.2	7.7	5.7	5.5	5.6	4.9 ^V	5.1	
25	5.0	5.2	5.2	3.8	3.7	3.7	4.2	7.7	9.2	9.0	10.3	11.0	11.0	11.7	10.6	9.6	10.3	9.1	9.6	7.2	6.6	5.1	4.8	5.2	
26	4.8	6.5	6.7	6.2 ^H	8.4 ^J	8.0 ^F	4.8 ^F	7.8	9.6	11.5	12.8 ^J	13.5	13.5	13.6	13.4	(11.9) ^P	11.5	10.8	8.9	6.0	(5.4) ^J	5.2	5.1	5.1	
27	4.8	5.3	5.5	4.5	3.4	3.2	3.9	7.0	9.5	10.8	11.5	11.8 ^P	12.0 ^J	11.5	10.5	10.2	9.4	8.3	7.2	6.7	6.0	5.6	B	5.2	
28	5.1	(5.2) ^P	5.2 ^P	5.1	3.9	3.6	3.9	7.9 ^P	10.4	11.1	10.6	10.3	12.0 ^J	11.6	10.4	9.6	8.8 ^J	8.8 ^J	7.8 ^P	5.9 ^P	5.2	5.6 ^P	5.1	5.5 ^P	
29	5.5	4.9	4.5	4.0	4.0	4.6 ^F	5.4	7.2	9.5	9.7	11.1	11.6	13.4	13.0	11.5	10.4	10.3	10.2	7.4 ^P	5.2	(5.4) ^J	5.5	(4.9) ^F	5.2 ^F	
30																									
31																									
Mean Value	4.3	4.4	4.4	4.1	3.9	3.7	3.7	6.6	8.3	9.7	10.1	10.9	11.1	10.5	9.8	9.3	8.6	7.9	6.5	5.6	4.8	4.5	4.3	4.4	
Median Value	4.4	4.4	4.2	4.0	3.7	3.5	3.7	6.6	8.1	9.7	10.3	10.9	11.3	10.4	10.2	9.6	8.6	8.0	6.5	5.5	4.7	4.7	4.5	4.5	
Count	29	29	29	29	29	29	29	29	29	27	27	27	27	27	26	27	28	28	28	28	28	28	27	28	

foF2

Sweep 0.85 Mc to 2.20 Mc in 2 min

Manual Automatic

Lat. 39° 43.5' N
Long. 140° 08.3' E

IONOSPHERIC DATA

A k i t a

135° E Mean Time

Feb. 1956

K'F2

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	310	300	300	300	310	300	250	250	260	260	270 ^L	280	280	260	250	250	250	240	280	260	290	340	350 ^A
2	270	300	300	290	280 ^F	280 ^C	300	270	260	280 ^L	260	270	280	280 ^L	260	260	250	250	240	250	280	270	320	360
3	370 ^F	320	280	280	370	340	260	240	240 ^A	260	280 ^L	270 ^L	270	270	260	270	250	250	250	240	300	310	360	350
4	340	290	290	300	290	350	280	230	240	260 ^H	260	290 ^L	260	260	250	250	250	240	260	290	270	280	320	350
5	340	330	290	290	310	300	260	240	240	260 ^L	300 ^H	280	250	250 ^H	260	260	240	240	260	250	250	250	280	350
6	370 ^F	330	310	300	270	280	290	250	240	250	250	280	260	270	260	250	260	250	260	250	290 ^A	330	340	350
7	350	310	310	300	280	280	240	250	250	250	270	270	270	270	250	250	250	240	260	250	240	310 ^A	310	370
8	350	300	300	300	290	300	280	250	240	260 ^L	260	260	250	250	260	250	250	250	250	250	250	250	300	330
9	360	350	330	280	280	300	260	250	240	250	240	250	250	250	250	250	250	250	250	250	250	250	300	330
10	360	350	340	300	250	250	280	250	250	250	300 ^L	280 ^L	290	270	270	260	250	250	250	250	240	300	310	400
11	340	350	330	300	270	300	270	250	240	250	270 ^L	300	270	280	260	280 ^L	250	240	250	260	300	300	350	360
12	370	340	310	290	240	320	300	250	260	270	280 ^L	270	260	280	250	280 ^L	250	250	240	260	270	340	340	340
13	260	260	290	290	310	330	300	250	250	250	280 ^L	280	300	290 ^L	300 ^L	260	250	240	240	260	260	290	310	370
14	360	340	310	320	320	310	250	250	250	270	270 ^L	280	280	280	280	260	250	240	250	270	260	300	350 ^F	300 ^F
15	270	310	320	300	250	300	270	240	250	250	260	280	290	270	290 ^L	270	280	240	250	270	260	300	320	330
16	350	340	340	310	270	250	280 ^H	250	250	260	260	300 ^L	270	270	270	270	250	250	250	240	290	340	360	360
17	360	350	300	290	300	350	320	250	250	260	260	280	290 ^L	280	270 ^L	260	260	250	240	250	260	290	310	340
18	340	340	300	270	250	330	290	250	250	250	260	290 ^L	290	290 ^L	270	260	250	250	240	260	260	290	340	310
19	320	340	340	340	250	300	250	250	250	250	280 ^L	290 ^L	300 ^L	290 ^L	270	280	250	250	240	250	270	260	350	410
20	360	320	270	290	300	370	340	250	260	270	270	270	280	280	270	270	250	240	250	280	270	300	310	340
21	410	390	340	250	240	350	330	260	260	260	280 ^L	280 ^L	290 ^L	290	290 ^L	280 ^L	260	250	250	260	260	300	320	310
22	340	360	330	310	280	280	290	260	250	250	250	280 ^L	290	290 ^L	290 ^L	280	250	270	240	250	290	300	340	340
23	370	370	350	300	260	250	290	250	250	250	250	280 ^L	290 ^L	280	290	280	250	250	250	260	260	290	300	320
24	340	320	300	330	320	330	300	250	250	280 ^L	290 ^L	300 ^L	290 ^L	290 ^L	290 ^L	280	250	270	240	250	290	290	300	340
25	350	290	270	270	320	340	300	250	250	250	270	280	300	290 ^A	270 ^A	270 ^L	260	240	230	260	280	270	310	310
26	380	310	360	290 ^H	340 ^F	240	300 ^A	320	270	270 ^L	280 ^L	280 ^L	300 ^L	300 ^L	280 ^L	280	260	260	260	260	280	270	310	370
27	370	350	290	250	280	390	310	250	260	260	280 ^L	290	290	280	280	270 ^L	250	250	250	250	250	320	280	290
28	310	300	300	290	240	340	340	260	250	260	270 ^L	280 ^L	310	280	280	260	250	250	250	250	280	310	350	300
29	290	260	290	320	360	350	250	250	240	240	290 ^L	310	320	290	280	270 ^L	270 ^L	250	230	290	320	320	340	350
30																								
31																								
Mean Value	340	330	310	290	290	310	290	250	260	270	270	270	280	280	270	270	250	250	250	260	270	270	310	340
Median Value	350	330	300	300	280	310	290	250	250	270	270	280	290	280	270	260	250	250	250	260	260	260	300	350
Count	29	29	29	29	29	29	29	29	29	27	27	27	27	27	27	26	27	28	28	28	28	28	28	28

K'F2

Speed 0.85 Mc in 2.20 Mc in 2 min

Manual

Automatic

Lat. 39° 45.5' N
Long. 140° 08.3' E

IONOSPHERIC DATA

Akita

Feb. 1956

fEs

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	E	E	E	E	E	E	E	ZZ	G	G	G	G	G	G	G	G	G	E	E	2.6	2.3Y	E	3.0	3.2	
2	2.3Y	2.5	E	E	2.4	C	G	2.4Y	G	G	G	G	G	G	G	G	2.8	2.0	2.2	2.3	2.2	E	3.4F	3.5	
3	2.6F	3.7	3.5Y	2.6F	E	E	C	2.6	3.7 ⁰	7.0	4.0	4.0	G	G	G	C	G	3.0	2.7	2.1	2.1	2.4	2.5F	2.5F	
4	3.0F	2.5F	3.1	2.5F	E	E	E	2.4	3.1	G	3.7	3.1	4.2	3.7	3.3	3.0	3.5	3.5	3.7	4.5F	3.0F	3.5	2.6	2.7	
5	2.5	2.7	2.8F	2.9F	2.7F	E	E	G	G	G	G	G	3.7	G	G	3.5	3.2	3.0	2.8Y	E	E	E	E	2.6	
6	2.5	3.0F	2.6F	2.5	2.5F	2.2	2.4	2.5	3.2	3.5	4.5	3.9	G	G	G	G	G	3.1	4.5	4.2	6.6	2.5	2.4Y	E	
7	2.4	2.5	E	2.5Y	2.5	2.5Y	2.4Y	3.0Y	G	4.0	G	G	G	G	G	G	3.1	3.0	2.7	E	E	3.9	3.0	2.6	
8	E	2.5Y	2.5Y	3.0Y	2.5	E	2.5Y	2.2	G	G	G	G	G	G	G	G	G	E	E	C	C	C	C	C	
9	E	2.5	2.5Y	2.5	2.4Y	E	E	E	B	C	C	C	C	C	C	C	G	E	E	E	E	E	E	E	
10	E	E	E	E	2.5	E	E	G	G	G	G	G	G	G	G	3.5	C	2.6	3.0	3.2	3.5	4.5	3.1	3.6	
11	3.0F	E	2.5	2.6Y	3.0Y	E	E	G	G	G	G	G	G	G	G	G	G	E	E	2.5	2.3	2.1	3.2	3.7	
12	2.7	2.5F	2.5F	2.5	2.5	2.0	2.4	2.4Y	G	G	G	G	G	G	G	G	3.1	E	E	E	2.1	2.0	E	2.4	
13	2.4F	E	2.5	2.5F	E	E	E	G	G	G	G	G	G	G	G	G	G	2.5	2.5F	E	E	2.1Y	2.0	E	
14	E	2.2	E	2.6F	2.5	2.5	E	G	6.5Y	G	G	G	G	G	G	C	G	3.2	3.1	2.4Y	E	E	2.0	E	
15	E	2.5	2.5F	2.5F	2.5Y	E	2.2Y	2.4Y	G	G	G	G	G	G	G	G	2.5	G	2.8	3.1	2.7	2.5	2.5Y	E	
16	2.2Y	2.5Y	E	2.5Y	2.5Y	2.2	E	2.5	G	G	G	G	G	G	G	G	G	2.4Y	2.4Y	2.1	2.4Y	E	E	E	
17	E	E	3.0	E	2.5Y	2.4Y	E	G	G	G	G	G	G	G	G	G	G	G	2.3Y	E	E	E	3.1	2.1Y	
18	E	E	3.0	E	2.5Y	E	E	G	G	G	G	G	G	B	G	G	G	G	3.0	E	E	2.2	2.5Y	E	
19	E	2.4Y	E	E	2.3Y	2.2	E	3.0Y	G	G	G	G	G	G	G	G	3.4	3.8	3.1	2.7	E	E	E	E	
20	E	2.6	4.2Y	E	2.4Y	2.5Y	3.0Y	2.4Y	G	G	G	G	G	G	G	G	G	G	2.5	4.6	2.6	2.6	2.5	2.4	
21	3.0	2.5	2.5Y	2.3	2.5Y	2.5Y	E	G	3.7	G	G	G	G	G	4.4	G	G	2.6Y	3.5	E	2.4	2.5Y	2.0	2.5	
22	2.5	4.5	3.0	E	3.0	2.6	2.5	2.4Y	G	G	G	4.2	G	G	G	G	G	G	G	2.7	E	E	1.9	E	
23	2.5Y	2.5	2.5	2.5	2.8	2.8	E	G	G	C	C	C	C	C	C	C	3.5	4.2	3.5	2.5Y	E	E	E	2.0	
24	2.3	2.5 ⁰	2.5 ⁰	2.5	E	2.5Y	E	G	G	G	G	4.3	G	G	G	G	3.2	G	2.4Y	E	E	2.4	1.9	2.6	
25	E	1.9	2.5	2.5Y	2.6	E	1.8	G	G	G	G	G	5.0	G	5.3	G	G	G	2.4Y	E	E	E	E	2.3	
26	2.5	2.6	1.6	2.2	2.5	2.7	4.6	4.0	G	G	G	G	G	G	G	G	G	2.4Y	E	E	E	E	E	2.3	
27	2.4Y	E	2.5Y	2.8	2.4	2.5	2.7	G	G	G	G	G	G	G	G	G	3.3Y	G	E	E	2.9	3.5	2.5	2.7	
28	2.6	2.5Y	3.0Y	2.5Y	2.5	2.5Y	2.4	2.7	G	G	G	G	G	G	G	G	G	G	3.0	2.4Y	E	2.5Y	E	2.3	
29	2.4Y	2.4Y	E	2.5Y	2.6	E	2.7	3.0Y	G	G	G	G	G	G	G	G	G	G	E	E	E	2.3	2.4	2.5	2.6
30																									
31																									
Mean Value	2.5	2.6	2.7	2.5	2.5	2.4	2.6	2.6	4.1	4.8	4.1	3.9	4.3	4.5	4.3	3.3	3.2	3.0	2.9	2.9	2.7	2.7	2.6	2.6	
Median Value	2.4	2.5	2.5	2.5	2.5	2.1	E	2.2	G	G	G	G	G	G	G	G	G	G	G	2.6	2.1	2.2	2.1	2.0	2.4
Count	29	29	29	29	29	28	28	29	28	27	27	27	27	26	27	25	27	28	28	28	28	28	28	27	28

fEs

Speed 0.25 Mc to 22.0 Mc in 2 min

Manual

Automatic

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

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

foF2

Feb. 1956

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	4.1	3.9	3.8	3.0	3.3	3.0	2.9	5.7	7.0	10.7P	9.3	8.9	8.8	8.5	9.4	8.6	7.2	6.7	6.1	5.4	4.9	3.6	3.2	3.6	
2	3.8	3.9	3.9	3.5	3.2	3.2	2.9P	5.6	8.0	10.5	13.7	13.0	10.7P	10.0	10.8P	7.9	6.7	6.2	5.5	5.2	4.3	3.3	3.2	3.3	
3	3.3	3.8	3.6	2.3	2.4	2.6	2.9P	6.3	7.5	8.1	9.5	10.0	11.0	9.4	8.4	8.6	8.1	6.0	5.6	5.6	4.3P	3.0	3.0	3.1	
4	3.2	3.5	3.4	2.9	2.9	3.0	C	C	C	8.6	9.8	11.4P	11.3P	8.4	7.8	7.6	8.1	6.4	(5.6)P	4.7	4.3	3.3	3.4F		
5	3.4	3.7	3.8	3.3	2.8	2.9	2.8	6.0	8.1	7.7	8.5	11.3	11.0	8.3	7.5P	8.5	8.4	6.1	5.0	5.8	4.4	3.2	3.1	3.2A	
6	3.3	3.4	3.8	3.8	3.4	2.7	2.8	5.9	7.6	7.9	8.7	9.6	10.1	9.1	9.5	7.6	6.8	7.0	6.5	6.8	5.0	2.8	3.0	3.1	
7	3.3	3.5	3.5	3.9	3.3	3.2	3.3	6.0	7.2	7.0	8.8	10.9	10.9	10.8	8.7	8.6	7.9	6.5	4.2	4.8	4.0	2.9	3.0	3.1A	
8	3.2	3.3	3.5	3.6	3.8	3.1	3.4	6.0	7.6	6.9	9.4	9.5	9.5	7.7	7.8	8.0	7.0	6.1	4.6	5.5	5.1	3.5	3.1	3.2	
9	3.3	3.4	3.6	4.2	3.3	3.3	3.4	6.8	8.1	7.5	8.9	10.4	11.4P	9.7	8.4	8.0	7.8	7.5	4.2	4.9	4.2	3.3	3.2	3.8	
10	3.6	3.8	3.8	4.1	4.1	2.5H	2.6	6.2	7.5	7.8	8.9	10.5	10.1	10.8	9.2	9.0	7.7	6.0	4.2	4.5	4.1	3.2	3.2	3.2	
11	3.4	3.5	3.7	3.5	3.3	3.0	3.1	6.4	8.0	8.0	9.1	10.9	13.5	10.8	9.5	8.5	8.2	7.0	4.9	4.8	5.0	4.9	4.2	4.5	
12	4.4	4.6	4.7	4.3	4.1	3.2	3.3	6.8	7.8	11.3P	11.2	10.4	10.3	10.1	9.5	9.0	8.8	8.2	6.5	5.1	5.5	5.0	5.3	5.3	
13	6.3	5.4	3.9	3.7	3.4	3.5	3.6	7.6	8.1	9.0	10.2	10.5	10.9	11.4	10.6	11.8P	9.6	9.3	6.9	5.0	4.9	4.2	3.6	3.5	
14	3.5	3.8	3.8	3.3	3.3	3.3	3.4	6.5	8.0	9.0	9.6	9.4	10.8	10.8	9.5	9.5	8.6	7.5	5.4	4.5	4.9	4.8	4.6F	(4.5)F	
15	4.9P	5.0F	4.2	4.3	4.4	3.1F	3.4	6.4	8.0	10.1	10.8	10.4	10.5	10.3P	10.0	11.0	10.7	8.1	6.7	5.4	5.2	4.1	4.0	4.0	
16	3.9	3.9	4.0	4.2	3.8	3.1	3.3	6.8	7.9	9.7	10.0	10.0	11.1	11.5P	11.5	11.0	10.6	9.6	8.0	4.8	4.4	4.5	4.9	4.8P	
17	4.8	5.0	5.0	4.2	3.9	3.9	3.9	7.1	9.4	12.6	11.4	10.1	11.2H	12.8	11.5P	10.3	9.1	8.9	8.0	6.0	5.8	5.4	5.0	4.8	
18	4.9	4.9	4.9	4.8	3.9	3.3	3.9	7.3P	9.0	10.9	12.3	10.0	12.4	13.0	11.0P	10.9	10.0	9.2	7.9	6.1	6.7	6.1	5.3	5.5	
19	5.5	5.2	5.0	4.5	4.4	4.5	4.7	7.2	9.1	10.3	11.2	10.7	12.5	12.9	11.1	11.5P	11.0	9.4	8.5	6.6	6.6	6.6	5.4	5.4	
20	6.0	6.1	6.6	5.3	4.2	4.2	4.5	8.8	9.5	11.0	12.5	(12.4)P	12.1H	11.3P	11.0	10.5	9.6	8.6	7.2	6.7	6.2	5.5	5.1	4.7	
21	4.5F	4.5	4.7	4.5	2.9H	2.9	3.7	7.3P	10.0	12.0	12.9	13.8H	13.4	12.6	10.8	10.2	10.4	10.0	8.8	6.5	6.0	5.3P	5.4	5.5	
22	5.3	4.8	4.7	4.8	4.8	3.9	4.5	8.5	9.2	10.7	10.9	11.0	12.5	12.6	12.5	12.1	10.9	10.5	10.3	8.0	6.4	6.5	6.3	6.0	
23	6.0	5.4	5.4	6.0	5.6	4.0	4.4	7.9	9.9	10.5	12.5	13.5	13.6	B	13.3	13.5	11.2	10.7	9.3	8.1	7.4P	6.3	6.0	5.7	
24	5.6	5.5	5.6	4.9	4.8	4.6	5.5	8.3	9.1	(10.2)C	11.2	12.5	13.0	13.4	12.7	12.6	11.2	10.6	9.0	6.8	6.5	6.5	5.5	5.6	
25	5.6	5.8	4.7	3.8	3.6	3.7	4.1	8.1	9.4	9.2	10.3P	11.6P	11.0	12.9	11.3	10.0	10.1	10.1	10.2	9.0	7.5P	5.6	5.7	5.7	
26	5.5	6.7	C	C	C	C	C	C	8.6	10.9	(11.5)P	11.0	12.8P	14.2	13.7	12.7	11.5P	11.1	9.2	6.3	5.8	5.5F	5.5	5.4	
27	5.2	5.5	5.9	4.5	3.2H	3.2	3.9	7.3	9.1	10.9	11.3P	12.3	12.8	12.6	10.7	10.5	9.2	8.7	8.2	7.2	6.4	4.9	5.6	5.4	
28	5.2	5.2	5.7	5.3	2.9	3.3	3.9	8.4	10.4	11.1	9.9	10.3	(11.2)H	12.2	10.3	9.5	9.6	8.9	8.0	6.1	5.7	5.4	5.3	5.7	
29	5.4	4.8	4.1	4.0	4.0	4.0	5.3	7.4	9.3	10.1	11.2	12.5	12.8	13.5	12.5	10.2	10.4P	10.1	9.0	5.4	5.4P	5.6	4.8	4.8	
30																									
31																									
Mean Value	4.5	4.5	4.4	4.1	3.7	3.4	3.7	7.0	8.6	9.7	10.5	11.0	11.5	11.1	10.4	9.9	9.2	8.3	7.0	5.7	5.4	4.7	4.4	4.5	
Median Value	4.5	4.6	4.0	4.2	3.5	3.2	3.4	7.0	8.1	10.2	10.3	10.7	11.2	11.0	10.6	10.0	9.2	8.6	6.9	5.6	5.2	4.9	4.8	4.7	
Count	29	29	28	28	28	28	27	28	28	29	29	29	29	28	29	29	29	29	29	29	29	29	29	29	

foF2

Group 1.0 Mc to 17.2 Mc in 2 min
 Manual
 Automatic

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

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

Feb. 1956

h_pF₂

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	330	310	310	280	340	340	280	250	280	280 ^F	240	290	270	270	300	260	270	270	300	290	280	300	370	370	
2	330	310	270	330	370	310	290 ^F	270	280	310	280	270	280 ^F	290	270 ^F	260	270	270	300	270	270	290	380	400	
3	360	310	290	270	390	350	310 ^S	260	250	290	260	270	260	280	270	290	260	260	310	270	300 ^A	340	350	370	
4	340	350	300	320	360	360	C	C	C	310	290	290 ^F	260 ^F	260	250	280	270	270	(280) ^F	290	310	280	310	360 ^F	
5	370	340	290	310	310	280	270	250	240	240	270	280	260	250	290 ^F	290	270	260	310	260	240	320	330	360 ^A	
6	380	360	320	290	260	350	300	240	270	260	270	300	270	280	270	260	260	270	300	290	240	390	370	380	
7	350	320	340	300	270	340	290	250	230	270	300	310	290	250	260	280	230	260	300	290	260	270	340	360 ^A	
8	380	350	340	320	280	320	310	260	240	270	260	280	250	240	280	270	250	260	290	310	270	280	310	380	
9	380	360	340	280	320	330	320	260	240	270	280	300	280 ^F	270	270	280	280	250	280	300	270	340	350	380	
10	390	360	350	300	240	350 ^H	330	260	240	270	270	280	280	280	280	280	270	260	260	310	270	310	340	380	
11	360	330	330	280	290	310	330	260	240	270	290	310	270	280	270	290	260	260	290	330	340	340	360	390	
12	380	370	330	330	280	360	330	260	290	280 ^F	280	290	290	300	280	300	290	290	270	330	340	380	400	390	
13	310	290	320	360	380	360	350	260	270	280	280	310	310	300	340	290 ^F	270	300	270	330	310	300	360	400	
14	400	340	310	320	350	360	310	260	260	270	270	290	310	280	290	300	270	270	280	310	350	340	330 ^F	380 ^F	
15	310 ^F	340 ^F	340	310	270	350	340	270	280	270	290	290	310	300 ^F	320	300	290	270	290	320	320	320	330	350	360
16	380	380	360	320	270	390	330	270	270	280	270	300	300	320 ^F	320	320	290	310	280	330	370	380	410	390 ^F	
17	380	390	320	350	360	390	370	290	280	290	290	310	330 ^H	320	310 ^F	310	300	290	280	320	330	340	360	400	
18	410	370	330	300	310	360	330	260 ^F	280	280	300	300	330	330	310 ^F	310	300	280	310	350	310	310	380	390	
19	370	370	360	380	370	360	300	260	280	290	290	300	340	330	310	320 ^F	290	300	310	310	330	310	410	490	
20	410	360	310	310	380	400	370	270	280	300	320	310 ^B	340 ^H	320 ^F	300	320	270	290	300	320	300	340	350	350	
21	450 ^F	420	360	260	270 ^H	400	360	270 ^F	280	310	320	320 ^H	310	330	320	300	290	300	300	310	320	330 ^F	350	360	
22	340	370	360	350	290	350	320	270	260	270	280	320	340	350	340	340	310	310	310	320	320	350	360	380	
23	420	400	390	360	290	320	330	270	270	290	340	330	340	B	330	340	300	300	310	330	310 ^F	350	350	380	
24	350	340	330	370	390	370	360	260	260	(280) ^C	300	330	320	320	320	320	290	270	280	300	330	310	300	370	
25	350	310	270	300	360	370	320	260	260	270	300 ^F	310 ^F	310	320	290	320	310	310	280	310	320 ^F	470	450	460	
26	460	380	C	C	C	C	C	350	290	(300) ^F	300	B	320	320	320	310	310 ^F	290	280	320	380	410 ^F	440	430	
27	430	390	310	250	400 ^H	400	330	260	280	300	300 ^F	320	320	310	320	290	300	300	300	310	300	330	360	360	
28	360	340	320	260	260	380	380	270	260	280	280	310	(330) ^A	310	320	300	280	290	320	330	350	370	390	360	
29	310	300	350	390	400	400	300	260	270	280	310	310	330	320	310	320	290 ^F	280	300	370	370	370	350	400	
30																									
31																									
Mean Value	370	350	330	310	320	360	330	270	270	280	290	300	300	300	300	300	280	280	290	310	310	340	360	380	
Median Value	370	350	330	310	320	360	330	260	270	280	290	300	300	300	300	300	280	280	300	310	310	340	360	380	
Count	29	29	28	28	28	28	27	28	28	29	29	28	29	28	29	29	29	29	29	29	29	29	29	29	

h_pF₂

Group 10 Mc to 17.2 Mc in 2 min

Manual Automatic

K 2

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

Feb. 1956

RF2

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	260	260	240	220	260	250	240	220	220	260	230	260	240	250	250	230	230	220	220	220	230	250	310	300	
2	270	260	230	270	210	260	230	240	230	260	260	230	260	240	240	230	230	230	240	230	230	250	310	340	
3	340	260	240	230	320	300	260	230	230	270	250	250	240	250	250	240	230	220	260	260	270	280	310	310	
4	270	290	250	260	240	300	C	C	C	280	260	260	230	240	230	230	220	220	230	230	250	240	250	290	
5	310	280	230	220	250	230	230	230	220	230	250	260	250	230	L	240	240	220	230	230	220	250	260	280	
6	310	290	260	240	210	280	260	230	220	240	240	260	250	240	240	230	230	230	240	240	200	330	320	310	
7	290	260	270	240	220	240	250	220	230	230	260	280	240	230	240	240	230	220	210	240	210	240	300	320	
8	350A	280	270	250	230	230	250	230	230	220	240	260	240	230	250	250	230	220	230	250	210	210	250	310	
9	310	300	270	230	220	250	250	230	230	230	250	270	250	240	240	240	240	230	210	240	220	250	310	300	
10	310	300	280	250	210	190H	260	230	230	240	250	260	250	260	250	250	230	210	240	270	230	300A	320	330	
11	300	260	260	230	220	240	260	230	230	240	260	270	250	250	240	250	230	230	230	230	260	260	300	310	
12	300	290	260	240	230	280	260	230	230	250	250	250	240	250	260	230	230	240	210	230	260	280	300	300	
13	250	230	250	240	270	280	280	240	230	240	260	260	260	270	250	250	230	250	200	250	240	230	270	340	
14	310	280	250	250	260	260	250	230	230	240	240	260	260	280	250	250	230	230	230	230	270	250	270	300F	
15	230	250	250	250	220	240	260	230	230	240	250	250	260	250	260	260	240	230	220	230	230	270	300	280	
16	300	300	290	260	210	220	250	230	230	250	250	260	260	270	270	260	240	250	210	210	270	290	310	310	
17	310	300	240	230	260	300	310	230	230	240	240	240	LH	270	260	240	230	230	230	220	250	260	280	320	
18	310	290	250	230	200	270	270	240	230	240	250	240	270	260	250	240	240	230	230	250	250	240	270	310	
19	280	290	280	280	260	270	230	230	230	240	260	260	270	260	240	250	240	220	210	220	240	240	300	360	
20	310	280	240	230	240	300	310	240	230	250	250	250	250	250	250	250	230	230	230	240	220	250	260	270	
21	340	330	280	210	190H	290	300	230	230	250	250	250H	260	250	240	250	240	230	220	210	240	250	270	280	
22	260	290	320A	250	240	280	270	230	230	240	240	L	250	L	280	240	240	240	220	220	240	250	270	280	
23	310	310	290	260	200	200	250	230	230	230	260	280	260	B	260	250	240	230	220	230	230	260	270	300	
24	280	260	260	290	260	260	280	230	230	240	250	250	270	280	250	250	240	230	210	220	240	240	270	290	
25	270	250	210	220	270	300	260	230	230	230	240	250	270	280	250	250	240	240	230	220	240	350	350	340	
26	330	280	C	C	C	C	C	C	290	260	250	310	280	260	250	250	240	230	200	220	260	330	320	320	
27	310	300	240	190	200H	300	270	230	230	240	250	250	270	270	240	250	240	230	230	240	230	250	280	270	
28	290A	260	260	230	190	310	300	240	230	250	240	250	260	260	270A	250	240	230	220	220	300A	280	300	280	
29	230	230	250	280	300	310	240	230	240	250	260	270	290	260	250	250	240	230	210	240	280	270	260	300	
30																									
31																									
Mean	290	280	260	240	240	270	260	230	230	240	250	260	260	250	250	250	240	230	220	230	240	260	290	310	
Median	300	280	260	240	230	270	260	230	230	240	250	260	260	250	250	250	240	230	230	230	240	250	280	300	
Count	29	29	28	28	28	28	27	28	28	29	29	28	28	28	27	28	29	29	29	29	29	29	29	29	29

RF2

Sweep 1.7. Mc to 17.7. Mc in 2 min

Manual Automatic

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

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokuburiji Tokyo

IONOSPHERIC DATA

foF1

Feb. 1956

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								Q	Q	4.2	4.7	4.6	4.5	4.5	4.2	L	Q								
2								Q	Q	4.3	4.7	4.8	4.8	4.1	L	3.9	2.7								
3								L	L	L	4.8	4.6	4.7	4.5	4.2	L	Q								
4								C	C	L	4.1	5.0	4.9	4.8	L	L	Q								
5								Q	L	L	L	4.5	4.4	L	L	Q	Q								
6								Q	3.0	L	L	L	4.8	4.5	4.3	4.0	L								
7								Q	3.3	3.7	4.4	5.0	4.9	4.8	4.5	4.1	L								
8								Q	3.2	3.4	4.6	4.5	4.7	4.5	L	L	Q								
9								Q	3.3	3.9	L	4.8	4.7	4.8	4.2	3.7	L								
10								Q	Q	L	4.6	4.8	4.8	4.8	4.5	4.5	L	Q							
11								Q	Q	L	L	5.0	5.1	4.8	4.5	L	L	Q							
12								Q	Q	4.7	4.8	4.7	4.5	L	4.6	3.6	Q	Q							
13								Q	Q	L	5.1	(5.4)	5.0	4.9	L	L	Q								
14								Q	Q	L	4.8	(5.0)	5.1	5.0	4.4	B	B								
15								Q	Q	L	4.9	4.7	5.0	4.9	L	4.8	Q								
16								Q	L	L	4.5	4.9	5.0	5.0	L	L	Q								
17								Q	Q	L	L	L	4.8	L	L	L	Q								
18								Q	Q	L	4.9	L	L	B	L	L	Q								
19								Q	Q	L	L	L	L	L	4.7	L	L	Q							
20								Q	Q	L	4.8	4.9	4.8	4.7	(4.4)	4.5	L								
21								Q	Q	4.5	4.6	4.6	4.8	4.8	4.6	4.7	L	Q							
22								Q	Q	L	L	L	L	L	L	L	Q								
23								Q	L	Q	L	L	L	B	B	L	Q								
24								Q	Q	C	4.8	4.8	5.0	5.5	4.4	4.0	L								
25								Q	L	L	L	4.8	6.0	5.5	4.8	4.5	L								
26								A	A	L	L	5.2	5.5	5.4	4.8	4.4	3.9								
27								Q	Q	L	4.6	4.5	5.2	4.8	L	3.9	L								
28								Q	Q	4.8	4.7	L	L	4.6	A	L	L								
29								Q	Q	4.8	L	5.2	A	A	4.5	L	Q								
30																									
31																									
Mean Value									3.2	4.3	4.7	4.8	4.9	4.8	4.5	4.2	3.3	2.4							
Minimum Value								3.2	4.3	4.7	4.8	4.9	4.8	4.8	4.5	4.1	3.3	2.4							
Count								4	9	18	22	22	22	22	16	13	2	1							

foF1

Sweep 10 Mc to 17.2 Mc in 2 min

Manual

Automatic

K 4

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

Lat. 35° 42.4' N
Long. 139° 28.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

R'F1

Feb. 1956

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								Q	Q	250	190	210	210	220	220	230	Q							
2								Q	Q	240	240	230	220	210	220	220	230							
3								250	230	250	230	230	220	220	230	240	Q							
4								C	C	220	210	220	220	220	220	230	Q							
5								Q	Q	230	230	210	210	230	210	Q	Q							
6								Q	Q	220	230	220	240	230	220	230	230							
7								Q	Q	230	210	200	230	260	220	220	240							
8								Q	Q	220	210 ^H	200	200 ^H	230	200	210	Q	Q						
9								Q	Q	220	210 ^H	210	220	210	210	200	230	Q						
10								Q	Q	230	230	220	220	250	220	230	230	Q						
11								Q	Q	220	240	240	250	230	210	220	210	Q						
12								Q	Q	240	220	230	210	230	230	230	Q	Q						
13								Q	Q	230	230	230	230	220	230	250	Q	Q						
14								Q	Q	230	230	230	230	230	210	B	B							
15								Q	Q	240	230	220	220	230	220	240	Q							
16								Q	Q	240	230	230	230	220	230	230	Q							
17								Q	Q	240	230	230	230	250	230	230	Q							
18								Q	Q	230	240	230	230	B	240	230	Q	Q						
19								Q	Q	230	240	230	230	240	230	240	250	A						
20								Q	Q	230	230	240	230	230	230	230	240							
21								Q	Q	230	230	230	230	230	230	220	240	Q						
22								Q	Q	230	230	220	230	230	240	230	Q	Q						
23								Q	Q	240	230	230	240	B	B	240	Q	Q						
24								Q	Q	C	240	230	230	250	230	210	240							
25								Q	Q	240	230	220	230	230	240	230	230							
26								A	A	240 ^A	250	240	240	250	230	230	230							
27								Q	Q	230	230	220	230	250	240	220	230							
28								Q	Q	230	230	230	240	240	240	230	230							
29								Q	Q	240	250	270 ^A	A	A	230	230	Q	Q						
30																								
31																								
Mean Value								250	230	230	230	230	230	230	230	230	230							
Median Value								250	230	230	230	230	230	230	230	230	230							
Count								1	9	27	29	29	28	26	28	27	14							

R'F1

Sweep 1.0 Mc to 17.2 Mc in 2 min

Manual

Automatic

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

Lat. $35^{\circ}42.4'N$
Long. $139^{\circ}28.3'E$

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

foE

Feb. 1956

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	2.5	2.9	3.1	3.3	3.4	3.4	3.1	2.9	2.4							
2								B	2.5	3.0	3.2	3.2	3.3	3.2	3.2	2.8	2.3							
3								B	2.4	A	A	3.2	3.1	3.2	3.1	2.8	2.2 ^A							
4								C	C	3.0	3.2	3.3	3.4	3.2	3.3	3.0	2.4							
5								B	2.6	3.0	A	A	3.2	3.3	3.2	2.9	2.4							
6								B	2.5	3.0	(3.1) ^A	3.1	(3.2) ^A	3.2	3.2	2.8	A							
7								1.6	A	A	A	A	3.2	3.3	3.0	2.9	A							
8								1.5	A	2.9	3.0	3.0	3.3	3.3	3.0	2.8	2.7	1.9						
9								B	A	(2.9) ^A	(3.0) ^A	3.2	3.3	3.3	3.2	2.6	2.4							
10								B	B	3.1	3.0	3.1	3.5	3.5	(3.4) ^A	A	2.4	A						
11								1.9	2.5	3.1	3.4	3.6	3.6	3.5	3.3	3.2	B	B						
12								B	(2.5) ^A	3.2	3.3 ^B	3.7	3.7	(3.2) ^A	3.3	3.2	A	1.7						
13								B	2.6	3.2	3.3	3.4	(3.5) ^A	3.6	3.6	3.2	A	1.9						
14								1.8	2.8	3.1	(3.2) ^A	3.4	3.5	3.5	3.4	B	B							
15								B	2.8	3.3	3.4	3.7	(3.5) ^A	3.7	3.6	3.2	2.7							
16								B	A	3.1	3.2	3.6	(3.6) ^A	3.6	3.6	3.3	2.9							
17								B	3.0	3.3	3.5	(3.6) ^B	3.7	B	B	3.3	2.9							
18								2.0	2.9	3.2	3.6	(3.6) ^A	3.7	B	A	A	2.6 ^A	B						
19								B	B	(3.3) ^A	(3.5) ^A	3.7	A	A	A	3.2	2.9	A						
20								1.9	2.9	3.2	3.6	3.8	3.7 ^B	(3.4) ^A	3.2 ^J	3.0 ^A	2.8							
21								2.0	3.0	3.3	A	3.7	3.7	3.8	3.7	3.4	2.9	B						
22								1.9	(2.6) ^B	3.1	3.5	3.7	(3.7) ^A	3.7	A	A	A	A						
23								1.9	3.0	3.2	3.2	3.6	B	B	B	3.7	A	A						
24								B	2.6	(3.1) ^C	3.6	3.6	(3.6) ^A	3.6	3.3	A	A							
25								B	2.9	3.2	3.5	A	B	3.7	3.7	3.3	2.8							
26								(2.2) ^A	2.8	3.3	3.5	3.6	3.7	A	3.4	3.2	2.7							
27								1.9	2.6	3.3	3.6	3.6	(3.6) ^A	3.6	3.3 ^A	3.0 ^J	A							
28								2.0	2.5	3.3	3.6 ^A	3.7 ^A	3.8	3.8	3.5	(3.1) ^A	2.7							
29								2.0	2.7	3.2	3.4	3.7	3.7	3.7	3.4	3.0	2.6 ^B	1.9						
30																								
31																								
Mean Value								1.9	2.7	3.1	3.3	3.5	3.5	3.4	3.3	3.1	2.7	1.9						
Median Value								1.9	2.6	3.2	3.4	3.6	3.6	3.5	3.3	3.0	2.7	1.9						
Count								13	22	27	25	26	26	24	24	24	19	4						

foE

Sweep 10. Mc to 172. Mc in 2 min

Manual

Automatic

K 6

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

Lat. 35° 42.4' N
Long. 139° 28.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

Feb. 1956

K'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	110	120	120	110	110	110	120	110	120								
2								B	120	110	110	110	110	110	120	110	130								
3								B	110	A	A	120	110	120 ^A	120	120	A								
4								C	120	120	110	110	120	120	110	120	120								
5								B	110	110	A	A	110	110	110	110	120								
6								B	120	100	110	110	(110) ^M	110	110	110	A								
7								140	A	A	A	A	110	120 ^A	120	120	A								
8								120	A	110	110	110	110	110	110	110	120	130							
9								B	A	120	(120) ^M	110	110	110	110	110	120								
10								B	110	110	110	110	110	110	110	A	120	A							
11								130	120	110	110	A	110	120	120	120	B	B							
12								B	120	110	110	110	110	110	110	110	A	130							
13								B	110	110	120	120	(120) ^M	120 ^A	(120) ^M	120	A	140							
14								130	110	110	(110) ^M	110	110	110	110	B	B								
15								B	120	120	110	110	110	110	(110) ^B	110	110								
16								B	A	110	110	110	(110) ^M	110	110	120	120								
17								B	110	110	110	(110) ^B	110	B	B	120	120								
18								130	120	110	110	110	110	B	A	A	A	B							
19								130	(120) ^B	110	(110) ^A	110	A	A	A	120 ^A	120	A							
20								130	110	120 ^A	110	110	110	110	110	110	A	120 ^A							
21								130	110	110	A	110	110	110	110	120	120	130							
22								130	110	110	110	110	(110) ^A	110	A	A	A	A							
23								120	120	110	110	110	B	B	B	130	A	A							
24								120	120	(120) ^C	110	110	(110) ^M	110	110	A	A								
25								120	110	110	110	A	B	110	110	120	120								
26								110	110	120	110	110	110	A	110	110	110								
27								120	110	110	110	110	(110) ^M	110	(110) ^M	110	A								
28								130	110	110	A	A	110	110	110	(110) ^M	110								
29								120	110	110	110	110	110	110	110	110	110	120							
30																									
31																									
Mean Value								130	110	110	110	110	110	110	110	120	120	130							
Median Value								130	110	110	110	110	110	110	110	110	120	130							
Count								16	23	27	24	24	26	24	24	23	17	5							

K'E

K 7

Group 1, D... Mc to 172... Mc in 2... min
 Manual Automatic

Kokubunji Tokyo

IONOSPHERIC DATA

Feb. 1956

fEs

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	3.6 ^Y	E	3.4	2.4 ^Y	E	E	E	2.0	3.7	3.8	5.0	5.3	3.8	4.0	3.2	5	3.4	E	E	E	E	E	E	E	
2	2.6	E	2.5	3.0	2.1	E	E	B	3.5	3.7	3.6	4.1	3.9	5	5	3.5	2.4	E	E	E	E	E	2.6	2.5	
3	2.4	1.7	2.4	2.0	E	E	E	B	3.0	6.0	4.5	4.5	3.9	4.5	5	3.5	3.7	3.0	3.1	6.2	5.6	2.3	E	E	
4	E	2.9	2.3	2.1	2.0	E	C	C	C	5	5	4.0	5	3.7	5	3.5	3.5	E	E	2.5	4.8	3.9	E	2.3	
5	2.1	E	2.1	2.1	1.6	E	E	5	3.2	3.8	4.6	3.7	5	5	5	5	5	1.6	E	E	E	E	E	3.7	
6	3.0	E	2.1 ^Y	E	2.3 ^Y	E	E	B	3.7	3.5	3.8	4.0	3.7	5	5	5	3.0	2.1	3.6	2.4	2.3	2.5	E	E	
7	E	E	2.0 ^Y	2.2	1.7	E	E	5	3.0	3.9	3.9	4.0	5	3.1	2.4	2.8	3.0	E	E	E	2.4	2.1	E	3.0	
8	3.0	E	E	E	2.0 ^Y	E	E	2.7	3.2	3.6	3.6	3.5	5	5	5	5	5	5	E	E	E	E	E	E	
9	E	E	2.4	2.5	2.3	E	E	B	2.8	3.2	3.4	5	5	5	5	2.8	5	2.0	E	E	E	E	E	E	
10	E	E	E	2.7 ^Y	E	E	E	5	B	5	5	3.5	5	5.0	3.8	4.5	3.6	3.9	5.7	3.0	2.8	3.9	3.8	E	
11	E	3.0 ^Y	2.1 ^Y	3.0	2.3 ^Y	E	E	5	3.1	3.7	3.5	4.6	4.6	3.6	5	5	B	5	2.4 ^Y	E	E	E	E	E	
12	2.9 ^Y	E	E	E	E	E	E	5	3.0	5	3.6	5	5	3.5	5	5	2.6	5	5	E	E	E	E	E	
13	E	E	E	E	E	E	E	5	3.6	5	3.9	4.7	4.5	3.4	3.8	5	3.9	5	2.3 ^Y	E	E	E	E	E	
14	E	E	E	E	2.7	E	E	5	3.0	5	3.5	3.7	3.6	3.6	3.6	B	B	3.0	2.5	E	E	E	E	2.4	
15	E	1.7	1.6 ^Y	2.1 ^Y	E	E	E	5	5	3.5	3.7	4.5	3.7 ^Y	5	5	5	5	2.9	E	E	2.5 ^Y	2.4 ^Y	E	E	
16	E	E	E	E	E	E	E	5	3.2 ^Y	5	5	3.7	3.7	5	5	5	5	2.3 ^Y	E	E	E	E	E	E	
17	E	E	E	E	E	E	E	5	5	5	5	5	3.8	B	5	5	5	E	E	E	E	E	E	4.8	
18	E	E	E	E	E	E	E	5	5	4.3	4.7	5.0 ^Y	5	B	4.4	3.7	3.3	B	E	2.9	3.0	E	E	E	
19	1.9	E	E	2.2 ^Y	2.2 ^Y	E	E	5	B	3.8	4.0	5	4.8	3.7	4.5	3.7	2.7	3.1	E	E	E	E	E	E	
20	E	E	E	E	E	E	E	5	5	3.2	5	4.7	5	4.5	5	3.6	2.4	2.4	2.4 ^Y	E	E	2.3 ^Y	E	E	
21	E	E	2.5	2.1	1.5	E	E	5	5	5	3.5	5.2	4.5	4.5	5	3.5	3.0	5	E	E	E	E	E	E	
22	E	E	4.5	3.0	2.9	E	E	5	5	3.7	5	5	6.1	5	3.7 ^Y	3.4	3.6	2.9	3.2	2.5	E	2.1 ^Y	E	E	
23	E	2.6	2.0 ^Y	2.1 ^Y	E	E	E	5	5	5	5	5	B	B	B	5	3.6	2.4	E	E	E	E	E	3.8	
24	2.4	E	E	2.4	E	E	E	2.8	4.5	C	4.0	4.1	4.9	4.5	4.5	3.2	3.5	E	E	E	E	E	E	2.4	
25	E	E	1.7	2.0 ^Y	1.7	E	E	5	3.9	3.8	3.8	4.0	B	5	5	3.6	5	E	E	E	2.4 ^Y	2.9	2.6	2.7	
26	2.6	2.7	C	C	C	C	C	5.5	5.6	5.1	5.0	5.0	5.3	6.2	3.5	3.8	5	E	E	E	E	E	E	2.6 ^Y	
27	E	E	E	E	3.2	E	2.4	5	3.2	3.7	3.9	3.5	4.5 ^Y	4.4	4.3	5	3.6	3.2	E	2.2 ^Y	3.1	3.2	2.4	3.8	
28	3.1	3.2 ^Y	2.6	3.3 ^Y	E	2.0 ^Y	E	2.4	3.0	3.7	4.4 ^Y	4.8	5	5.2	10.9 ^Y	8.8 ^Y	4.1	2.4	2.9	3.3	4.0	2.9 ^Y	E	E	
29	E	E	E	2.1	1.9	E	E	3.0	3.2	4.4	5.4	5.5	5.9	5.9	4.5	3.5	5	5	E	2.5	2.4	2.5	2.4	E	
30																									
31																									
Mean Value	2.7	2.5	2.4	2.4	2.2	2.0	2.4	3.1	3.4	3.9	4.1	4.3	4.4	4.3	4.4	3.8	3.1	2.7	3.1	3.0	3.2	2.8	2.6	3.1	
Median Value	E	E	1.8	2.1	E	E	E	5	3.0	3.6	3.7	4.0	3.7	3.6	5	3.0	3.0	5	2.8	2.9	2.9	2.9	2.9	2.9	
Count	29	29	28	28	28	28	27	24	26	28	29	29	27	27	27	28	28	28	28	29	29	29	29	29	29

fEs

Sweep 1.0 Mc to 17.2 Mc in 2 min

Manual

Automatic

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

Lat. 35° 42.4' N
Long. 139° 28.3' E
Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

Feb. 1956

(M3000)F2

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	3.1	3.1	3.3	2.9	3.0	3.2	3.5	3.3	3.3 ^P	3.6	3.2	3.2	3.5	3.1	3.3	3.3	3.3	3.1	3.2	3.2	3.1	2.8	2.7	
2	3.1	3.2	3.3	2.9	2.8	3.0	3.3 ^P	3.3	3.4	3.1	3.3	3.3	3.3 ^P	3.2	3.3 ^P	3.4	3.4	3.3	3.2	3.3	3.4	3.1	2.8	2.6	
3	2.8	3.1	3.1	3.0	2.9	2.9	3.2 ^S	3.3	3.5	3.2	3.4	3.3	3.5	3.2	3.3	3.2	3.5	3.4	3.1	3.3	[3.2] ^A	3.0	2.9	2.8	
4	2.9	2.9	3.2	3.0	2.8	2.9	C	C	C	3.2	3.2	3.2 ^P	3.4 ^P	3.4	3.5	3.1	3.4	3.4	(3.3) ^P	3.1	3.1	3.4	3.1	2.8 ^F	
5	3.1	2.9	3.2	3.1	3.1	3.2	3.3	3.5	3.5	3.5	3.3	3.2	3.4	3.4	3.3 ^P	3.2	3.4	3.4	3.0	3.5	3.6	2.9	3.0	[2.8] ^A	
6	2.7	2.8	3.1	3.2	3.5	3.0	3.2	3.5	3.3	3.4	3.3	3.2	3.4	3.3	3.3	3.3	3.3	3.4	3.1	3.2	3.4	2.7	2.8	2.8	
7	2.9	3.0	3.0	3.2	3.3	2.9	3.3	3.5	3.6	3.3	3.1	3.1	3.2	3.5	3.3	3.2	3.6	3.5	3.1	3.3	3.5	3.3	3.0	[2.8] ^A	
8	2.7	2.9	2.9	3.1	3.2	3.0	3.0	3.5	3.6	3.2	3.5	3.3	3.5	3.6	3.3	3.5	3.5	3.5	3.1	3.2	3.3	3.3	3.0	2.8	
9	2.7	2.8	3.0	3.2	3.0	2.9	3.0	3.5	3.7	3.4	3.3	3.2	3.3 ^P	3.4	3.4	3.3	3.3	3.4	3.1	3.2	3.3	3.3	2.9	2.7	
10	2.7	2.8	3.0	3.1	3.6	2.9 ^H	3.0	3.5	3.5	3.4	3.3	3.2	3.2	3.3	3.3	3.3	3.4	3.4	3.1	3.2	3.4	3.0	2.9	2.8	
11	2.8	3.0	3.0	3.2	3.1	3.1	2.9	3.5	3.6	3.3	3.2	3.0	3.3	3.3	3.3	3.2	3.4	3.4	3.2	3.0	2.9	2.9	2.9	2.7	
12	2.7	2.8	3.0	2.9	3.1	2.7	2.9	3.5	3.3	3.3 ^P	3.2	3.2	3.3	3.1	3.2	3.1	3.2	3.3	3.3	3.0	3.0	2.9	2.6	2.8	
13	3.1	3.3	3.1	2.9	2.7	2.8	2.9	3.4	3.4	3.3	3.3	3.1	3.2	3.1	3.0	3.2 ^P	3.3	3.1	3.3	3.0	3.2	3.1	2.8	2.6	
14	2.6	2.9	3.1	3.0	2.9	2.8	3.1	3.3	3.5	3.4	3.4	3.2	3.0	3.3	3.2	3.1	3.3	3.4	3.3	3.0	2.8	2.9	3.0 ^F	[2.7] ^F	
15	3.2 ^F	3.0 ^F	2.8	3.1	3.4	2.7 ^F	2.9	3.4	3.3	3.3	3.2	3.2	3.1	3.2 ^P	3.0	3.2	3.1	3.3	3.2	3.1	2.9	3.0	2.7	2.7	
16	2.6	2.7	2.7	3.0	3.2	2.6	2.9	3.4	3.3	3.3	3.4	3.1	3.1	3.1 ^P	3.1	3.0	3.1	3.1	3.3	2.9	2.7	2.7	2.6	2.7 ^P	
17	2.6	2.6	2.9	2.8	2.7	2.6	2.7	3.2	3.2	3.3	3.2	3.1	2.9 ^H	3.0	3.2 ^P	3.1	3.1	3.1	3.3	3.0	2.9	2.9	2.8	2.6	
18	2.6	2.8	3.0	3.1	3.0	2.8	2.8	3.5 ^P	3.2	3.3	3.2	3.1	3.1	3.0	3.1 ^P	3.1	3.2	3.2	3.1	2.9	3.0	3.0	2.8	2.9	
19	2.9	2.7	2.8	2.7	2.7	2.8	3.1	3.5	3.3	3.3	3.2	3.1	3.0	3.0	3.1	3.0 ^P	3.2	3.1	3.1	3.0	3.1	3.0	2.7	2.4	
20	2.6	2.9	3.1	3.1	2.7	2.6	2.8	3.4	3.3	3.3	3.1	(3.1) ^B	3.0 ^H	3.1 ^P	3.2	3.1	3.2	3.2	3.1	3.0	3.1	3.0	2.9	2.9	
21	2.5 ^F	2.6	2.8	3.3	3.4 ^H	2.7	2.8	3.3 ^P	3.2	3.2	3.1	3.1 ^H	3.1	3.0	3.0	3.2	3.2	3.1	3.1	3.1	3.0	3.0	3.0 ^P	3.0	2.9
22	2.9	2.8	2.9	2.9	3.2	2.9	2.9	3.4	3.4	3.3	3.3	3.0	3.0	3.0	3.1	3.0	3.1	3.1	3.0	3.2	3.0	2.9	2.8	2.8	
23	2.6	2.7	2.7	2.8	3.2	3.1	2.9	3.3	3.4	3.2	3.0	3.1	3.0	B	3.0	3.0	3.1	3.1	3.1	3.0	3.1 ^P	2.8	2.9	2.8	
24	2.9	3.0	3.0	2.7	2.7	2.7	2.9	3.4	3.4	[3.3] ^C	3.2	3.0	3.2	3.0	3.1	3.1	3.2	3.3	3.2	3.1	2.9	3.0	3.2	2.9	
25	3.0	3.0	3.3	3.1	2.8	2.7	3.0	3.4	3.5	3.3	3.2 ^P	3.1 ^P	3.2	3.1	3.2	3.0	3.1	3.1	3.1	3.3	3.1	3.0 ^F	2.4	2.4	2.4
26	2.4	2.7	C	C	*C	C	C	3.0	3.3	(3.2) ^P	3.1	B	3.1	3.0	3.0	3.1	3.1 ^P	3.2	3.2	3.0	2.8	2.6 ^F	2.6	2.5	
27	2.5	2.7	3.1	3.3	2.6 ^H	2.6	3.0	3.4	3.2	3.2	3.2 ^P	3.1	3.1	3.1	3.1	3.2	3.1	3.2	3.1	3.1	3.1	3.0	2.8	2.9	
28	2.9	3.0	3.1	3.5	3.4	2.7	2.7	3.3	3.4	3.3	3.2	3.1	(3.1) ^H	3.2	3.0	3.1	3.2	3.2	3.1	2.9	3.0	2.9	2.7	2.9	
29	3.2	3.1	2.9	2.7	2.7	2.7	3.1	3.3	3.3	3.2	3.1	3.2	3.0	3.1	3.2	3.1	3.2 ^P	3.3	3.1	2.7	2.8 ^P	2.8	2.9	2.6	
30																									
31																									
Mean Value	2.8	2.9	3.0	3.0	3.0	2.8	3.0	3.4	3.4	3.3	3.2	3.1	3.2	3.2	3.2	3.2	3.3	3.3	3.2	3.1	3.1	2.9	2.8	2.7	
Median Value	2.8	2.9	3.0	3.1	3.0	2.8	3.0	3.4	3.4	3.3	3.2	3.1	3.2	3.2	3.2	3.1	3.2	3.3	3.1	3.1	3.0	3.0	2.8	2.8	
Count	2.9	2.9	2.8	2.8	2.8	2.8	2.7	2.8	2.8	2.9	2.9	2.8	2.9	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	

(M3000)F2

Sweep 1.0 Mc to 17.2 Mc in 2 min
 Manual Automatic

K 9

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

Lat. 35° 42.4' N
Long. 139° 28.3' E

Kokubunji 'okyo

IONOSPHERIC DATA

Feb. 1956

f min F

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	1.2	1.3	E	E	E	E	1.5 ^S	1.9	2.5	3.3	3.5	3.6	3.8	3.5	3.3	3.0	2.5	2.1	1.5	1.4	1.5	2.0	1.4	1.5	
2	1.5	1.3	E	E	E	1.1	1.6	2.0	2.7	3.1	3.3	3.4	3.4	3.3	3.5	2.8	2.4	2.0	2.0	1.6	1.4	1.8	1.5	1.5	
3	2.1	1.3	1.3	E	E	1.4	1.8 ^S	2.1	2.5	4.2 ^A	3.5	3.5	3.5	3.5	3.3	3.1	2.8	2.5	2.7 ^A	4.1 ^A	(2.8) ^A	1.5	1.7	1.4	
4	1.3	1.4	1.6	1.2	E	1.0	C	C	C	3.2	3.2	3.3	3.5	3.3	3.3	3.3	2.6	1.9	1.5	1.5	1.6	1.7	1.3	1.5	
5	1.4	1.3	1.3	1.3	E	1.0	1.5	1.8	2.6	3.1	3.3	3.5	3.5	3.7	3.3	3.0	2.5	2.0	1.5	1.5	1.9	1.5	1.5	(1.4) ^A	
6	1.3	1.3	E	E	E	1.0	1.5	2.1	2.5	3.3	3.6	3.5	3.6	3.5	3.3	2.9	2.6	2.0	1.8	1.5	1.5	1.5	1.5	1.2	
7	1.3	1.0	E	E	E	1.0	1.3	2.0	2.7	2.9	3.5	3.6	3.7	4.0	3.4	3.0	2.6	1.9	1.5	1.4	1.5	1.7	1.9	(2.1) ^A	
8	2.3 ^A	1.4	E	E	E	1.0	1.5	2.1	2.5	3.0	3.3	3.4	3.4	3.3	3.3	2.8	2.5	2.0	1.3	1.4	1.3	1.2	1.3	1.3	
9	1.0	1.3	1.0	E	E	1.0	1.3	1.4	2.1	2.6	3.4	3.4	3.5	3.8	3.3	3.0	2.6	2.0	1.5	1.4	1.3	1.2	1.9	1.4	
10	1.3	1.3	E	E	E	1.0	1.3	2.2	3.2	3.3	3.7	3.5	3.5	3.6	3.4	3.3	2.8	2.2	3.7 ^A	1.9	1.5	2.5 ^A	2.5 ^A	1.5	
11	1.4	1.2	E	E	E	1.0	1.5	2.5	3.1	3.4	4.0	4.0	4.0	3.7	3.3	3.3	3.4	2.1	1.5	1.8	1.3	1.2	1.9	1.4	
12	1.3	1.3	E	E	E	1.3	1.5	2.2	2.6	3.7	3.4	3.7	3.8	3.5	3.4	3.2	2.5	2.0	1.3	1.3	1.3	1.9	1.1	1.5	
13	1.3	1.0	E	E	E	1.0	1.3	2.4	2.8	3.3	3.7	4.0	4.0	3.6	3.7	3.3	3.3	2.2	1.5	1.4	1.4	1.4	1.3	1.8	
14	1.2	1.3	E	E	E	1.0	1.5	2.3	3.0	3.3	3.4	4.0	4.0	3.8	3.5	4.9	3.3	2.5	2.5	1.3	1.5	1.5	1.5	1.3	
15	1.0	1.0	E	E	E	1.0	1.5	2.6	3.0	3.6	4.0	3.8	4.0	4.0	4.0	3.3	2.9	2.1	1.5	1.4	1.5	1.7	2.0	1.0	
16	1.3	1.3	E	E	E	1.0	1.3	2.5	2.9	3.5	4.0	3.7	4.1	3.7	3.6	3.3	2.9	2.2	1.5	1.5	1.4	1.4	1.4	1.5	
17	1.3	1.3	E	E	E	1.0	1.5	2.3	3.1	3.3	3.7	4.1	4.0	4.3 ^B	4.0 ^B	3.3	2.9	2.2	1.3	1.8	1.5	1.4	2.0	2.1	
18	1.2	1.3	E	E	E	1.0	1.5	2.5	2.9	3.5	3.7	4.0 ^A	4.0	4.0	4.9	3.7	3.3	2.8	2.3	1.3	1.6	2.1	1.3	1.4	1.5
19	1.4	1.4	E	E	E	1.0	1.4	2.4	3.2	3.4	3.7	4.0	4.0	4.0	3.7	3.4	2.9	2.3	1.4	1.3	1.3	1.4	1.7	1.5	
20	1.3	1.2	E	E	E	1.0	1.4	2.4	2.9	3.5	4.0	4.0	4.1	4.0	3.9	3.4	2.9	2.2	1.5	1.5	1.3	1.5	1.4	1.5	
21	1.3	1.4	1.0	E	E	1.1	1.5	2.5	3.1	3.5	4.1	4.0	4.0	4.0	4.0	3.4	3.0	2.4	1.9	1.2	1.7	1.7	1.4	1.4	
22	1.2	1.3	2.6 ^A	E	E	1.6	1.3	2.5	3.1	3.4	3.7	4.0	4.3 ^A	3.9	4.0	3.3	2.8	2.4	2.4	1.7	1.8	1.3	1.4	1.2	
23	1.9	1.0	E	E	E	1.0	1.5	2.5	3.1	3.5	3.6	4.0	4.0	B	4.7 ^B	3.7	3.0	2.2	1.5	1.4	1.3	1.5	1.4	2.5	
24	1.7	1.0	1.0	1.4	E	E	1.6	2.5	3.0	(3.4) ^C	3.7	4.0	4.0	4.0	3.6	3.4	3.0	2.3	1.5	1.4	1.4	1.5	1.5	1.8	
25	1.3	1.4	E	E	E	1.0	1.4	2.6	3.1	3.5	3.8	3.8	3.9	4.0	4.0	3.5	2.9	2.4	1.4	1.5	1.7	1.9	1.9	1.7	
26	1.9	1.6	C	C	C	C	C	4.0	5.0 ^A	4.3 ^A	4.0	4.0	4.1	4.3	3.7	3.5	2.8	2.3	1.4	1.6	1.4	1.5	1.5	1.6	
27	1.3	1.4	E	E	E	1.0	1.6	2.5	3.3	3.6	3.7	3.7	4.0	4.1	3.9	3.5	2.8	2.5	1.5	1.5	1.7	1.7	2.0	2.0	
28	2.1 ^A	1.0	1.1	E	E	1.2	1.4	2.5	3.5	3.7	3.8	4.1	4.1	4.4	7.3 ^A	3.4	3.2	2.4	2.1	1.9	3.5 ^A	2.0	2.0	1.3	
29	1.0	1.0	E	E	E	1.0	1.5	2.4	3.2	3.7	4.4	4.7 ^A	5.4 ^A	5.0 ^A	3.9	3.3	2.9	2.3	1.4	2.0	1.8	1.7	1.7	1.6	
30																									
31																									
Mean Value	1.4	1.3	1.3	1.1	1.2	1.1	1.5	2.4	3.0	3.4	3.7	3.8	4.0	3.9	3.8	3.3	2.8	2.2	1.7	1.6	1.6	1.6	1.6	1.6	
Median Value	1.3	1.3	E	E	E	1.0	1.5	2.4	3.0	3.4	3.7	3.8	4.0	3.8	3.6	3.3	2.8	2.2	1.5	1.5	1.5	1.5	1.5	1.5	
Count	29	29	28	28	28	28	28	28	28	29	29	29	29	28	29	29	29	29	29	29	29	29	29	29	

Energy 1.0 Mc to 17.2 Mc in 2 min Manual Automatic

f min F

K 10

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

Lat. 36° 42.4' N
Long. 139° 28.8' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

fminE

Feb. 1956

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	1.1	E	E	E	E	E	E	1.4	1.3	1.4	2.2	1.5	1.6	1.8	1.9	1.6	1.4	E	E	E	E	E	E	E	
2	1.2	E	E	E	E	E	E	1.5	1.3	1.5	1.5	1.4	1.5	2.1	2.0	1.4	1.4	E	E	E	E	E	E	E	
3	1.1	1.1	E	E	E	E	E	1.3	1.5	1.5	1.5	1.3	1.4	1.4	2.3	1.7	1.5	2.1	1.5	1.2	1.5	1.3	E	E	
4	E	1.2	E	E	E	E	C	1.4	C	1.4	1.4	1.6	1.4	1.4	1.7	2.0	1.5	E	E	1.4	1.4	E	E	1.5	
5	1.2	E	E	E	E	E	E	1.3	1.3	1.4	1.3	1.5	1.5	1.3	1.5	1.4	1.6	1.5	E	E	E	E	E	1.5	
6	1.0	E	E	E	E	E	E	1.4	1.4	1.5	2.1	1.6	1.6	1.7	1.5	1.4	1.4	1.4	1.5	1.9	1.6	1.4	E	E	
7	E	E	E	E	E	E	E	1.4	1.4	1.5	1.5	1.4	1.5	1.5	1.4	1.5	1.4	E	E	E	1.6	1.6	E	1.4	
8	1.4	E	E	E	E	E	E	1.2	1.4	1.4	1.2	1.5	1.8	1.6	1.4	1.5	1.5	1.3	E	E	E	E	E	E	
9	E	E	1.0	1.3	E	E	E	1.5	2.1	1.5	1.5	1.7	1.7	1.5	1.5	2.0	2.0	1.4	E	E	E	E	E	E	
10	E	E	E	1.0	E	E	E	1.4	B	2.1	1.8	1.8	2.1	2.1	2.0	2.0	1.6	1.4	1.4	1.4	1.6	1.4	1.4	E	
11	E	1.4	E	E	E	E	E	1.4	2.2	1.5	2.0	1.7	2.0	2.2	1.8	2.1	1.6	1.4	1.3	E	E	E	E	E	
12	1.4	E	E	E	E	E	E	1.4	1.6	1.4	2.1	1.5	1.8	2.4	1.6	1.5	1.9	1.4	E	E	E	E	E	E	
13	E	E	E	E	E	E	E	1.4	1.4	1.4	1.4	1.4	1.8	1.9	2.3	1.6	1.4	1.5	1.3	E	E	E	E	E	
14	E	E	E	E	E	E	E	1.5	1.3	2.1	2.0	2.1	1.5	2.2	2.1	B	B	1.4	1.6	E	E	E	E	1.1	
15	E	1.4	E	1.4	E	E	E	2.1	2.1	2.1	1.5	1.5	1.5	2.3	3.4	1.8	1.6	1.4	E	E	1.5	1.6	1.4	E	
16	E	E	E	E	E	E	E	1.9	1.4	1.4	1.0	1.4	2.2	1.9	2.2	2.1	2.1	1.5	E	E	E	E	E	E	
17	E	E	E	E	E	E	E	1.4	1.4	2.1	2.1	2.4	2.2	3.3	[2.7] ^B	2.1	1.9	E	E	E	E	E	E	1.3	
18	E	E	E	E	E	E	E	1.4	1.9	1.4	1.5	2.0	1.6	B	1.7	2.0	1.9	B	E	1.0	1.0	E	E	E	
19	1.2	E	1.6	1.0	E	E	E	1.5	[1.5] ^B	1.5	1.9	1.9	2.4	2.2	2.1	1.3	1.5	1.3	E	E	E	E	E	E	
20	E	E	E	E	E	E	E	1.3	1.5	1.9	2.1	2.1	2.7	2.2	2.2	2.0	1.6	1.5	1.1	1.4	E	E	E	E	
21	E	E	E	E	E	E	E	1.3	1.4	1.5	1.5	2.1	2.0	2.4	2.4	2.0	2.0	1.5	E	E	E	E	E	E	
22	E	E	E	E	E	E	E	1.3	1.4	1.4	1.5	1.6	1.8	1.6	1.6	1.5	1.3	1.4	1.1	1.3	E	E	E	E	
23	E	1.2	E	E	E	E	E	1.4	2.1	1.4	1.5	1.4	B	B	B	2.5	2.0	1.3	E	E	E	E	E	1.2	
24	1.3	E	E	E	E	E	E	1.3	1.8	[2.0] ^C	2.1	2.4	2.9	2.3	2.2	1.8	1.7	E	E	E	E	E	E	1.8	
25	E	E	1.4	1.5	E	E	E	1.5	1.5	1.6	2.3	1.7	B	2.2	2.0	1.6	1.5	E	E	E	1.2	1.2	1.4	1.1	
26	1.4	E	C	C	C	C	C	1.7	1.5	2.0	1.7	1.7	2.2	2.2	2.2	1.6	1.5	E	E	E	E	E	E	1.5	
27	E	E	E	E	E	E	E	1.3	1.5	1.7	1.7	2.0	3.3	1.5	2.2	1.8	1.6	1.4	E	1.4	1.2	1.4	1.4	1.4	
28	1.0	1.1	1.0	E	E	E	E	1.4	1.4	1.4	1.5	1.5	1.7	1.7	1.6	1.4	1.3	1.3	1.3	1.2	1.4	1.5	E	E	
29	E	E	E	E	E	E	E	1.4	1.3	1.5	1.7	1.9	1.6	2.0	1.9	1.8	1.5	1.5	E	1.4	1.1	1.3	1.3	E	
30																									
31																									
Mean Value	1.2	1.2	1.3	1.2	1.3	1.0	1.3	1.5	1.5	1.6	1.7	1.7	1.9	1.9	2.0	1.8	1.6	1.4	1.3	1.4	1.4	1.4	1.4	1.4	
Median Value	E	E	E	E	E	E	E	1.4	1.4	1.5	1.5	1.6	1.8	2.0	2.0	1.8	1.6	1.4	E	E	E	E	E	E	
Count	29	29	28	28	28	28	27	24	27	29	29	29	27	27	28	28	28	28	29	29	29	29	29	29	

fminE

Group 1-0 Mc to 7.2 Mc in 2 min

Manual Automatic

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

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

Feb. 1956

YF2

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	70	70	60	70	70	60	90	70	80	60 ^P	70	70	80	80	70	80	80	70	90	80	80	60	50	60
2	60	40	90	100	70	90	80 ^P	60	40	70	70	90	80 ^P	70	70 ^P	60	50	80	50	80	60	70	40	70
3	70	50	70	110	40	60	80 ^S	90	60	50	50	70	60	80	80	60	40	80	60	60	60 ^A	70	90	80
4	80	60	50	90	90	80	C	C	C	50	70	80 ^P	60 ^P	60	70	80	50	60	60	100	70	60	50	50 ^F
5	40	70	60	90	90	80	100	70	60	60	60	60	80	80	50 ^P	90	50	60	90	60	50	80	80	70 ^A
6	60	50	50	60	60	60	90	70	70	50	60	60	40	50	80	50	90	50	70	60	60	60	80	70
7	60	80	60	80	80	70	70	40	50	80	80	80	70	40	70	70	40	50	90	50	50	70	60	70 ^A
8	80	70	80	70	90	90	80	60	40	130	50	50	50	50	70	40	50	40	80	50	70	70	90	60
9	70	60	60	80	90	80	80	60	40	50	70	60	70 ^P	60	60	50	70	80	90	60	90	80	60	70
10	60	70	50	60	40	90 ^H	90	40	60	50	80	60	70	50	50	40	50	70	90	80	70	70	60	50
11	50	60	70	90	70	90	90	40	50	60	70	80	60	60	60	80	60	60	70	80	90	70	70	70
12	80	80	70	80	80	80	80	60	80	50 ^P	80	70	60	70	70	80	80	50	80	70	60	70	100	70
13	70	60	60	90	80	90	60	50	50	80	50	60	60	80	70	60 ^P	70	90	90	60	50	70	80	90
14	90	70	60	70	60	90	60	70	40	50	50	70	70	60	70	70	60	40	80	90	80	80	70 ^F	70 ^F
15	40 ^P	40 ^F	80	70	80	70 ^F	50	60	40	60	50	70	60	60 ^F	80	60	80	50	60	80	90	70	70	80
16	80	70	70	80	90	100	70	50	90	50	50	70	70	90 ^P	60	60	60	60	70	120	130	80	70	70 ^P
17	100	80	90	120	100	90	90	80	80	60	90	70	90 ^H	60	60 ^P	50	70	80	50	90	90	70	70	60
18	70	60	60	70	100	60	80	50 ^T	80	80	50	100	50	90	70 ^F	90	60	80	90	80	80	90	70	40
19	60	90	80	90	100	90	100	50	70	60	70	60	60	40	70	80 ^P	70	80	80	70	70	70	80	90
20	100	50	60	70	100	110	90	80	80	50	60	(70) ^B	40 ^H	60 ^P	60	60	70	60	70	70	90	50	80	60
21	90 ^F	90	90	60	70 ^H	80	90	70 ^F	70	40	50	60 ^H	50	40	70	60	70	80	90	80	70	80 ^P	50	50
22	70	70	60	70	60	60	90	40	50	60	80	80	50	40	50	70	70	60	80	50	80 ^F	50	70	100
23	70	70	70	90	60	60	130	80	50	80	70	50	50	30	60	70	60	60	60	60	90 ^P	100	70	70 ^F
24	70	60	60	90	80	100	70	50	50	[60] ^C	70	60	40	50	40	70	70	50	80	60	90	70	50	40
25	40	50	70	90	80	70	80	50	50	70	50 ^P	50 ^P	60	50	60	70	60	60	50	60	70 ^P	70	90	120
26	90	70	C	C	C	C	C	60	60	(60) ^F	60	30	40	50	50	50	60 ^P	70 ^P	70	80	80	90 ^F	70	80
27	80	60	50	90	100	100	70	60	80	60	50 ^P	50	50	60	50	60	60	60	60	60	70	70	60	80
28	80	70	90	40	140	80	100	70	60	70	80	70	(50) ^H	40	80	80	90	80	80	70	60	70	80	80
29	60	80	80	70	80	60	70	70	80	80	70	70	40	60	60 ^P	50	60 ^P	50	70	100	90 ^P	80	80	80
30																								
31																								
Mean Value	70	70	70	80	80	80	80	60	60	60	60	60	60	60	60	60	60	60	60	70	80	70	70	70
Median Value	70	70	60	80	80	80	80	60	60	60	60	70	60	60	60	60	60	60	60	70	80	70	70	70
Count	29	29	28	28	28	28	28	27	28	28	29	29	29	28	29	29	29	29	29	29	29	29	29	29

YF2

Swapp. 1.0 Mc to 17.2 Mc in 2 min

Manual

Automatic

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

Lat. 35° 12.6' N
Long. 139° 37.7' E

Yamagawa

IONOSPHERIC DATA

135° E Mean Time

Feb. 1956

foF2

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	4.6	4.0	3.4	3.3	3.3	4.1	4.7	6.8	7.2	10.0	10.0 ^S	10.0	8.7	10.1 ^S	S	7.6	7.4	7.5	7.3	5.9	3.5	3.1	3.4
2	3.6	3.4	4.1	2.9	2.6	2.8	3.3	4.0	7.7	8.6	11.2	1.35	12.2	12.5	12.5	9.2	8.2	7.3	6.3	6.4	6.0	5.3	3.5	3.0
3	3.2	4.1 ^J	3.1	2.2	2.5	2.6	2.7	4.1	7.4	7.5	8.4	1.1	12.0	11.5	11.2	10.1 ^S	10.2	9.9 ^S	5.7	5.7	5.9	3.6	3.3	3.6
4	3.1	3.1	3.4	3.2	2.9	2.7 ^J	2.7	4.4 ^J	7.2 ^S	6.7	8.0	1.1	13.2	10.6	10.5 ^J	10.0 ^H	10.0	9.6	8.4	6.8	(7.2) ^F	7.5	5.3	3.8
5	3.8	3.7	3.5	3.0	3.4	2.6	2.4	4.0	8.5	8.6	8.3	10.1 ^S	10.0	10.6	8.7	8.5	8.5	7.9	6.4 ^J	6.0	5.8	3.1	2.7	3.1
6	2.9	3.1	3.5	3.4	3.3	2.9	2.8 ^H	4.0	7.4	8.3	7.9	9.2	9.4	9.5	11.5	11.0	8.7	8.4	8.3 ^J	6.0	6.2	3.7	3.0	[3.2] ^A
7	3.5	3.5	3.6	4.0	4.0	2.6	2.9	4.2	7.3 ^S	7.9	8.1 ^J	10.2 ^J	11.5	10.9 ^J	9.5	10.0	8.5 ^H	8.3	5.8	4.5 ^J	5.5	5.5	3.0	3.1
8	3.0	3.0	3.2	3.3	3.9	2.6	2.4	4.1 ^J	7.6	8.0	7.9	11.0	9.2	S	9.0	8.2	8.7	7.4 ^S	6.7 ^H	[6.4] ^A	6.2 ^J	5.5	2.9 ^H	3.1
9	3.3	3.5	3.6	3.7	3.7	3.2	3.0	4.2	7.8 ^J	8.2	9.5	11.5	12.3	13.5	12.5	11.1 ^J	10.0	(9.9) ^S	7.8 ^J	5.1	5.7	4.5 ^J	3.5	3.8
10	3.8	3.8	3.8	[4.2] ^S	4.5 ^J	2.9	2.5	4.0	7.0	8.3	9.8	11.3	12.0	12.0	12.6	11.8	10.7	9.1	7.5	4.9 ^H	5.9 ^H	5.6 ^H	4.6 ^J	4.0
11	3.5	3.5	4.2	3.8	3.8	2.7	2.6	4.6	7.2	8.1	9.8	10.6	12.6	13.0	12.2	10.9	9.2	8.6	6.6	6.9	6.5	6.3	5.2	5.0
12	5.1	4.6 ^J	4.7 ^J	3.7	4.1 ^J	3.3	3.3	5.2	8.0 ^J	10.1 ^J	9.3	9.6 ^J	11.0	10.9	11.5	11.5	10.1	10.4 ^J	9.0	6.0 ^H	6.0 ^H	6.7	6.6	5.4 ^F
13	5.4	4.8 ^P	3.5	3.5	3.3	3.1	3.0	5.0	7.6 ^J	10.0	10.5	11.4	10.9	12.6	13.0	(15.0) ^S	(4.6) ^S	13.4 ^J	12.6	9.2	6.3	7.1	4.6 ^J	3.9
14	3.9	4.1	4.1	3.5	3.3	3.2	3.2	4.9	8.1	9.4	10.1	10.9	10.5	11.5	13.1	13.3	11.6	10.4	8.2	6.2	5.3	5.4	4.7 ^J	4.3
15	S	4.0	4.4 ^J	5.1	5.1	3.1	2.8	4.6	7.6 ^J	9.0	11.0	11.6	9.5 ^H	12.2	12.5	13.0	13.5	13.5	11.6 ^J	9.7	9.5	[7.5] ^S	5.5	5.0 ^J
16	4.8 ^J	4.5 ^J	4.5 ^J	4.5 ^J	4.6	3.2	3.0	5.1	7.6	9.6	10.6	10.1	9.7 ^H	12.0	13.4	13.0	13.1	11.2	10.0 ^S	8.6	6.6	6.4	[6.4] ^S	6.3 ^P
17	5.6	5.7 ^H	5.5	4.9	4.0	4.0	3.8	5.3	9.0	11.7	11.0	10.6	10.5 ^H	13.1	13.1	13.2	11.6 ^H	10.0	10.0	8.2 ^H	(7.0) ^F	(6.4) ^F	5.8	5.6
18	5.5 ^H	5.5	5.2	5.0	4.2	3.5	3.3	5.5	8.5	10.0	12.0	12.2	12.1	13.6	13.7	13.2	13.5 ^H	13.0	10.5	9.0	9.8	9.0	6.6	6.2 ^H
19	5.8	5.4	5.3	4.9	5.1	4.0	3.9	5.7	8.0	10.0	12.0	11.3	11.7	12.3	12.8	12.8	12.5	10.0	10.7 ^J	9.2	9.2	S	8.7	F.5
20	F.5	S	S	6.4	4.6 ^J	4.5 ^J	4.5	6.3	9.0	11.2	13.5	14.0	12.3	12.4	13.0	12.3	13.4	10.5	9.6	9.3	9.1	8.7	7.1	6.5 ^P
21	5.7	5.0	5.0	5.5	4.4 ^J	2.9	2.9	5.8	8.7	11.0	12.0	13.0	13.2	13.0	12.5	12.1	11.0	11.3	10.9	(9.6) ^S	8.7	9.2	8.4 ^J	7.0
22	7.0	5.7	4.9	5.1	5.0	4.0	4.0	6.4	8.6	9.9	10.5	11.0	11.9	13.0	12.9	13.0	12.7	13.0	12.3	11.9	[10.4] ^S	9.6	9.2	S
23	7.1	6.4	5.9	6.5	6.3	4.0	3.5	6.0	8.8	S	11.7	12.4	13.0	[3.2] ^B	13.5	13.0	11.7	11.0	11.0	11.5	10.3	[10.6] ^S	11.0 ^J	8.5
24	8.7	8.6	7.0	6.0	5.6	4.8	4.6	6.1	8.8	9.7 ^H	12.2	12.8	13.0	13.5	13.5	13.6	13.2	13.2	13.4	12.2	12.0	[10.8] ^S	9.7	7.2
25	S	6.5	7.0	5.7	4.1	4.0	5.0 ^J	6.2	6.0	10.2	11.6	12.0	12.4	C	C	C	C	C	C	C	C	C	C	C
26	C	C	C	C	C	C	C	C	C	12.0	11.5	12.5	14.5	14.2 ^P	14.0	12.8	12.5	12.4	9.5	7.0	6.4	6.4	6.5	6.1
27	(6.6) ^F	6.5	7.2	6.8	3.7	3.3	3.2	5.7	9.5	11.5	12.5	13.0	13.0	13.0	12.5	11.0	[10.2] ^S	9.5	9.5	8.7	8.0	6.3	5.4 ^H	5.6
28	5.9	6.0	6.1	5.9	5.8	3.8	3.3	6.2	S	10.0	10.4	10.9	12.4	14.5	12.9	11.0 ^S	10.9 ^H	10.3	10.0 ^S	8.5	6.9	[6.6] ^S	6.4	6.1
29	6.4	5.8	4.7	4.5	4.5 ^J	S	S	6.2	C	10.4 ^H	12.5	13.0	12.0	13.5	13.6	12.6	12.3	M	M	M	M	M	M	M
30																								
31																								
Mean Value	4.9	4.8	4.6	4.5	4.1	3.3	3.3	5.1	7.9	9.4	10.5	11.4	11.7	12.3	12.2	11.7	11.0	10.3	9.1	7.8	7.3	6.6	5.7	4.9
Median Value	4.8	4.6	4.4	4.4	4.0	3.2	3.2	5.0	7.8	9.6	10.5	11.3	12.0	12.5	12.6	12.1	11.0	10.0	9.5	7.3	6.5	6.4	5.4	5.0
Count	25	27	27	28	27	27	27	28	26	28	29	29	29	27	28	27	28	28	27	27	27	26	27	25

Y I

Manual Automatic

Sweep 1.0 - Mc in 2.0 - Mc in 1 min

foF2

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

Lat. 35° 12.6' N
Long. 139° 37.7' E

IONOSPHERIC DATA

Yamagawa

Feb. 1956

R'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	270	240	240	230	260	290	250	230	220	230	250	260	240	240	270	250	240	230	230	230	240	240	300	300
2	290	290	240	230	210	310	260	250	240	250	280	250	250	250	260	240	250	240	220	240	240	200	240	340
3	340	250	200	250	340	340	290	230	220	240	240	280	250	260	270	260	250	230	210	250A	230	240	300	240
4	240	300	260	250	230	330	330	240	220	230	260	280	240	240	240	240H	240	240	210	220	240	220	200A	250
5	310	290	240	250	230	210	300	260	240	240	240	250	250	250	250	260	240	240	220	240	210	200	300	350
6	310	300	250	230	240	210	310H	250	230	240	240	270	250	280	260	240	240	240	220	210	220	220	330	[340]A
7	(350)A	290	290	250	220	200	280	240	230	240	240	270	250	240	240	260	240H	240	200	240	240	200	240	300
8	300	300	300	280	240	200	320	250	230	220	240	250	240	250	250	240	240	230A	220A	[240]A	250	200	220H	300
9	340	300	270	240	240	240	280	250	240	240	240	260	250	260	240	240	240	240	210	210	240	220	250	290
10	300	300	290	250	210	210	250	250	230	250	250	260	250	270	270	250	250	220	210	200A	260H	200H	230	290
11	320	300	270	250	210	280	310	250	230	250	270	280	270	250	250	240	240	240	220	230	240	240	260	300
12	290	290	270	270	240	250	300	250	240	240	240	250	260	260	260	280	250	240	220	200H	300H	250	240	240
13	250	240	250	260	250	260	290	250	230	240	250	260	240	300	290	290	240	240	210	200	240	220	250	340
14	320	270	240	250	240	290	310	250	240	240	240	250	250	270	290	250	240	240	210	230	240	240	250	270
15	270	300	300	250	220	210	290	250	240	240	250	240	240H	270	260	270	250	240	210	210	210	220	250	250
16	290	290	290	270	220	250	280	240	230	240	250	250	250H	290	270	280	250	240	220	200	240	250	260	280
17	290	300H	250	220	250	300	340	250	240	240	240	250	240H	290	250	250	240H	240	230	200A	230	230	260	260
18	290H	270	250	240	210	250	290	250	230	240	240	250	250	290	270	250	250H	240	210	200A	240	230	240	260H
19	290	290	260	280	250	230	250	230	240	240	260	240	240	290	290	280	240	230	240	210	240	240	250	300
20	290F	250	250F	240	240	300	340	250	230	250	260	250	240	300	290	250	240	220	230	230	240	220	240	240
21	280	340	290	240	200	290	340	250	240	240	240	270	260	280	250	240	240	240	230	210	220	240	240	250
22	240	240	290	260	250	240	260	240	230	240	240	240	290	290	270	250	240	240	240	240	220	240	240	250
23	280	290	300	260	210	240	290	250	230	240	240	240	250	[260]B	270	250	240	240	250	240	230	220	240	270
24	250	240	250	260	240	240	240H	240	230	240H	250	260	260	270	270	250	250	240	240	200	230	240	240	250
25	290	250	230	210	230	280	270	240	220	240	250	250	290	270	270	250	250	240	240	200	230	240	240	250
26	C	C	C	C	C	C	C	C	C	240	240	320	290	270	250	250	250	240	200	220	250	270	300	340
27	330	290	240	200	190	300	310	250	240	240	240	270	260	270	270	250	240	240	240	250	230	200A	290H	300H
28	290	260	300A	230	200H	290	350	250	220	230	250	240	270	280	250	240	250H	240	240	220	220	250	270	340
29	240	240	240	290	290	290	260	230	240	240H	250	250	260	250	250	250H	240	M	M	M	M	M	M	M
30																								
31																								
Mean and Median Values	290	280	260	250	230	260	290	250	230	240	250	260	250	270	260	250	240	240	220	220	240	240	260	290
Count	28	28	28	28	28	28	28	28	28	29	29	29	29	28	28	28	28	27	27	27	27	27	27	27

Sweep 1.0 Mc to 2.2.0 Mc in _____ min
 Manual Automatic

R'F2

Y 2

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

Lat. 31° 12.6' N
Long. 130° 37.7 E

Yamagawa

IONOSPHERIC DATA

135° E Mean Time

fEs

Feb. 1956

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	2.3F	2.3	2.3	2.3	2.3	2.1	2.3	G	G	G	G	G	G	G	4.8	4.4	3.0	2.3	3.0	2.4	3.0	E	E	
2	2.1	2.3	2.3	2.4F	2.3	2.3	E	E	G	G	4.8	4.9	4.9	G	G	G	3.4	G	E	E	E	2.1	2.3	2.3	
3	E	E	E	2.3	2.3	2.3	2.1	2.3	G	G	4.0	5.9	3.8	G	G	G	4.2	3.7	3.8	3.4	2.4	2.3	2.3	2.3	
4	2.3	2.2	2.4	2.2	2.3	2.3	E	E	G	G	G	5.9Y	G	G	G	4.5	G	G	2.3	2.1	E	E	3.3	E	
5	E	2.3	2.3	3.1	2.3	2.3	E	2.3	G	G	5.8	G	G	G	G	G	G	3.8	2.4	3.5	2.3	E	E	E	
6	2.3	E	3.8	E	2.2	E	2.3	2.1	G	G	G	G	G	G	G	G	G	G	2.1	E	2.4	2.0	2.3	5.9F	
7	3.2	2.5	2.3	2.1	2.1	2.5	2.1	2.1	G	G	G	5.0	5.9Y	G	G	G	G	G	2.2	2.3	2.1	2.0	E	E	
8	1.9	2.0	2.3	2.3	2.3	E	E	2.3	G	G	G	G	G	G	G	G	G	3.8	3.8	9.5	3.6	E	E	2.3	
9	E	E	2.3	2.4	3.0	2.2	2.3	2.3	G	G	G	G	G	G	G	G	G	G	2.1	E	E	2.1	E	E	
10	2.1	E	E	2.3	2.3	2.3	2.3	2.3	G	G	G	G	G	3.8	4.8Y	4.5	5.9	G	2.3	3.0	2.1	2.3	E	E	
11	E	E	2.2	3.2	2.4	2.3	2.2	2.3	G	G	G	3.8	3.8	G	G	G	3.8	G	M	E	E	E	E	E	
12	2.3	2.3	2.3	2.2	2.2	2.2	E	2.3	G	5.9Y	G	G	G	G	G	G	G	3.2	E	E	E	E	E	E	
13	E	2.2	2.3	2.3	2.4	2.1	E	2.3	G	G	5.9	5.9	5.0	3.8	3.8	G	G	G	E	E	E	E	E	E	
14	E	E	2.1	2.2	2.4	2.1	2.3	2.3	G	G	4.8	5.9	5.9	5.9Y	B	B	G	G	2.3	2.1	E	E	2.0	E	
15	E	2.1	2.3	E	E	E	2.2	2.3	G	G	G	G	G	G	G	G	G	G	2.3	2.3	2.3	2.3	2.3	E	
16	E	E	E	2.1	E	2.3	E	2.3	G	G	G	G	G	G	G	G	G	G	E	2.3	2.3	2.3	E	E	
17	2.2	E	E	E	2.2	E	2.1	2.3	G	G	G	G	5.0	4.8Y	B	G	G	G	3.0Y	2.3	E	2.1	E	2.1	
18	E	2.4	E	E	2.3	2.3	E	2.3	G	G	G	G	G	B	G	4.8	4.5Y	G	3.3	3.6	E	2.4	2.1	E	
19	E	E	2.2	2.2	E	2.3	E	2.2	3.3	G	G	G	5.1	G	G	G	G	G	2.3	2.4	E	E	2.3	2.1	
20	2.3	2.2	2.3	2.3	2.2	2.2	E	2.3	G	G	G	G	5.4	5.0	G	5.9	5.8	3.5	E	E	E	E	E	2.1	
21	2.3	E	E	2.3	2.3	E	E	E	G	G	G	G	5.0	4.9	G	G	G	G	3.0	E	E	E	2.3	2.2	
22	E	2.3	E	2.3	2.3	E	E	E	G	G	5.9Y	G	G	G	G	5.9	3.8	3.4	E	2.1	E	E	E	E	
23	E	E	2.1	E	3.8	2.2	2.3	2.3	G	G	G	G	G	B	B	B	G	G	2.3	E	E	E	2.3	E	
24	E	E	2.4	2.3	2.0Y	2.3	2.3	2.3	G	G	G	G	G	5.1Y	G	G	G	G	E	E	E	E	E	E	
25	E	E	2.3	2.3	E	2.3	E	2.1	G	G	G	G	G	C	C	C	C	C	C	C	C	C	C	C	
26	C	C	C	C	C	C	C	C	C	G	5.2	5.9	5.5	G	5.9	4.7	3.7	3.2	2.2	2.4	2.3	E	E	2.1	
27	E	E	2.1Y	E	E	2.4	E	E	G	G	G	G	B	G	5.3	G	3.4	3.4	2.3	3.5	3.3	3.1	2.3	2.3	
28	2.3	2.3	3.6	3.2	2.4	2.1	2.3	2.3	G	G	G	G	3.8	5.8	4.8	G	G	G	E	2.3	E	2.3	2.3	2.4	
29	3.0	2.3	2.2	E	E	E	E	2.4	G	3.7	5.0Y	5.1	G	G	5.2	3.8	3.8	M	M	M	M	M	M	M	
30																									
31																									
Mean Value	2.4	2.3	2.4	2.4	2.4	2.3	2.2	2.3	3.3	4.8	5.4	5.2	5.2	4.8	5.1	4.9	4.3	3.4	2.6	3.1	2.5	2.3	2.3	2.6	
Median Value	E	E	2.3	2.3	2.3	2.2	E	2.3	G	G	G	G	G	G	G	G	G	G	2.3	2.3	E	E	E	E	
Count	28	28	28	28	28	28	28	28	28	29	29	29	28	26	26	26	28	27	26	27	27	27	27	27	

fEs

Manual Automatic

Sweep 1.0 Mc to 2.2.0 Mc in _____ min

SOLAR RADIO EMISSION

FEB. 1956

Observing Station: HIRAIISO

Frequency: 200 Mc/s

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

Time in U.T.

Daily Data

Date	Steady Flux		
	00-03	03-06	Daily Averages
1	8	10	9
2	8	8	8
3	6	7	7
4	6	6	6
5	6	6	6
6	5	6	6
7	8	6	7
8	6	6	6
9	7	6	6
10	7	6	6
11	7	6	7
12	8	8	8
13	7	9	8
14	8	9	9
15	22	16	19
16	17	22	21
17	51	53	52
18	16	19	18
19	16	16	16
20	35	32	33
21	-	13	(13)
22	11	6	9
23	5	#	-
24	6	5	5
25	6	6	6
26	6	5	5
27	6	6	6
28	6	5	6
29	8	6	7

.....Enhanced radiation.

Outstanding Occurrences

Date	Starting Time	Duration	Type	Peak Flux	Time
13	0432-20s	40s	SD	620	-
14	0554-00s	51m	CD	1600	0556-40s... 2nd peak of 1st group
				90	0631-00s... 2nd peak of 2nd group
16	0209-00s	1m30s	CD	250	0209-30s
17	0526-30s	instant	SA	470	-
	0544	instant	SA	120	-
	0548	30s	SA	220	-
18	0119-00s	1m	SD	470	0119-30s
	0622-30s	1m	SD	620	0623-00s
23	0336-50s	2h39m	CD		
	1st group	24m	CD	1630	0337-30s... 1st peak
				1660	0342 ... 2nd peak
	2nd group	1h22m	CD	1480	0415 ... 1st peak
				960	0435 ... 2nd peak
				320	0506 ... 3rd peak
	3rd group	53m	SD	95	0548
29	0519	40s	SD	130	-

IONOSPHERIC DATA IN JAPAN FOR FEBRUARY 1956

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編 集 兼
発 行 人

藤 木 栄
東京都北多摩郡小金井町小金井新田一之久保573

発 行 所

郵 政 省 電 波 研 究 所
東京都北多摩郡小金井町小金井新田一之久保573
電 話 国 分 寺 1 3 8, 1 3 9, 1 5 1

印 刷 所

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