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# IONOSPHERIC DATA IN JAPAN

FOR FEBRUARY 1955

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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 FEBRUARY, 1955

CONTENTS

	Page
Preface . . . . .	2
Site of the Ionospheric Stations. . . . .	3
Remarks on Symbols . . . . .	3
Solar Radio Emission. . . . .	3
Ionospheric Data for Every Day and Hour at Wakkanai. . . . .	4
Ionospheric Data for Every Day and Hour at Akita . . . . .	7
Ionospheric Data for Every Day and Hour at Kokubunji. . . . .	10
Ionospheric Data for Every Day and Hour at Yamagawa . . . . .	22
Data on Solar Radio Emission . . . . .	25

## 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 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

Lat. 45° 23.6' N  
Long. 141° 41.1' E

## Wakkanai

Feb. 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	F	F	F	F	F	F	(2.3)F	3.8	5.2	5.0	5.6	7.0	7.5	5.3	6.0	6.4	5.3	4.1	4.0	3.5F	3.3	2.5F	3.0F	3.0
2	F	F	F	F	F	F	F	F5	5	6.3J	5.8J	5.7F	5.8	6.1	5.7	5.7	5.8	3.8V	3.3P	3.2F	3.0F	2.9F	3.4F2	3.2F
3	(3.3)F	(3.7)F	F	F	F	3.2F	3.0F	4.2	5.5	5.8	6.0	6.8J	7.0	6.3	5.8	5.7	5.4	4.0	3.8	4.0	3.8	3.7	3.1	3.5
4	3.6	3.4F2	3.7Z	3.8F	3.8F	(3.9)F	3.0F	4.6P	5.5	6.2	6.4	6.9	7.0	6.1	5.5	5.6	6.3	(5.0)A	3.8	3.4	3.4	3.5	3.7	3.5
5	3.8	3.3	2.7	2.7	2.9	2.8	2.3F	4.9P	5.6	7.1	7.7	7.1	7.0	(6.8)A	6.7	6.8	5.6	4.3	3.7	4.0	4.0	2.7	3.1	3.1
6	3.4	3.4F	3.5F	3.5F	3.5F	3.4F	3.3	(4.2)A	5.0	6.6	7.2	7.2	7.5	6.5	6.8	5.3	6.5	5.1	4.0	4.0	4.1	4.7F	F	F
7	F	F	F	F	F	3.6F	3.5F	A	5.3	5.7	8.0J	7.4	8.4J	6.2	7.7	5.6	6.2	5.0	4.4	3.2	3.4F	F	F5	F
8	F	F	(3.0)F	3.2F	(3.4)F	(2.9)F	2.4	5.4	5.5	5.6	6.6	7.2	7.2	7.8	6.2	5.7	6.1	5.3	3.2	(3.3)A	3.4F	3.5F	3.9F	F
9	4.0F	4.0F	3.6F	(3.2)F	2.9F	2.8F	(2.6)A	4.3	5.4	6.4	6.4	6.7	6.8	5.8	6.3	5.5	6.4	5.6	3.4	3.1	3.5	3.0	3.1	3.3
10	3.5F	3.6F	3.4	3.4F	(3.2)F	3.0F	(3.0)F	5.0	5.3	5.1	6.0	5.8H	7.1	7.3	6.2	6.4H	5.6	4.3	3.6	3.8	3.6	3.4	3.6	3.9
11	(3.9)F	3.9F	3.4F	(3.2)F	2.9F	2.7F	2.6	4.1	5.6	5.5	5.4	7.2	6.9	6.3	5.6	5.6	5.7	4.1	3.3	3.4	3.1	3.2F	(3.3)F	(3.3)F
12	(3.4)F	(3.3)F	(3.3)F	3.0F	3.0F	2.9F	4.0	3.5	5.7	5.7	7.0J	6.8	6.5	7.2	7.0	7.2	(6.4)C	5.5	F	5F	F	5F	5F	5F
13	5F	F	F	F	F	2.3F	F	4.3	C	C	C	C	C	C	C	C	C	4.3	3.3	3.1	3.0F	3.2F	3.3	3.4F
14	4.0F	F	F	F	F	3.3F	3.0F	2.8	6.0	5.6	6.3	7.4	7.4	6.3	6.0	5.5	5.5	5.1	3.4	3.2	3.4	3.2	(3.1)F	3.4
15	3.2F	(3.3)F	3.0F	3.0F	3.2F	3.1	3.0	5.3	5.7	5.7	6.4	7.9	8.8	5.7	6.2	6.0	5.7	5.3	4.0	4.0	3.6	3.0	(3.2)F	3.4
16	3.4P	3.5F	F	F	F	3.6	3.7	3.2	4.9	6.0	5.5	6.8J	6.5	5.8	6.6	6.3	5.4H	5.5	3.6	2.8	3.1	2.9	3.0	2.9
17	2.8	3.0	3.2	3.2	3.3	3.3	3.3	(4.7)C	6.2	5.7	6.6	6.6	6.0	6.3H	6.4	6.5	5.7	4.5J	4.0	4.5	3.8J	3.6	3.7	3.7
18	3.7	C	C	C	C	C	C	C	5.5	6.0	6.1	6.2J	6.5	6.4	5.5	7.0	6.5	5.5	4.5	3.5	3.3	(3.5)J	3.5	3.7
19	3.6	C	C	C	C	(3.3)F	(3.5)F	5.5	6.4	5.3	7.0	6.6	6.5	6.4	6.0	6.5	6.3	5.6	3.5	3.5	3.9	3.5	3.7	4.1F
20	4.3F	4.2	4.1	4.2	(4.3)F	3.8	3.5	4.8	5.4	5.8J	C	C	C	C	C	5.3	(5.4)C	6.0	C	C	3.5J	3.6	C	C
21	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	5.6	6.0	4.8	3.0	3.0	3.0	3.0	3.2
22	3.4	3.2F	3.2F	(3.0)F	2.9F	2.9F	2.8	6.0	5.7	5.6	6.5	9.0	7.2	6.5	6.7	5.6	6.4	5.9	3.4H	3.0	2.6	3.0	3.2F	3.5
23	3.2F	3.5F	3.3	3.2F	(3.5)F	(3.3)F	3.5F	5.5	5.6	5.5	7.8	7.8	7.3J	6.5H	6.5	6.2	5.5	5.4	4.9	3.8P	3.9	3.7	3.7	3.5
24	3.5	3.7	2.7	2.8	2.7	2.6	2.8	5.3	7.0	6.3H	7.0J	8.3J	6.8J	5.9	5.9	6.0	6.2	5.2	3.8	3.6	3.5	3.4	3.4	3.7J
25	3.7	3.6	3.4	3.2	(3.4)F	3.0F	3.6	5.0	5.4	6.5	6.6J	7.5	8.3J	7.5	6.0	6.5	6.1	6.0	4.7	3.1	2.9	3.1	3.2	3.3
26	3.5F	3.5	3.5	3.2F	(3.3)F	3.3J	3.6FV	5.0J	6.0	5.6	6.9	6.1	7.7	6.5V	6.5	6.8J	6.2	5.5	4.1	3.3	3.5	3.6	F	F5
27	F5	4.5	4.1	3.8	3.8J	3.5	3.3F	4.7	5.3	6.5J	6.0	6.8	7.1	6.3	6.8J	6.0	6.2	6.0	4.0	3.8	3.5	3.2	3.3	3.3F
28	(3.4)F	(3.5)F	3.8F	3.2V	3.3F	(3.3)F	3.5	4.9	6.2	6.8J	6.5J	7.2	7.2	6.3	6.0	6.4	5.9	6.7	4.5	3.4	2.9	3.0	3.2	3.4
29																								
30																								
31																								
Mean Value	3.6	3.6	3.4	3.3	3.3	3.2	3.1	4.8	5.5	5.9	6.5	7.0	7.2	6.4	6.3	6.1	5.9	5.2	4.0	3.5	3.4	3.2	3.3	3.4
Median Value	3.5	3.5	3.4	3.2	3.3	3.2	3.2	4.8	5.5	5.8	6.5	6.9	7.1	6.3	6.2	6.0	5.8	5.3	4.0	3.4	3.4	3.2	3.3	3.4
Count	21	20	18	18	22	23	23	24	25	26	25	25	25	25	25	26	27	28	26	26	27	26	23	22

W 1

Automatic  Manual

Swamp 1.0 Mc to 2.2.0 Mc in 1 min

foF2

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. 1955

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

K'F2

Sweep 1.0 Mc to 22.0 Mc in 1 min

Manual

Automatic

Lat. 40° 23.6' N  
Long. 141° 41.1' E

**Wakkanai**

**IONOSPHERIC DATA**

135° E Mean Time

**fEs**

**Feb. 1955**

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	2.5	2.3 <sup>F</sup>	2.0	2.3	2.3	2.2	2.5	2.2	2.5	3.5	3.5	2.5	2.5	2.5	2.5	3.5	6.0	2.6	4.0	4.4	4.4	4.1	E	
2	E	2.3 <sup>F</sup>	2.3 <sup>F</sup>	2.3	2.3	2.6	2.5 <sup>F</sup>	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.3	2.7 <sup>Y</sup>	2.4 <sup>Y</sup>	E	2.2 <sup>Y</sup>	2.6 <sup>Y</sup>	E	
3	E	2.4	2.2	2.5	3.5 <sup>Y</sup>	2.7 <sup>Y</sup>	E	2.4	2.8	3.5 <sup>Y</sup>	2.5	2.5	4.6	5.3	5.0	4.4	4.2	4.9	5.4 <sup>Y</sup>	4.2 <sup>Y</sup>	4.0	2.6 <sup>Y</sup>	2.3 <sup>Y</sup>	2.3	
4	2.4	2.5	2.5	2.5 <sup>Y</sup>	2.4	2.0	2.3	2.5	2.5	2.5	2.5	2.5	4.6	2.5	2.5	3.3	4.1 <sup>Y</sup>	11.5 <sup>Y</sup>	6.0 <sup>Y</sup>	4.6	4.0 <sup>Y</sup>	3.5 <sup>Y</sup>	2.6 <sup>Y</sup>	2.6 <sup>Y</sup>	
5	3.5	2.6	2.4	2.5	2.4	2.4	2.3	2.5	2.5	2.5	2.5	4.2	4.5	8.0 <sup>Y</sup>	6.4 <sup>Y</sup>	2.5	5.5	7.0 <sup>Y</sup>	6.0 <sup>Y</sup>	3.5 <sup>Y</sup>	2.3	2.2	2.7 <sup>Y</sup>	2.3	
6	2.3 <sup>Y</sup>	2.5	E	E	2.6	2.6	7.2	5.5 <sup>F</sup>	3.5 <sup>F</sup>	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.6	4.1	3.5	2.5	2.5	2.3 <sup>F</sup>	E	E	
7	2.3 <sup>Y</sup>	E	E	2.0	4.0 <sup>Y</sup>	2.5	3.2	12.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.3 <sup>Y</sup>	5.9	4.6 <sup>F</sup>	4.5	2.9	2.6	2.5 <sup>Y</sup>	3.5 <sup>Y</sup>	2.2	
8	E	2.3 <sup>Y</sup>	E	2.0	2.3 <sup>Y</sup>	3.5	2.1	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.0	6.5 <sup>Y</sup>	6.5 <sup>Y</sup>	5.5 <sup>Y</sup>	3.5 <sup>Y</sup>	2.4	2.6	2.5 <sup>Y</sup>	
9	2.5 <sup>Y</sup>	2.4	2.5 <sup>Y</sup>	E	2.3	2.3 <sup>Y</sup>	4.0	2.7 <sup>Y</sup>	2.5	10.0 <sup>Y</sup>	2.5	2.5	2.5	4.0 <sup>Y</sup>	2.5	2.5	2.5	2.5	3.0 <sup>Y</sup>	3.5	3.5 <sup>Y</sup>	2.6 <sup>Y</sup>	2.4 <sup>Y</sup>	2.3	
10	E	2.5	2.3	2.4 <sup>Y</sup>	2.3 <sup>Y</sup>	2.0	2.3	2.7 <sup>Y</sup>	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	E	2.3 <sup>Y</sup>	E	E	2.7 <sup>Y</sup>	2.5	2.6	
11	2.5 <sup>F</sup>	2.5 <sup>F</sup>	2.3 <sup>Y</sup>	2.3 <sup>Y</sup>	2.3	2.3	3.0 <sup>Y</sup>	2.5 <sup>Y</sup>	2.8 <sup>Y</sup>	3.4 <sup>Y</sup>	2.5	2.5	2.5	2.5	2.5	2.5	2.5	E	2.5 <sup>Y</sup>	2.3 <sup>F</sup>	E	E	E	2.3	
12	2.5	2.3	E	2.3	2.2	2.3	E	3.5	2.5	4.3 <sup>Y</sup>	4.2 <sup>Y</sup>	2.5	2.5	2.5	4.1	2.5	2.5	E	3.5	4.6	3.6	3.5	4.5 <sup>Y</sup>	2.3	
13	2.7	4.0	2.3	E	2.5 <sup>F</sup>	2.3	E	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.3	4.0 <sup>F</sup>	6.0	4.0 <sup>F</sup>	2.5 <sup>F</sup>	E	E	
14	E	E	2.3	E	2.3	2.3	E	3.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.5 <sup>Y</sup>	3.5	6.0	4.1	E	E	5.0	2.9	
15	3.5 <sup>F</sup>	2.6 <sup>F</sup>	3.0 <sup>Y</sup>	2.3 <sup>Y</sup>	2.3 <sup>S</sup>	E	E	2.5	4.6 <sup>Y</sup>	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0	E	E	E	2.3	E	C	E	
16	E	E	E	E	E	E	E	2.5	2.5	2.5	2.5	3.8 <sup>Y</sup>	2.5	2.5	4.0	2.5	2.5	2.3 <sup>Y</sup>	4.2 <sup>Y</sup>	3.5	2.7	E	2.4	E	
17	E	2.3	E	E	E	E	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.0 <sup>Y</sup>	E	E	E	E	2.4	E	
18	2.3	C	C	C	C	C	C	2.6	2.5	2.5	4.1 <sup>Y</sup>	4.8 <sup>Y</sup>	5.5	2.5	2.5	2.5	2.5	2.5 <sup>Y</sup>	2.5 <sup>Y</sup>	E	E	C	2.6 <sup>Y</sup>	3.5	
19	2.3 <sup>Y</sup>	C	C	C	C	E	E	3.2 <sup>Y</sup>	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	E	E	E	2.6	3.5 <sup>Y</sup>	E	
20	3.5	2.6	2.6 <sup>F</sup>	2.5 <sup>F</sup>	2.3	E	E	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.3	C	C	4.5	3.5	E	C	
21	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	2.3	C	C	4.5	3.5	C	C	
22	2.3	E	E	2.3	E	E	E	2.3	4.2	7.0	5.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5 <sup>Y</sup>	2.3 <sup>Y</sup>	4.1 <sup>F</sup>	3.5 <sup>F</sup>	2.3 <sup>F</sup>	E	
23	2.5	2.6 <sup>F</sup>	2.3	E	2.3	2.2	8.7 <sup>Y</sup>	2.3	2.5	3.5 <sup>Y</sup>	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	E	2.3	E	E	E	
24	E	2.5	2.6	2.3	2.5	2.3	3.4	2.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	E	2.3 <sup>Y</sup>	2.3	2.3	E	E	
25	E	E	E	E	E	E	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.7 <sup>Y</sup>	2.6 <sup>Y</sup>	3.0	3.4	2.5	E	E	
26	E	E	2.3 <sup>Y</sup>	E	E	2.3	2.3	2.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	E	2.3	2.3	2.3	E	E	
27	E	2.3	2.0	2.3	2.3	E	E	2.5	2.5	2.5	2.5	2.5	5.6 <sup>Y</sup>	2.5	2.5	2.5	2.5	2.5	E	E	E	E	E	E	
28	2.5 <sup>Y</sup>	2.3	2.2	2.3	E	2.3	2.3	2.3	4.6 <sup>Y</sup>	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.7	2.5 <sup>F</sup>	E	E	2.3	2.3	E	
29																									
30																									
31																									
Mean Value	2.6	2.5	2.4	2.3	2.5	2.4	3.4	3.5	3.8	5.0	5.2	4.3	4.3	5.4	5.3	4.0	4.4	4.0	4.0	3.6	3.2	2.9	2.9	4.3	
Median Value	2.3	2.4	2.3	2.3	2.3	2.2	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.5	2.5	2.6	2.5	2.4	2.4	2.4	2.4	
Count	27	25	25	25	25	26	26	27	26	26	25	25	25	25	25	26	25	25	28	27	28	27	26	27	

**fEs**

Sweep 1.0 Mc to 22.0 Mc in \_\_\_\_\_ min  
 Manual  Automatic

IONOSPHERIC DATA

A k i t a

Feb. 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	2.9 F	2.8 F	2.5 F	2.6 F	2.6 F	2.3 F	4.6	4.5	5.1	6.5	5.3	6.0 <sup>T</sup>	6.3	7.2	6.5	5.6	5.5	4.8	[4.4]	4.1	3.5	2.6	3.0	2.3	A
2	A	A	A F	3.0 <sup>F</sup>	3.9 <sup>F</sup>	3.2 <sup>F</sup>	3.2 F	4.5	5.9	5.4	6.0 <sup>J</sup>	5.4	5.6	5.7	6.0	6.0	5.5	5.5	3.0	3.1	2.5	2.8 <sup>F</sup>	3.0 <sup>F</sup>	3.4 <sup>F</sup>	
3	3.4 F	3.5 F	3.3 F	3.3 F	3.4 F	3.3 F	4.6	4.6	5.3	5.6	6.0	6.9	6.9	6.5	5.7 <sup>J</sup>	5.7	5.3	4.9	4.0	4.1	3.5 F	3.8	3.0	3.4 <sup>F</sup>	
4	3.5 F	3.0 <sup>F</sup>	3.0 <sup>F</sup>	3.0 <sup>F</sup>	3.1 F	2.5 F	4.5	4.5	5.7	5.7	6.5	6.9	7.4 <sup>P</sup>	6.2	6.4	5.4	5.4	6.0 <sup>P</sup>	[3.6]	3.6 <sup>A</sup>	3.5 F	3.5 F	3.6 F	3.5	
5	3.6	3.1	2.6 F	2.7 F	2.6 F	2.7 F	5.0	5.0	5.1	5.5	7.8	6.6	6.9	7.2	6.6	6.8	5.1	5.0	4.4	[4.0]	3.5	3.1	3.0	3.3	
6	3.4 F	3.3	3.5	3.5	3.5	3.1 F	4.5	4.5	5.5	5.6	6.7	7.5	6.8	6.5	5.5	5.7	4.4	5.8	5.1	3.3	3.5 <sup>V</sup>	3.2 <sup>F</sup>	3.6 <sup>F</sup>	3.8 F	
7	3.7 F	3.6 F	3.6 F	3.6 F	3.6	2.5	2.4	3.8 <sup>H</sup>	5.4 <sup>J</sup>	6.0	7.8	7.5	6.3	6.3	5.8	5.7	5.6	5.6	4.6	3.4 <sup>F</sup>	3.4 F	3.5 F	3.0 <sup>F</sup>	3.0 <sup>F</sup>	
8	3.0 F	3.1 F	[3.0]	2.9 F	3.7 F	2.7 F	2.4	3.9	5.8	5.6	5.8	6.5	6.7	7.2	6.3	5.4	5.0 <sup>V</sup>	5.4	A	A	A	3.3 F	3.3 F	2.9 F	
9	3.2 F	3.2 F	3.2 F	2.9 F	2.8 F	2.7 F	2.3 F	4.6	5.8	5.8	6.4	6.5	6.7	6.2	5.5	5.9	[5.7]	5.5	3.6	2.9	3.5	2.7	3.0	2.9	
10	3.3	3.6	3.0 <sup>F</sup>	3.2 F	3.1	3.0 F	3.3 F	5.6	C	C	C	C	C	C	C	C	5.1	3.4	3.4	3.5	3.6	2.8	3.0 F	3.1 F	
11	3.3 F	3.1 F	3.1 F	2.9 F	2.7 F	2.7	4.3	4.3	5.6	5.9	5.7	6.9	7.4	7.1	5.6	5.6	5.5	5.1	3.0 <sup>H</sup>	3.2	3.7	3.0	3.3 F	3.6 F	
12	3.7	3.8	3.6 F	3.3 F	3.6	3.0	2.8	4.0	4.5	8.6	6.0 <sup>J</sup>	6.6	7.6	6.6	8.7	8.0	7.0	5.6	4.5	3.9 F	3.7 F	4.5 F	4.5	4.9	
13	4.8 F	4.0 F	4.2 F	4.2 F	4.4 F	4.0 F	3.5 <sup>F</sup>	5.5	6.4	6.1 <sup>T</sup>	6.5	6.8	7.0	7.0	6.6	6.5	6.0 <sup>T</sup>	5.6	3.0	3.1	3.2	3.4	3.5	3.5	
14	3.2 F	2.9 F	3.0 F	3.0 F	3.3 F	2.5 F	2.6 F	4.4	5.5	6.4	7.0	7.0	7.1	6.9	5.9	5.6	5.6	5.1	4.4	3.2	3.4	3.3	3.3	3.3	
15	3.5	3.3	3.2	3.2 F	3.5	3.0	3.0	(6.0)	[6.2]	6.5	7.3	7.7	8.3	7.5	6.5	6.0	6.5	A	4.8 P	4.2	3.5	3.0	3.1	3.4	
16	3.6	3.5	3.5	3.5	3.3	3.6	3.2	4.7	5.6	6.0 P	6.0	6.0	7.6	6.7	7.0	6.6	6.0 P	5.6	4.6	3.2	3.0	2.8	3.0	3.2	
17	2.9	2.9	3.1	3.2	3.2	2.8	2.8	5.2	5.7	6.0	5.5	7.6	7.1	5.7	5.8	6.9	6.6	5.2	3.8 P	3.7	3.0	3.2	3.2	3.3 F	
18	3.5	3.6	3.6	3.4	3.5	3.3	3.6	5.4	7.3	6.3	6.0	6.9 <sup>H</sup>	5.7	6.4	6.5	5.6	6.3	5.6	4.9	4.6	3.0	3.1	3.2	3.3 F	
19	3.4	3.4 F	3.2 F	3.3 F	3.2	3.3 F	3.2 F	6.1 <sup>T</sup>	6.6	6.0 <sup>J</sup>	6.1 <sup>H</sup>	7.0	6.6	5.8	6.1	6.8	6.0	6.2	4.7	3.8 P	3.3	2.9	3.2	3.3	
20	3.5	3.5	3.5	3.4	3.6	3.5	3.3	5.2	6.1	6.1	6.0 P	7.0	6.0	7.1	6.4	5.6	5.5	6.8	5.6	3.6	3.6	3.5	3.1	3.1	
21	3.1	3.2	3.3	3.3	3.3	3.5	3.6	5.1	6.0	5.8	C	C	7.9	8.0	5.8	[5.6]	5.5	5.1	6.0	3.9	2.9	3.0	3.0	3.2	
22	3.4	3.0	3.3	3.2	3.7	2.7	2.8	4.7	6.2	6.9	6.6	7.5	8.1	7.6	6.5	6.3	5.6	6.1	4.6	2.8	2.6	3.0	3.2	3.3 V	
23	3.4	3.6	3.1	3.2	3.2	2.8	3.0 V	6.0	6.1 <sup>J</sup>	6.6	6.0	7.6	9.5	7.0	5.6	6.3	6.0 <sup>J</sup>	5.0	4.7	4.5	3.8	3.7	3.6	3.5 F	
24	3.6	3.7	2.8	2.5	2.8	2.5	2.5	5.9	7.6	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
25	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	4.6	2.7	[2.8]	3.0 F	[3.2]	3.3 F	
26	3.3	3.6	3.1	2.6	2.8	2.8	3.2	5.3	5.5 <sup>H</sup>	6.1	C	C	8.0	7.4	6.3	6.8	6.2 F	5.6	4.6	3.2	3.3	3.6	3.6	3.7	
27	3.8	3.9	3.9	3.8 P	3.8 P	2.8	3.3 V	5.0 P	6.5 <sup>J</sup>	6.6	7.1	6.5	7.1 <sup>H</sup>	7.2	6.6	6.4	6.2	5.6	5.3	3.7	3.4	3.5	3.2	3.2	
28	3.2	3.2	3.3	3.0	3.2	2.7	2.8	3.5	6.5	6.6	7.3	7.2	8.1	9.1	6.5	6.9	7.0	6.8 P	5.1	3.4	3.2	3.2	3.2	3.3	
29																									
30																									
31																									
Mean Value	3.4	3.4	3.2	3.2	3.3	3.0	2.9	5.0	5.9	6.2	6.4	6.9	7.2	6.9	6.3	5.9	5.8	5.5	4.4	3.6	3.4	3.2	3.3	3.4	
Median Value	3.4	3.4	3.2	3.2	3.3	3.0	3.0	5.0	5.8	6.0	6.1	6.9	7.1	7.0	6.3	6.0	5.6	5.6	4.6	3.6	3.4	3.2	3.2	3.3	
Count	26	26	26	27	27	27	27	27	26	25	23	23	25	25	25	25	25	25	26	26	26	27	27	26	

foF2

Sweep 0.05 Mc to 2.2 Mc in 2 min

Manual

Automatic

Lat. 39° 43.5' N  
Long. 140° 08.2' E

**A k i t a**

**IONOSPHERIC DATA**

135° E Mean Time

**RF2**

**Feb. 1955**

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

**RF2**

Sweep 0.85 Mc to 22.0 Mc in 2 min  Manual  Automatic

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

Lat. 39° 43.5' N  
Long. 140° 08.3' E

# IONOSPHERIC DATA

## Akita

Feb. 1955

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	25	30	40	35	25	26	23	25	29	G	33	40	G	47	45	42	41	35 <sup>Y</sup>	70	33 <sup>Y</sup>	36	65	65	45	
2	55	49	40	35	28 <sup>Y</sup>	25	24	30	45	49	64	65 <sup>Y</sup>	40	40	40	40 <sup>Y</sup>	35	30	35	25	29	24	25	E	
3	E	E	21	24	26	40	26	25 <sup>Y</sup>	25	32	G	G	45	40	65	G	50	35	32	41	47	43	30	35	
4	30	25	24	25	22	24	25	35 <sup>Y</sup>	25	33	33	34	G	48	68	135	40	30	76	105	110	35	45	25	
5	33	30	50	40	35	40	25	45	32	49	50	50	55	51	G	48	55	24	55	115	55	29	25	22	
6	24	35	35	25	25	45	35	33	34	62	62	G	40	34	G	55	42	45	35	33	29	27	23	22 <sup>Y</sup>	
7	E	E	E	30 <sup>Y</sup>	22	22	G	23	32	37	35	40	53 <sup>Y</sup>	G	31	38	55	60	57	55 <sup>Y</sup>	29	35	28	33	
8	30	19	M	23	23	29	22	26	43	42	33	32	33	33	41	41	42	50	81	63	41	41	34	31	
9	30	24	22	E	E	E	E	23	33	62	60	65	62	42	35 <sup>Y</sup>	G	C	35	55	35	35	35	26	25	
10	28	26	25	31	25	35	E	35	C	C	C	C	C	C	C	C	C	41	29	56	29	24 <sup>Y</sup>	20	25 <sup>Y</sup>	
11	29	26	30	30 <sup>F</sup>	30 <sup>Y</sup>	E	25	31	35	42	35	35	35	30	35	35	35	24	E	29	30	E	30	E	
12	25	23	E	E	E	E	E	E	G	G	40	41	G	45	G	G	40	E	35	65	30	35	25	E	
13	E	23 <sup>Y</sup>	25	26	34	25	30	24	29 <sup>Y</sup>	G	G	63	54	35	35	35	35	31	35	35	34	31	26	35	
14	35	32	25	25	25	23 <sup>Y</sup>	25	34	40	31	35	35	G	40	35	35	30	30	24 <sup>Y</sup>	35	30	33	35	45	
15	45	29	25 <sup>Y</sup>	30	22 <sup>Y</sup>	E	33 <sup>Y</sup>	G	33	55	46	45	35	42	45	34	35	52	35	41	30	29	30	30	
16	E	25 <sup>Y</sup>	25 <sup>Y</sup>	E	E	24 <sup>Y</sup>	E	24	30	43	35	35	40	40	40	35	28	27	21	E	23	23 <sup>Y</sup>	25	23	
17	24 <sup>Y</sup>	21 <sup>Y</sup>	E	16	E	22	E	G	G	35	45	50	51	42	G	35	32	36	46	65	23	E	22 <sup>Y</sup>	E	
18	30	E	E	24	25 <sup>Y</sup>	E	E	G	G	35	42	42	42	40	G	35	41	41	31	E	31	27	25	23	
19	26	25	28 <sup>Y</sup>	28	25	25 <sup>Y</sup>	25 <sup>Y</sup>	29	65 <sup>Y</sup>	G	40	G	41 <sup>Y</sup>	42	35	29	35	G	E	E	E	23	37	30	
20	30	30	25	20	E	22	20 <sup>Y</sup>	G	G	35	35	G	40	45	52	45	40	34	45	32	25	42	41	37	
21	26	26	32	31	25	21 <sup>Y</sup>	25	22	31	35	C	C	41	35	35	C	29	24 <sup>Y</sup>	E	20 <sup>Y</sup>	43	45	31	35	
22	30	24	19 <sup>Y</sup>	22 <sup>Y</sup>	E	E	E	G	G	35	G	45	35	G	G	35	34 <sup>Y</sup>	25 <sup>Y</sup>	E	20	21	E	20	25	
23	35	35	31	25	25	1.9	E	23 <sup>Y</sup>	G	35	35	40	35	35	G	35	34	30	35	26	35	40	41	29	
24	26	27	E	E	E	24	E	25	35	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
25	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	E	1.9	52	62	48	31	
26	30	31	35	26	25	E	20	35	35	35	C	C	35	31	G	35	G	30	24	25	E	22 <sup>Y</sup>	20 <sup>Y</sup>	31	
27	28	24	E	1.2	E	E	E	G	G	35	35	40	G	35	42	G	43	35	23	25 <sup>Y</sup>	35	35	29 <sup>Y</sup>	25 <sup>Y</sup>	
28	1.8 <sup>Y</sup>	E	E	1.8	1.6	E	E	G	G	35	35	G	35	35	41	35	G	G	20	E	E	E	E	E	
29																									
30																									
31																									
Mean Value	3.0	2.8	2.9	2.6	2.5	2.7	2.6	2.9	3.5	4.1	4.1	4.4	4.2	3.9	4.2	4.3	3.9	3.5	4.1	4.3	3.7	3.5	3.1	3.0	
Median Value	2.8	2.5	2.5	2.5	2.5	2.2	2.2	2.4	3.0	3.5	3.5	4.0	4.0	4.0	3.5	3.5	3.5	3.0	3.5	3.3	3.0	3.1	2.8	2.8	
Count	27	27	26	27	27	27	27	27	26	25	23	23	25	25	25	24	24	24	26	27	27	27	27	27	27

fEs

Sweep 0.855 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° 29.8' E

### Kokubunji Tokyo

## IONOSPHERIC DATA

135° E Mean Time

Feb. 1955

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	2.7F	2.7	2.6	2.6	2.7	2.5F	2.5F	4.3	5.0	6.8P	5.9	(5.8)J	6.7	7.75B	(7.3)P	6.5P	A	A	A	A	A	A	A	2.2
2	2.9F	3.1F	2.9	3.0J	3.0F	3.4F	3.4F	>4.3B	5.7	5.4J	5.6J	6.0	5.2	6.3	6.2	6.1	6.2	5.7J	3.4	3.2	2.9	2.8	2.9	3.1
3	3.0	3.0	3.0F	3.0F	3.0	3.0	2.9	5.0	5.7	5.8	5.7	6.4	6.5	6.7	6.3	6.2	5.5	4.7P	(4.6)A	4.4	4.4	(3.8)A	3.1	3.4
4	2.8F	2.7F	2.7	3.0	3.0	3.1	3.2	4.5	5.9	6.1	6.5	7.5	7.3	7.0	6.6	6.2	5.6	5.5P	5.4J	3.6	3.3	3.3	3.3	3.3
5	A	A	A	2.3	2.4F	(2.4)A	(2.5)F	5.4J	5.5J	6.3	5.9	(7.5)P	>7.4B	6.6	6.2	6.7	5.0	5.2P	(4.6)A	3.9	A	A	A	A
6	3.1F	3.3	3.4J	3.4	3.6P	(3.2)F	2.7	4.8	6.8P	5.5	7.2	7.3P	7.2	6.4	6.2	6.0	A	A	6.2	3.9	3.2	2.8	3.0	3.4
7	3.4	3.5P	3.4	3.5	3.9	2.2	2.4	4.4	7.1	6.5	(7.3)P	9.4J	5.9	6.6	6.4	6.1	6.3	5.5	5.6	3.9	3.3P	3.1F	(2.5)F	C
8	C	C	C	C	C	C	C	C	C	(7.3)P	7.3P	7.7	7.73B	7.4	7.1	6.3	5.6	4.5	(4.6)P	3.4	2.8	2.9	2.6	2.5F
9	2.7F	2.9F	3.0	3.0	2.9	2.8	2.5	4.5	6.5	6.6	6.6	7.2	6.3	7.0	5.9	5.9	(6.0)C	6.0	4.5	(3.8)A	3.2	3.0	2.7	2.7
10	3.1	3.4P	2.7	2.6	2.6F	2.6F	2.8F	6.1	5.9	5.6	6.1	7.2	7.0	7.3	7.0	7.1	6.0	5.2P	3.6	(3.3)A	3.0P	3.0	2.7	2.8
11	3.1	3.0	3.1	2.7	2.3	2.3	2.2	(4.7)A	5.5	6.5	6.7Z	6.3	7.8	6.4	C	C	5.2	5.3	3.6	3.0	3.5	2.9	2.8F	3.0
12	3.2	3.4	3.3	2.8F	3.3P	2.7	2.7	4.4	5.3	7.5	6.6	6.0	7.5	7.6	8.8	9.1	7.0	6.0	4.4	3.6	3.6	4.0	4.1	4.0
13	4.1	3.9	3.5	3.5	3.5	3.5	3.3	6.0	5.5	7.0	8.0	7.2	6.8	7.2	7.3	6.6	6.1	5.8	4.0	3.1	3.3	3.2F	(3.6)A	4.0
14	3.0F	2.9F	2.7	2.9F	3.0F	2.6F	2.7F	4.8	5.7	7.7	7.5	7.1	6.7	7.0	6.7	5.6	5.9	5.4	4.5	3.6	3.6	3.6	3.4	3.2F
15	3.2	3.2	3.4	3.5	3.2	3.0	3.1F	5.8	6.6	7.4	8.5	7.7	(7.8)P	8.2J	7.0	5.9	6.3	4.9P	5.3P	4.5	4.9P	2.7	3.0	3.2
16	3.4	3.4	3.5	3.2	3.5	3.2	3.0	5.1	5.8	5.8	7.0	6.0H	7.0	8.4J	7.4	6.6	5.9	6.9	5.9	3.5	3.0	3.0	3.0	3.2
17	3.0	2.9	3.0	3.1	3.6	2.8	2.7	5.9P	6.1	6.2	6.2	6.4	7.4	7.7	6.5	6.3	6.7	6.5	3.9	A	A	3.4	3.0	3.0
18	3.1	3.2	3.4	3.2	3.1	2.9	2.7	5.2P	7.0	6.9	6.9	6.6	6.9	6.2	6.5	6.5	6.0	6.0	5.5	(5.3)P	2.8	C	C	3.0
19	3.0	2.9	3.0	3.0	3.1	3.0	2.8	5.6	7.9	6.2	7.0	6.1	7.2	6.6	6.1	6.4	7.1	5.3	5.2	4.2	3.3	2.8	2.9	2.9
20	3.1	3.4	3.3	3.1	3.3	3.0	3.0	5.7	6.2	6.0	6.6	6.4	6.6	7.0	7.0	6.1J	5.9	6.2	7.1	4.5	3.6	3.4	3.4	3.1
21	3.2	3.2	3.2	3.2	3.2	3.5	3.4	5.1	5.5	(6.2)C	7.0	6.9	7.0	8.4J	7.0	5.9	5.9	5.6	5.5	5.8	2.6	2.8	2.9	3.0
22	3.1	3.4	3.2	3.0	3.7	2.5	2.6H	5.3	6.0	7.0	7.3	7.5	8.5	8.5	6.3P	6.2	6.3	5.4	5.5	2.7	2.5	2.9	3.0	3.3
23	3.7	3.8	2.8	3.1	3.0	2.6	2.8	5.6	7.1	7.0	5.9	7.4	8.3	8.5	5.8	6.5	6.1	5.8	4.8	4.1	4.0H	4.1	3.6F	(3.6)A
24	3.7	3.8F	3.3	2.2	2.6	2.5	2.4	6.2P	8.0J	8.0P	8.9	(8.6)P	9.2	7.2	6.7	6.5	5.4	5.4	4.7	3.7	3.7	3.3	3.2	3.3
25	3.4	3.7	3.2	2.9	2.7	2.6	2.6	5.0	7.2P	7.9J	8.0P	7.6	7.0	8.0P	7.1	6.6	6.1	6.3	4.8	3.5	2.9	2.9	3.0F	3.0F
26	3.2F	3.5	3.3	2.3F	2.6	2.2	2.7	5.5	6.6	5.8H	6.9	8.3P	8.3	8.0	6.4	6.9	5.8	6.3	4.4	3.1	3.0	3.2	3.3	3.4
27	3.7	3.4	3.5	3.5	3.4	2.7	2.9	5.1	5.5	7.0	(7.5)P	7.9	7.5	6.6	7.8	(7.1)P	5.9	5.8	5.3	4.0	3.7	3.4	3.0	3.1
28	3.1	3.1	3.2	3.2	3.6	2.3	2.9	4.9	7.5	7.0	7.4P	6.9	8.5	9.4	7.8P	6.6	7.5P	7.1	4.9	3.9	3.5	3.4	3.4	3.5
29																								
30																								
31																								
Mean Value	3.2	3.3	3.3	3.0	3.1	2.8	2.8	5.1	6.3	6.6	6.9	7.1	7.2	7.3	6.8	6.5	6.1	5.7	4.9	3.9	3.3	3.2	3.1	3.2
Median Value	3.1	3.2	3.2	3.0	3.1	2.7	2.7	5.1	6.1	6.5	7.0	7.2	7.2	7.2	6.7	6.4	6.0	5.6	4.8	3.8	3.3	3.1	3.0	3.2
Count	2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.6	2.7	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.6	2.6	2.7	2.6	2.5	2.5	2.5	2.6

Sweep 1.0 Mc to 17.2 Mc in 2 min

Manual  Automatic

foF2

K 1

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

Lat. 35° 42.4' N  
Long. 139° 29.3' E

**Kokubunji Tokyo**

**IONOSPHERIC DATA**

135° E Mean Time

**Feb. 1955**

**f<sub>o</sub>F<sub>2</sub>**

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 <sup>F</sup>	350	340	320	290	290 <sup>F</sup>	270 <sup>F</sup>	240	220	230 <sup>F</sup>	230	(240) <sup>N</sup>	280	B	(250) <sup>F</sup>	270 <sup>F</sup>	A	A	A	A	A	A	A	A	200	
2	290 <sup>F</sup>	310 <sup>F</sup>	320	(290) <sup>N</sup>	360 <sup>F</sup>	260 <sup>F</sup>	310 <sup>F</sup>	B	230	(240) <sup>N</sup>	(250) <sup>N</sup>	250	280	280	280	270	260	(250) <sup>N</sup>	210	270	300	320	310	290		
3	300	340	350 <sup>F</sup>	330 <sup>F</sup>	330	310	280	250	240	260	250	270	250	270	270	260	250	250 <sup>F</sup>	(270) <sup>A</sup>	240	A	A	A	310	250	
4	300 <sup>F</sup>	300 <sup>F</sup>	320	320	270	300	240	240	250	270	270	260	320	280	270	A	A	270 <sup>F</sup>	(230) <sup>N</sup>	250	310	360	360	350		
5	A	A	A	340	390 <sup>F</sup>	(360) <sup>M</sup>	(320) <sup>F</sup>	(250) <sup>N</sup>	(220) <sup>N</sup>	(250) <sup>N</sup>	250	(270) <sup>F</sup>	B	270	270	250	220	260 <sup>F</sup>	(260) <sup>A</sup>	260	A	A	A	A		
6	340 <sup>F</sup>	350	(330) <sup>N</sup>	300	300 <sup>F</sup>	(290) <sup>A</sup>	280	250	240 <sup>F</sup>	250	260	260 <sup>F</sup>	250	250	250	250	A	A	A	250	260	300	330	340	340	
7	330	330 <sup>F</sup>	350	320	220	300	280	260	270	280	(260) <sup>F</sup>	(250) <sup>F</sup>	230	280	A	260	260	260	260	260	280 <sup>F</sup>	330 <sup>F</sup>	(300) <sup>F</sup>	C		
8	C	C	C	C	C	C	C	C	C	(250) <sup>F</sup>	250 <sup>F</sup>	270	(270) <sup>B</sup>	270	260	250	240	250	(240) <sup>F</sup>	250	310	330	280	330 <sup>F</sup>		
9	370 <sup>F</sup>	340 <sup>F</sup>	320	310	320	310	270	240	240	250	270	240	260	280	260	300	(270) <sup>C</sup>	240	250	(280) <sup>A</sup>	310	270	320	330		
10	320	270 <sup>F</sup>	270	330	300 <sup>F</sup>	350 <sup>F</sup>	290 <sup>F</sup>	230	230	230	260	290	290	270	270	260	260	250 <sup>F</sup>	250	(260) <sup>A</sup>	260 <sup>F</sup>	280	360	350		
11	320	310	270	290	230	300	260	A	A	250	270 <sup>A</sup>	270	250	260	C	C	260	250	230	300	300	250	380 <sup>F</sup>	360		
12	320	310	290	310 <sup>F</sup>	270 <sup>A</sup>	320	320	240	230	280	250	270	290	280	310	270	260	240	240	280	330	310	340	320		
13	300	330	340	300	300	310	240	240	230	260	260	270	310	280	280	240	260	240	230	330	330	360 <sup>F</sup>	(320) <sup>A</sup>	280		
14	290 <sup>F</sup>	300 <sup>F</sup>	300	350 <sup>F</sup>	330 <sup>F</sup>	300 <sup>F</sup>	320 <sup>F</sup>	240	260	260	250	250	270	260	280	260	260	A	240	280	280	290	290	280	330 <sup>F</sup>	
15	320	320	300	290	290	320	290 <sup>F</sup>	240	270	280	240	240	(300) <sup>F</sup>	(270) <sup>N</sup>	260	240	260	250 <sup>F</sup>	290 <sup>F</sup>	300	260 <sup>F</sup>	330	340	340		
16	330	330	300	340	310	300	250	250	230	240	250	300 <sup>H</sup>	330	(290) <sup>N</sup>	270	280	300	260	240	230	320	300	340	300		
17	300	340	300	340	260	270	300	240 <sup>F</sup>	240	240	260	280	280	270	250	250	280	230	220	A	A	290	330	330		
18	360	330	290	310	280	300	340	260 <sup>F</sup>	260	250	250	270	270	300	280	260	260	270	260	(260) <sup>F</sup>	250	C	C	360		
19	320	340	340	330	300	260	270	260	240	220	260	250	270	290	300	300	250	250	250	270	270	330	320	340		
20	320	320	300	320	270	300	280	240	220	250	260	300	270	300	280	(260) <sup>F</sup>	270	280	250	250	300	300	310	320		
21	310	320	320	290	320	260	230	240	270	(270) <sup>C</sup>	270	270	290	(300) <sup>N</sup>	260	280	250	240	300	230	260	330	370	350		
22	330	300	310	330	260	290	310 <sup>H</sup>	250	260	270	240	280	310	260	270 <sup>F</sup>	280	250	280	230	210	260	360	340	350		
23	300	260	300	290	280	320	320	260	240	230	290	260	300	270	250	300	250	250	250	300	330 <sup>H</sup>	300	380 <sup>F</sup>	(350) <sup>F</sup>		
24	320	290 <sup>F</sup>	250	300	310	350	320	250 <sup>F</sup>	(270) <sup>N</sup>	270	250	(290) <sup>F</sup>	260	270	270	250	240	270	280	300	270	320	350	360		
25	340	290	280	290	280	310	300	260	260 <sup>F</sup>	(270) <sup>N</sup>	260 <sup>F</sup>	260	300	270 <sup>F</sup>	270	250	250	250	230	250	320	360	340 <sup>F</sup>	350 <sup>F</sup>		
26	360 <sup>F</sup>	300	260	300 <sup>F</sup>	290	350	300	250	240	280 <sup>H</sup>	270	260 <sup>F</sup>	280	250	270	280	250	240	260	260	370	360	350			
27	300	300	320	280	240	320	290	250	240	260	(260) <sup>F</sup>	280	290	290	290	(260) <sup>F</sup>	250	250	270	260	290	320	320			
28	330	340	320	290	240	310	290	250	260	240	250 <sup>F</sup>	280	320	290	310 <sup>F</sup>	290	280 <sup>F</sup>		260	280	310	330	380	360		
29																										
30																										
31																										
Mean Value	320	320	310	300	290	310	290	240	240	260	270	270	290	280	270	270	260	250	250	270	270	260	300	340	330	
Min Value	320	320	300	310	290	300	290	250	240	250	260	270	280	270	270	260	260	250	250	260	260	300	320	340	340	
Count	26	26	26	27	27	27	27	26	26	28	28	28	27	27	26	26	24	26	27	26	24	24	25	26	26	

**f<sub>o</sub>F<sub>2</sub>**

Sheep 1.0 Mc to 17.2 Mc in 2 min

Manual

Automatic

Lat. 35° 42.4' N  
Long. 139° 29.3' E

**Kokubunji Tokyo**

**IONOSPHERIC DATA**

135° E Mean Time

**f<sub>o</sub>F<sub>2</sub>**

**Feb. 1955**

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	3.10 <sup>F</sup>	2.70	2.80	2.80	2.40	2.50	2.30	2.10	2.20	2.30	2.30	2.60	2.80	2.70	2.40 <sup>A</sup>	2.50 <sup>A</sup>	A	A	A	A	A	A	A	A	2.00
2	2.50 <sup>F</sup>	2.50	2.60	2.70	2.50 <sup>F</sup>	2.30	2.30	2.30	2.30	2.30	2.50	2.50	2.80	2.70	2.70	2.50	2.40	2.20	2.00	2.50	2.50	2.50	2.50	2.60	2.50
3	2.40	2.80	3.00	2.70	2.60	2.50	2.30	2.30	2.30	2.50	2.50	2.70	2.50	2.70 <sup>A</sup>	2.50	2.50	2.30	2.30	2.40 <sup>A</sup>	2.40	A	A	A	2.50	2.30
4	2.50 <sup>F</sup>	2.50 <sup>F</sup>	2.70	2.60	2.30	2.50	2.10	2.20	2.30	2.60	2.60	2.60	2.70	2.80	2.60 <sup>A</sup>	2.70 <sup>A</sup>	2.50 <sup>A</sup>	2.40	2.20	2.20 <sup>A</sup>	2.30 <sup>A</sup>	2.50	3.00	3.00	3.00
5	A	A	A	2.80	3.50 <sup>F</sup>	3.20 <sup>A</sup>	2.80 <sup>F</sup>	2.40	2.30	2.40	2.40	2.70	2.70	2.60	2.60	2.40	2.20	2.30	2.30	2.30 <sup>A</sup>	2.30	A	A	A	A
6	3.00	3.00	2.60	2.50	2.60 <sup>A</sup>	2.60 <sup>MF</sup>	2.50	2.50 <sup>A</sup>	2.30	2.30	2.60	2.60	2.50	2.30	2.50	2.50	A	A	2.40 <sup>A</sup>	2.50 <sup>A</sup>	2.40 <sup>A</sup>	2.70	2.30 <sup>F</sup>	C	
7	2.70	2.80	2.90	2.70	2.00	2.70	2.50	2.20	2.60	2.60	2.50	2.30	2.30	2.50	2.50 <sup>A</sup>	2.50	2.40	2.40 <sup>A</sup>	2.50 <sup>A</sup>	2.40 <sup>A</sup>	2.60 <sup>A</sup>	2.90	2.30 <sup>F</sup>	C	
8	C	C	C	C	C	C	C	C	C	2.50	2.50	2.70	2.70	2.60	2.60	2.40	2.30 <sup>A</sup>	2.30 <sup>A</sup>	2.30 <sup>A</sup>	2.30	2.60	2.70	2.70	2.70	
9	3.10 <sup>F</sup>	2.90	2.60	2.50	2.50	2.50	2.00	2.20	2.40	2.50	2.50	2.30	2.50	2.80	2.60	2.90	2.60	2.20	2.20 <sup>A</sup>	2.20 <sup>A</sup>	2.20 <sup>A</sup>	2.50	3.00	3.20	
10	2.80	2.40	2.30	2.70	2.50	3.00 <sup>F</sup>	2.50	2.20	2.20	2.30	2.60	2.80	2.70	2.70	2.60	2.60	2.40	2.20	2.20	2.20	2.20	2.50	2.50	3.00	3.20
11	3.00 <sup>A</sup>	2.90	2.50	2.30	2.20	2.60	2.40	C	A	2.50	2.60	2.60	2.50	2.50	C	C	2.30	2.20	2.00	2.60	2.50	2.30	3.50 <sup>A</sup>	3.20	
12	2.70	2.50	2.50	2.60	2.30	2.50	2.80	2.10	2.30	2.70	2.40	2.60	2.80	2.70	2.80	2.60	2.30	2.30	2.20	2.20	2.50	2.30	3.20	3.20	
13	2.50	2.60	2.60	2.40	2.30	2.50	2.30	2.20	2.20	2.50	2.50	2.60	2.50	2.70	2.60	2.40	2.40	2.30	2.10	2.80	2.80	2.90	2.60	2.60	
14	2.30	2.50	2.60	3.10	2.80	2.50	2.50	2.30	2.50	2.50	2.40	2.40	2.70	2.50	2.60	2.60	2.80 <sup>A</sup>	2.20	2.40 <sup>A</sup>	2.40	2.50	2.50	2.40	2.40	
15	2.50	2.70	2.50	2.50	2.40	2.50	2.50	2.20	2.50	2.70	2.40	2.40	3.00	3.00	2.60	2.50	2.40	2.50	2.20 <sup>A</sup>	2.30	2.20 <sup>A</sup>	2.50	2.90	2.90	
16	2.60	2.60	2.40	2.60	2.50	2.50	2.30	2.20	2.30	2.40	2.50	2.70	2.70	2.70	2.60	2.60	2.90	2.30	2.10	2.10 <sup>A</sup>	2.60	2.50	2.90	2.60	
17	2.60	2.80	3.00	2.80	2.20	2.20	2.50	2.20	2.40	2.40	2.50	2.60	2.70	2.60	2.50	2.50	2.40	2.20	2.20 <sup>A</sup>	A	A	2.50	2.80	2.90	
18	3.00	2.70	2.40	2.40	2.40	2.30	2.80	2.30	2.40	2.30	2.50	2.50	2.70	2.90	2.70	2.50	2.40	2.40	2.20	2.10	2.10	C	C	3.10	
19	2.70	2.70	2.70	2.70	2.50	2.20	2.20	2.30	2.30	2.20	2.50	2.50	2.70	2.90	2.80	2.70	2.30	2.10	2.10	2.30	2.40	2.50	2.70	3.00	
20	2.80	2.50	2.50	2.60	2.30	2.50	2.50	2.30	2.20	2.40	2.60	2.80	2.70	3.00	2.70	2.50	2.50	2.40	2.20	2.20	2.40	2.50	2.50	2.70	
21	2.50	2.70	2.50	2.30	2.50	2.30	2.00	2.20	2.30 <sup>A</sup>	2.40 <sup>C</sup>	2.60	2.70	2.90	2.80	2.50	2.50	2.40	2.30	2.60 <sup>A</sup>	2.00	2.30	2.70	3.10	3.10	
22	2.80	2.50	2.50	2.50	2.20	2.40	2.30 <sup>H</sup>	2.30	2.40	2.60	2.40	2.70	2.90	2.90	2.50	2.60	2.40	2.30	2.10	2.00	2.40	3.00	2.90	3.00	
23	2.50	2.30	2.10	2.40	2.30	2.50	2.60	2.30	2.40	2.30	2.80	2.60	2.80	2.50	2.50	2.50	2.50	2.30	2.20 <sup>A</sup>	2.70	2.70 <sup>A</sup>	2.50	3.00	2.80 <sup>A</sup>	
24	2.60	2.50	2.10	2.50	2.60	2.90	3.00	2.40	2.50	2.30	2.40	2.70	2.50	2.60	2.70	2.50	2.30	2.20	2.20	2.50	2.30	2.60	2.90	3.10	
25	2.80	2.50	2.30	2.50	2.20	2.50	2.50	2.30	2.50	2.50	2.50	2.50	2.90	2.60	2.60	2.50	2.30	2.20	2.00	2.10	2.70	3.00	3.00	3.00	
26	3.00	2.50	2.10 <sup>A</sup>	2.20	2.30	3.00	2.50	2.30	2.40	2.70 <sup>H</sup>	2.60	2.60	2.60	2.60	2.50	2.60	2.50	2.30	2.10	2.20	3.00	3.10	3.00	2.90	
27	2.50	2.40	2.50	2.30	2.10	2.50	2.50	2.30	2.30	2.40	2.50	2.70	2.80	2.80	2.70	2.60	2.40	2.30	2.30	2.10	2.40	2.40	2.50	2.70	
28	2.80	2.80	2.70	2.40	2.10	2.50	2.50	2.30	2.50	2.40	2.40	2.60	2.80	2.50	2.60	2.70	2.60	2.60	2.10	2.30	2.80	3.00	3.10	3.10	
29																									
30																									
31																									
Mean	2.70	2.60	2.50	2.60	2.40	2.50	2.50	2.30	2.40	2.50	2.50	2.60	2.70	2.70	2.60	2.50	2.40	2.30	2.20	2.30	2.50	2.60	2.80	2.80	
Median	2.30	2.60	2.50	2.60	2.40	2.50	2.50	2.30	2.30	2.40	2.50	2.60	2.70	2.60	2.60	2.50	2.40	2.30	2.20	2.30	2.50	2.60	2.90	2.90	
Count	2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.6	2.6	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.6	2.6	2.7	2.6	2.4	2.5	2.5	2.6	

**f<sub>o</sub>F<sub>2</sub>**

Sweep 1.0 Mc to 1.7.2 Mc in 2 min

Manual  Automatic

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

Lat. 35° 42.4' N  
Long. 139° 28.3' E

**Kokubunji Tokyo**

**IONOSPHERIC DATA**

Feb. 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								2.2	2.8	4.0 <sup>L</sup>	4.0	[4.1] <sup>A</sup>	4.2	3.9	A	A	A							
2								1.6	3.3 <sup>L</sup>	3.8	[4.0] <sup>L</sup>	4.1	4.2	[4.2] <sup>L</sup>	4.1	L	3.5	Q						
3								Q	L	4.0 <sup>L</sup>	4.1	4.5	4.4	[4.2] <sup>A</sup>	4.0 <sup>L</sup>	3.5	L							
4								Q	3.2	4.0 <sup>L</sup>	4.3 <sup>L</sup>	4.2	[4.4] <sup>B</sup>	4.5 <sup>L</sup>	A	A	A							
5								Q	Q	3.9 <sup>L</sup>	L	4.3	4.4 <sup>L</sup>	4.4	[4.2] <sup>A</sup>	4.0	3.2 <sup>L</sup>							
6								A	A	L	A	4.3	4.3	4.1	4.0	3.8 <sup>L</sup>	A							
7								Q	3.9 <sup>L</sup>	4.0	4.4	4.4	4.3	4.0	[4.0] <sup>A</sup>	3.9 <sup>L</sup>	L							
8								Q	C	4.5	4.2	4.4	4.3	4.5	L	L	A							
9								Q	3.6 <sup>L</sup>	4.0	4.3	4.3	4.2	4.4	4.0	4.3	C	Q						
10								Q	2.7 <sup>L</sup>	3.7 <sup>L</sup>	4.0	4.4 <sup>H</sup>	4.2	4.4	4.2	4.0	Q							
11								C	A	4.0	4.2	4.3	4.2	4.2	C	C	L							
12								Q	L	L	4.0	4.1 <sup>L</sup>	4.6	4.1	4.1	3.8	3.4							
13								Q	2.7	4.0 <sup>L</sup>	4.2	4.3 <sup>L</sup>	4.0	4.3	4.2	4.0	3.0							
14								Q	L	3.6	4.3	4.3	4.5	4.2	4.0	4.0 <sup>L</sup>	A							
15								Q	A	4.2 <sup>L</sup>	4.4	4.4	4.5	4.5	4.2 <sup>L</sup>	3.6	3.0							
16								2.3	3.4	3.6 <sup>L</sup>	4.1	4.5 <sup>L</sup>	4.5	4.5	4.1	3.8	4.4 <sup>L</sup>	Q						
17								Q	L	L	4.0	4.3	4.5	4.3	4.2	4.1 <sup>H</sup>	LH	L						
18								Q	3.8	4.0 <sup>L</sup>	4.1	4.2	4.3	4.6	4.3	4.0	L							
19								2.2	3.7 <sup>L</sup>	4.0	4.0 <sup>H</sup>	4.2 <sup>H</sup>	4.5 <sup>H</sup>	4.4	4.4	4.0	3.5							
20								2.3	3.5	3.8	4.2	4.3	4.4	4.5	4.3	L	L							
21								L	3.5 <sup>L</sup>	C	C	4.2	4.4	4.4	4.1	3.7 <sup>L</sup>	3.3 <sup>L</sup>							
22								Q	3.3 <sup>L</sup>	4.1	4.3	4.4	4.5	4.4	4.1	4.0 <sup>L</sup>	3.5	Q						
23								Q	4.0	4.1	4.5	4.2	4.5 <sup>H</sup>	4.5 <sup>H</sup>	4.0	3.6 <sup>L</sup>	L							
24								L	3.5	4.2	4.3	4.2	4.5	4.5	4.3	4.0	3.3 <sup>L</sup>							
25								2.2	4.0 <sup>H</sup>	4.4	4.3	4.5	4.5	4.4 <sup>H</sup>	4.3	4.0	3.5	2.2						
26								L	3.3	4.1 <sup>H</sup>	4.4 <sup>H</sup>	4.1	4.5	4.4 <sup>H</sup>	4.0	3.9 <sup>L</sup>	3.5 <sup>L</sup>	Q						
27								Q	3.4	4.0	4.3	4.4 <sup>H</sup>	4.3	4.5	4.5	4.1	3.6 <sup>L</sup>							
28								Q	4.0	4.2	4.5 <sup>H</sup>	4.3	4.4	4.4 <sup>H</sup>	4.2 <sup>H</sup>	4.0	L	L						
29																								
30																								
31																								
Mean								2.1	3.4	4.0	4.2	4.3	4.5	4.4	4.2	3.9	3.4							
Median								2.2	3.4	4.0	4.2	4.3	4.4	4.4	4.2	4.0	3.5							
Value								6	19	24	25	28	28	28	24	22	13							
Count																								

foF1

Sweep  $\frac{1}{10}$  Mc to  $\frac{1}{10}$  Mc in  $\frac{2}{10}$  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

R'F1

Feb. 1955

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								210	190	240	220	A	A	230	A	A	A							
2								240	210	210	250	250	[260] <sup>A</sup>	[260] <sup>A</sup>	260	250	240	Q						
3								Q	240	230	220	240	[250] <sup>A</sup>	[250] <sup>A</sup>	250 <sup>A</sup>	250	240							
4								Q	210	220	250	270	[260] <sup>B</sup>	250	A	A	A							
5								Q	Q	240	250	270	260	[240]	[240]	240	230							
6								A	A	230	[240] <sup>A</sup>	240	250 <sup>A</sup>	240	240	240	A							
7								Q	250	230	230	250	210	200	[220] <sup>A</sup>	250	240 <sup>A</sup>							
8								C	C	260	250	250	200	230	260	250	A							
9								Q	230	230	210	220	200	220	200	210	C	Q						
10								Q	230	200	250 <sup>A</sup>	190 <sup>H</sup>	210	230	230	260	Q							
11								C	A	230	230	220	250	230	C	C	230							
12								Q	240	240	230	220	230	230	230	240	220							
13								Q	200	180	190	200	160	230	230	220	210							
14								Q	240	240	220	220	190	240	240	230	A							
15								Q	A	230	220	200	220 <sup>A</sup>	250	220	220	220							
16								210	200	250 <sup>A</sup>	240	220	200	220	240	230	230	Q						
17								Q	220	210	220	230 <sup>A</sup>	200	210	250 <sup>B</sup>	200 <sup>H</sup>	220 <sup>H</sup>	230 <sup>A</sup>						
18								Q	230	200	210	210	230	250	250	250 <sup>A</sup>	240							
19								220	240	210	190 <sup>H</sup>	200 <sup>H</sup>	230 <sup>H</sup>	220	230	240	240							
20								230	210	200	240	200	200	230	230	230 <sup>A</sup>	250							
21								230	200	C	C	230	190	200	240	230	230 <sup>A</sup>							
22								Q	230	230	230	200	190	240	240	230	230	Q						
23								Q	240	220	200	200	190 <sup>H</sup>	190 <sup>H</sup>	230	220	250 <sup>A</sup>							
24								240	220	230	210	190	270	230	230	230	230							
25								220	220 <sup>H</sup>	230	230	200	180	200 <sup>H</sup>	230	210	230	200						
26								230	230	200 <sup>H</sup>	190 <sup>H</sup>	240	230	200 <sup>H</sup>	210	220	240	Q						
27								Q	190	240	220	190 <sup>H</sup>	190	230	230	250	230							
28								Q	230	230	200 <sup>H</sup>	200	180	180 <sup>H</sup>	210 <sup>H</sup>	220	260	240						
29																								
30																								
31																								
Mean Value								230	220	220	220	220	220	230	230	230	230	220						
Median Value								230	230	230	220	220	210	230	230	230	230	230						
Count								9	23	27	27	27	27	27	28	25	25	21						

R'F1

Sweep 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° 28.8' E

**Kokubunji Tokyo**

**IONOSPHERIC DATA**

**foE**

**Feb. 1955**

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								1.5	2.2 <sup>F</sup>	2.6	A	A	3.1 <sup>A</sup>	3.1	3.0	2.5	A							
2								B	2.1 <sup>F</sup>	2.6	2.8	2.9	3.0	{3.0} <sup>A</sup>	2.9	2.5	2.3	1.7 <sup>D</sup>						
3								A	2.4	2.6	2.8	3.0	3.0	3.0	2.9	2.7	2.2 <sup>A</sup>							
4								1.7	2.2	2.8	2.9	3.0	3.0	3.0	2.9	2.7	(2.2) <sup>A</sup>							
5								(2.0) <sup>A</sup>	2.4	2.6	2.9	3.1	3.0	3.0	3.0	2.6	2.1							
6								A	A	A	A	A	A	2.9	2.9	2.6	2.1							
7								1.9	2.1	2.6	2.9	3.0	{3.0} <sup>A</sup>	3.1	3.0	2.8	2.3 <sup>F</sup>							
8								C	C	2.7	3.2	3.0	3.1	3.1	3.0	2.7	(2.3) <sup>A</sup>							
9								1.6	2.5	{2.8} <sup>A</sup>	3.1	3.2	3.2	3.2	3.2	2.7	(2.1) <sup>C</sup>	1.5						
10								B	A	2.7	3.0	3.2	3.3	3.3	3.0	2.7	(2.3) <sup>A</sup>							
11								C	A	AF	AF	3.0	3.0	3.1	C	C	2.2							
12								B	2.4	2.6	2.9	3.1	3.2	3.1	3.0	2.7	2.3							
13								1.7 <sup>F</sup>	2.4 <sup>F</sup>	2.8	3.0	3.2	3.2	3.0	2.9	2.7	A							
14								2.0	{2.2} <sup>A</sup>	2.5	3.0	3.1	3.3	3.3	3.0	2.6	(2.3) <sup>A</sup>							
15								A	A	A	A	A	A	A	3.1	3.0	2.6	2.4						
16								B	2.3	2.7	3.0	3.0	3.1	3.0	3.0	A	1.6 <sup>B</sup>							
17								1.9	2.2	(2.7) <sup>A</sup>	3.0	{3.1} <sup>A</sup>	3.2	3.0	2.9	2.3	A							
18								1.8	2.4	2.8	3.0	3.0	3.2	3.2	3.1	2.8	2.4							
19								1.8	2.5	2.7	3.0	3.1	3.2	3.0	3.0	2.6	2.2							
20								1.5 <sup>B</sup>	2.4	2.7	3.0	3.2	A	A	A	A	A							
21								1.9	2.5	C	C	A	3.2	3.2	3.0	2.8	A							
22								1.6	2.5	3.0	3.1	3.2	3.3	3.3	3.1	2.8	2.4	1.7						
23								1.9	2.5	(2.6) <sup>A</sup>	{3.0} <sup>A</sup>	A	A	3.0	3.0	A	A							
24								A	2.4	2.8	3.0	{3.0} <sup>A</sup>	3.0	3.2	3.0	2.8	2.3							
25								2.0	2.4	(2.8) <sup>A</sup>	A	A	3.2	3.2	3.0	2.8	(2.3) <sup>A</sup>	1.8						
26								1.7	2.5	2.9	3.0	3.1	3.3	3.2	3.0	2.8	2.2	1.9						
27								1.8	2.5	2.8	3.0	3.2	3.1	3.2	3.1	A	1.6 <sup>F</sup>							
28								1.8	2.4	3.0	{3.2} <sup>A</sup>	3.3	{3.2} <sup>A</sup>	3.1	3.0	2.8	2.3	1.6						
29																								
30																								
31																								
Mean Value								1.8	2.4	2.7	3.0	3.1	3.1	3.1	3.0	2.7	2.2	1.7						
Median Value								1.8	2.4	2.7	3.0	3.1	3.2	3.1	3.0	2.7	2.3	1.7						
Count								18	23	24	22	22	24	27	26	23	22	7						

**foE**

Frequency 1.0 Mc to 1.7.2 Mc in 2 min

Manual  Automatic

**K 6**

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

Lat. 35° 42.4' N  
Long. 139° 28.3' E

**Kokubunji Tokyo**

**IONOSPHERIC DATA**

Feb. 1955

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								130	130	130 <sup>A</sup>	A	A	A	110	110	110	A							
2								B	130	110	120	110	110	[120] <sup>A</sup>	120	120	110	120						
3								A	130	110	110	110	110	110	110	110	A							
4								170	110	110	110	110	110	110	110	120	120							
5								150	120	110	110	110	110	110	110	110	110							
6								A	A	A	A	A	A	110	110	110	120							
7								150	120	110	120	110	[110] <sup>A</sup>	110	110	120	120							
8								C	C	110	110	110	110	110	120 <sup>A</sup>	110	120							
9								130	130 <sup>A</sup>	[120] <sup>A</sup>	110	110	110	110	110	110	[120] <sup>C</sup>	120						
10								B	A	120	120	110	120	120	110	110	110							
11								C	A	AF	AF	110	110	110	C	C	110							
12								B	120	120	120	110	110	110	110	110	110							
13								120	130 <sup>A</sup>	110	110	110	110	110	110	110	A							
14								150	[140] <sup>A</sup>	120	120	110	110	120	110	110	120							
15								A	A	A	A	A	A	110	110	110	120							
16								B	120	110	110	110	110	110	110	110	A	B						
17								140	110	110	110	110	[110] <sup>A</sup>	110	110	110	110	A						
18								150	120	110	120	120	130 <sup>A</sup>	120	120	130	130							
19								130	120	110	120	120	110	110	110	110	120							
20								B	110	120	120	110	A	A	A	A	A							
21								120	110	C	C	A	120	120	130	110	A							
22								130	120	120	110	110	110	110	110	120	120	140						
23								140	110	110	110	A	A	110	110	A	A							
24								A	110	110	110	[110] <sup>A</sup>	110	110	110	120	120							
25								120	110	110	A	A	110	110	110	110	[120] <sup>A</sup>	120						
26								130	110	120	110	120	110	110	110	110	120	120						
27								130	110	110	110	110	110	110	110	A	A	130 <sup>F</sup>						
28								130	120	110	[110] <sup>A</sup>	110	[110] <sup>A</sup>	110	110	110	120	130						
29																								
30																								
31																								
Mean Value								140	120	110	110	110	110	110	110	110	120	130						
Median Value								130	120	110	110	110	110	110	110	110	120	120						
Count								17	23	24	22	22	23	27	26	24	20	7						

135° E

K 7

Sheep 1.0 Mc to 1.7.2 Mc in 2 min  
 Manual  Automatic

Lat. 35° 42.4' N  
Long. 139° 29.8' E

**Kokubunji Tokyo**

**IONOSPHERIC DATA**

135° E Mean Time

**Feb. 1955**

**fEs**

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	2.0	2.4	2.6F	3.2	2.8	2.7	2.5	3.0	3.2	3.2	4.3	6.5	6.5Y	4.5	7.0	7.0F	6.5Y	7.0	7.2Y	7.0	4.7	4.7	5.0	
2	C	1.8	2.0	5.0	3.1	2.9	2.4	2.9	2.7	3.2	3.2	3.0	3.2	3.7	3.2	3.2	2.9	2.6	2.6	3.2	E	E	E	E	
3	E	2.1	2.0	2.0	2.1Y	1.9	3.0	3.2	2.9	G	3.2	3.7	4.6	5.7	4.7	4.4	3.3	2.6	5.0	4.4	4.4	4.4	4.8	2.9	
4	2.6	2.6	3.1	2.8	2.5	2.5Y	E	G	2.7	3.2	3.2	G	G	G	6.4	7.0	5.0	3.2	4.3	2.9	2.7	3.0	4.5	4.5	
5	4.3	6.8Y	6.5Y	5.0	3.2	4.9	5.0	2.8	G	3.0	3.2	4.5	4.5	5.0	3.2	3.2	2.8	2.6	5.4Y	4.7	4.5	7.2Y	7.0Y	4.9	
6	4.5Y	3.2	E	2.9	3.2	3.2	2.5	4.7	4.5	3.0	6.0	4.2	5.7	G	G	5.3	6.5	4.7	7.0	3.5	3.2	3.0	3.0	3.3	
7	2.7	2.5Y	2.8	2.4	2.5	2.5Y	2.5	2.5	2.5	2.6	3.0	G	3.2	G	G	3.2	5.0	4.5	4.4	4.7F	4.5F	3.2	3.0	C	
8	C	C	C	C	C	C	C	C	C	3.2	3.2	2.9	3.2	3.1	3.2	4.2	4.5	4.0	3.7	4.4	3.2	6.5	4.3	3.0	
9	2.5	2.6	2.5	2.5	2.6	E	E	2.5	3.2	4.5	2.9	G	G	G	G	4.4	C	2.8	3.5	4.8	3.9	4.3	3.0	3.0	
10	2.9	2.9	2.9	2.9	2.4Y	2.1	E	B	4.5	4.6	4.5	G	3.2	3.1	G	4.0	4.6	3.5	3.0	7.0	7.0	4.7	3.2	3.0	
11	3.2	2.7	2.9	3.2	2.6	2.5	2.4	C	6.5	5.0	5.5F	G	4.5	4.4	C	C	4.5	3.0	3.0	E	2.6	3.2	2.6	E	
12	2.3	E	2.5Y	2.0	3.1	1.7	E	B	2.7	2.9	3.3	4.4	G	4.5	G	4.3	3.2	3.7	3.2	3.0	3.0	3.0	3.2	3.2	
13	E	E	2.5	2.5	2.8	2.5	E	2.9F	3.2	3.2	G	G	G	G	G	4.4	4.4	3.5	3.2	3.0	3.2	7.0	5.7	4.5	
14	3.2F	3.1F	3.2F	3.2F	3.2F	2.5	2.6	2.5	3.0	3.0	3.0	3.2	G	G	4.2	G	3.6	3.0	4.3	3.2	E	2.0	E	3.6F	
15	2.6	2.7	4.3F	3.2F	2.2Y	2.4Y	E	2.6Y	4.5	5.5	4.1	4.5	5.6	3.5	G	3.3	3.0	3.0	2.8	2.7	3.0	2.5	2.8F	2.9	
16	2.4Y	E	E	2.6Y	2.5	2.5	E	2.6Y	2.8	4.0	G	3.1	3.2	3.2	3.9	3.5	3.2	2.9	2.5	4.4	3.0	3.1	2.4	2.5	
17	2.8F	2.5	2.5	2.5	2.3	2.3	E	2.5	3.2	3.9	3.2	5.5	4.2	3.9	3.5	3.2	2.9	3.0	4.3	7.0	5.6	3.2	2.4	2.4	
18	E	2.4Y	2.2Y	2.4Y	2.5F	2.4	E	2.5	G	3.0	3.5	3.9	3.9	2.9	3.2	4.2	3.9	3.1	3.0	2.5	2.4Y	C	C	E	
19	E	2.5	3.0F	2.5F	2.5Y	E	E	2.5	G	3.2	3.2	5.0	3.1	3.5	3.5	3.5	3.0	2.5Y	2.4Y	E	E	E	E	E	
20	E	C	E	2.0	E	2.6	2.5	G	3.0	3.0	3.2	G	3.2	4.4	4.4	5.3	5.0	3.5	3.2	2.9	2.8	2.9	2.6	2.5	
21	2.6	2.5	2.6F	2.5F	2.5F	2.4	2.3Y	2.5	3.2	C	C	4.4	3.2	3.2	3.2	3.5	3.6	2.9	4.0	2.6	2.4	E	3.5	3.4	
22	3.5	3.2	3.0	2.5	2.5	2.0	2.5Y	2.4	3.2	2.8	3.5	G	G	G	G	3.2	3.0	G	2.2	2.1	1.8	2.2	E	2.5Y	
23	2.5	2.5Y	2.5	2.2	2.5	2.5	2.6	2.4Y	G	3.5Y	G	3.6	3.8	G	3.1	3.5	4.0	2.8	3.5	3.2	2.8	3.2	4.5	4.8	
24	4.5	3.3	3.0F	2.9F	3.1F	E	2.9	3.5	3.2	3.2	3.2	5.6	G	G	2.6	3.0	3.0	3.0	2.6	1.8	2.4	1.9	2.9	2.8F	
25	1.9	2.5Y	2.4Y	2.5	2.5Y	2.9F	E	2.5	3.2	3.5	3.5	3.5	G	G	3.5	G	3.2	2.5	E	E	2.3	2.5	3.0	3.5	
26	3.2F	3.2	2.9	2.9	2.5	2.6F	E	2.4	G	2.9	G	4.2	G	G	G	G	3.2	2.5	E	2.5	2.5	2.5	2.5	2.7	
27	E	2.6	2.9	2.5	2.7	2.6	E	2.6	G	2.9	3.5	G	G	G	4.4	6.8	3.2	2.9	E	E	E	E	E	4.4	
28	3.0	2.5	2.6Y	2.6Y	E	2.6Y	2.5	2.7	3.5	G	9.5	G	4.3	G	G	G	G	2.8	2.5	2.7	3.4	2.6	2.5	1.7	
29																									
30																									
31																									
Mean Value	3.0	2.8	2.9	2.8	2.7	2.6	2.7	2.9	3.4	3.5	3.8	4.1	4.1	4.0	3.8	4.2	3.9	3.2	3.7	3.8	3.5	3.5	3.6	3.3	
Median Value	2.6	2.5	2.6	2.5	2.5	2.5	2.3	2.5	3.0	3.2	3.2	3.2	3.2	3.0	3.2	3.5	3.3	3.0	3.1	3.0	2.8	3.0	3.0	3.0	
Count	2.6	2.6	2.7	2.7	2.7	2.7	2.7	2.3	2.7	2.7	2.7	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.7	2.7	2.7	

**fEs**

Swing 1.0 Mc to 1.72 Mc in 2 min

Manual  Automatic

**K 8**

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

Lat. 35° 42.4' N  
Long. 139° 28.3' E

**Kokubunji Tokyo**

**IONOSPHERIC DATA**

**Feb. 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	2.8F	2.9	2.9	3.0	3.1	3.2F	3.3F	3.5	3.8	3.8P	3.5	(3.1) <sup>Y</sup>	3.2	B	(3.7) <sup>F</sup>	3.3P	A	A	A	A	A	A	A	A	3.6
2	3.0F	3.0F	3.0	(3.1) <sup>Y</sup>	2.8F	3.3F	3.0F	B	3.7	(3.5) <sup>Y</sup>	(3.5) <sup>Y</sup>	3.5	3.4	3.3	3.3	3.3	3.3	(3.4) <sup>Y</sup>	3.9	3.2	3.1	2.9	3.0	3.0	3.2
3	3.1	3.0	2.9F	3.0F	2.9	3.1	3.2	3.3	3.6	3.5	3.5	3.3	3.5	3.2	3.4	3.3	3.4	3.4P	(3.2) <sup>M</sup>	3.1	3.2	(3.1) <sup>A</sup>	3.0	3.4	3.4
4	3.1F	3.0F	3.0	3.0	3.3	3.2	3.4	3.5	3.3	3.4	3.3	3.6	3.0	3.2	3.2	3.3	3.4	3.3P	(3.6) <sup>Y</sup>	3.4	3.1	2.8	3.0	2.9	3.4
5	A	A	A	3.1	2.7F	(2.8) <sup>A</sup>	(3.0) <sup>F</sup>	(3.6) <sup>Y</sup>	(3.8) <sup>Y</sup>	3.5	3.4	(3.4) <sup>P</sup>	B	3.2	3.2	3.5	3.5	3.4P	(3.3) <sup>A</sup>	3.2	A	A	A	A	A
6	2.9F	2.9	(3.0) <sup>Y</sup>	3.1	3.0P	(3.0) <sup>F</sup>	3.1	3.5	3.5P	3.4	3.4	3.5P	3.6	3.4	3.5	3.5	A	3.3	3.3	3.1	2.8	2.8	3.0	3.0	3.0
7	3.0	3.0P	2.9	3.0	3.5	3.0	3.3	3.4	3.3	3.1	(3.7) <sup>F</sup>	(3.5) <sup>Y</sup>	3.6	3.1	3.2	3.4	3.3	3.3	3.3	3.3	3.2P	2.9F	(3.0) <sup>F</sup>	C	3.0
8	C	C	C	C	C	C	C	C	C	(3.7) <sup>P</sup>	3.5 <sup>P</sup>	3.4	(3.4) <sup>B</sup>	3.4	3.3	3.4	3.6	3.4	(3.5) <sup>P</sup>	3.6	2.9	2.9	3.1	2.8F	3.0
9	2.7F	2.9F	3.1	3.1	3.1	3.0	3.2	3.5	3.5	3.4	3.3	3.7	3.3	3.2	3.3	3.3	3.4	3.5	3.5	(3.3) <sup>A</sup>	3.1	3.3	2.9	2.9	3.0
10	3.0	3.3P	3.3	3.0	3.0F	2.8F	3.1F	3.6	3.5	3.6	3.4	3.3	3.2	3.4	3.4	3.5	3.4	3.4	3.4	3.4	3.3F	3.1	2.8	2.8	3.0
11	3.0	3.1	3.3	3.1	3.5	3.2	3.3	(3.3) <sup>M</sup>	3.3	3.3	3.2 <sup>Y</sup>	3.3	3.5	3.3	C	C	3.4	3.4	3.6	3.1	3.1	3.5	2.8F	2.8	3.0
12	3.1	3.0	3.1	3.1F	3.2F	2.9	2.9	3.6	3.6	3.5	3.6	3.3	3.3	3.4	3.2	3.4	3.4	3.5	3.5	3.7	3.0	3.0	2.8F	(3.0) <sup>A</sup>	3.2
13	3.0	2.9	2.9	3.1	3.1	3.1	3.4	3.7	3.6	3.4	3.7	3.4	3.0	3.3	3.4	3.5	3.4	3.5	3.5	3.7	3.0	3.0	2.8F	(3.0) <sup>A</sup>	3.2
14	3.1F	3.1F	3.1	2.8F	3.0F	3.0F	3.0F	3.5	3.5	3.5	3.5	3.6	3.2	3.5	3.3	3.4	3.3	3.5	3.5	3.2	3.3	3.2	3.2	3.2	3.1F
15	3.1	3.1	3.1	3.2	3.2	3.0	3.2F	3.5	3.3	3.5	3.6	3.7	(3.2) <sup>Y</sup>	(3.4) <sup>Y</sup>	3.4	3.5	3.4	3.4P	3.3P	3.1	3.4P	2.8	2.8	2.9	3.0
16	3.0	3.0	3.1	2.9	3.1	3.1	3.4	3.4	3.6	3.5	3.5	3.0 <sup>H</sup>	2.9	(3.3) <sup>Y</sup>	3.5	3.2	3.2	3.4	3.6	3.7	2.9	3.1	2.8	3.1	3.0
17	3.0	2.9	3.0	2.9	3.5	3.3	3.0	3.5P	3.5	3.5	3.5	3.2	3.5	3.5	3.6	3.5	3.2	3.6	3.6	A	A	3.2	3.0	3.0	3.0
18	2.8	3.0	3.2	3.2	3.2	3.0	2.9	3.4P	3.4	3.5	3.5	3.6	3.4	3.1	3.2	3.3	3.4	3.3	3.5	(3.4) <sup>F</sup>	3.4	C	C	2.8	3.0
19	3.1	2.9	2.9	3.0	3.2	3.4	3.2	3.4	3.7	3.7	3.4	3.4	3.0	3.3	3.1	3.2	3.1	3.6	3.4	3.5	3.3	3.2	2.8	2.9	3.0
20	3.0	3.0	3.1	3.0	3.3	3.1	3.1	3.6	3.7	3.7	3.4	3.3	3.2	3.3	3.1	3.2	(3.3) <sup>Y</sup>	3.3	3.2	3.5	3.4	3.0	3.0	3.0	3.0
21	3.1	3.0	3.1	3.2	3.0	3.4	3.7	3.6	3.3	(3.2) <sup>C</sup>	3.2	3.2	3.2	3.2	3.4	3.3	3.4	3.5	3.2	3.6	3.7	2.9	2.8	2.9	3.0
22	2.9	3.1	3.1	3.0	3.5	3.1	3.0 <sup>H</sup>	3.5	3.4	3.4	3.6	3.3	3.1	3.3	3.3P	3.2	3.4	3.2	3.6	3.7	3.3	2.8	2.9	2.8	3.0
23	3.1	3.4	3.1	3.2	3.3	3.0	3.0	3.4	3.7	3.4	3.3	3.5	3.5	3.5	3.4	3.1	3.4	3.5	3.5	3.1	3.0 <sup>H</sup>	3.1	2.7F	(2.8) <sup>F</sup>	3.0
24	2.9	3.1F	3.5	3.0	3.0	2.8	3.0	3.4P	(3.4) <sup>Y</sup>	3.4P	3.5	(3.3) <sup>P</sup>	3.4	3.6	3.2	3.3	3.5	3.5	3.3	3.3	3.1	3.2	3.0	2.9	2.7
25	3.0	3.2	3.2	3.2	3.1	3.0	3.1	3.4	3.5P	(3.4) <sup>Y</sup>	3.5P	3.5	3.1	3.3P	3.3	3.4	3.4	3.4	3.5	3.5	3.2	2.9	2.9F	2.9F	3.0
26	2.9F	3.1	3.2	3.0F	3.1	2.9	3.1	3.4	3.6	3.7 <sup>H</sup>	3.4	3.4P	3.4	3.4	3.3	3.2	3.5	3.4	3.4	3.4	3.3	2.8	2.8	2.9	3.0
27	3.2	3.1	3.0	3.4	3.6	2.9	3.2	3.5	3.5	3.4	(3.6) <sup>F</sup>	3.4	3.3	3.2	3.3	(3.5) <sup>F</sup>	3.4	3.4	3.4	3.3	3.2	3.1	3.0	3.0	3.0
28	2.9	2.9	3.0	3.1	3.6	3.0	3.2	3.4	3.5	3.6	3.7 <sup>F</sup>	3.4	3.1	3.2	3.0 <sup>P</sup>	3.1	3.4P	3.4	3.2	3.0	3.0	2.9	2.7	2.9	3.0
29																									
30																									
31																									
Mean Value	3.0	3.0	3.1	3.1	3.2	3.1	3.2	3.5	3.5	3.4	3.5	3.4	3.3	3.3	3.3	3.3	3.4	3.4	3.5	3.3	3.1	2.7	2.9	3.0	3.0
Median Value	3.0	3.0	3.1	3.1	3.1	3.0	3.1	3.5	3.5	3.4	3.5	3.4	3.3	3.3	3.3	3.3	3.4	3.4	3.5	3.3	3.1	2.9	2.9	2.9	2.9
Count	26	26	26	27	27	27	26	26	27	28	28	28	27	27	27	27	26	26	26	27	26	25	25	25	26

(M3000)F2

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

Lat. 35° 42.4' N  
Long. 139° 29.3' E

**Kokubunji Tokyo**

**IONOSPHERIC DATA**

**Feb. 1955**

**fminF**

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	1.3	1.2	1.3	1.0	1.6	1.4	1.5	2.2	3.0	3.5	4.0 <sup>A</sup>	4.0 <sup>A</sup>	3.5	5.5 <sup>A</sup>	A	A	A	A	A	A	A	A	1.5	
2	1.6	1.4	E	1.2	1.0	1.3	1.6	1.5	2.1	3.0	3.7	3.8	4.0	4.0 <sup>A</sup>	3.6	3.5	2.6	2.3	1.7	1.9	1.5	1.4	1.5	1.5	
3	1.4	1.3	1.0	E	1.0	1.3	1.5	2.0	2.7	3.0	3.3	3.8	4.0 <sup>A</sup>	5.0 <sup>A</sup>	3.8 <sup>A</sup>	2.7	2.4	1.8	(1.6) <sup>A</sup>	1.5	4.0 <sup>A</sup>	(2.8) <sup>A</sup>	1.7	2.0	
4	1.3	1.7	1.4	E	1.0	1.4	1.5	1.8	2.4	2.9	3.7	3.9	4.0	3.8	5.0 <sup>A</sup>	5.5 <sup>A</sup>	4.9 <sup>A</sup>	1.8	(2.0) <sup>A</sup>	2.1 <sup>A</sup>	1.5	1.5	1.5	2.0	
5	A	A	A	1.2	1.3	(1.4) <sup>A</sup>	1.6	2.0	2.4	3.4	3.0	4.0	4.2	4.0	<5.0 <sup>C</sup>	2.8	2.2	1.8	(1.8) <sup>A</sup>	1.9	A	A	A	A	
6	1.3	2.0	E	1.3	2.3 <sup>A</sup>	(2.2) <sup>A</sup>	2.0	4.0 <sup>A</sup>	4.0 <sup>A</sup>	2.9	4.3 <sup>A</sup>	3.8	4.0 <sup>A</sup>	3.5	3.5	3.5	A	A	5.2 <sup>A</sup>	1.5	1.5	1.6	2.1 <sup>A</sup>	2.0	
7	1.3	1.3	E	1.4	E	1.3	1.5	2.1	2.6	2.9	3.4	3.5	3.5	3.6	6.2 <sup>A</sup>	3.3	3.1 <sup>A</sup>	3.4 <sup>A</sup>	(2.9) <sup>A</sup>	2.9 <sup>A</sup>	2.1 <sup>A</sup>	1.9	1.5	2.0	
8	C	C	C	C	C	C	C	C	C	4.0	3.5	3.9	3.4	3.5	3.5	3.4	3.5 <sup>A</sup>	(3.2) <sup>A</sup>	3.0 <sup>A</sup>	1.9	1.7	1.6	1.9	1.6	
9	1.5	1.4	1.1	1.2	E	1.3	1.4	1.7	2.6	2.9	3.2	3.4	3.4	3.4	3.3	3.0	(2.5) <sup>C</sup>	2.0	A	A	1.8	1.9	1.8	1.9	
10	1.6	1.8	1.2	E	1.4	1.4	1.7	1.7	2.4	2.7	3.8 <sup>A</sup>	3.3	3.5	3.5	3.3	3.1	2.9	2.0	1.7	(1.7) <sup>A</sup>	1.7	2.0	2.1 <sup>A</sup>	1.6	
11	2.2 <sup>A</sup>	2.0	1.5	1.0	1.4	1.3	1.5	2.3	5.5 <sup>A</sup>	3.0	3.5	3.5	3.5	3.6	C	C	2.2	2.0	1.5	1.5	1.5	1.6	1.5	1.5	
12	1.3	1.4	E	E	E	1.4	1.4	2.0	2.8	3.3	3.5	3.5	3.5	3.8	3.2	3.4	2.7	2.7	2.1	1.6	1.5	1.6	1.5	1.5	
13	1.4	1.4	1.5	1.3	1.3	1.4	1.4	2.0	2.4	2.8	3.0	3.2	3.4	3.5	3.0	2.9	2.5	2.1	1.5	1.5	2.0	1.5	(1.9) <sup>A</sup>	2.3 <sup>A</sup>	
14	1.4	1.4	1.3	1.4	1.2	1.4	1.3	2.0	2.8	3.0	3.3	3.4	3.3	3.5	3.4	2.9	5.0 <sup>A</sup>	2.1	2.2 <sup>A</sup>	1.9	1.7	1.5	1.5	1.7	
15	1.3	1.3	1.2	1.3	1.2	1.3	1.5	2.0	3.5 <sup>A</sup>	3.1	3.0	3.5	4.0 <sup>A</sup>	3.8	3.0	2.7	2.4	(2.0) <sup>A</sup>	1.5	1.4	(1.4) <sup>A</sup>	1.5	1.6	1.6	
16	1.4	1.2	E	E	E	1.3	1.4	1.7	2.3	3.4	3.3	3.4	3.4	3.5	3.0	3.0	2.8	2.2	1.4	(1.6) <sup>A</sup>	1.7	1.7	1.6	1.5	
17	1.8	1.4	1.5	1.0	E	1.4	1.5	1.9	2.5	3.1	3.4	(3.4) <sup>A</sup>	3.5	3.3	4.0 <sup>B</sup>	2.9	2.3	A	A	A	A	1.9	1.4	1.5	
18	1.4	1.3	E	E	E	1.3	1.5	1.9	2.6	2.8	3.4	3.5	4.0	3.8	3.5	3.5	3.0	2.2	1.6	1.6	<1.6 <sup>C</sup>	C	C	1.5	
19	1.4	1.4	1.3	1.0	1.1	1.3	1.3	1.8	2.8	2.8	3.0	3.2	3.8	3.3	3.3	2.8	2.4	2.0	1.4	1.3	1.5	1.5	1.3	1.5	
20	1.5	1.3	1.0	E	1.4	1.7	1.5	1.8	2.4	2.8	3.7	3.3	3.4	3.5	3.4	(3.2) <sup>A</sup>	3.0	2.0	1.5	1.9	1.6	1.7	1.5	1.3	
21	1.3	1.4	1.0	E	E	1.3	1.3	2.0	2.5	C	C	3.4	3.5	3.4	3.4	3.0	(2.6) <sup>A</sup>	2.1	3.0 <sup>A</sup>	1.5	1.5	1.4	1.5	1.5	
22	1.5	2.1 <sup>A</sup>	E	E	E	1.4	1.5	2.2	2.6	3.5	3.4	3.4	3.4	3.5	3.5	2.4	2.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
23	1.4	1.3	E	1.0	1.2	1.4	1.5	2.0	2.8	2.9	3.0	3.3	3.4	3.6	3.3	2.9	3.5 <sup>A</sup>	2.1	(2.1) <sup>A</sup>	2.1	1.7	1.8	1.5	(1.5) <sup>A</sup>	
24	1.5	1.4	1.2	1.0	1.4	1.3	1.7	2.6	2.5	3.0	3.3	3.4	3.9	3.4	3.4	3.0	2.6	2.1	1.5	1.5	1.4	1.5	1.4	1.5	
25	1.3	1.3	1.0	E	E	1.4	1.5	2.0	2.6	3.2	3.4	3.3	3.3	3.3	3.3	2.8	2.4	1.8	1.5	1.5	1.5	1.5	1.5	1.5	
26	1.5	1.4	(1.2) <sup>A</sup>	1.0	E	1.4	1.5	2.1	2.5	3.0	3.0	3.5	3.4	3.5	3.0	2.8	2.5	2.0	1.4	1.3	1.5	1.5	1.5	1.3	
27	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.2	2.5	3.3	3.2	3.3	3.5	3.6	3.4	3.3	2.5	2.0	1.3	1.3	1.3	1.3	1.5	1.5	
28	1.4	1.3	1.4	1.3	1.0	1.3	1.5	2.2	2.6	3.0	3.4	3.8	3.4	3.5	3.4	2.9	2.5	2.0	1.7	1.3	1.5	1.5	1.4	1.4	
29																									
30																									
31																									
Mean Value	1.4	1.5	1.2	1.2	1.2	1.4	1.5	2.0	2.7	3.1	3.4	3.5	3.6	3.6	3.6	3.2	2.8	2.2	1.9	1.7	1.7	1.7	1.6	1.5	
Median Value	1.4	1.4	1.2	1.0	1.0	1.4	1.5	2.0	2.6	3.0	3.4	3.4	3.5	3.5	3.4	3.0	2.6	2.0	1.6	1.5	1.5	1.5	1.5	1.5	
Count	26	26	26	27	27	27	27	27	27	27	27	28	28	28	26	26	26	26	25	25	25	24	25	25	27

**fminF**

Sweep 1.0 Mc to 17.2 Mc in 2 min  
 Manual  Automatic

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

**Kokubunji Tokyo**  
Lat. 35° 42.4' N  
Long. 139° 28.8' E

**IONOSPHERIC DATA**

**f min E**

**Feb. 1955**

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	E	1.2	E	1.4	1.3	1.4	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.5	
2	[1.4]	1.4	E	E	E	1.4	1.5	1.5	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.5	1.5	E	E	E	
3	E	1.4	1.3	1.0	1.0	1.4	1.5	1.4	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.4	1.4	1.5	1.5	1.5	1.4	1.3	
4	1.4	1.4	1.1	E	E	1.4	E	1.4	1.4	1.4	1.4	1.0	1.5	1.4	1.4	1.4	1.3	1.4	1.3	1.4	1.6	1.5	1.5	1.5	
5	1.4	1.3	E	E	E	1.4	1.4	1.4	1.4	1.4	1.3	1.4	1.5	1.5	1.5	1.4	1.3	1.4	1.5	1.5	1.5	1.5	1.5	1.3	
6	1.4	1.3	E	E	E	1.3	1.3	1.3	1.3	1.5	1.5	1.6	1.5	1.5	1.5	1.4	1.4	1.3	1.3	1.4	1.3	1.4	1.5	1.3	
7	1.3	1.5	1.3	1.4	1.0	1.5	1.5	1.5	1.4	1.3	1.5	1.5	1.5	2.1	1.5	2.1	1.5	1.3	1.5	1.4	1.3	1.3	1.5	C	
8	C	C	C	C	C	C	C	C	C	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.5	1.4	1.3	1.3	1.3	1.5	1.5	1.5	
9	1.6	1.5	1.3	1.2	1.0	E	E	1.3	1.3	1.4	1.4	1.4	1.5	1.4	1.5	1.4	[1.4]	1.4	1.3	1.4	1.3	1.5	1.3	1.5	
10	1.4	1.3	E	1.1	1.4	1.5	E	2.0	1.4	1.3	1.5	1.5	1.5	1.5	1.5	1.4	1.5	1.3	1.4	1.5	1.5	1.5	1.5	1.5	
11	1.3	1.5	1.3	E	1.5	1.5	1.5	[1.4]	1.4	1.4	1.4	2.1	1.5	1.5	C	C	1.5	1.5	E	E	1.5	1.5	1.3	E	
12	1.9	E	1.5	1.3	1.4	1.5	E	B	1.4	1.5	1.5	1.5	2.0	2.0	1.5	1.5	1.5	1.4	1.4	1.4	1.5	1.4	1.5	1.6	
13	E	E	1.2	E	E	1.4	E	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.4	1.5	1.4	1.4	1.4	1.4	1.4	1.5	1.4	1.4	
14	1.4	1.3	1.0	E	1.5	1.5	1.5	1.5	1.4	1.5	1.4	1.4	1.5	1.4	1.4	1.4	1.4	1.5	1.3	1.4	1.4	1.5	E	1.5	
15	1.6	1.3	1.2	E	1.4	1.5	E	1.4	1.4	1.5	1.4	1.4	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.5	1.7	1.4	1.5	1.4	
16	1.5	E	E	E	1.5	1.5	E	2.1	1.5	1.4	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.6	1.3	1.4	1.3	1.4	1.3	
17	1.4	1.6	E	E	E	1.5	E	1.5	1.4	1.4	1.5	1.5	1.4	1.5	1.4	1.4	1.4	1.3	1.4	1.5	1.3	1.3	1.3	1.6	
18	E	1.5	1.2	E	E	1.4	E	1.5	1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.4	1.4	1.5	1.3	1.5	<1.6	C	C	E	
19	E	1.4	E	E	E	E	E	1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.5	1.5	1.4	1.4	1.6	E	E	E	E	E	
20	E	C	E	E	E	1.4	2.1	1.5	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.4	1.5	1.3	1.3	1.5	1.3	1.5	1.5	
21	1.5	1.5	1.0	E	E	1.5	1.4	1.4	1.5	C	<3.5	1.5	1.4	1.4	1.4	1.4	1.5	1.4	1.5	1.4	1.5	E	1.4	1.4	
22	1.3	1.3	1.0	E	E	1.5	1.6	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.7	1.4	1.5	1.5	E	1.6	
23	1.4	1.4	1.3	E	E	1.3	1.3	1.5	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.5	1.5	1.3	1.4	1.5	1.3	
24	1.3	1.4	E	E	1.4	E	1.3	1.5	1.3	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.6	1.5	1.5	1.5	1.5	1.5	
25	1.5	1.5	1.3	E	E	1.5	E	1.3	1.4	1.5	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.4	E	E	1.7	1.5	1.3	1.5	
26	1.3	1.3	E	E	E	1.5	E	1.4	1.5	1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.4	1.4	E	1.1	1.2	1.5	1.5	1.5	
27	E	1.5	1.2	1.4	1.4	1.5	E	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.4	1.4	1.4	E	E	E	E	E	1.4	
28	1.5	1.3	1.3	1.5	E	1.5	2.1	1.3	1.5	1.4	1.5	1.5	1.5	1.5	1.5	1.4	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
29																									
30																									
31																									
Mean Value	1.4	1.4	1.2	1.3	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.5	1.4	1.4	
Median Value	1.4	1.4	1.0	E	E	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
Count	27	26	27	27	27	29	27	26	27	27	27	28	28	28	27	27	28	28	28	28	28	27	27	27	27

**f min E**

Sweep 1.0 Mc to 19.2 Mc in 2 min

Manual  Automatic

**Kokubunji Tokyo**

**IONOSPHERIC DATA**

135° E Mean Time

**Feb. 1955**

**YPF2**

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

**YPF2**

Sweep 1.0 Mc to 17.2 Mc in 2 min  
 Manual  Automatic

Lat. 31° 12.6' N  
Long. 130° 37.7' E

**Yamagawa**

**IONOSPHERIC DATA**

**Feb. 1955**

f<sub>o</sub>F<sub>2</sub>

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	3.1 <sup>z</sup>	2.8	2.7	2.5	2.8	2.6 <sup>J</sup>	2.5 <sup>P</sup>	3.0	5.3	5.6	5.7	6.5	6.6	6.7	8.2	7.9	7.0	5.3	4.6	4.1 <sup>H</sup>	[3.9] <sup>F</sup>	3.7 <sup>S</sup>	4.0 <sup>P</sup>	2.3 <sup>F</sup>
2	2.5 <sup>F</sup>	2.6	2.7	2.7 <sup>F</sup>	2.6 <sup>F</sup>	F	F	3.6	[4.7] <sup>M</sup>	5.8	6.0	7.2	5.2	5.5	6.3	6.1	6.4	6.1	5.1	[4.2] <sup>A</sup>	3.2	3.1	2.8	2.6
3	2.8 <sup>F</sup>	2.9	2.7 <sup>H</sup>	3.0	3.3 <sup>F</sup>	2.9	2.9	3.7	5.6	6.0	6.2	5.5	5.9	6.0	7.2	6.5	6.1 <sup>J</sup>	6.1 <sup>J</sup>	5.4	5.5	3.8	[3.8] <sup>A</sup>	3.9	2.7 <sup>F</sup>
4	3.0 <sup>F</sup>	3.0	2.7	2.8	2.8	2.9	2.8 <sup>J</sup>	3.6	5.0	5.5	6.6	7.9	6.5	5.8	7.0	6.9	5.9	5.2	[5.7] <sup>C</sup>	6.2	3.8 <sup>H</sup>	3.9	[3.9] <sup>F</sup>	3.9
5	4.0 <sup>S</sup>	3.5 <sup>H</sup>	2.2	2.3 <sup>F</sup>	A	F	A	3.4	5.9	5.7	6.7	7.4	7.5	8.4	6.5	8.1	6.3	5.4	5.1	4.8	A	A	A	A
6	A	3.2 <sup>F</sup>	3.4 <sup>F</sup>	3.2 <sup>F</sup>	3.3	2.7	[3.2] <sup>A</sup>	3.7	6.0	6.5	6.9	7.3	7.7 <sup>F</sup>	6.4	6.3	7.0	6.7	5.7	5.9	5.8	[4.3] <sup>A</sup>	2.8	2.6	2.9
7	2.6 <sup>J</sup>	3.4	3.4	3.6	4.7	1.9	2.0	3.2	5.7	9.4 <sup>J</sup>	9.5	7.9	7.1	6.0	6.5	7.3	6.8	6.5	6.2 <sup>J</sup>	5.8	[4.5] <sup>A</sup>	3.2	A	A
8	A	A	3.2 <sup>J</sup>	3.0	F	F	F	3.4	5.8	7.9	10.1 <sup>J</sup>	9.1	9.2	8.8	8.5	7.2	6.8	5.2	5.0 <sup>H</sup>	5.0 <sup>H</sup>	3.5	2.8	3.1	2.5
9	2.7	2.8 <sup>H</sup>	2.9	3.0	2.9	2.7 <sup>H</sup>	2.6	3.8 <sup>H</sup>	6.0	7.2 <sup>S</sup>	9.0	6.5	6.7	7.0	7.1	5.9	6.1 <sup>J</sup>	5.9	5.9	[4.6] <sup>A</sup>	3.4	A	A	2.6
10	2.7 <sup>J</sup>	3.2	2.9	2.9	2.7 <sup>H</sup>	2.6 <sup>J</sup>	F	3.8 <sup>J</sup>	6.7	6.5	6.6	7.9	6.9	8.0	9.2 <sup>P</sup>	9.2 <sup>P</sup>	8.5	6.5	A	A	2.8	3.0	2.8	2.6
11	2.9	3.0	3.2	2.6	2.3	2.0	2.0	3.4	5.2	6.2	6.5	6.8	7.0	6.6	6.0	5.7	5.7	5.5	5.4	3.1	3.4	3.7	[3.4] <sup>A</sup>	3.1
12	3.0	3.2	3.0	3.0	2.9	2.6	2.0	4.5	5.3	5.9	6.9	5.5	6.2 <sup>H</sup>	9.4 <sup>J</sup>	8.9	9.4	8.4	6.0	5.1	4.0 <sup>S</sup>	3.6 <sup>S</sup>	3.7	3.6 <sup>z</sup>	3.4
13	3.5	3.6 <sup>S</sup>	[3.4] <sup>F</sup>	3.2	3.3 <sup>F</sup>	3.0	2.9 <sup>S</sup>	3.8	6.2	5.9	8.6	9.3 <sup>P</sup>	8.5	7.5	7.8	8.1	6.9	6.0	5.5	4.1	3.9	3.7	3.7	4.0 <sup>J</sup>
14	4.0	3.0	2.8	2.6	2.8	2.6	2.0 <sup>F</sup>	3.7	5.7	7.8 <sup>J</sup>	7.4	8.4	6.7	6.3 <sup>H</sup>	8.1	8.0 <sup>J</sup>	6.3	6.1	4.8 <sup>V</sup>	4.2 <sup>J</sup>	4.0 <sup>H</sup>	4.2	3.8	2.8
15	2.7	3.0	3.2	3.1	2.8	2.5	2.7	3.7	5.5	7.9	10.3	7.3	6.3	8.5	8.6	7.4	6.3	6.1	4.8	5.1	4.8	3.1	2.7 <sup>J</sup>	2.9
16	3.1	3.0	3.2	3.3	3.7	2.7	2.6	3.9 <sup>J</sup>	5.3	5.9	6.4	7.3	8.8	8.5	9.9 <sup>P</sup>	9.7	8.4	8.5	6.9	4.9	3.2	3.0	2.8	3.1
17	3.1	3.0	3.0	3.0	3.5	3.0	2.6	3.9	6.0	6.5	6.3	6.2	7.3	7.5	9.2 <sup>P</sup>	7.5	7.0	6.7	6.5	3.4	3.2	3.7	3.0	3.1
18	3.1	3.2	3.3	3.0	3.2	2.7	2.6	3.7	5.8	7.8 <sup>J</sup>	6.5	7.0	5.9	6.2	7.0 <sup>S</sup>	7.9	6.8	5.9	6.6	6.1	3.4	2.5	2.8	2.8
19	3.1	3.2	3.1	3.0	3.1	2.8	2.4	4.4	5.8	7.2	6.0	6.2	7.1	7.7	7.5	7.2	7.9 <sup>J</sup>	8.2	5.3	4.0 <sup>J</sup>	4.0 <sup>J</sup>	3.1	3.0	2.8
20	2.9	3.2	3.1	3.2	3.4	2.5	2.5	3.9 <sup>F</sup>	6.8	6.0	6.8	7.1	6.9	7.6	8.6	8.8	8.5	6.8	6.5	6.7	3.6	3.6	3.7	2.9
21	3.0	3.0	3.2	3.2	3.7	3.3	2.3	3.6	5.7	7.4	7.7 <sup>J</sup>	8.3	7.6	8.4	9.2 <sup>P</sup>	7.3	6.8	5.9	5.2	6.0	4.7	2.8	2.9	3.0
22	3.1	3.4	3.2	3.2	3.7	2.3	2.1	3.8	6.1 <sup>J</sup>	7.3	8.3	9.0	9.0	10.6 <sup>J</sup>	8.7 <sup>H</sup>	7.8	7.2	5.9	5.0	3.8	3.1	2.9	3.2	3.2
23	3.6	3.2	2.8 <sup>J</sup>	2.8	3.0	2.6	2.4	4.0	6.9	6.3	6.2	7.3	8.0	[8.4] <sup>C</sup>	8.7	7.8 <sup>J</sup>	7.2	6.5	6.1	3.9	4.1	4.0	3.6	3.7
24	3.7	3.7	3.3	[2.8] <sup>A</sup>	2.4	2.4	2.3	A	7.2	8.5	9.4	10.9 <sup>S</sup>	10.8	11.7	11.7	8.2	6.0	5.4	5.2	4.5	4.4 <sup>J</sup>	[4.0] <sup>A</sup>	3.5	3.3
25	3.4	3.6	3.9	4.0 <sup>J</sup>	2.4	2.2	2.3	4.2	6.5	7.9	8.5	9.1 <sup>P</sup>	7.4 <sup>H</sup>	8.3	10.3	8.7	8.0 <sup>J</sup>	6.2	5.9	4.0 <sup>J</sup>	2.9	3.0	3.2	3.2
26	3.2	3.3	3.4	3.2	2.9	2.3	2.2	4.1	5.9	7.8	6.4	7.6 <sup>J</sup>	8.9	7.9 <sup>J</sup>	7.0	6.6	7.0	6.4	6.4	3.8	2.8	3.2	3.4	3.4
27	3.8	3.3	3.2	3.5	3.8	2.6	2.5	4.1	6.0	6.0	7.5	7.9	8.2	9.6 <sup>J</sup>	9.6	8.9	7.8 <sup>J</sup>	6.5	6.5	5.7	3.5	3.3	3.2	2.9
28	3.1	3.1	3.0	3.3	3.8 <sup>H</sup>	2.1	2.4	4.7	5.5	6.5	7.5	8.0	8.7	9.9 <sup>J</sup>	10.3 <sup>J</sup>	8.8	7.3 <sup>P</sup>	6.5	6.5	4.6	4.7	4.0 <sup>P</sup>	4.0 <sup>P</sup>	4.0 <sup>P</sup>
29																								
30																								
31																								
Mean Value	3.1	3.2	3.1	3.0	3.1	2.6	2.5	3.8	5.9	6.8	7.4	7.6	7.5	7.8	8.2	7.7	7.0	6.2	5.7	4.7	3.7	3.4	3.3	3.1
Median Value	3.1	3.2	3.2	3.0	3.0	2.6	2.4	3.8	5.8	6.4	6.8	7.4	7.2	7.8	8.4	7.8	6.8	6.0	5.5	4.6	3.6	3.2	3.2	3.0
Count	26	27	28	28	26	25	24	27	28	28	28	28	28	28	28	28	28	28	28	27	27	26	25	26

f<sub>o</sub>F<sub>2</sub>

Sweep 1.0 Mc to 22.0 Mc in \_\_\_\_\_ min

Manual

Automatic

Y I

Yamagawa

IONOSPHERIC DATA

135° E Mean Time

Feb. 1955

R'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	300	290	310	260	240	230 <sup>A</sup>	230 <sup>A</sup>	230	240	270	240	280	270	270	250	240	230 <sup>A</sup>	230 <sup>A</sup>	210 <sup>H</sup>	240	260	240	350 F
2	330 <sup>F</sup>	290	250	250	250	300 F	260 F	230 <sup>A</sup>	[240] <sup>A</sup>	250	250	250	250	290	290	260	260	240	220	[240] <sup>A</sup>	270	250	250	270
3	280 <sup>F</sup>	260	280 <sup>H</sup>	310	250	250	250	230	240	250	240	250	280	300	270	280	260	250	240	220	260 <sup>H</sup>	[260] <sup>A</sup>	250	270
4	300	280	240	260	240	260	270	230	220	250	270	260	250	260	300	250	250	280 <sup>A</sup>	[250] <sup>C</sup>	220 <sup>A</sup>	260	290	300	270
5	260	220 <sup>H</sup>	270	300	A	A	A	260	230	250	290	270	260	280	290	270	240 <sup>A</sup>	[240] <sup>A</sup>	250	220 <sup>A</sup>	A	A	A	A
6	350	300 F	280	280	250 <sup>A</sup>	290	[290] <sup>A</sup>	290 <sup>A</sup>	240	250	270	290	240	260	280	270	250	230 <sup>A</sup>	270	220 <sup>A</sup>	[240] <sup>A</sup>	250	300	340
7	300 <sup>A</sup>	290	330 <sup>A</sup>	[280] <sup>A</sup>	220 <sup>A</sup>	400	400	270	250	250	240	260	250	250	300	270	260	[260] <sup>A</sup>	260	250 <sup>A</sup>	A	A	A	370 F
8	A	A F	250	230	300	300	340	260	240	270	260	260	260	250	240	260	250	230	230 <sup>A</sup>	[220] <sup>H</sup>	220	300	260	330 <sup>A</sup>
9	310	300 <sup>H</sup>	280	260	260	260 <sup>H</sup>	270	210 <sup>H</sup>	240	280	240	260	250	300	300	270	260	250	240 <sup>A</sup>	[240] <sup>A</sup>	250	A	A	300
10	310 <sup>A</sup>	280	260	260	270 <sup>H</sup>	310	350 F	240 <sup>A</sup>	240	240	270	280	270	310	270	280	260	250	A	A	300	300	300	310
11	260	280	250	250	230	350 <sup>A</sup>	350	240	240	290	270	260	260	270	260	260	300	240	230	230 <sup>A</sup>	280	260	[280] <sup>A</sup>	300
12	340	260	270	260	250	250	400	220	230	270	270	250	350 <sup>H</sup>	290	290	290	250	240 <sup>A</sup>	230	290	300 <sup>A</sup>	270	250	300
13	290	290	300	280	270	310	260	240	240	240	270	250	290	300	290	270	250	250	230	230 <sup>A</sup>	300	300	330	280
14	230	290	270	320	280	240	380	260	240	250	240	260	280	270 <sup>H</sup>	310	260	250	250	220	260 <sup>A</sup>	250 <sup>H</sup>	260	250	260
15	300	300	260	220	250	260	280	240	250	290	250	240	300	290	260	260	260	250	240	240	240	210	300	310
16	290	260	270	250	240	220	290	240	220	250	260	290	290	290	290	260	260	240	220	210	260	250	320	280
17	270	260	280	290	230 <sup>A</sup>	250	290	240	220	250	260	290	280	310	260	260	250	240	220	(250) <sup>A</sup>	300	250	270	330 <sup>A</sup>
18	320	290	230	270	260	280	280	240	230	250	250	260	260	290	320	270	260	240	240	200 <sup>A</sup>	200 <sup>A</sup>	330	300	310
19	300	270	240	280	250	240	260	240	230	230	260	290	340	280	280	290	280	240	220	240	230	260	260	300
20	310	280	260	250	230	230	300	240	230	250	260	280	280	330	280	280	260	250	240	230 <sup>A</sup>	(280) <sup>A</sup>	270	260	300
21	300	300	290	270	250	210	240	230	240	250	290	260	300	310	280	280	250	250	230	240	200 <sup>A</sup>	280	310	320
22	300	270	260	250	220	250	350	250	270	260	270	280	290	270	280 <sup>H</sup>	290	260	240	230	220 <sup>A</sup>	230	320	300	300
23	270	250	260	270	240	240	330	260	240	260	270	300	270	[260] <sup>C</sup>	260	280	270	240	220	220 <sup>A</sup>	270	290	280	310
24	290	240	250	[290] <sup>A</sup>	330	350	350	[300] <sup>A</sup>	260	250	270	280	280	260	250	270	250	240	230	240	240	[260] <sup>A</sup>	270	320
25	320	290	260	230	210	300	320	240	250	270	260	250	290 <sup>H</sup>	290	290	260	260	240	220	210	280	310	310	330
26	310	290	240	240	240	220	360	250	240	250	270	290	270	270	270	270	270	250	230	220	290	340	310	290
27	270	250	250	250	220	250	300	240	230	240	280	260	300	260	300	260	250	280	230	220 <sup>A</sup>	210	260	250	300
28	300	290	260	260	210 <sup>H</sup>	310	300	230	220	250	280	280	280	310	280	280	260	240	230	240	250	290	300	310
29																								
30																								
31																								
Mean Value	300	280	270	270	250	270	310	250	240	250	260	270	280	280	280	270	260	250	230	230	260	280	280	310
Median Value	300	280	260	260	250	260	300	240	240	250	260	260	280	280	280	270	260	240	230	230	260	270	280	300
Count	27	27	28	28	27	27	27	28	28	28	28	28	28	28	28	28	28	28	28	27	26	25	25	27

R'F2

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

Lat. 31° 12.6' N  
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

Feb. 1955

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	2.4	3.5	2.4	2.3	2.3	2.3F	2.3	3.8	5	3.5	6.0Y	6.0	3.8	6.1	5.1	6.0	4.7	4.2	3.2	2.4	2.3	2.3	3.5	3.0	
2	2.3	E	2.4	2.4	3.4	2.3	E	3.1	M	3.8F	5.7Y	3.8	5	5	5	4.2	5	3.8	3.4	5.0	2.1	2.2	2.3	E	
3	E	E	E	2.3	E	E	2.3	2.2	5	5	3.8	5.0Y	3.8	3.8	4.8Y	4.9	4.2	3.1	E	E	5.9Y	9.0	6.7	5.9	
4	2.3	2.3	2.3	E	E	2.3F	E	B	5	5	5	3.8	5	5.2	5.1	3.8	3.8	5.9	C	3.5	2.4	2.3	E	E	
5	5.0	2.3	3.5	3.5F	4.2	2.4F	5.9	2.7	5	5	3.8	3.8	3.8	5.9	5.2	5.3	6.2	5.7	4.2	3.6	5.9Y	8.9	5.9	5.6	
6	3.4F	2.9	3.3F	2.3	2.4	3.2	5.7	5.9	3.0	4.7	5.7	5.9F	5	5	5.5	5.8	8.9Y	7.3F	5.9	3.6F	5.9	3.0	2.4	2.9	
7	3.5	2.3	3.6	3.1	2.4F	2.3	2.3	2.3	5	5	3.8	4.7	5.1	5	5	5	4.6	6.5	6.6	5.9	5.0	5.9F	3.8F	5.9F	
8	3.8F	3.2F	2.3	2.3	3.4	2.4	2.3	2.3	3.0	5	5	5	3.7	5	5	5	3.8	3.2	5.3Y	5.9	2.4	3.1	3.5	3.3	
9	3.1	2.3	2.3	2.4	2.4	2.3	2.4	2.7	2.4	3.8	5	5	5	5	5	4.7	3.6	4.7	4.8	5.9	3.6	5.9	5.0F	2.7	
10	3.4	2.9	2.3	2.3	2.3	E	2.3	2.4	3.0	3.6	6.0	3.7	3.5	5	5	5	6.5	5.1	7.0	8.5	5.9Y	5.9	3.7	2.3	
11	2.3	2.3	2.3	2.3	E	2.4	E	2.3	5	3.7	3.7Y	3.8	5.9Y	5	3.8	4.9	5	3.4	2.3	3.0	2.4	3.4	3.5F	3.1F	
12	3.6	3.2F	2.3	2.4	E	2.3	2.1	2.3	5	5	5	5.0	4.9Y	5.8	5	5	5	5.6	3.4	3.5	6.3	3.2	5.8Y	3.2	
13	2.4F	2.3	2.4	2.3	2.3	2.9	2.3	2.4F	3.2F	5	5	5	5.8Y	5.9F	5.3	5	3.4	3.0	3.4	3.4	3.3	3.4	3.7	3.1	
14	3.2	3.4	3.0	2.4	2.3	2.3F	2.4	2.4	5	3.4	5	5	5	5	4.6	4.7	5.0	3.3	2.4	3.5	2.4	6.6	3.6	3.2	
15	2.3	2.1	2.3	3.0	2.4F	2.3	2.3	2.3	5	3.6	3.5	3.5	5	5	3.8	4.7	5.3	3.8	2.4	2.0	2.3	2.3	2.3	3.6	
16	2.3	2.3	2.1	2.3	2.3	2.3	2.1	2.3	3.1	5	5	4.5	4.7	3.8	3.8	5	3.6	3.2	2.4	E	2.0	2.1	E	E	
17	E	E	2.1	2.3	2.4	2.4	2.3	B	5	5	3.8	3.8	5.1	3.8	3.8	4.2	5	2.4	2.4	3.6	2.9	3.4	3.2	5.9	
18	3.2	2.3F	2.4	2.3 <sup>S</sup>	2.4F	3.2	2.3	2.4	3.2	5	5	5	3.6	5	8.8	3.7	3.6	3.4	3.5F	3.2	2.4	2.3	3.1	2.3	
19	2.4	3.3	2.4F	2.4F	2.4F	2.3F	2.3	2.3	5	3.8	5.7	3.8	4.2	5	5	5	5	5	2.4	2.1	2.3	2.3	E	E	
20	E	E	2.3	E	E	2.0	2.3	2.3	5	5	5	5	5.9	5.9Y	3.8	4.9	3.7	3.8	3.1	2.4	3.5	3.5	3.2F	3.3	
21	3.0	2.3F	2.4	2.4	2.4	2.3	2.3	2.3	5	5	5	5	5	5	5	5	3.4	5.9Y	2.4	2.2	2.4	2.4	2.3	2.1	
22	2.3	2.4	2.4	2.3	2.4	2.4F	2.3	2.4	5	3.6	5	3.7	5	5	5	5	3.4	3.0	2.4	2.4	2.4	2.3	2.4	3.1	
23	3.0	3.2	2.4F	2.4	E	2.4	2.4	2.4	5	5	5	5	5	C	5	5	3.4	3.2	2.4	2.3	4.2	3.5	5.9	3.5	
24	3.0F	2.4	2.4	5.9F	3.4F	2.4	2.4	3.7	5	4.2	3.6	5	5	5	5	5	3.5	5	E	2.1	2.4	5.0	2.4	2.4	
25	E	2.2	2.4	2.3	2.2	2.3	2.3	2.4	5	3.4	5	5.0	5	5.9Y	5	5	3.5	3.0	E	E	2.4	E	2.4	E	
26	3.2	2.4	2.4F	2.4F	2.3	2.4	2.4	B	5	5	5	5	5	5	5	3.7	3.8	3.1	2.3	2.3	2.2	2.1	2.4	2.4	
27	3.2	3.4F	2.4F	2.4	2.1	2.3	2.1	B	5	5	5	5	5	5	5	5	3.7	3.0	2.3	2.3	E	2.1	2.3	2.3	
28	2.4F	2.1F	2.4	2.3	2.3	E	2.4	2.4	5	5	5	5	5	5	5	5	5	5	2.4	E	E	E	2.4	E	
29																									
30																									
31																									
Mean Use Median Value	3.0	2.6	2.5	2.6	2.6	2.4	2.6	2.7	3.0	3.8	4.7	4.4	4.6	5.2	4.9	4.7	4.3	4.2	3.4	3.5	3.4	3.8	3.5	3.4	3.4
Count	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.4	2.7	2.8	2.8	2.8	2.8	2.7	2.8	2.8	2.8	2.8	2.7	2.8	2.8	2.8	2.8	2.8	2.8

fEs

Sweep 1.0 Mc to 22.0 Mc in \_\_\_\_\_ min

Manual

Automatic

Y 3

## SOLAR RADIO EMISSION

FEB., 1955

Observing Station: HIRAISSO,

Frequency: 200 Mc/s.

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

Time in U.T.

## Daily Data

Date	Steady Flux		Daily Averages
	00-03	03-06	
1	15	11	13
2	12	17	15
3	7	6	6
4	11	9	9
5	34	16	23
6	11	-	-
7	6	5	5
8	8	6	7
9	13	10	13
10	7	6	7
11	4	4	4
12	7	10	8
13	6	5	5
14	4	4	4
15	-	-	-
16	4	4	4
17	4	4	4
18	4	4	4
19	4	4	4
20	4	4	4
21	4	4	4
22	4	4	4
23	4	4	4
24	4	4	4
25	4	4	4
26	4	4	4
27	4	4	4
28	4	4	4

## Data for Active Day

## Steady Flux

Date	00-01	01-02	02-03	03-04	04-05	05-06	06-07	Maximum level Flux/Time.
1	15	19	10	11	11	12	11	25/0028.
2	10	15	20	40	12	25	15	72/0300.
5	35	33	20	18	15	13	13	50/0105.

## Outstanding Occurrence

Date	Starting Time	Duration	Type	Maximum Intensity	Time
1	0511	4 min.	SA	400	0513.
	0609	3 min.	SA	320	0610.
2	0124	6 min.	SA	75 240	0129. (level) 0129
	0230	1 hr.	CA	350 72	0252. 0300 (level)

IONOSPHERIC DATA IN JAPAN FOR FEBRUARY 1955

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1955年3月25日 印刷  
1955年3月30日 發行

(不許複製非売品)

編集兼  
發行 人

好 川 得 太 郎  
東京都北多摩郡小金井町小金井新田一之久保573

發行所

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 138, 139, 151

印刷所

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東京都新宿区筑土八幡町8番地