

551. 510. 535. 05(52) (047.3)

IONOSPHERIC DATA IN JAPAN

FOR MAY 1950

Vol. 2 No. 5

Issued in June 1950

PREPARED BY RADIO REGULATORY AGENCY

(DENPACHO)

TOKYO, JAPAN

RADIO REGULATORY AGENCY

(DENPACHO)

TOKYO, JAPAN

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FOREWORD

Since November 1949, the observation of ionosphere and most part of the research related to the propagation of radio wave excepting those parts directly connected with the Telecommunication Service were transferred to the jurisdiction of the Radio Regulatory Agency from that of the Electrical Communication Laboratory.

Considering the role played by the reports related to the results of the ionospheric observations hitherto prepared by the Laboratory to the world scientific circles, we would like to continue the issue of this pamphlet.

Taking this happy occasion when Japan has resumed the membership in the International Telecommunication Conference, we wish to make every efforts in contributing to the improvement and development of radio communications.

We shall be very much obliged to receive the similar publications from the organizations concerned with radio propagation in the world.

MAY 1950

Tsuyoshi Amishima
Radio Regulatory Commissioner

SITE OF THE IONOSPHERIC STATIONS

Ionospheric observation is carried out at five stations in Japan.

The stations are situated as follows:

	longitude	latitude	site
Wakkanai	141° 41.1' E	45° 23.6' N	Wakkanai-shi, Soya-gun, Hokkaido
Akita	140° 03.2' E	39° 43.5' N	Tegata Nishishin-machi, Akita-shi, Akita-ken
Kokubunji	139° 29.3' E	35° 42.4' N	Koganei-machi, Kitatama-gun, Tokyo-to
Yamagawa	130° 37.7' E	31° 12.5' N	Yamagawa-machi, Ibusuki-gun, Kagoshima-ken

REMARKS ON SYMBOLS

Except Z_d , $f_{\min} E$ and $f_{\min} F$, other symbols are used in accordance with recommendation of C.C.I.R. Z_d , $f_{\min} E$ and $f_{\min} F$ in the table are defined as follows:

- Z_d Half breadth of the layer, calculated by the method of Booker.
- $f_{\min} E$ Minimum frequency, on which echo reflected from E-layer begins to appear by use of the observation equipment on routine work.
- $f_{\min} F$ Minimum frequency, on which echo reflected from F-layer begins to appear by use of the observation equipment on routine work.

May. 1950

f_oF₂

Lat. 45° 23.6' N
 Long. 141° 41.1' E

Wakkanai

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	6.9 ^H	6.6	5.9	(5.7) ^S	5.7	6.2	6.5	6.2	8.0	9.2 ^H	8.5	9.0	9.1	9.4	9.4	9.1	8.9	8.8	8.8	(7.8) ^S	7.9 ^S	A	7.7 ^J	7.6 ^T	
2	8.1 ^S	8.2	8.1 ^F	7.4 ^M	7.2 ^M	7.1	7.6	7.4	7.9	7.6	7.7	7.3 ^P	(8.4) ^S	S	8.0	8.7	(9.0) ^S	(8.8) ^S	(8.3) ^S	7.7	(7.3) ^S	6.9	6.9 ^M	7.3	
3	7.0 ^H	7.1	6.6	6.1	6.8	7.8	8.7	7.3	(7.3) ^B	7.3	7.8	9.0	8.6	10.0	A	9.4	9.5 ^M	9.3 ^P	8.7	C	C	8.0 ^M	8.1 ^M	7.0	
4	C	C	C	6.0	6.6	7.2	7.8 ^Z	6.1	6.5	6.1	8.0	9.0	8.9 ^H	9.6	9.5 ^M	8.5	(9.0) ^C	9.0	9.4	9.3	(8.0) ^S	(8.1) ^P	7.2	7.0 ^P	
5	6.5 ^P	6.2	5.6	5.8	5.8	7.2	7.6	7.1	7.0 ^K	6.6 ^K	6.3 ^K	7.0 ^K	6.7 ^K	7.3 ^K	7.1 ^K	7.2 ^K	7.3 ^T	7.2 ^F	7.6	7.5	7.4	7.3	6.8 ^P	6.6	
6	6.5	6.0	5.8 ^V	5.5	5.5	6.7	7.3	7.7	7.6	7.4	7.6	7.8	8.0	8.4	8.1	8.2	8.1	8.0	7.7	7.8	7.6	7.5	7.4	7.6	
7	7.2	7.0	6.7	6.4	6.5	6.6	8.1	7.9	9.6	8.7	8.5 ^P	9.0	9.4	9.6	9.5 ^P	8.6 ^P	8.6	9.0	8.9	8.9	7.5	7.5 ^M	7.6	7.6	
8	7.4 ^M	7.3 ^M	6.9 ^M	7.1	7.6	8.2	8.2	8.9 ^M	9.4	9.4	9.4	9.5	9.7 ^M	10.5	10.6	10.6	9.7	9.2	8.7	8.6	9.0	7.9 ^S	(8.1) ^H	7.7	
9	7.5	7.8	7.1	7.5	7.8	8.8	8.8	9.4 ^M	9.2 ^T	9.8	10.3 ^M	10.5 ^M	10.3	5	9.7	9.7	9.1	9.0 ^T	8.4	8.6 ^T	7.6 ^S	7.2	8.3 ^M	8.4	
10	8.2 ^T	7.8	7.6	7.4	7.4	8.0	8.6	9.0	9.4	9.4	9.2 ^M	8.9 ^M	9.9 ^M	9.9	9.9	5	9.8 ^M	9.0	9.0	8.2	8.0 ^S	7.9	7.7	8.1	
11	7.9	7.5	6.8	6.8	7.3	7.7	8.9	7.7	10.0	(11.1) ^M	10.4	9.6 ^K	10.4	9.0	(10.0) ^P	9.7	9.4	8.8	(7.3) ^S	7.1 ^H	8.9 ^M	(7.6) ^B	7.5 ^M		
12	7.9 ^M	7.5	7.3	6.3	5.8	5.9	6.8	7.3 ^V	8.1	8.6	8.9	8.6	9.1	8.9	8.6	9.1	8.7 ^H	9.4	9.4	8.8	(8.4) ^S	(8.1) ^P	7.5 ^J	7.6	
13	7.8 ^P	7.6 ^H	7.5 ^H	6.7	7.0 ^H	7.7	(8.3) ^S	C	C	C	C	C	C	C	C	C	C	C	9.4 ^P	8.9	8.7 ^M	8.1 ^M	8.1	8.1	
14	6.6	7.0 ^M	6.6 ^M	6.6	7.2	8.0	8.4 ^M	7.6	A	A	6.5	A	6.7	7.1	7.5	A	6.7	6.8	7.0	7.5	7.6	7.6	7.3	7.2	
15	7.2	7.3	6.7	6.3	6.2	6.1	6.5	7.0	7.2	7.8	7.6	7.8	8.6	7.9	7.8	8.0	8.4	8.5	8.2	7.7	7.5	7.6	7.4	7.6	
16	7.5 ^M	7.1	7.0 ^S	6.9 ^M	6.8 ^M	8.2 ^H	7.6 ^P	8.3 ^T	8.9	7.9	8.8	8.7	7.8	7.6	7.8 ^S	8.3 ^P	8.1	8.3	8.5	8.5	7.8	7.8	[7.6] ^S	7.5	
17	7.6	7.8	7.0	7.2 ^V	6.2	6.6	7.1 ^K	6.8 ^K	6.0 ^K	5.9 ^K	6.3 ^K	7.1 ^K	7.0 ^K	7.1 ^K	7.1 ^K	7.6	7.3	7.1	7.0	7.9	7.9	7.9	7.9	7.4	
18	5.7	5.6	(5.9) ^F	(6.0) ^F	5.8	6.8	7.5	7.0	7.4	7.1	7.1	7.5	7.8	7.7	7.9	7.8	7.2	6.9	7.2	7.7	7.3	7.4	7.4	7.5	
19	6.8	7.0	6.4	6.1 ^H	5.9	7.9	7.8	7.3	7.3	7.4	7.6	7.8	8.0	7.8	7.9	7.8	6.5	7.6	7.4	7.8	7.6 ^P	7.8 ^M	7.9 ^B	6.6 ^H	
20	7.4	7.2	7.2	6.6	7.2	7.6	8.3	8.9	7.5	7.1	7.1 ^T	(7.4) ^T	8.3 ^T	7.9	7.9	7.7	7.7	7.6	8.0	8.7	8.7	7.9	7.8	7.6	
21	7.7	7.3	7.5 ^M	6.8 ^M	6.1 ^T	7.1 ^V	8.7	8.8 ^P	9.0	9.2	9.3	8.9	8.3	8.4	7.9	7.9	7.9	7.8	7.7	(7.9) ^P	A	6.6	7.4	7.7	
22	8.0 ^F	7.1	7.5 ^F	7.0 ^F	7.2	6.4 ^F	6.6 ^F	8.4 ^F	F ^K	B ^K	AF ^K	A ^K	F ^K	(6.9) ^B	6.9	7.2	6.9	7.0 ^F	7.2	[6.8] ^F	6.5	6.7	6.6	7.2 ^P	
23	7.3	7.3	7.0 ^H	6.5	6.4	7.5	8.5	8.0	6.8 ^K	7.2 ^K	7.0 ^K	6.5 ^K	6.7 ^K	6.4 ^K	6.4 ^K	7.1 ^K	6.8 ^K	A ^K	6.5 ^K	7.3	7.7 ^M	7.9	7.8	7.0	
24	6.7	6.3	5.7 ^H	5.3 ^H	5.2 ^H	5.6 ^P	5.5 ^K	5.2 ^K	AF ^K	7.7 ^K	B ^K	C ^K	6.5 ^K	A ^K	8.1 ^K	7.2 ^P	6.3 ^K	6.5 ^K	6.8	7.4	7.7 ^T	7.7 ^T	7.6 ^M	7.5 ^H	
25	A [*]	A	7.4	6.5 ^H	7.1	7.7	7.6 ^H	8.6	8.0	8.1 ^F	AF	8.5 ^F	7.9	8.4	8.7	8.5	8.1	8.4 ^F	8.4	A	8.4	8.2 ^S	7.6	8.4 ^Z	
26	8.5 ^V	7.3 ^F	7.0 ^F	6.6 ^F	6.4	6.7	6.6 ^F	5.7	6.7 ^K	7.4 ^A	7.4	(7.9) ^F	AF	7.3 ^F	7.0	7.3	7.6	8.6 ^T	AF	7.5	7.3	7.7	8.0	7.4 ^M	
27	7.3	6.7	6.8	6.5	7.1	6.7	7.7	7.9 ^F	6.1	5.9	6.7	7.2	7.5	7.9	7.9	8.2	9.0	6.7 ^M	S	7.6 ^M	A	6.6	7.8 ^M	(7.3) ^K	
28	6.4	6.5	6.4 ^F	6.1 ^F	5.9 ^F	5.8 ^F	6.5 ^F	C	C	C	C	C	C	C	C	C	7.1 ^M	7.7	7.1	7.2	7.1	6.7 ^P	7.2	7.5	
29	7.2 ^H	7.3	6.6	5.8 ^F	5.5	6.3	6.1	6.0	A	A	A	A	A	7.7 ^S	8.0	7.7	(11.8) ^F	7.8	(12.7) ^F	7.8	7.4	8.0	7.4 ^Z	6.0	
30	6.9	6.9	7.0	5.9	6.0	6.1 ^Z	6.8 ^F	6.7	5.8	6.9	6.8	7.1	7.5	8.3	7.5	8.1 ^F	8.6 ^M	7.7	7.7	8.6 ^S	7.7	7.5	7.5	7.5	
31	7.4	6.8	6.9 ^M	6.9	7.0	6.6	6.4	6.8	6.6	B ^K	7.3 ^K	7.0 ^K	6.8 ^K	6.5 ^K	7.2 ^K	7.4 ^K	7.4	7.8	8.9	8.5	AF	AF	8.2 ^Z	7.7 ^F	
Median Value	7.3	7.1	6.9	6.5	6.5	7.1	7.6	7.3	7.5	7.6	7.6	7.9	8.2	7.9	7.9	8.1	8.1	8.3	8.3	7.8	7.6	7.7	7.7	7.6	7.5
Count	29	29	30	31	31	31	31	29	25	25	25	25	26	25	28	27	30	29	29	29	27	29	31	31	

From I.O.M. to I.O.M. in U.S. min

Manual

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May, 1950

h_pF₂

Lat. 46° 23.6' N
Long. 141° 41.1' E

Wakkanai

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	430 ^H	430	460	(440) ^S	430	380	340	G	300	(340) ^K	320 ^P	400	400	430	400	400	410	350	320	(320) ^S	320 ^S	A	(360) ^T	(390) ^T	
2	430 ^S	380	(440) ^F	410 ^H	330 ^H	300	320	300	310	300	350	360 ^P	(380) ^S	S	(320) ^B	320	(340) ^S	(320) ^S	(320) ^S	320	(290) ^S	360	380 ^T	410	
3	430 ^H	420	420	460	410	310	330 ^P	420	(380) ^B	350	390	410	360	410	A	360	370 ^H	380 ^P	350	C	C	440 ^H	370 ^H	330	
4	C	C	C	420	410 ^H	340	330 ^Z	300	330	280	400	390	400 ^H	400	380 ^H	320	(320) ^C	330	350	350	(320) ^S	(380) ^P	360	380 ^P	
5	410 ^P	400	430	440	470	400	390	450	400 ^K	S	G ^K	500 ^K	G ^K	440 ^K	410 ^K	400 ^K	360 ^F	360 ^F	370	380	(420) ^S	(430) ^S	430 ^P	400	
6	460	480	450 ^V	440	460	460	390	420	400	400	G	380	370	350	370	380	360	320	340	350	370	360	380	410	
7	420	400	420	480	470	390	350	340	400	340	430 ^P	410	420	410	420 ^P	360 ^P	330	390	(380) ^B	380	420	460 ^H	460	460	
8	500 ^H	410 ^H	480 ^H	450	430	370	300	410 ^H	330	290	350	340 ^H	370	350	360	340	340	330	320	330	310	300 ^S	(390) ^K	380	
9	350	360	350	380	360	320	320	360 ^H	(360) ^T	400	410 ^H	360 ^H	(370) ^B	S	410	390	370	360 ^P	310	(330) ^T	(340) ^S	(380) ^B	400 ^H	450	
10	410 ^H	(410) ^S	420	410	400	350	(330) ^B	390	410	410	400 ^H	390 ^H	400 ^H	380	370	S	310 ^H	320	290	330	330 ^S	330	370	370	
11	370	430	430	460	420 ^H	390	320	370	360	360 ^H	(340) ^B	380 ^H	390	390	(420) ^P	360	350	330	400	(310) ^S	(410) ^K	410 ^H	(320) ^B	420 ^H	
12	410 ^H	450	400	420	430	430	400	400 ^V	410	390	390	400	400	410	390	370	400 ^H	380	350	350	(400) ^S	(440) ^P	430 ^S	430	
13	440 ^P	400 ^H	410 ^H	400	460 ^H	390	(340) ^S	C	C	C	C	C	C	C	C	C	C	C	C	C	370 ^P	350	410 ^H	440	
14	(460) ^B	430	410 ^H	430	390	370	390 ^H	370	A	A	A	A	A	G	410	360	A	400	370	410	(390) ^B	450	460	450	
15	510	410	420	370	430	330	390	400	400	340	370	370	360	350	390	370	370	340	350	370	340	370	420	400	
16	480 ^H	450	410 ^S	450 ^H	420 ^H	390 ^H	290 ^F	(340) ^T	330	340	350	330	360	350	400 ^S	380 ^P	350	330	340	360	340	[340] ^S	350	370	
17	430	400	360	390 ^V	320	300	350 ^K	350 ^K	G ^K	G ^K	470 ^K	400 ^K	400 ^K	400 ^K	430 ^K	400	420	410	390	370	370	400	400	380	
18	440	430	(470) ^H	(440) ^F	410	370	360	320	400	370	470	420	400	340	390	340	390	340	370	380	400	420	420	420	
19	450	450	410	420 ^H	470	420	360	360	360	380	390	440	410	420	420	410	400	390	400	390	410 ^S	440 ^H	450 ^B	460 ^H	
20	440	440	410	420	420	420	390	330	320	330	(340) ^S	(410) ^T	390 ^P	380	370	380	380	390	370	370	390	410	450	440	
21	410	410	420 ^H	380 ^H	360 ^Z	380 ^V	430	390 ^P	410	420	450	400	400	400	360	340	340	350	350	(340) ^P	A	380	420	430	
22	450 ^Z	390	(440) ^S	420 ^F	400 ^F	290 ^F	350 ^F	400 ^K	F ^K	B ^K	AF ^K	A ^K	F ^K	A	400	380	400	270 ^T	380	[390] ^C	400	430	400	460 ^P	
23	440	430	410 ^H	400	430	420	350	380	B ^K	420 ^K	430 ^K	G ^K	490 ^K	G ^K	A ^K	410 ^K	400 ^K	A ^K	390 ^K	380	480 ^H	420	410	440	
24	430	400	460 ^H	500 ^H	(490) ^B	390 ^S	G ^K	400 ^K	AF ^K	240 ^K	B ^K	C ^K	G ^K	A ^K	400 ^K	400 ^K	G ^K	410 ^K	370	400	400 ^K	400 ^K	430 ^H	400 ^H	
25	A ^V	A	410	340 ^H	360	310	380 ^H	350	350	450 ^F	AF	420 ^F	400	400	420	410	410	430 ^P	400	A	A	AS	410	(400) ^S	
26	(460) ^S	(430) ^H	430 ^T	430 ^V	420	380	380 ^K	G	270 ^K	280 ^A	400	(230) ^S	AF	FV	A	390	380	A	AF	430	350	450	400	410 ^H	
27	420	380	390	420	390	370	380	340 ^P	450	A	440	430	450	A	420	430	(380) ^A	410 ^H	S	430 ^H	A	410	390 ^T	(450) ^S	
28	440	480	510 ^F	450 ^F	420 ^F	350 ^F	(340) ^F	C	C	C	C	C	C	C	C	300	300	(280) ^S	310 ^F	320	A	380	360 ^Z	S	
29	450 ^H	400	440	440 ^P	420	430	310	300	A	A	A	A	A	A	360 ^S	450	300	(280) ^S	310 ^F	320	A	380	360 ^Z	S	
30	420	430	400	420	380	(320) ^S	320 ^F	G	A	A	420	400	430	410	400	380 ^P	290 ^H	350	390	350 ^S	360	390	430	420	
31	430	430	430 ^H	420	340	340	350	410	370	B ^K	270 ^K	480 ^K	400 ^K	A ^K	380 ^K	370 ^K	390	390	390	330	AF	AF	380 ^F	(430) ^S	
Median Value	430	420	420	420	420	370	350	380	370	360	400	400	400	410	400	380	370	360	370	360	370	360	390	410	400
Count	29	29	30	31	31	31	31	29	23	23	23	25	26	21	26	27	29	28	29	29	25	28	28	31	30

Sweep 1.0 Mc to 14.0 Mc in 1.5 min

Manual

IONOSPHERIC DATA

Lat. 45° 23.6' N
Long. 141° 41.1' E

Wakkanai

135° E Mean Time

h'F2

May 1950

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	310 ^H	310	340	310	310	300	330	370	300	300 ^H	300	370	400	390	380	380	400	290	290	280	270	A	320	370 ^A	
2	330 ^A	270	A	AH	250 ^H	260	240	280	300	300	300	300	300	270	270	290	300	290	280	270	240	280	240 ^H	A	
3	AH	320	330	360	350	260	270	(400) ^S	270	350	390 ^B	280	340	380	A	320	260 ^H	280	290	C	C	310 ^H	280 ^H	280	
4	C	C	C	310	300 ^H	320	310	280	270	250	400	370	230 ^K	360	310 ^H	290	(280) ^F	280	300	300	280	300 ^A	300 ^A	(300) ^A	
5	(300) ^A	300	340	360	360	300	300	450	400 ^B	S ^K	B ^K	440 ^K	B ^K	410 ^K	410 ^K	400 ^K	340	300	320	A	A	350	310	300	
6	320	330	340	350	340	290	310	380	L	L	380	360	350	300	320	280	280	260	260	240	240	270	280	300	
7	300	310	320	310	400	300	280	310	370	300	390	370	L	270	350	300	300	290	300	300	290	300 ^H	350	350	
8	360 ^H	370 ^H	360 ^H	370	360	300	270	250 ^H	270	230	280	230 ^H	310	310	310	300	L	300	290	300	250	280	270 ^H	280	
9	290	280	280	280	300	280	240	250 ^H	360	(380) ^B	(330) ^H	300 ^H	280	320	340	290	260	250	250	260	300	290	310 ^H	300	
10	310 ^H	290	300	300	300	290	270	350	300	L	300 ^H	290 ^H	280 ^H	290	300	280	300 ^H	290	270	250	250	250	250	270	
11	240	310	290	330	280 ^H	300	280	300	300	290 ^H	290	300 ^H	320	360	350	300	290	250	300 ^A	280	250 ^H	340 ^H	290	260 ^H	
12	330 ^H	330	310	300	320	320	380	360	400	360	380	380	360	390	380	360	300 ^H	300	300	300	290	310	310	330	
13	350 ^A	310 ^H	300 ^H	300	250 ^H	290	290	C	C	C	C	C	C	C	C	C	C	C	C	C	290	280	250 ^H	300	300
14	280	310 ^H	300 ^H	300	310	290	290 ^H	300	A	A	A	A	480	410	360	A	380	L	330	330	310	340	350	340	
15	370	350	330	300	320	240	370	390	400	320	370	360	360	350	370	350	280	320	270	300	300	300	330	310	300
16	300 ^H	320	320 ^H	350 ^H	350 ^H	300 ^H	280	290	280	320	330	310	360	330	400	360	350	280	260	300	300	300	290	270	300
17	290	240	250	(300) ^A	250	280	350 ^K	350 ^K	400 ^K	450 ^K	470 ^K	400 ^K	400 ^K	420	420 ^K	380	340	290	290	290	310	290	330	360	300
18	360	350	330 ^H	330	340	290	320	320	380	360	460	420	400	400	340	390	290	290	280	290	310	310	310	300	300
19	320	310	300	310 ^H	350	300	280	290	380	380	380	400	390	390	390	370	400	380	360	300	320 ^H	300 ^H	A	AH	
20	320	310	310	300	290	300	350	300	300	320	340	410	350	380	330	300	370	300	350	300	250	290	280	310	
21	300	300	310 ^H	270 ^H	A	310	380	350	340	L	390	380	400	400	400	330	250	320 ^A	290	300	A	340	(360) ^A	A	
22	380 ^A	360 ^A	300	300	320	290	340	A ^K	A ^K	A ^K	A ^K	A ^K	A ^K	A	A	400	370	400	250	280	(290) ^F	300	320	300	310 ^F
23	320	300	300 ^H	280	390	380	280	350	(400) ^K	410 ^K	430 ^K	540 ^K	490 ^K	450 ^K	470 ^K	410 ^K	400 ^K	A ^K	390 ^K	300 ^H	300 ^H	300	300	310	
24	380	300	300 ^K	300 ^K	400 ^K	350 ^K	360 ^K	400 ^K	A ^K	200 ^K	240 ^K	C ^K	B ^K	A ^K	210 ^K	400 ^K	400 ^K	400 ^K	400 ^K	310	300	330	340 ^H	350 ^H	
25	A	A	300	220 ^H	270	270	260 ^H	310	300	400	400	400	400	400	400	330	330 ^A	410	370	340 ^A	A	A	370	340	
26	350	340 ^H	320	300	360	380	270 ^H	470	(270) ^M	390	(230) ^M	AF	(400) ^M	AF	(410) ^A	400	360	A	AF	400	(300) ^M	300	300	290 ^M	
27	280	300	330	300	320	260	280	310	450	A	430	500	440	(410) ^A	400	410	(380) ^A	400 ^H	(400) ^H	300 ^H	A	(390) ^A	300 ^H	290 ^H	
28	370	360 ^A	400 ^A	370	300	290	310 ^F	C	C	C	C	C	C	C	C	C	(300) ^M	250	260	300	(300) ^M	380	370	360	
29	350 ^H	300	340	320	380	(400) ^A	300	300	210	(240) ^M	(230) ^M	A	A	A	360	450	290	250	280 ^F	280	A	A	340	330 ^H	
30	370	370	280	260	270	270	290	370	450	420	400	400	420	400	390	360	210 ^H	320	280	280	250	240	350	300	
31	310	300	300 ^H	300	270	300	290	400	370	B ^K	270 ^K	480 ^K	390 ^K	A ^K	380 ^K	360 ^K	380	360	300	280	AF	AF	300	300	
Median Value	320	310	310	300	320	300	290	340	330	320	380	370	360	380	360	360	360	300	290	290	300	300	300	300	300
Count	28	29	29	30	30	31	31	28	26	21	25	25	23	25	27	28	29	27	30	28	24	27	30	28	

Sweep 1.0 Mc to 14.0 Mc in 1.5 min

Manual

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May 1950

f_oF₁

Lat. 45° 23.6' N
Long. 141° 41.1' E

Wakkanai

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	4.4	5.3	Q	Q	Q	L	L	L	5.0	5.2	L	L	Q	Q				
2						Q	Q	L	L	L	L	Q	4.8	4.6	4.6	4.9	L	L	L	Q				
3						Q	Q	S	Q	5.0	B	L	L	4.9 ⁷	A	5.0	Q	4.0	Q					
4						Q	4.6	4.8	Q	Q	Q	5.8	5.4	Q	L	L	L	C	Q					
5						Q	Q	5.9	B	5.0	5.3	5.3	5.1 ⁷	L	5.2 ⁷	L	L	C	Q					
6						Q	Q	Q	L	L	5.8	5.5	5.5	5.0	5.0	Q	Q	Q	Q					
7						Q	Q	L	L	5.2	L	L	L	Q	Q	5.0	L	Q	Q					
8						Q	Q	Q	Q	Q	A	Q	L	L	(5.3) [†]	4.5	L	L	L					
9						Q	Q	Q	L	L	L	Q	Q	L	L	Q	Q	Q	Q					
10						Q	Q	L	Q	L	5.0	5.0	4.9	4.9	5.1	L	4.4	Q	L					
11						Q	Q	Q	Q	Q	4.6	A	4.8	L	L	L	Q	Q	Q					
12						Q	L	L	5.4	L	5.2	L	L	L	L	L	Q	Q	Q					
13						Q	Q	C	C	C	C	C	C	C	C	C	C	C	Q					
14						Q	Q	4.3	A	A	A	A	5.3	5.3	5.2	A	L	L	L					
15						Q	L	L	L	L	B	5.6	(5.2) [†]	5.0	L	L	Q	Q	Q					
16						Q	Q	L	Q	A	5.3	A	L	5.2	5.0	4.6	4.8	Q	L					
17						L	5.0	4.7	5.0	5.0	5.0	5.1	4.9	L	L	L	A	Q	Q					
18						Q	4.6	L	5.0	5.0	5.4	5.2	5.3	5.4	5.1	5.0	Q	Q	Q					
19						Q	Q	Q	L	L	L	L	L	L	5.0	L	L	L	L					
20						Q	L	L	L	4.8	5.3	(5.0) ^B	4.8	4.8	4.8	(4.4) [†]	4.1 ⁷	Q	L					
21						Q	4.7	4.8 ⁷	L	L	L	A	L	L	L	5.1	5.6	Q	A	Q				
22						L	L	A	A	A	A	A	A	A	A	5.1	5.0	5.3	Q	Q				
23						L	Q	5.1	A	5.0	5.2 ^B	5.2 ^A	A	5.2	A	5.0	L	A	L					
24						Q	4.0	B	A	Q	A	C	B	A	A	5.5	5.2	4.6	Q					
25						Q	Q	4.4	Q	5.3	A	A	A	L	A	A	A	A	A					
26						L	Q	(5.0) [†]	A	A	5.2 ⁷	A	A	A	A	AF	4.9	A	A					
27						Q	Q	L	5.0	A	5.2	A	5.4	A	5.7	5.0	A	L	A					
28						Q	4.0	C	C	C	C	C	C	C	C	C	A	Q	Q					
29						A	L	A	Q	Q	Q	A	A	A	5.0	L	L	A	A					
30						Q	Q	5.2	A	5.0	A	5.3	5.4	5.3	5.1	5.2	Q	4.1	Q					
31						Q	Q	4.7	5.1	5.2	A	L	A	A	5.2 ^B	5.0	4.8	L	Q					
Median Value						4.6	4.8	5.0	5.0	5.0	5.2	5.2	5.0	5.0	5.1	5.0	4.8	-						
Count						7	11	6	9	12	10	12	13	16	16	7	3							

8 sweep 1.0 Mc to 14.0 Mc in 1.5 min

Manual

IONOSPHERIC DATA

Lat. 45° 23.6' N
Long. 141° 41.1' E

Wakkanai

135° E Mean Time

h'F1

May. 1950

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	300	300	Q	Q	Q	300	250	330	(300) ^B	280	300	Q	Q					
2						Q	Q	230	270	260	260	Q	230	210	210	210	240	250	Q					
3						Q	Q	S	Q	B	(270) ^B	210	230	220	A	250	Q	230	Q					
4						Q	300	260	Q	Q	Q	240	230	Q	240	240	220	C	Q					
5						Q	Q	280	B	260 ^B	260	250	250	280	270	270	280	270	300					
6						Q	Q	300	260	250 ^A	220 ^A	200	200	220	230	Q	Q	Q	Q					
7						Q	Q	250	280	250	260	250	230	Q	Q	210 ^B	250	240	Q					
8						Q	Q	Q	Q	Q	A	Q	200	220	230	240 ^B	Q	Q	Q					
9						Q	Q	Q	300	280	270	Q	210 ^A	210 ^A	240 ^B	Q	Q	Q	Q					
10						Q	Q	280	Q	290	240	220 ^A	210	210 ^A	210	210	240	Q	Q	220				
11						Q	Q	Q	Q	Q	230	A	250	A	(250) ^A	240	Q	Q	Q					
12						Q	290	270	270	270	290	260	260	270	270	260	Q	Q	Q					
13						Q	Q	C	C	C	C	C	C	C	C	C	C	C	Q					
14						Q	Q	250	A	A	A	290 ^B	300	300	300	A	310	280	Q					
15						Q	300	270	260	270	280	270	260	230	210	250	Q	Q	Q					
16						Q	Q	250	Q	A	230	A	A	220	210	300 ^B	240	Q	270					
17						230	230	250	270	250	A	A	300	300	B	300	A	Q	Q					
18						Q	260	220	300	(300) ^A	260	250	250	230	290	270	Q	Q	Q					
19						Q	Q	Q	300	290	A	280	280	270	290	280	300	310	310					
20						Q	300	300	250	A	B	B	B	210	250 ^B	220	290	Q	310					
21						Q	300	300 ^A	290	260	300	A	310	290	270	280	Q	A	Q					
22						270	280	A	Q	A	A	A	A	A	A	(280) ^A	310	Q	Q					
23						290	Q	270 ^A	220	250	270	290 ^A	A	A	(230) ^A	A	290	A	A					
24						Q	B	B	A	Q	200	C	230	A	A	(280) ^A	300	300	Q					
25						Q	Q	260	Q	270	A	AF	270	A	A	A	A	A	A					
26						300	Q	300	A	A	A	A	A	A	A	(220) ^B	A	A	A					
27						Q	Q	250	A	A	A	A	300	A	300	290	A	310	A					
28						Q	290	C	C	C	C	C	C	C	C	C	A	Q	Q					
29						A	A	A	Q	Q	Q	A	A	(200) ^A	370	230	230	A	Q					
30						Q	Q	270	A	260	A	250 ^A	230	280 ^A	260 ^A	270	Q	260	Q					
31						Q	Q	270	260	A	A	A	A	A	B	270	280	300	Q					
Median Value						-	300	270	270	260	260	250	250	230	250	270	280	280	280					
Count						4	10	21	13	15	15	13	21	18	21	24	16	10	6					

Sweep 1.0 Mc to 6.0 Mc in 1.5 min Manual

Radio Regulatory Agency (Denpacho)

Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May 1950

f_oE

Lat. 45° 23.6' N
Long. 141° 41.1' E

Wakkanai

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	2.1	2.5	3.0	3.4	3.6	3.5 ^F	3.9 ^J	3.9 ^B	3.9 ^B	3.5	3.5	3.3	2.5	A					
2					(1.4) ^A	2.2	2.6	3.0	3.2 ^J	(3.5) ^B	(3.6) ^B	3.5 ^J	A	A	A	3.4	A	(2.6) ^M	A					
3					1.6	2.2	2.8	3.3 ^F	(3.3) ^B	(3.5) ^B	(3.6) ^A	3.6	3.5	3.8	A	3.3	3.0	2.6 ^H	1.9 ^H					
4					1.6	2.4 ^H	3.1	3.3	3.4	3.6	3.6	3.6	3.6	3.6	3.7	3.5	[3.0] ^C	2.6	2.1					
5					1.3	2.1	2.7	3.3	3.5	3.5 ^B	3.5	3.5	B	B	B	B	3.4	2.7 ^J	2.2					
6					1.3	A	2.9	3.4	3.4	3.5	3.6	3.6	3.7	3.5	3.5	3.4	3.2	2.8	2.2 ^H					
7					1.3	2.2 ^H	2.9	3.2	3.4	A	A	A	A	A	A	3.6 ^H	3.1 ^B	2.7	A					
8					E	1.6	(2.5) ^B	3.1	3.4	3.6	A	A	A	A	A	B	3.5	3.2	3.0	2.3				
9					1.3	2.0	2.9	3.1	3.5	3.5	3.5 ^H	3.5 ^J	A	B	B	3.6	3.0	2.8	2.4					
10					1.3	2.3	2.8 ^H	3.2 ^B	3.4	[3.5] ^B	3.6	3.6	3.5	(3.5) ^A	(3.5) ^A	A	3.3	2.9	2.1					
11					E	1.9 ^F	2.5 ^B	3.1	3.6	B	(3.5) ^A	A	3.7 ^H	3.7 ^J	B	3.4	3.2	2.7	A					
12					1.5 ^F	2.2	2.6	3.0	3.4	3.4	3.6	3.6	3.5	3.4	3.4	3.3	3.1	3.0	2.2					
13					E	2.0 ^H	2.5 ^H	C	C	C	C	C	C	C	C	C	C	C	(2.1) ^F					
14					1.3	1.9	2.6	3.1	3.1	3.4	3.4	3.4	3.6	(3.5) ^M	3.6	3.5	3.2	2.7	2.4 ^A					
15					1.3	2.3	2.7	3.3	3.8	3.8 ^J	3.8	B	A	A	A	A	3.6	3.1	2.7	1.9				
16					A	1.4	2.5	3.2	3.3 ^F	3.6	3.7	3.7	3.7	A	A	A	3.4	2.8 ^J	A					
17					1.6	2.2	2.8 ^F	3.3 ^B	A	3.7	3.7	A	3.3	B	B	3.4	3.1	A	A					
18					1.3	2.2	2.7	3.0 ^A	3.3	3.4	3.4 ^B	3.4 ^B	3.5 ^B	3.6 ^B	3.4	3.3	(3.1) ^F	2.7	2.0					
19					E	1.8	2.8	3.1	A	A	A	A	A	A	A	3.4	3.2 ^M	2.3	2.1					
20					1.4 ^F	2.5 ^F	2.8	3.1	3.4	B	B	B	3.4 ^B	B	A	A	N	2.7	2.2					
21					A	2.3	2.8	3.1	3.7	3.7	A	A	A	3.6	3.6	A	3.2	A	A					
22					A	A	2.7 ^J	3.2 ^A	3.5	B	A	A	3.6	A	A	A	3.2	2.9	2.3					
23					1.3	2.4	2.9	3.0 ^F	3.6	A	B	3.6	A	A	3.4	3.5	3.2	2.9	2.3 ^A					
24					(1.7) ^A	2.1	2.4	2.9 ^H	3.5	3.6	3.6	[3.6] ^C	3.6	3.5	3.6	3.4	B	2.7	2.2 ^F					
25					1.5	2.0	2.8	(3.5) ^N	3.4	3.5	3.5	A	A	A	3.6 ^A	3.4 ^A	A	A	A					
26					1.2	2.2	2.8	3.2	3.5	3.6	3.7 ^H	3.6	3.6	3.5	A	A	A	2.9	A					
27					1.7	2.4	2.9	3.2	A	A	B	A	A	3.5	A	A	A	2.7	A					
28					A	2.2	2.7	C	C	C	C	C	C	C	C	C	A	A	2.5					
29					A	A	A	A	3.4 ^A	(3.2) ^N	(3.3) ^N	A	A	A	3.7	3.3	3.2	B	2.0					
30					1.6	2.5	2.9	3.2	3.4 ^H	3.6	3.6	3.6	3.6	3.6	3.6	3.4	3.4	2.8	2.1					
31					1.6 ^F	2.4	2.6	3.2	3.3	3.4 ^B	A	B	3.4	A	B	3.6 ^H	3.4	A	A					
Median Value					1.3	2.2	2.7	3.2	3.4	3.5	3.6	3.6	3.6	3.6	3.5	3.4	3.2	2.7	2.2					
Count					26	28	30	28	26	22	21	17	18	13	15	22	22	24	20					

Sweep 1.0 Mc to 14.0 Mc in 1.5 min Manual

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

Lat. 45° 23.6' N
Long. 141° 41.1' E

May 1950

h' E

Wakkanai

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 100	100	100	100	100	100	100	100	100	100	100	100	100	100	A					
2					A 100	100	100	100	110	110	100	100	A	A	A	100	A	A	A					
3					A 120	130	120	B	100	100	100	100	100	100	100	100	100	100 ^H	100 ^H					
4					110	110 ^H	110	110	100	100	100	100	100	100	100	100	100	[100] ^C	110	100				
5					B 130	130	110	110	110	100	110 ^F	100	110	110	110	110	110	110	100	120 ^H				
6					B A	120	120	110	110	A	A	A	A	A	A	110 ^H	110 ^F	150 ^A	120	120 ^H				
7					B 120 ^H	120	110	100	100	A	A	A	A	A	A	110	100	100	100	100				
8					E 120	110	100	100	100	100	A	A	A	A	100	100	100	110	110	110				
9					E (100) ^B	110	110	100	100	100 ^H	100	A	100	100	100	100	100	100	100	110				
10					120	110	100 ^H	100 ^H	100	100	100	100	110	100	100	A	100	100	100	100	A			
11					E 140 ^F	100	100	100	100	100	A	100 ^H	100	100	100	100	100	100	100	100	A			
12					160	150	120	110	100	110	110	100	110	100	100	110	100	100	120	120				
13					E 110 ^H	110 ^H	C	C	C	C	C	C	C	C	C	C	C	C	110	110				
14					E 110	110	110	100	100	100	100	110	100 ^A	100 ^A	A	A	110	110	110	110				
15					100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	A			
16					A E	110	100	100	100	120	100	100	100	100	100	100	100	100	100	100	A			
17					100	100	100	100	100	100	150	100	100	100	100	B	100	100	A	A				
18					110	120	110	100 ^A	110	120	110	110	110	110	100	100	110	110	110	100	100			
19					130	130	120	110	A	A	A	A	A	A	A	100	100	100	100	100	110			
20					120 ^F	150	110	110	100	100	100	(100) ^B	100	110	100	A	100	120	100	100				
21					A	100	110	110	100	100	100	100	A	100	100	100	100	100	100	100	A			
22					A A	100	110	110	110	B	A	A	100	A	A	A	120	100	130	130				
23					E 130	110	100	100	100	A	120	120	100	A	100	100	110	110	110	110	A			
24					100 ^A	100	110	100 ^H	110	100	100	(100) ^C	100	100	100	100	100	B	110	110				
25					100	100	100	100	110	110	110	100	A	A	A	100	100	A	A	A				
26					E 100	110	100	100	100	100	110 ^H	110	100	100	100	A	A	100	100	100	A			
27					120	130	110	100	A	A	B	A	110	A	100	A	100	A	110	110				
28					A 110	100	C	C	C	C	C	C	C	C	C	C	C	C	A	110				
29					A A	A	A	A	100	100	100	A	A	A	A	110	100	100	100	100				
30					100	100	100	110	100 ^H	100	100	100	100	100	100	100	100	100	100	100	110			
31					110	110	110	110	110	100 ^H	100 ^A	B	100	A	B	100 ^H	120	120	120	A				
Median Value					120	110	110	100	100	100	100	100	100	100	100	100	100	100	100	100	110			
Count					21	28	30	28	26	24	24	21	21	17	22	23	23	24	19	19				

Sweep 1.0 Mc to 5.4 Mc in 1.5 min Manual

W 7

Radio Regulatory Agency (Denpacho)
 Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

Lat. 45° 23.6' N
 Long. 141° 41.1' E

fEs

May. 1950

Wakkanai

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	G	2.5	2.4	2.9	3.2	G	G	G	4.8	4.8	6.0	5.0	G	5.8 ^Y	G	5.0 ^Y	G	4.4	5.2	3.7	4.8	7.7	4.2	6.4
2	4.8	6.8	3.6	3.2	2.6	G	G	G	G	5.1 ^Y	4.7 ^Y	G	4.8	4.5	4.6	G	4.7	4.0	3.0	5.0	6.5	3.4	3.2	5.0
3	4.3	4.2	2.8	4.9	2.7 ^Y	G	6.2 ^Y	G	B	5.6 ^Y	5.2	G	G	G	10.6 ^Y	7.0 ^Y	G	G	5.9 ^B	C	C	7.4	2.9	4.3
4	C	C	C	3.0 ^F	G	G	G	5.0	G	G	G	G	4.3	4.8	5.0	4.4	C	G	G	3.0	3.5	5.3	3.7	2.1
5	2.0	2.1	G	G	G	G	(4.1) ^Y	(4.3) ^Y	B	4.8	4.3 ^Y	4.5 ^Y	4.2 ^Y	B	B	G	G	G	3.8	2.8 ^B	4.6	2.4	2.5	
6	2.2	G	2.0	G	2.1	3.4	4.1 ^Y	G	5.7	5.4	5.7	5.4	G	G	G	G	G	G	3.5	3.3	1.9	2.8	G	G
7	4.5	2.6	G	G	G	B	(4.0) ^B	(4.3) ^B	4.2	4.2	4.4	4.2	4.2	4.4	6.1	4.8 ^Y	G	4.3 ^Y	5.9	4.4	3.4	2.7	2.6	2.3
8	G	3.0	G	2.6	G	2.6 ^Y	G	G	5.0 ^Y	G	6.4 ^B	7.1	4.3	4.3	B	G	G	G	3.0	3.8	3.6	4.8	3.0	2.2
9	2.2	2.2	G	2.0	2.0 ^Y	2.9 ^Y	G	G	G	5.1	G	G	4.7	4.3 ^Y	B	G	G	3.6 ^Y	4.2	2.1	1.7	2.0	2.0	2.4
10	2.6	1.4	G	G	G	G	G	G	G	B	4.9 ^Y	G	4.8 ^Y	4.4	4.4	4.4	G	G	G	4.2	2.0	G	G	1.6
11	3.4	3.2	G	4.6	G	2.4 ^F	B	4.3	5.1	9.0 ^Y	4.8	10.4	6.6	6.8 ^Y	4.4 ^Y	4.4	G	4.0 ^Y	G	3.4	3.6	5.0	B	G
12	G	1.9	2.1	2.1	3.0 ^Y	2.4 ^F	4.0 ^Y	G	4.7	G	G	G	5.0 ^Y	5.0 ^Y	4.8	G	G	G	G	2.2	2.2	G	G	1.6
13	2.8	G	2.0	1.4	B	G	2.9 ^Y	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
14	1.8	B	1.2	G	G	3.4 ^Y	5.6	4.6 ^Y	7.8	9.4	9.8	1.8	G	5.0	G	8.5	7.5	7.0 ^Y	5.0	7.0	7.4	6.8	4.9	2.4
15	2.6	2.4	2.4	1.4	G	G	G	G	G	G	5.3 ^Y	B	7.2 ^Y	6.0	5.4	4.2	G	5.0 ^F	3.8	2.1	3.3	3.2 ^B	2.6	3.4
16	3.5	2.0	G	2.0 ^B	2.3	2.4	G	G	6.5	5.6	4.7	8.8 ^B	6.9 ^B	5.2	G	G	G	3.8	G	4.3	4.3	4.1	2.2	G
17	3.4	2.2	2.4	3.6	G	G	4.2	(6.0) ^Y	4.5	G	4.6 ^Y	5.5	B	B	B	G	5.2	4.2	3.7	5.5	4.8	4.4	5.5	3.6
18	2.3	1.8	2.1	2.2 ^F	G	2.8 ^Y	3.6	3.3	4.4	4.5 ^Y	4.6 ^Y	4.6 ^Y	4.7 ^Y	4.4	4.4	4.6	G	4.4	4.4	3.4	3.4	2.8	3.2	2.4
19	2.0	G	2.8	2.5 ^B	G	2.5 ^Y	G	G	4.2	5.2	5.3	4.1	4.3	3.8	4.0	5.4	G	G	4.0	B	2.8	2.2	3.5	2.2
20	2.7	3.1	2.4	1.7	G	G	B	4.4 ^Y	4.4 ^Y	5.1 ^Y	B	4.4 ^Y	B	G	3.6	3.7	3.8	3.7 ^Y	G	3.0	3.2	G	3.0	2.2
21	G	2.2	G	1.6	5.2	G	4.7	4.4 ^B	4.8	6.2	7.0	8.0	8.4	4.8	5.0	6.0	5.7	7.1	7.1	5.2	8.2	4.6	5.6	6.0
22	5.7	7.0	5.6	4.6	3.6 ^F	5.4	4.4 ^Y	6.4	7.4	8.7	8.7	9.0	8.7	8.7	7.5	5.1	4.2	7.5	6.1	C	4.4	4.7	6.5	5.7
23	4.7	2.8	G	3.2	G	G	G	5.2	6.2	5.2	G	7.4 ^Y	7.0	7.8 ^F	12.4 ^F	8.1 ^F	7.9 ^B	7.7	6.0	5.5	3.5 ^B	2.4	G	G
24	2.2 ^Y	2.2	1.9	G	4.9 ^B	3.6	3.3	G	11.5 ^F	(10.3) ^F	6.6	C	(9.0) ^Y	9.8	5.3	4.4	B	4.8	4.3 ^Y	3.7 ^Y	3.5	3.7	4.8	7.8
25	7.4	7.5	2.7	3.0	G	3.4 ^B	4.5	G	7.0	G	D	11.0	6.5	6.0	6.2	6.0	7.2	5.7	5.8	8.5	8.9	7.8	5.4	4.7
26	3.0	3.4	3.6	2.4	3.6 ^Y	4.2 ^Y	3.6 ^Y	5.4	6.1	10.5 ^B	9.8 ^F	13.4 ^F	D	13.5 ^F	12.2 ^F	11.3 ^F	5.5	8.4 ^B	8.7	6.4	7.0	2.8	2.6	1.6
27	2.8	3.8	5.3	3.3	G	3.3	G	4.3	4.8	6.3	6.0 ^F	8.2 ^Y	7.2	7.2	6.2	4.7	10.0 ^B	4.0	8.0	4.9	9.5 ^B	6.6 ^Y	5.0	2.2
28	3.0	4.4	4.2	3.2	3.1	4.2 ^Y	4.8	C	C	C	C	C	C	C	C	C	10.5 ^Y	4.4 ^B	4.4	3.9	4.4	5.8	3.8	3.3
29	4.5	2.5	3.3	2.6	3.5	5.8	4.4	(9.0) ^F	13.0 ^F	12.8 ^B	11.4 ^B	9.8	6.9	8.2	5.0	G	5.8 ^Y	8.0 ^Y	10.2	5.4	7.6	6.6	5.8	4.6
30	3.8	3.7	2.4	1.6	G	3.1	4.2	3.7 ^Y	6.6	5.0	5.7	5.7	G	4.6	5.0	4.4	4.0	G	3.1 ^B	2.6	2.8	2.7	4.0	3.7
31	3.5	1.8	1.8	2.2	G	G	G	G	(4.8) ^Y	5.2	7.2	6.4 ^Y	7.8 ^Y	(8.2) ^B	B	G	G	4.5	4.5	5.0	12.7 ^F	8.0 ^F	3.5	3.4
Median Value	2.8	2.5	2.1	2.2	G	2.4	3.6	3.3	4.8	5.2	5.3	5.5	4.8	5.0	5.0	4.4	3.8	4.1	4.3	3.8	3.6	3.6	3.2	2.4
Count	30	29	30	31	30	30	29	29	27	28	28	27	28	27	24	29	28	30	31	28	30	30	31	31

Sweep 1.0 sec to 14.0 sec in 1.5 min Manual

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku., Tokyo, Japan

Lat. 45° 23.6' N
Long. 141° 41.1' E

Wakkanai

IONOSPHERIC DATA

135° E Mean Time

(M3000)F2

May. 1950

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 ^H	2.5	2.5	(2.5) ^S	2.5	2.7	2.8	2.8	3.1	(2.8) ^S	2.9 ^P	2.7	2.7	2.4	2.6	2.6	2.5	2.8	3.0	(3.0) ^S	3.0 ^S	A	(2.8) ^T	(2.7) ^T	
2	2.5 ^S	(2.6) ^B	2.4 ^F	2.5 ^H	2.9 ^H	3.0	3.0	3.1	3.0	3.2	(2.7) ^S	2.7 ^P	(2.7) ^S	S	(2.9) ^B	2.9	(2.9) ^S	(2.9) ^S	(2.9) ^S	3.1	(3.3) ^S	2.7	2.7 ^H	2.6	
3	2.6	2.5	2.3	2.6	3.0	2.9 ^F	2.6	(2.8) ^B	(2.8) ^B	(2.7) ^B	2.7	2.8	2.7	A	2.8	2.8 ^H	2.8 ^H	2.7 ^P	C	C	2.5 ^H	2.7 ^H	2.9		
4	C ¹	C	C	2.6	2.6 ^H	2.9	3.0 ^Z	3.1	2.9	3.1	2.7	2.8	2.6 ^H	2.7	2.7 ^H	2.9	(2.8) ^C	2.8	2.8	(2.9) ^S	(2.6) ^F	2.9	2.7 ^P		
5	2.6 ^P	2.6	2.5	2.5	2.3	2.5	2.6	2.7	(2.6) ^B	S ^K	B ^K	2.4 ^K	B ^K	2.5 ^K	2.8 ^F	2.7 ^K	2.8 ^F	2.7 ^F	2.7	2.6	2.5	2.5	2.6 ^F	2.6	
6	2.4	2.4	2.4 ^V	2.5	2.4	2.5	2.6	2.5	2.6	2.8	2.8	2.8	2.8	2.9	2.8	2.7	2.8	3.0	2.8	2.7	2.8	2.7	2.8	2.7	2.6
7	2.5	2.6	2.5	2.4	2.4	2.6	2.8	2.7	2.7	2.8	2.5 ^P	2.6	2.5	2.7	2.6 ^P	2.8 ^P	2.9	2.6	2.7	2.7	2.7	2.5	2.4	2.4	2.3
8	2.3 ^H	2.6	2.3 ^H	2.4	2.5	2.6	3.0	2.6 ^H	2.9	3.0	2.8	2.9 ^H	2.8	2.8	2.7	2.8	2.8	2.9	2.9	3.0	3.1 ^S	(2.6) ^H	2.7		
9	2.8	2.8	2.8	2.6	2.8	2.9	2.9	(2.7) ^B	(2.8) ^B	2.6	2.5 ^H	2.8 ^H	2.6	S	2.5	2.6	2.7	2.8 ^P	3.0	(3.0) ^T	(2.8) ^S	(2.6) ^H	2.4		
10	2.6 ^H	2.5	2.5	2.5	2.5	(2.8) ^B	2.9	(2.7) ^B	2.6	2.6	2.7	2.7 ^H	2.6 ^H	2.8	2.7	S	3.0 ^H	3.0	3.0	3.2	2.9	3.0 ^S	3.0	2.7	
11	2.7	2.5	2.5	2.4	2.5 ^H	2.6	2.9	2.6	2.8	2.7 ^H	(2.8) ^B	2.7 ^H	2.7	2.7	(2.5) ^F	2.7	2.8	3.0	2.6 ^S	(3.1) ^S	(2.6) ^H	2.9 ^H	(3.0) ^B	2.5 ^H	
12	2.6 ^H	2.5	2.6	2.5	2.5	2.4	2.6	2.6 ^V	2.7	2.7	2.8	2.8	2.7	2.7	C	C	C	C	C	C	2.7	2.6	2.5	2.5	
13	2.5 ^P	2.6 ^H	2.6 ^H	2.6	2.4 ^H	2.7	(2.8) ^F	C	C	C	C	C	C	C	C	C	C	C	C	C	2.7	2.6	2.4	2.4	
14	2.3	2.5 ^H	2.6 ^H	2.5	2.6	2.7	2.9 ^H	2.8	A	A	2.5	A	2.5	2.6	2.8	A	2.7	2.7	2.5	2.7	2.7	2.6	2.4	2.4	
15	2.3	2.6	2.7	2.7	2.5	2.9	2.6	2.7	2.8	2.8	2.8	(2.7) ^B	2.9	2.7	2.7	2.7	2.8	2.9	2.8	2.7	2.8	2.5	2.7	2.6	
16	2.5 ^H	2.3	2.6 ^H	2.4 ^H	2.6 ^H	2.6 ^H	3.2	(2.8) ^F	2.9	2.9	2.8	(2.9) ^B	2.8	2.8	2.7 ^S	2.7 ^P	2.9	2.9	2.9	2.9	2.8	[2.8] ^C	2.8	2.8	
17	2.5	2.6	2.8	2.6 ^V	2.9	3.1	2.8 ^V	(2.9) ^B	(2.8) ^K	2.6 ^K	2.4 ^K	2.6 ^K	2.7 ^K	2.7 ^K	2.5	2.8	2.7	2.5	2.6	2.7	2.7	2.7	2.6	2.7	
18	2.5	2.6	(2.4) ^F	(2.4) ^F	2.6	2.8	2.8	3.0	2.8	2.8	2.4	2.6	2.7	2.8	2.7	2.9	2.7	3.0	2.7	2.7	2.7	2.7	2.6	2.7	
19	2.5	2.4	2.6	2.5 ^H	2.4	2.6	2.7	2.8	2.8	2.9	2.7	2.5	2.6	2.6	2.6	2.6	2.7	2.7	2.6	2.7	2.6	2.6	2.5	2.6	
20	2.5	2.5	2.6	2.6	2.5	2.5	2.8	2.9	3.0	2.9	(2.9) ^B	(2.7) ^K	2.7 ^P	2.7	2.8	2.7	2.7	2.6	2.7	2.7	2.7	2.7	2.4	2.5	
21	2.5	2.6	2.5 ^H	2.6 ^V	2.7 ^Z	2.5	2.8	2.9	2.7	2.6	2.5 ^F	2.4	2.7	2.6	2.8	2.7	2.9	(2.8) ^B	2.8	(2.9) ^F	A	2.7	2.6	2.6	
22	(2.4) ^F	2.6	2.4 ^K	2.5 ^F	2.5 ^F	3.1 ^F	3.0 ^F	2.7 ^K	F ^K	B ^K	AF ^K	A ^K	F ^K	A	2.7	2.8	2.7	3.2 ^F	2.6	[2.6] ^C	2.6	2.5 ^F	2.6	2.3 ^P	
23	2.5	2.5	2.5 ^H	2.6	2.6	2.5	2.8	2.7	B ^K	2.6 ^K	2.6 ^K	2.3 ^K	2.5 ^K	2.6 ^K	2.7 ^K	2.7 ^K	A ^K	2.7 ^K	A ^K	2.7 ^K	2.6	2.4	2.5	2.6	
24	2.5	2.6	(2.3) ^B	(2.3) ^B	(2.3) ^B	2.9 ^K	2.9 ^K	2.6 ^K	AF ^K	3.5 ^K	B ^K	C ^K	2.4 ^K	A ^K	2.7 ^H	2.6 ^S	2.8 ^K	2.6 ^K	2.7	2.6	2.7	2.7 ^P	2.5 ^H	2.7 ^H	
25	A	A	2.5	2.9 ^H	2.7	3.0	2.7 ^H	2.7	2.8	2.4 ^F	AF	2.5 ^F	2.7	2.6	2.5	2.6	2.6	2.5 ^F	2.7	A	2.6	2.6 ^S	2.7	2.6 ^Z	
26	2.3 ^V	2.5 ^H	2.5 ^V	2.6 ^V	2.5	2.7	2.7 ^H	2.9	3.4 ^K	3.3 ^A	2.6	(3.8) ^F	AF	2.8 ^V	2.6	2.7	2.8	A	A	2.5	2.8	2.4	2.6	2.7 ^H	
27	2.6	2.7	2.7	2.5	2.6	2.7	2.7	2.9 ^F	C	C	C	C	C	C	(2.6) ^B	2.7	2.5	2.7	2.5 ^H	S	2.5 ^H	A	2.5	2.8 ^H	
28	2.5	2.4	2.3 ^F	2.4 ^F	2.5 ^F	2.6 ^F	2.9 ^F	C	C	C	C	C	C	C	C	C	3.3 ^A	2.6	2.9	2.6	2.7	2.6 ^B	2.5	2.4	
29	2.5 ^H	2.7	2.4	(2.4) ^B	2.5	2.6	3.1	3.1	A	A	A	A	A	A	2.8 ^S	2.5	3.0	(3.1) ^B	(2.9) ^F	3.1	2.8	2.7	2.8 ^Z	2.6 ^H	
30	2.5	2.5	2.6	2.5	2.7	(2.9) ^B	2.9 ^F	2.8	2.6	2.7	2.7	2.6	2.6	2.6	2.8	2.7 ^P	3.2 ^H	2.8	2.6	2.8 ^S	2.8	2.6	2.5	2.6	
31	2.5	2.5	2.4 ^H	2.6	2.9	2.9	2.8	2.7	2.8	B ^K	3.5 ^K	2.4 ^K	2.7 ^K	(2.5) ^K	(2.8) ^B	2.8 ^K	2.8	2.7	2.8	3.0	AF	2.7 ^F	(2.4) ^V		
Median Value	2.5	2.5	2.5	2.5	2.7	2.8	2.7	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8	2.7	2.8	2.7	2.6	2.6	2.6	
Count	29	29	30	31	31	31	31	29	24	24	24	25	25	24	28	27	30	28	29	29	27	29	31	31	

Manual

Frequency Mc to 4.0 Mc in 1.5 min

W 9

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May. 1950

fminF

Wakkanai

Lat. 45° 28.6' N
Long. 141° 41.1' E

135° E Mean Time

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

Sweep 1.0 Mc to 4.0 Mc in 1.5 min

Manual

Radio Regulatory Agency (Denpacho)

Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May 1950

Wakkanai

Lat. 46° 23.8' N
Long. 141° 41.1' E

135° E Mean Time

fminE

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	E	E	1.5	1.9	1.9	2.0	1.9	1.6	1.5	1.3	1.2	E	E	E	E	E	E
2	E	E	E	E	E	E	1.2	E	E	1.2	1.5	1.4	1.5	1.4	1.5	1.4	1.2	1.4	1.2	E	E	E	1.2	E
3	E	E	1.2	E	E	E	1.6	2.2	B	E	1.9	1.8	2.2	1.6	1.7	1.2	1.2	1.2	1.2	C	C	1.3	1.2	1.7
4	C	C	C	1.2 ^F	E	1.1	1.3	1.4	1.4	1.3	1.4	1.6	1.8	1.6	1.8	1.8	(1.6) ^C	1.4	E	E	E	E	E	E
5	E	E	E	E	1.2	E	1.4	1.5	1.5	1.5	1.9	1.6	1.6	2.0	1.8	1.9 ^F	1.8	1.6	1.6	E	E	E	E	E
6	E	E	E	E	E	E	E	E	E	E	E	1.2	1.2	1.4	1.4	1.3	1.2	1.5	1.2	1.1	1.1	1.1	1.1	E
7	1.2	1.1	B	E	1.1	1.4	1.4	1.5	1.6	1.6	1.6	1.5	1.6	1.6	1.4	1.5	1.4	1.4	1.4	1.6	1.4	1.3	1.7	1.2
8	E	1.1	E	1.3	E	1.2	1.3	1.4	1.5	1.6	2.0	2.0	1.5	1.6	2.0	1.5	1.6	1.4	1.2	1.2	E	E	E	E
9	E	E	E	E	(1.7) ^B	E	1.2	1.2	1.3	1.3	1.5	1.3	1.6	1.8	1.5	2.1	1.5	1.5	1.4	1.2	1.2	1.2	1.3	1.2
10	E	E	E	E	E	E	E	E	1.6	1.7	1.7	1.8	1.6	1.6	1.5	1.4	1.2	1.2	1.1	1.2	1.1	1.1	E	E
11	E	E	E	E	B	1.5	1.5	E	1.2	1.6	1.5	2.0	1.6	1.6	2.0	1.8	1.8	1.5	1.7	1.3	1.1	B	E	E
12	E	1.7	1.6	1.7	1.1	1.2	1.3	1.2	E	1.4	1.6	1.8	1.8	2.0	1.4	1.2	1.2	1.2	E	E	E	E	E	E
13	E	E	E	E	B	E	E	C	C	C	C	C	C	C	C	C	C	C	C	1.1	1.2	1.2	E	E
14	E	B	E	E	E	E	E	E	1.2	E	1.3	1.2	1.4	1.4	1.3	1.5	E	E	E	1.1	E	E	1.2	E
15	E	E	E	E	E	E	E	E	1.1	1.2	E	1.8	1.8	1.5	1.9	(1.6) ^B	1.5	1.2	1.2	1.1	1.2	1.2	E	1.1
16	E	1.8	E	1.8	1.1	1.1	1.4	1.5	1.2	1.2	1.2	1.2	1.2	1.2	1.4	1.2	1.7	1.2	1.3	1.2	1.2	1.2	E	E
17	E	E	E	E	E	E	E	E	1.2	1.3	1.2	1.9	1.9	1.8	B	3.9	1.5	1.3	1.3	1.2	1.2	1.2	E	E
18	E	E	E	E	E	1.4	E	1.3	1.6	1.7	1.5	1.6	1.5	1.4	1.9	1.6	1.4	1.2	1.1	1.1	1.1	E	E	E
19	E	E	E	1.3	E	1.2	1.1	1.2	1.2	1.4	1.4	1.5	1.5	1.5	1.4	1.4	1.4	1.3	1.2	B	1.2 ^B	(1.1) ^B	E	E
20	1.4	E	E	E	1.2 ^F	1.1	E	1.4	E	1.4	2.0	(2.2) ^B	1.9	1.9	E	E	1.8	1.4	E	E	E	E	E	E
21	E	E	E	E	E	E	1.2	1.4	1.2	1.6	1.6	1.4	1.6	1.6	1.4	1.4	1.4	1.3	1.3	1.3	E	E	E	E
22	E	E	E	E	E	E	E	E	E	4.4	2.2	2.2	1.8	1.6	1.8	1.5	1.2	1.5	1.3	(1.2) ^C	1.1	1.2	1.2	1.2
23	E	1.2	E	E	E	1.1	1.4	E	2.0	2.0	2.0	2.1	2.0	2.0	1.5	1.5	1.4	E	E	E	1.1	1.3	E	E
24	E	1.1	1.2	E	E	1.1	1.1	E	1.2	1.2	1.2	(1.4) ^C	1.5	1.5	1.4	1.5	B	E	E	E	E	E	E	E
25	E	E	E	E	E	E	E	E	E	1.2	1.5	1.5	1.5	1.6	1.5	1.5	1.4	1.4	1.3	1.2	1.2	1.2	E	E
26	E	E	E	E	E	E	E	E	1.2	1.3	1.4	1.3	1.4	1.3	1.2	E	1.3	1.3	1.4	1.1	1.2	E	E	E
27	1.1	E	E	E	E	E	1.1	1.3	2.3	2.6	3.5	1.8	1.6	1.6	1.7	1.5	1.3	1.3	1.4	1.1	1.2	1.1 ^B	E	E
28	1.1	E	E	E	E	E	E	C	C	C	C	C	C	C	C	C	1.4	1.2	E	E	E	E	E	E
29	E	E	E	E	E	E	E	E	1.4	1.1	1.5	1.3	1.5	2.0	1.7	1.5	E	1.2	E	E	E	E	E	E
30	E	E	E	E	E	1.2	1.3	1.3	1.1	1.2	1.2	1.4	1.4	1.4	1.2	1.2	1.2	1.2	1.1	E	E	E	E	E
31	E	E	E	E	E	E	1.1	1.1	1.1	1.2	1.6	(2.1) ^B	2.0	1.9	B	2.0	1.7	2.0	1.2	1.1	E	E	E	E
Median Value	E	E	E	E	E	E	1.1	1.2	1.2	1.3	1.5	1.6	1.6	1.6	1.5	1.5	1.4	1.3	1.2	1.1	E	E	E	E
Count	30	29	29	31	29	31	31	29	28	29	29	29	28	28	28	29	29	30	31	29	30	30	31	31

Sweep—1.0 Mc @ 50 Mc in 1.5 min

Manual

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

Lat. 39° 43.5'N
Long. 140° 08.2'E

May 1950

foF2

Akita

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	8.2	7.9	7.0	6.6	6.6	7.1	8.3	9.4	9.8 ^H	11.2	10.7	10.7	10.9	10.6 ^H	10.7	9.6	9.4	9.6	9.9	9.4	9.3	8.9	9.2	8.7
2	9.2	8.2 ^F	8.2 ^F	7.9 ^F	7.6 ^F	8.4	8.0	8.2	8.4	8.4	8.9	9.9 ^F	9.9	10.4	10.6	10.3	9.9	10.1	10.1	9.4	8.3	8.4	8.2	7.9 ^F
3	7.7	7.4	S	6.3	6.6	8.2 ^F	8.0 ^F	6.3	8.0	9.0	8.6	10.0	11.0	11.0	10.8	11.1	11.0	10.6	9.5	8.4	8.4	8.6	7.5	
4	7.3	7.2	6.8	6.7	7.0	8.6	9.7	8.9 ^F	8.3	8.4	11.2	11.3	10.8	10.7	10.2	10.2	10.5	10.5	10.6	10.2	8.7 ^S	8.4	8.6	7.5
5	7.4	7.4	7.0	6.7	6.4	7.8	9.1	9.0 ^H	8.0	7.7	7.0 ^K	8.1 ^H	9.4	8.2 ^K	8.7 ^K	8.1	8.8	9.0	9.1	8.7	8.7	7.7	7.7	8.1
6	7.5	7.3	6.9	6.4	6.6	7.5	8.7	8.9	9.8	9.3	9.5	9.0	9.8	10.0	9.5 ^H	10.1	9.7	9.1	8.8	8.5 ^F	8.2	8.0	7.8	7.7
7	8.0	7.5	8.2	7.6	7.5	7.9	9.3	9.5	10.2	9.8	9.0	9.2	9.6	10.4	10.8	10.2	9.6	9.4 ^S	9.4 ^S	S	S	(7.8)	(7.6)	
8	7.8 ^F	8.0 ^F	7.7	7.3	7.5	7.9	8.8	9.2	9.9	9.7	10.7	11.0	11.0	C	C	C	C	C	9.8 ^H	10.0	9.6	8.7	8.0	7.5
9	7.0	8.5	8.3	8.0	7.9	9.4 ^F	9.3	9.2	9.4	10.4	10.9	10.9	11.0	C	C	11.0	10.9	10.9	10.4	10.2	9.0	8.4 ^H	8.8	6.4
10	9.0	8.6	8.9	8.0	7.9	9.0	10.8	10.3	9.8	9.3	9.3	10.6 ^H	11.0 ^H	11.4	11.3	11.1	11.0	10.1 ^H	9.7	9.4	9.0	9.1	9.0	8.8
11	8.4	7.9	7.9	7.2	7.0	8.0	9.0	9.9	10.3	10.0	11.1	10.6	11.5	11.3	11.4	11.4	11.0	10.6	9.6	9.5	9.2	9.4	9.5	9.8
12	8.8	8.3	8.6	8.1	6.7	7.3	8.2	9.4	9.4	9.4	10.8	10.4	10.8	10.3	10.8	10.8	10.5	10.5	10.1	9.1	8.4 ^H	8.5	8.4	8.8
13	8.8	8.6	8.1	7.1	7.2	8.3	9.4	9.5	9.8	10.0	10.2	10.5 ^H	12.1	11.7	11.8	11.5	11.2	10.8	11.2	9.5	9.1 ^H	8.0 ^H	8.7	8.5
14	7.9 ^H	7.7	7.4	7.5	8.4	8.6	10.3 ^V	9.2	8.9	8.8	8.7	8.2	8.3	8.9 ^S	8.6 ^S	8.2	7.4	7.3	7.2	8.3	7.8 ^S	7.7 ^F	A	A
15	SA	8.4	7.4 ^F	6.7	6.2	7.0	7.2 ^H	7.9	8.3	8.9	7.8 ^H	9.1	9.5	9.9	8.7	9.1	9.9	10.1	9.2	8.0	7.7	7.9	8.0	8.0
16	8.0	7.4	7.2	7.2	7.0	8.1	9.2	8.6	8.7	7.7	8.7	9.4 ^H	9.9 ^H	8.6	8.7	9.7	10.2	10.2	9.3	9.4 ^S	8.8	9.0	8.9	8.4
17	8.2	8.2	7.8	7.7	7.6	8.0	9.0	8.9	7.7	7.3	7.3	8.2	8.9	9.0	8.7	8.5	8.2	8.0	8.2	9.0	7.8	9.0	8.1	8.0 ^F
18	7.6 ^F	7.0 ^J	6.4 ^P	6.5	6.7	7.2	7.7	8.6	8.4	8.0 ^H	8.4	9.2	10.2	10.2	10.3	9.0	9.1	8.1	8.3	8.4	7.7	7.9	7.8	7.7 ^H
19	7.0	7.4	7.0	6.1	6.1 ^H	7.5	10.0	8.0	8.2 ^F	7.3 ^B	8.1	8.7	9.3	9.2	9.0	9.2	8.6	8.0	7.8 ^H	8.1	7.9	8.1	8.2	8.0
20	8.0	8.0	7.4 ^H	7.1	7.1	7.9	8.8	9.8	10.0 ^V	7.0	C	B	9.0	9.0	9.0	8.4	8.2	A	A	A	9.0	A	AF	B
21	8.2	8.2	(8.6) ^F	(8.3) ^F	8.4 ^P	8.5	9.0	10.2	C	C	C	C	C	C	C	C	C	C	8.4	8.7	9.0	8.3	7.7	7.8 ^F
22	7.8 ^F	7.2 ^F	7.6 ^F	A	(7.4) ^F	8.3 ^F	7.6	6.8	6.8	6.6 ^B	A ^K	8.4 ^K	A ^K	8.4 ^K	8.6	7.9	7.1	6.9	7.1	6.6	7.7	7.8 ^F	7.4 ^F	7.9 ^F
23	7.7 ^H	7.8 ^F	7.0 ^F	7.2	7.4 ^F	7.5 ^F	9.4	9.4	8.7	8.1	8.3	8.1	8.0	7.9	8.0	8.1	8.1	7.2	7.1	8.2 ^H	8.0 ^H	S ^H	8.2	7.9 ^F
24	7.3	7.1	7.0	5.8	5.6	6.0	4.5 ^K	4.7 ^K	6.6 ^K	6.6 ^K	7.0 ^K	7.5 ^K	A ^K	A	A	7.7	A	6.7 ^H	7.1	8.0	8.3	8.1	7.8 ^H	7.6 ^H
25	7.4	7.3 ^F	7.0	7.0	6.6	6.7	8.0	8.2	8.7	8.0	8.0	8.7	9.2	9.0	9.8	10.2	9.7	9.9	10.0	9.5	9.0	8.6	8.6	8.7 ^V
26	8.4	8.0 ^F	7.4 ^F	7.3	7.0	7.7	7.4	6.7	A ^K	7.0 ^K	7.8	8.9	9.1	8.6	8.7	9.2	9.2	8.4	8.2	7.2	7.2	8.2 ^F	9.0 ^F	8.2 ^F
27	(8.3) ^F	7.8 ^F	7.2 ^F	7.3 ^F	7.2 ^F	8.0 ^F	10.2 ^F	8.7 ^F	7.1	7.6	7.5	9.5	9.9 ^H	9.5	10.7	10.5	11.0	10.8	10.2	(9.7) ^H	8.8	8.9	8.2	7.2
28	6.9 ^H	(6.3) ^H	6.4 ^H	6.5 ^F	6.7 ^F	6.6	6.0	C	A	A	A	8.0	8.1	8.2	8.6	9.7	9.5	9.2	8.9	7.7 ^H	6.8	(6.7) ^F	7.8	7.7
29	(8.4)	7.8 ^F	AF	(7.2) ^F	6.8 ^F	6.9	C	C	C	C	7.8	8.3	8.2	8.6	10.3	10.3	10.3	9.4	9.1	9.0	7.9	7.8	7.6	7.7
30	7.3	7.0	7.3	6.3	6.2	6.9	6.8	6.8	7.1	7.4	8.3	9.7	9.4	9.6	10.3	10.3	10.3	9.4	9.1	9.0	7.9	7.8	7.6	7.7
31	7.4	7.1	7.0	6.6	6.5	7.2	8.1	7.8	7.2 ^J	6.8 ^K	7.8 ^K	8.0 ^K	6.8 ^K	8.0	8.5	9.2	9.4	9.6	10.5	9.8	8.1	7.8	7.7	7.7
Median Value	7.8	7.8	7.4	7.2	7.0	7.8	8.8	8.9	8.7	8.2	8.6	9.2	9.8	9.4	9.7	9.7	9.7	9.6	9.3	9.0	8.3	8.1	8.2	7.9
Count	3.0	3.1	2.0	3.0	3.0	3.1	3.0	3.0	2.8	2.8	2.6	2.8	2.8	2.8	2.8	2.9	2.8	2.9	2.9	3.0	2.9	2.7	2.9	2.8

Radio Regulatory Agency (Denpacho)
Aoyama-Kitazemachi, Minato-Ku, Tokyo, Japan

Lat. 34° 43.5' N
Long. 140° 08.2' E

Akita

135° E Mean Time

fpF2

May. 1950

IONOSPHERIC DATA

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

Sweep 1.0 Mc to 1.5 Mc in 15 min

Manual

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May. 1950

R'F2

Lat. 34° 43.5' N
Long. 140° 08.2' E

Akita

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	280	300	300	320	300	290	270	240	250 ^H	280	270	300	320	330 ^H	300	300	290	300	240	270	250 ^A	280	300 ^A	320 ^A	
2	320 ^A	310 ^A	310 ^A	310 ^A	280	240	240	240	230	260	300	300 ^A	330	310 ^A	300	T	290	300	260	280 ^F	260 ^F	270 ^A	280	320 ^A	
3	A	A	320 ^A	330 ^A	330 ^A	220	220	230	220	L	L	360	320	330	340	310	310	250	260	240	320 ^A	310 ^A	290	280	
4	350 ^A	290	310 ^A	320 ^A	310 ^A	270	250	340	290	330	370	330	310	290	310	300	300	290	250	260	240	300 ^A	280	290	
5	280	300 ^A	280	320	310	240	240	280 ^H	310	360 ^A	410 ^K	410 ^K	400 ^K	370 ^K	300 ^K	B	310 ^B	700	270	270	270	300	300 ^A	290	
6	280	290	290	300	330	270	310	300	300	290	300	280	370	340	300 ^H	310	300	300	240	260 ^C	280	310	300	300	
7	300 ^A	300 ^A	300 ^A	300 ^A	310	310	250	230	300	290	300	270	350	320	310	290	280	240	260	240	A	A	220 ^F	310 ^A	
8	310 ^A	310 ^A	280	280	280	240	230	220	240	310	280	280	320	290	C	C	C	C	280 ^H	260	260	260	300 ^A	320 ^A	
9	320 ^A	300 ^A	290	300	290	250	210	220	280	300	290	300	290	280 ^H	310	(310 ^A)	300	290	250	240	250 ^H	270 ^H	300 ^A	300	
10	300	290	290	260	280	260	250	270	220	240	280	330 ^H	350	320	290	300	290	270 ^H	250	270	240	280	300	290	
11	290	270	280	280	300	270	280	290	280	300	300	300	300	310	320	290	290	260	270	290	280	290	300	290	
12	280	290	300	270	250	260	240	250	260	300	300	310	320	310	320	300	300	290	280	280	280	290	300	300	
13	290	260	240	310 ^A	310 ^A	250	220	230	300	290	280	250 ^H	290 ^B	300	300	290	270	280	280	220	250 ^H	290 ^F	300	300	
14	250 ^H	290	280	310	310	290	270	270	L	380	320	300 ^H	400 ^A	350	330	310	310	300	290	300	280	340	A	A	
15	A	(320)	250	300 ^A	270	240	230 ^H	260	270	300	300 ^H	400 ^A	340	330	B	260	310	300	260	300	320	300	350	310 ^A	
16	280	280	310 ^A	280	280	250	230	240	280	290	350	350 ^H	300	340	330	340	300	280	270	280	230	280	320	280	
17	300 ^A	280	280	280	300	270	250	270	300 ^A	300 ^K	360 ^K	340 ^K	350	320	320	320	300	280	260	260	260	260	320 ^F	280	
18	320 ^A	320	310	310	300 ^A	260	230	300	300	300 ^K	350	360 ^H	350	320	310	300	290	300	270	270	280	330	240	270 ^H	
19	320 ^A	320 ^A	260	360	320 ^H	280	270	230	300	350 ^B	380 ^B	340	370	330 ^F	320	320	300	270	240 ^H	250	300 ^A	300 ^A	300 ^A	300 ^A	
20	300 ^A	290	270 ^H	300 ^A	300	240	230	300	250	280 ^H	B	B	250	370	300	310	350	320	A	A	270 ^F	A	AF	3100 ^A	
21	(300 ^A)	300 ^A	(300 ^A)	290	320	260	250	300	C	C	C	C	C	C	C	C	C	C	290	270	250	310	(300 ^F)	AF	
22	340 ^F	(300 ^F)	(300 ^F)	A	A	300 ^A	280	280	310	B ^K	A ^K	400 ^A	A ^K	A ^K	340	300	290	300	300	360	(350 ^A)	380 ^A	350		
23	320 ^H	320	310 ^A	290	300 ^F	260	300	290	310	420	360	400	380	360	350	300	340	260	300	(310 ^A)	350 ^H	340 ^A	700	300	
24	320	340	310	330	340	270	270	A ^K	310 ^K	A ^K	A ^K	420 ^K	A ^K	A	A	370	A	300 ^H	300	280	310	310 ^A	300 ^A	300 ^A	
25	290	300 ^A	300 ^A	280	260	250	290	280	300	280	290	(350 ^B)	400	300 ^H	330	310	700	300	300	300	300	270	320	300 ^A	
26	(310 ^A)	320	300 ^A	300 ^A	310 ^A	250	300	300	A ^K	(400 ^K)	380	330	340	320	A	320	300	300	260	300	(300 ^F)	300 ^F	320	300 ^A	
27	280	270	300 ^A	290	280	270	260	270	300	290 ^H	A	300	300 ^H	370	310	300	300	300	270	260	270	260	280 ^F	310 ^A	
28	230 ^H	250 ^H	260 ^H	340	320	(270 ^A)	270	290	250	A	A	A	400	460	370	320	300	320	A	280	A	A	300	A	
29	(350 ^A)	(330 ^A)	AF	360 ^F	320	A	C	C	C	C	C	360 ^A	330	340	400	300 ^H	300	260	270	A	280	A	300	A	
30	A	330 ^F	290	290	250	250	250	270	290	380	380	350	350	340	350	320	300	300	280	260	300	260	280	300 ^A	
31	300 ^A	300 ^A	300	270	270	300	290	300	300	300 ^K	370 ^K	340 ^K	340 ^K	350	350	330	300	310	280	240	230	290	310 ^A	300 ^F	
Median Value	300	300	300	300	300	260	250	270	290	300	300	340	340	330	320	310	300	300	270	270	270	300	300	300	300
Count	28	30	30	30	30	30	30	29	27	25	22	28	28	28	26	27	28	30	29	30	28	28	29	28	28

Sweep 1.0 Mc to 1.0 Mc in 1.5 min

Manual

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

May. 1950

30F1

Lat. 34° 43.5' N
Long. 140° 08.2' E

Akita

IONOSPHERIC DATA

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	Q	Q	Q	L	L	L	L	5.8	5.0	L	L	L	Q					
2					Q	Q	Q	Q	Q	L	L	L	L	A	L	L	Q	L	Q					
3					Q	Q	Q	Q	Q	L	L	L	L	A	L	L	L	L	L					
4					Q	Q	Q	Q	L	L	L	L	L	L	L	L	L	L	L	Q				
5					Q	Q	Q	Q	A	A	A	A	A	B	5.2 ^B	L	B	L	Q					
6					Q	L	L	L	L	L	L	L	L	L	L	L	L	L	L	Q				
7					Q	Q	Q	Q	L	L	L	5.5 ^T	5.5 ^T	(5.5) ^L	5.2	4.9	L	L	Q					
8					Q	Q	Q	Q	A	A	A	B	L	L	C	C	C	C	A					
9					Q	Q	Q	Q	L	L	B	L	A	A	A	A	L	L	L	Q				
10					Q	Q	Q	L	Q	Q	Q	B	B	L	B	B	B	Q	Q					
11					Q	L	L	L	L	L	L	B	Q	L	L	L	L	L	L					
12					Q	Q	Q	Q	L	L	L	L	L	L	A	A	L	L	L					
13					Q	Q	Q	Q	L	L	L	Q	B	5.0	5.0	L	L	L	L					
14					Q	A	Q	Q	L	L	L	L	5.4	5.3	L	L	L	L	L	3.8				
15					Q	Q	Q	L	Q	A	A	A	A	B	B	B	L	L	L	Q				
16					Q	Q	Q	Q	B	B	B	B	L	S	B	L	L	L	L	Q				
17					Q	Q	Q	L	A	5.2	5.4 ^I	S	B	5.4	L	4.8	L	L	L	Q				
18					Q	Q	Q	4.4	A	L	L	5.6	B	B	L	B	A	L	L	Q				
19					Q	Q	Q	Q	L	L	5.3 ^B	B	B	B	5.3	5.0	4.7	Q	Q					
20					Q	Q	L	B	A	A	B	B	5.2 ^T	B	A	B	A	A	A					
21					Q	Q	(4.9) ^L	C	C	C	C	C	C	C	C	C	C	C	A					
22					A	A	L	A	A	A	A	A	A	A	A	L	A	A	A					
23					Q	L	L	A	A	A	A	A	A	A	5.4 ^B	Q	L	L	L					
24					Q	Q	A	A	A	A	A	(5.5) ^A	A	A	A	L	A	A	L					
25					Q	L	Q	A	Q	L	L	B	L	B	5.0	4.9	A	A	L					
26					Q	L	L	A	A	(5.4) ^B	5.2	5.5	5.6	5.6	A	L	L	L	Q					
27					Q	L	A	B	B	A	(5.6) ^B	L	5.4 ^A	5.3	5.2	L	L	L	L	A				
28					A	A	A	Q	A	A	A	A	A	A	A	A	L	A	A					
29					A	C	C	C	C	C	C	A	A	5.5	5.6 ^T	4.8	L	L	Q					
30					Q	Q	A	A	A	A	A	5.7	(5.1) ^B	L	4.8	A	L	L	L					
31					L	L	L	L	4.8 ^T	L	B	(5.4) ^B	5.5	5.0 ^T	B	4.7 ^A	L	L	A					
Median Value												5.5	5.4	5.4	5.2	4.9								
Count								2	1	2	3	5	6	10	10	7							2	

Sweep 1.0 Mc to 1.0 Mc in 1.5 min Manual

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May. 1950

R'F1

Lat. 34° 43.5' N
Long. 140° 08.2' E

Akita

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	Q	Q	24.0	24.0	24.0	24.0	25.0	25.0	24.0	25.0	24.0	Q						
2						Q	Q	Q	Q	22.0	23.0	A (21.0)	A	A	24.0	T	Q	24.0	Q						
3						Q	Q	Q	Q	2.0	24.0	3.0	A	22.0	23.0	28.0	26.0	Q	Q						
4						Q	Q	Q	Q	24.0	22.0	21.0	2.0	2.0	23.0	23.0	23.0	26.0	Q						
5						Q	Q	Q	Q	A	A	A	A	A	21.0	26.0	B	B	Q						
6						Q	25.0	24.0	23.0	23.0	21.0	23.0	24.0	22.0	(26.0)	22.0	23.0	24.0	Q						
7						Q	Q	Q	Q	24.0	25.0	27.0	A	A	22.0	23.0	24.0	Q							
8						Q	Q	Q	Q	A	A	B	25.0	26.0	C	C	C	A							
9						Q	Q	Q	Q	24.0	21.0	B	A	A	A	A	25.0	(23.0)	Q						
10						Q	Q	Q	Q	Q	Q	B	B	B	B	B	B	Q	Q						
11						Q	25.0	27.0	25.0	22.0	B	B	Q	(27.0)	Q	B	23.0	Q	Q						
12						Q	Q	Q	23.0	(22.0)	23.0	27.0	26.0	25.0	A	A	A	26.0	24.0						
13						Q	Q	Q	24.0	23.0	24.0	Q	B	23.0	21.0	25.0	25.0	23.0	A						
14						Q	A	Q	26.0	A	A	A	B	21.0	21.0	24.0	23.0	27.0	26.0						
15						Q	Q	Q	22.0	Q	A	A	A	A	B	B	26.0	25.0	Q						
16						Q	Q	Q	Q	B	B	B	22.0	S	B	30.0	25.0	Q	C						
17						Q	Q	Q	A	A	22.0	S	B	B	B	23.0	A	25.0	Q						
18						Q	Q	24.0	A	25.0	B	B	B	28.0	A	A	A	25.0	A						
19						Q	Q	Q	22.0	21.0	22.0	B	B	B	27.0	28.0	25.0	Q	Q						
20						Q	Q	Q	23.0	B	A	B	B	B	A	B	A	A	A						
21						Q	Q	Q	23.0	C	C	C	C	C	C	C	C	A	A						
22						A	A	A	26.0	A	A	A	A	A	A	24.0	A	A	A						
23						Q	25.0	24.0	A	A	A	A	A	A	A	B	Q	27.0	Q	23.0					
24						Q	Q	A	A	A	A	A	A	A	A	23.0	A	A	27.0						
25						Q	23.0	Q	A	Q	20.0	B	B	B	B	24.0	A	A	27.0						
26						Q	22.0	23.0	A	A	B	B	B	28.0	A	A	A	26.0	Q						
27						Q	25.0	A	B	A	A	B	(27.0)	A	B	A	24.0	26.0	A						
28						A	A	A	Q	A	A	A	A	A	A	A	25.0	A	A						
29						A	C	C	C	C	C	C	A	A	A	A	25.0	A	A						
30						Q	Q	A	A	A	A	A	A	26.0	B	25.0	25.0	Q	Q						
31						23.0	25.0	23.0	22.0	A	A	A	B	24.0	24.0	A	(26.0)	22.0	A						
Median Value						25.0	24.0			22.0	23.0	24.0	24.0	25.0	23.0	24.0	25.0	25.0	25.0						
Count						1	7	11	10	13	10	5	8	13	11	16	17	15	17						

Sweep 1.4Mc to 1.7Mc in 1.5 min

Manual

Radio Regulatory Agency (Denpacho)

Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

Lat. 34° 43.5' N
Long. 140° 08.2' E

May, 1950

30E

135° E Mean Time

Akita

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) ^B 2.4	2.9	3.0 ^A	3.2	3.3	3.5 ^B	3.7	3.7	3.6	(3.6) ^B	3.7	A	2.8	1.8					
2						2.0	2.7 ^H 3.1 ^H	3.6	3.6 ^B	3.7 ^B	B	3.8 ^A	A	A	A	A	A	A	A					
3						1.9 ^A 2.5 ^F	3.1	3.6	(3.4) ^H	3.6	(3.4) ^N	3.7	3.7	B	3.6 ^B	(3.4) ^A	3.2	2.6 ^J	A					
4						(2.1) ^J 2.5	3.4	3.5	3.8	A	A	(3.7) ^J	3.7	B	3.6 ^B	3.5	3.4	2.8	2.1					
5						1.8 ^H 2.5 ^H	3.1 ^A	A	A	A	A	A	B	A	A	B	B	B	B					
6						1.9	2.8	3.6	3.8	A	A	A	B	A	A	A	A	A	3.0	2.0				
7						A	(2.5) ^J 3.3	B	A	B	A	B	A	A	(3.7) ^B	3.6	3.2	2.8	2.2					
8						1.9 ^H 2.6 ^B	3.2	3.6	A	A	A	A	A	A	A	C	C	C	A					
9						1.8	2.8	3.5	B	B	A	A	A	A	A	A	A	3.2 ^J	(2.8) ^A					
10						B	2.7	3.2	3.6	B	A	B	A	B	A	B	B	3.2	2.2					
11						2.0	2.6 ^H 2.9	3.6	3.6	3.5	3.6	B	B	B	B	3.5	3.3	3.0	A					
12						2.0 ^H 2.8 ^H	3.2	3.2	3.6	3.7	3.7	A	A	A	A	A	(3.4) ^A	2.9 ^A	A					
13						(2.0) ^A 2.6	2.9	B ^H	B ^H	3.7 ^B	B	B	B	B	3.9	3.4	3.4	2.8	A					
14						A	A	3.5	3.6	(3.7) ^B	B	B	B	B	B	(3.3) ^B	3.2	2.7	2.3					
15						1.9 ^H 2.7 ^H	3.0 ^H	A	B	A	B	B	B	B	B	B	A	2.6 ^J	2.0					
16						2.0	2.6 ^H 3.0 ^H	B	B	B	B	B	3.6 ^B	S	A	A	A	A	A					
17						2.0	2.6 ^A	A	3.4	A	B	B	B	B	B	3.6	3.3	2.9	2.2					
18						2.1	2.6	3.0	A	3.6	3.6	3.6	B	B	B	B	B	A	A					
19						(2.3) ^A 2.9 ^H	A	3.6	3.6 ^B	3.6 ^J	A	B	B	4.0	A	A	3.5	3.0	2.3					
20						2.2 ^H 2.8	3.2	A	A	A	B	B	B	B	A	B	B	A	A					
21						(2.1) ^A 2.7	A	C	C	C	C	C	C	C	C	C	C	3.1	2.3					
22						A	2.4 ^J	3.1	3.4	B	B	A	B	B	A	A	B	3.0	2.3					
23						2.1 ^F 2.9	3.2	B	B	B	B	B	B	B	B	B	A	2.6 ^A	A					
24						2.1	2.8	3.3	3.5	A	A	A	A	A	A	A	3.2	A	2.1					
25						2.2	2.8	3.4 ^J	B	B	B	B	B	B	B	B	3.6 ^J	3.3	3.0	(2.0) ^A				
26						2.2	2.6	3.1	3.4	B	B	B	B	B	B	A	A	A	3.0	2.4				
27						2.0	2.6	3.1	B	B	A	B	B	A	A	A	A	3.1	A					
28						A	A	A	A	A	A	A	A	A	B	3.5	A	A	A					
29						A	C	C	C	C	A	A	A	A	A	B	3.2	3.1	A					
30						2.0	2.7 ^H A	3.4	A	A	B	A	B	A	A	A	A	A	2.3					
31						2.0	2.6 ^H 3.0	A	A	A	A	B	B	B	B	B	A	A	A					
Median Value						2.0	2.6	3.1	3.5	3.6	3.6	-	3.7	3.7	3.6	3.5	3.3	2.9	2.2					
Count						25	28	27	18	11	9	4	5	5	8	10	15	20	15					

Sweep 1.5 Mc to 2.0 Mc in 15 min Manual

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May. 1950

f_oF₂

Lat. 34° 43.5' N
Long. 140° 08.2' E

Akita

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						B	120	110	110	110	110	110	110	110	110	110	A	110	130 ^B					
3						A	120 ^H	110 ^H	100	110	110	110	110	110	A	A	A	A	A					
4						A	110	110	110	110 ^H	100	110	100	100	100	110	110	120	A					
5						A	110 ^B	110	120	110	A	A	A	100	100	110	110	110	120					
6						A	120 ^H	120 ^H	A	A	A	A	A	A	B	B	B	B	B					
7						160	110	110	110	110	A	A	A	A	A	A	A	120	120					
8						A	110	110	B	(110 ^A)	110	110	A	110	A	110	110	110	110					
9						110 ^H	110	110	110	A	A	A	110	A	C	C	C	C	A					
10						110	110	100	110	100	110	110	A	A	A	A	A	A	B					
11						110	110	110	110	B	A	B	110	110	110	110	B	110	120					
12						170	120 ^H	110	120	110	110	110	B	B	B	110	110	110	120					
13						BH	110 ^H	A	110 ^A	100	110	110	A	A	A	A	A	110 ^A	A					
14						A	130	110	110	110	110	110	B	110	110	100	100	110	A					
15						A	A	A	110	110	110	110	110	110	110	110	110	110	110					
16						110 ^H	120 ^H	110 ^H	A	B	A	B	B	B	B	B	110	A	120	130				
17						150	110	110 ^H	110	110	110	100	110	S	A	120	A	A	A					
18						120 ^H	110	110	110	110	110	110	110	B	110	110	110	110	120					
19						100	140	100	A	110	110	110	110	110	B	B	A	A	A					
20						A	110 ^H	A	A	110	110	A	110	110	110	110	110	110	110 ^A					
21						130 ^H	100	110	A	A	B	B	B	B	A	110	B	A	A					
22						A	110	110	C	C	C	C	C	C	C	C	C	C	A					
23						A	110	110	110	B	(110 ^B)	B	B	B	B	A	110	110	110					
24						AF	A	110	110	110	B	B	B	B	B	B	110	A	110					
25						120	130	120	100	A	A	A	A	A	A	110 ^A	110	110	110 ^A					
26						(120 ^B)	120	120	100	B	B	110	B	B	B	110	110	110	110					
27						110	110	110	110	110	(110 ^B)	(110 ^B)	110	110	A	A	A	110	110					
28						A	100	110	B	120	A	100	110	(120 ^A)	A	A	120	A	A					
29						A	A	A	A	A	A	A	A	A	110	110	A	A	A					
30						A	C	C	C	C	C	C	A	A	110	110	110	110	A					
31						A	120	A	120	A	A	B	A	110	A	A	A	A	110					
						140	110 ^H	110	A	A	A	(110 ^B)	B	B	B	A	110	A	110					
Mean Value						120	110	110	110	110	110	110	110	110	110	110	110	110	110					
Count						16	27	25	20	18	15	16	13	14	13	18	15	20	16					

Sweep 1.5 Mc to 1.26 Mc in 1.5 min Manual

IONOSPHERIC DATA

May. 1950

fEs

135° E Mean Time

Akita

Lat. 39° 43.5' N
Long. 140° 08.2' E

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	G	G	G	B	G	2.5	G	G	4.2	4.0 ^Y	G	5.2 ^Y	4.8	G	(5.3)	G	5.0	5.2	3.0	3.4	7.0	4.0	6.4	7.8
2	4.2	6.2	6.0	4.7	3.8	4.4	G	G	5.3 ^Y	G	5.5	6.2	5.8	7.4	5.7	5.4	*5.4	4.8	3.6	3.7 ^F	5.5 ^Y	3.3 ^B	4.2 ^F	4.6
3	4.0	5.0	5.9	3.4	3.2 ^B	3.3	G	G	G	G	G	5.9	5.7	G	G	G	G	G	3.0	3.7	5.0	3.4	3.0	5.5
4	5.6	3.0	3.0	3.7	3.0	G	3.0 ^Y	G	4.4	4.4	6.9 ^Y	4.8	G	G	G	G	G	G	2.8	2.2	4.7	3.0 ^B	5.9	
5	3.6	3.0	2.8	1.8	1.8	G	G	G	5.6	5.4	7.2	6.4	8.8	5.6	4.6 ^B	B	B	B	3.8	3.4	4.4	3.2	2.4	
6	2.4	G	2.2 ^Y	2.8	2.8	G	3.8	4.5	G	G	4.0	4.3	6.0	6.8	4.6 ^B	5.2	G	G	G	C	3.3	3.4	2.9 ^B	4.7
7	2.7	3.2	3.0	2.8	2.8	3.0	G	G	B	4.2	5.6 ^Y	10.3 ^Y	7.2	5.3	G	G	G	G	3.8	5.8	8.4	2.5	4.2	4.4 ^B
8	3.0	3.0	2.6	2.5	3.2	G	G	4.7 ^Y	G	8.4	5.6	4.3	G	5.4	C	C	C	C	5.6 ^B	3.6	3.0	2.5	4.6	4.4 ^B
9	3.0	3.0	2.6	2.5	3.0	3.2	G	B	4.4	B	B	G	5.8	6.2	8.0 ^B	B	G	6.0	4.4	2.6 ^B	3.4	2.4	2.8	4.4 ^B
10	G	2.1	G	G	G	G	G	G	G	B	5.8	B	B	B	B	B	B	B	G	3.0	2.8	(2.0)	3.5	2.0
11	G	2.4	2.2	G	G	G	3.7	4.6	G	G	B	B	B	B	5.3 ^Y	G	4.6	4.8 ^Y	G	(3.4)	3.2 ^B	2.6	3.0	2.8
12	2.6	G	G	G	G	G	G	G	4.3 ^Y	G	4.8	5.9	4.5	4.3	6.6	6.8	5.6	4.8 ^Y	4.8 ^Y	8.0	2.8 ^B	G	3.0	2.1
13	2.7	2.8	3.6	4.6	3.8	3.6	3.7	G	G	G	G	B	B	B	G	G	G	G	3.5	G	4.6	4.0	3.4 ^B	2.2
14	1.8	G	3.0	3.0	2.8	3.2	3.2	4.3	7.3	6.0	5.0	6.1 ^Y	B	G	G	G	G	G	4.2	3.6	5.0	6.6	7.3	9.2
15	6.6	2.6	3.0 ^B	4.2	3.6	G	G	G	4.0	7.5	8.0	8.0	7.0	B	B	B	6.4	G	G	6.8 ^B	4.4	2.8	4.2	4.4 ^B
16	2.6 ^Y	G	5.0	2.2	2.4	3.7	G	5.0 ^Y	4.8 ^Y	5.0 ^Y	5.0 ^Y	B	G	S	4.6	G	3.6	4.8	3.7 ^B	4.4	3.6	3.8 ^B	6.6 ^B	6.8 ^Y
17	3.8	2.6	2.2	2.4	2.0	G	3.7	4.8 ^Y	6.6	G	B	B	B	B	B	G	5.2 ^Y	4.0	3.0	3.2	3.4	4.8	5.3 ^B	4.4
18	8.0 ^Y	3.6	3.1	3.5	3.8	G	4.0	4.5	5.4	4.6	4.4	4.7	B	B	5.8	5.1	5.0	7.6	4.6	4.2	3.8 ^B	4.4	G	2.2
19	3.2	3.6	2.2	5.2	G	3.1	G	3.6	3.8	G	G	6.8 ^Y	4.6 ^Y	4.8	5.3	4.4 ^Y	5.0	G	4.6	3.6	4.0	3.6	3.0	4.2
20	3.0	3.8 ^B	3.1 ^B	2.4	G	G	3.8	G	4.2	6.6 ^Y	B	B	4.3	B	4.4	(4.8)	7.2	14.0	13.9 ^B	12.5	9.4	11.6	9.2 ^F	5.8 ^F
21	3.4 ^B	3.7	4.7	5.8	3.8	4.5 ^Y	G	G	C	C	C	C	C	C	C	C	C	4.7	5.5	4.8	4.4	8.0	8.0	7.4
22	6.4 ^F	7.4	7.4	8.8	9.4	4.6	3.8	4.0	5.8	5.9	9.0 ^Y	6.4	(11.0) ^B	9.6	9.2	G	6.2	6.6	5.0	(5.5) ^B	8.9	3.2	3.2	4.6
23	3.4	4.2	5.6	3.2	2.8	3.1	3.8	4.4	6.0 ^Y	7.6	7.4	9.4	13.0 ^B	11.2 ^B	8.4 ^B	4.2	4.4	G	3.8	6.0	4.5	5.3	3.5	2.2
24	G	G	G	G	2.2	G	G	4.7	5.8	8.2	6.4	7.3	15.0 ^B	8.8	9.4	6.0	9.4	5.2	G	G	4.5	7.0	6.6	4.1
25	2.4	6.0	3.4	3.2 ^Y	G	G	G	4.2	5.5	6.0	B	B	B	B	B	B	4.9 ^Y	5.9	5.8	5.2	6.2	3.2	4.2	4.8
26	4.0	3.2 ^B	3.2	3.0	3.4	3.4 ^Y	G	G	8.4	6.6 ^Y	B	B	B	(5.8) ^Y	9.4	9.3	5.2	G	3.6	6.0	6.6	5.0	4.6	5.8
27	4.0	3.6	5.0	4.4	3.8	4.0	5.4	5.2	4.4	4.8 ^Y	10.8	B	G	6.0	4.8	4.8	4.6	5.7 ^Y	4.4	4.6	(3.7) ^B	5.1	5.6	5.8
28	2.6	4.6	4.0	4.4	4.2	5.3	4.1	6.2	5.2	4.4	13.4	12.1	6.0	6.8	5.8	6.2	7.5 ^F	9.2 ^F	9.6	9.2 ^Y	12.6 ^B	8.0	4.4 ^B	12.4 ^F
29	4.6	10.2	10.8 ^F	10.2	4.8	6.4 ^F	C	C	C	C	C	6.4	7.0	G	B	G	G	G	3.5	4.4	6.0	5.4	6.4	4.0
30	4.0	7.0	6.2	4.2	3.8	2.8	3.7	4.6 ^B	5.6	6.7	6.0	7.6	5.7	7.0 ^Y	6.7	4.4	6.8 ^F	4.4	3.5	5.8	5.0	5.2	2.6	4.0
31	3.0	4.0	3.5 ^B	3.8 ^B	2.2	G	G	G	4.0	5.0	6.9	B	B	B	B	4.4	6.0	4.6	6.6	5.0	3.4	5.0	5.4	6.6
Median Value	3.0	3.0	3.1	3.2	2.8	2.8	G	3.6	4.4	5.0	5.6	6.3	5.8	5.6	5.3	4.4	5.0	4.4	3.6	4.3	4.4	4.4	4.2	4.4
Count	31	31	31	30	31	31	30	29	28	27	23	20	22	21	23	26	27	29	30	30	31	31	31	31

Swamp. I.D.M.C. to I.D.M.C. in 1.5 min

Manual

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May. 1950

(M3000)F2

Lat. 34° 43.5' N.
Long. 140° 08.2' E

Akita

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	2.7	2.6	2.4	2.5	2.6	2.8	3.1	2.9	2.8 ^H	3.0	2.8	2.9	2.7	2.7 ^H	2.7	2.8	2.9	2.9	2.9	3.0	2.8	2.8	2.8	2.7
2	2.5	2.6 ^F	2.6 ^F	2.5 ^F	2.8 ^F	2.8	2.9	3.0	3.1	2.9	2.8	2.8 ^P	2.8	2.8	2.8	T	2.9	2.9	3.0	2.9	2.7	2.6	2.7	2.6 ^F
3	2.5	2.6	S	2.6	2.4	3.2 ^F	3.0 ^F	3.1	2.8	2.7	2.5	2.7	2.8	2.8	2.6	2.8	2.7	2.8	2.9	2.6	2.5	2.7	2.9	2.8
4	2.7	2.6	2.6	2.5	2.7	3.0	2.8 ^Z	3.0	3.0	2.6	2.6	2.8	3.0	2.8	2.8	2.8	2.8	2.8	3.0	2.9	2.8	2.8	2.8	(2.7)
5	2.8	2.7	2.7	2.5	2.5	2.9	2.8 ^H	2.9	2.8	A ^K	2.8	2.6 ^H	2.7 ^K	2.8 ^B	3.0 ^K	2.8	2.9	2.9	2.8	2.8	2.7	2.7	(2.6)	2.6
6	2.7	2.7	2.6	2.6	2.4	2.7	2.8	2.9	2.9	2.9	2.9	2.8	2.7	2.8	2.9 ^H	2.8	2.9	(2.8)	2.8	(2.8)	2.6	2.6	2.6	2.6
7	2.6	2.6	2.5	2.6	2.5 ^F	2.4 ^F	2.9	2.9	2.8	2.9	2.8	2.8	2.7	2.7	C	C	C	(2.9)	2.9	3.1	S	S	(2.9)	(2.7)
8	2.5 ^F	2.6 ^F	2.7	2.7	2.8	3.0	2.9	2.9	3.0	3.0	2.8	2.7	2.7	C	C	C	C	C	2.8 ^H	2.8	2.8	2.7	2.7	2.4
9	2.7	2.8	2.7	2.6	2.7	3.1 ^F	3.0	3.0	2.9	2.8	2.9	2.7	2.8	2.7 ^H	2.8	2.8	2.9	2.9	2.8	3.1	2.7 ^H	2.6 ^H	2.7	2.6
10	2.7	2.6	2.8	2.7	2.7	2.9	3.0	3.0	3.0	3.1	2.7	2.7	2.8	2.8	2.8	3.0	2.9	2.9	2.8	2.9	2.7	2.6	2.7	2.7
11	2.7	2.6	2.6	2.6	2.6	2.8	3.0	3.0	3.0	2.8	2.9	2.8	2.8	2.8	2.8	3.0	3.0	3.0	3.1	3.0	2.7 ^H	2.6	2.6	2.6
12	2.7	2.7	2.7	2.6	2.7	2.9	2.8	3.0	2.9	2.8	2.8	2.8	2.8	2.8	2.8	3.0	3.0	2.8	2.7	2.7	2.7	2.6	2.6	2.7
13	2.7	2.9	3.0	2.7	2.6	2.8	2.9	3.1	2.8	2.8	2.7	2.9 ^F	2.6	2.9 ^F	2.8	2.9	2.8	2.8	3.0	3.1	2.8 ^H	2.7 ^H	2.7	2.9
14	2.8	2.6	2.7	2.6	2.8	2.4	3.3 ^V	3.0	2.8	2.8	2.8	2.6	2.5	2.8	{3.0}	3.1	2.9	2.9	2.9	2.8	2.8	2.6 ^F	A	A
15	SA	2.6 ^V	3.1 ^F	2.8	2.8	3.0	2.8 ^H	2.9	3.1	2.9	2.8 ^H	2.8	3.0	2.8	(3.0)	3.1	2.9	2.9	2.9	2.8	2.5	2.5	2.6	2.6
16	2.8	2.7	2.8	2.8	2.7	2.9	3.2	3.0	2.9	3.1	2.8	2.8	3.1	2.8	2.9	2.7	2.8	3.0	2.9	3.1	2.8	2.7	2.8	2.8
17	2.7	2.9	2.7	2.6	2.7	2.8	3.0	2.9	3.0	3.0	2.8	2.8	2.9	3.1	2.9	3.0	3.0	2.8	3.0	2.8	2.9	2.7	2.7	2.7
18	SF	(2.7)	2.8 ^F	2.6	2.7	3.0	2.8	2.9	2.9	2.8 ^K	2.8	2.8 ^K	2.9	3.1	2.9	3.0	3.0	2.9	2.8	3.0	2.7	2.6	2.7	2.7
19	2.7	2.8	2.8	2.7	2.6 ^H	2.9	3.1	3.0	3.0 ^F	2.9 ^B	2.7	2.8	2.7	2.8	2.8	3.0	2.9	3.1	3.0	3.0	2.7	2.6	2.7	2.8
20	2.7	2.8	2.9 ^H	2.6	2.7	2.7	2.9	3.1	3.2 ^V	B	B	B	3.4	2.8	3.0	3.0	2.9	A	A	A	2.8	A	AF	B
21	2.6	2.7	2.7	2.6	2.6 ^F	2.7	2.8	2.8	C	C	C	C	C	C	C	C	C	C	2.9	2.9	3.0	2.8	2.6	2.6 ^F
22	2.6 ^F	2.6 ^F	2.7	A	(2.8)	2.6 ^F	3.1	2.9	2.9	2.7 ^K	A ^K	2.7 ^K	A ^K	A ^K	2.9	3.0	2.9	2.9	2.9	2.8	2.5	2.6	2.6 ^F	2.4 ^F
23	2.6 ^H	2.4 ^F	2.6 ^F	2.6	2.4 ^F	2.8 ^F	2.8	2.8	2.9	2.7	2.7	2.7	2.8	2.8	2.9	2.8	2.9	2.7	2.8	2.8	2.5	2.6	2.6 ^F	2.4 ^F
24	2.5	2.7	2.7	2.6	2.5	2.9	3.3 ^K	3.4 ^K	3.1 ^K	A ^K	A ^K	2.7 ^K	A ^K	A ^K	A	3.0	A	2.6 ^H	2.8	2.7	2.8	2.6	2.6	2.6 ^F
25	2.7	2.7 ^F	2.8	2.9	3.0	2.8	3.0	3.0	3.0	3.0	3.0	2.8	2.9	2.8	2.7	2.9	2.9	2.8	2.8	2.7	2.8	2.7	2.7	2.7
26	2.7	2.6 ^F	2.7 ^F	2.6	2.7	2.9	3.1	2.9	A ^K	2.8 ^K	2.6	2.9	2.9	3.0	A	2.8	2.8	2.9	2.8	3.1	2.9	2.5 ^F	2.6	(2.8)
27	(2.8)	2.9 ^F	(2.7)	2.7 ^F	2.7 ^F	3.1 ^F	3.2 ^F	3.2	2.8 ^H	2.7	2.8	2.5 ^H	2.9	2.6	2.6	2.8	2.9	2.9	2.9	(3.0)	2.7	2.7	2.6	2.6
28	2.5 ^H	(3.0)	2.8 ^H	2.5 ^F	2.6 ^F	3.0	3.1	2.9	3.1	A	A	A	2.6	2.4	2.6	2.7	2.8	2.6	A	2.7	A	A	2.6	A
29	(2.6)	2.7 ^F	AF	(2.5)	2.6 ^F	2.7	C	C	C	C	2.9 ^B	2.9	2.9	2.9	2.5	2.9 ^H	3.0	3.0	3.0	2.9 ^H	2.8	(2.8)	2.6	2.6
30	2.7	2.6	2.9	2.7	2.9	3.1	3.1	3.0	3.0	2.8	2.7	2.8	2.8	2.9	2.7	2.8	3.0	2.8	2.9	3.2	2.7	2.8	2.7	2.6
31	2.7	2.6	2.6	2.8	2.7	2.9	3.1	3.0	(3.0)	2.9 ^K	2.8 ^K	2.8 ^K	3.0	2.8	2.7	2.8	3.0	2.8	3.1	3.2	2.7	2.8	2.6	2.7
Median Value	2.7	2.7	2.7	2.6	2.7	2.9	3.0	3.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.9	2.9	2.9	2.9	2.9	2.7	2.7	2.7	2.6
Count	29	31	28	29	30	31	30	30	28	26	24	28	28	27	27	28	28	29	29	30	29	27	29	28

Sweep 0.5 Mc to 1.5 Mc in 1.5 min

Manual

IONOSPHERIC DATA

Lat. 39° 43.5'N
Long. 140° 08.2'E

f_{min}F

Akita

135° E Mean Time

May. 1950

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	1.6	1.6	1.4	2.2	1.5	1.7	2.5	3.5	3.8	3.8	4.0	4.4	4.4	4.6	4.5	4.0	4.0 ^A	2.3	1.8	A	A	A	A	A
2	A	A	A	A	1.6	2.0	2.9	3.4	4.0	3.9	4.6	A	A	A	4.2	3.9	A	A	A	1.6 ^F	A	A	A	1.6
3	A	A	A	A	1.2 ^A	2.2	2.7	3.5	4.0	4.0	4.1	A	A	3.8	3.8	4.4	4.2	3.2	A	A	A	A	A	1.6
4	A	2.0	1.3 ^A	1.4 ^A	1.4 ^A	2.2	2.6	3.4	3.5	3.8	A	A	4.1	4.1	4.2	3.9	3.4	2.8	2.3	2.0 ^A	1.4	A	A	A
5	A	(1.6 ^A)	1.6	1.6	1.4	1.9	2.8	3.8	A	A	A	A	A	6.4	4.2	4.0	7.1	7.0	3.8	A	A	A	C	1.7
6	1.8	1.6	1.4	1.2	1.2	2.1	2.8	3.4	3.9	4.1	4.2	4.3	A	A	A	4.0	3.6	3.0	2.4	(2.0 ^A)	1.7	A	1.3	1.4
7	1.4 ^A	1.4 ^A	1.4 ^A	1.4 ^A	1.4	A	2.8	3.4	4.0	4.2	A	A	A	A	A	3.9	3.8	3.5	3.0	2.2	1.6	A	1.5	1.6 ^A
8	1.2 ^A	1.2 ^A	1.2	1.2	A	1.9	2.6	3.6	3.8	A	A	5.4	4.6	A	C	C	C	C	A	A	1.8 ^A	A	A	1.5 ^A
9	A	A	1.8	1.8	1.8	2.1	3.0	4.0	4.2	4.5	6.3	5.4	A	A	A	A	3.7	A	A	A	A	A	A	E
10	E	1.2	1.2	1.3	1.3	2.4	2.9	3.6	N	4.4	4.8	5.6	6.6	5.4	5.0	4.0	5.0	3.2	2.2	1.6	1.6	1.5	(1.6 ^A)	1.4
11	1.2	1.1	1.4	1.4	1.2	2.1	2.9	3.7	4.3	4.0	5.4	5.8	5.0	5.0	5.2	4.7	4.0	A	1.8	A	1.8	1.6	A	1.7
12	1.6	1.2	1.1	E	E	2.0	2.8	3.5	3.8	4.0	4.7	A	4.8	4.4	A	A	A	3.1	A	A	A	A	1.8	1.5 ^A
13	1.8 ^A	1.5	1.5	A	(1.7 ^A)	2.0	2.8	2.3	3.6	4.2	4.6	4.8	5.6	4.2	4.0	3.9	3.4	2.8	A	1.8	1.8	A	A	1.4
14	1.4	1.2	E	E	1.2	2.0	A	A	4.6	A	4.7	A	5.0	4.0	3.9	3.4	3.3	2.9	2.4	A	A	A	A	1.4
15	A	A	1.6	1.8 ^A	2.0 ^A	2.1	2.7	3.6	4.0 ^A	A	A	A	A	6.6	8.6	5.6	A	3.2	2.6	A	A	1.7	A	A
16	1.6	1.2	A	1.4	1.4	2.1	2.7	3.7	5.6	5.5	5.9	6.5	4.2	5.4	6.7	4.0	A	A	A	A	1.8	A	A	A
17	A	1.4	1.4	1.4	1.4	2.2	3.2	A	A	4.2	5.6	(5.8 ^S)	5.6	5.0	4.8	4.4	A	3.2	2.1	1.9	A	1.9	A	1.8
18	A	A	1.7	A	A	2.1	3.4	3.3	A	4.4	4.6	5.2	5.8	5.2	A	5.4	A	A	A	A	A	A	A	1.4
19	A	A	1.8	A	1.3	2.5	3.2	3.6 ^A	3.8	4.2	4.4	6.2	6.2	5.6	4.6	4.3	3.7	3.4	2.5	1.6	A	1.8	1.2	1.2 ^A
20	A	A	1.4	A	1.4	2.2	3.0	3.3	5.4	A	B	B	5.8	6.1	A	5.0	A	A	A	A	A	A	A	1.2 ^A
21	A	1.6 ^A	A	A	2.0	2.4	2.9	3.5	C	C	C	C	C	C	C	C	C	C	A	A	A	A	A	1.6 ^A
22	AF	AF	AF	A	A	A	4.0	3.3	A	A	A	A	A	A	A	4.1	A	A	A	A	A	A	A	A
23	A	A	A	1.3 ^A	A	2.1 ^F	3.2	3.9	A	A	A	A	A	A	5.4	A	A	2.8	A	A	A	A	A	1.8
24	1.8	1.4	E	E	1.2	2.3	3.6	A	A	A	A	A	A	A	A	4.1	A	A	2.3	1.8	A	A	A	A
25	1.6	1.2 ^A	(1.2 ^A)	1.5	1.2	2.2	2.8	3.8	A	4.2	4.0	6.0	5.0	5.4	5.0	4.3	A	A	A	A	A	A	A	A
26	A	A	A	A	A	2.2	2.9	3.4	A	A	5.0	4.9	5.0	4.8	A	A	A	3.1	2.6	A	A	1.8	(1.6 ^A)	(1.6 ^A)
27	1.6	1.6	A	1.6	1.7	2.0	2.8	A	5.2	5.2	A	5.8	4.4	A	5.2	A	4.0	A	A	A	A	A	A	A
28	1.2	1.1	A	A	1.4	A	A	A	(4.0 ^A)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
29	A	AF	AF	1.6 ^F	A	C	C	C	C	C	C	C	A	4.5	5.2	4.2	3.6	3.8	A	A	A	1.6	A	A
30	A	A	A	A	1.9	2.2	2.7	A	A	A	A	A	A	4.4	A	3.6	A	A	2.5	A	A	A	A	1.8
31	A	A	A	A	1.8	2.0	2.8	3.3	A	A	A	5.6	5.4	4.8	5.3	5.0	A	2.9 ^A	A	A	A	A	A	A
Median Value	1.6	1.4	1.4	1.4	1.4	2.1	2.8	3.5	4.0	4.2	4.6	5.6	5.0	4.9	4.8	4.1	3.7	3.1	2.4	1.8	1.8	1.6	1.6	1.5
Count	14	18	19	19	25	27	28	24	18	7	16	15	17	20	19	23	14	17	14	9	7	8	10	14

Sweep 1.0 Mc to 1.5 Mc in 1.5 min Manual

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May. 1950

f_{min}E

Lat. 34° 43.5'N
Long. 140° 08.2' E

Akita

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	B	B	B	B	B	1.5	1.6	1.8	1.8	1.8	2.0	2.0	2.0	2.0	1.9	1.9	1.8	1.6	1.6	1.6	1.4	1.4	1.4	1.4	
2	1.4	1.4	1.2	1.3	1.1	1.5	1.8	1.9	1.8	1.8	1.8	2.4	2.2	1.8	2.0	2.2	1.8	1.8	1.8	1.5	1.5	1.5	1.6	1.5	
3	1.3	1.2	1.2	1.2	1.2	1.6	1.8	1.8	1.9	2.1	1.9	2.7	2.1	2.1	2.2	2.0	1.8	1.8	1.6	1.8	1.8	1.8	1.8	1.8	
4	1.2	2.0	1.3	1.2	1.2	2.3	1.7	1.6	1.6	1.7	1.8	1.8	2.4	2.1	1.9	1.8	1.8	1.8	1.7	1.6	1.9	1.6	1.4	1.4	
5	1.4	1.3	1.1	1.2	1.2	1.6	1.6	1.8	1.8	2.1	1.9	3.4	4.0	3.7	2.5	B	B	B	1.6	1.6	1.6	2.0	1.8	2.1	
6	2.0	B	1.4	1.8	E	1.5	1.6	1.8	1.9	1.9	2.1	1.8	3.9	2.2	2.2	2.0	2.0	2.0	1.8	1.6	1.4	1.4	1.7	1.4	
7	1.8	1.2	1.2	1.2	1.4	1.5	1.6	1.8	B	2.0	2.0	2.1	2.2	2.3	2.3	1.8	1.7	1.5	1.6	1.5	1.5	1.5	1.6	1.2	
8	1.2	1.2	E	1.6	1.2	1.6	1.6	1.6	1.7	2.0	2.6	2.8	2.6	2.5	C	C	C	C	1.6	1.4	1.3	1.2	1.4	1.2	
9	1.3	1.6	1.8	1.8	1.4	1.4	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	2.0	1.8	1.8	1.6	1.8	1.6	1.6	1.6	1.6	E	
10	E	2.0	E	E	B	1.6	1.8	1.8	1.6	2.8	B	2.7	B	2.7	2.7	B	B	1.8	1.8	1.6	1.5	1.8	1.6	1.7	
11	E	1.1	1.0	E	B	1.6	1.7	1.8	1.8	2.4	2.6	2.4	B	B	3.0	1.8	1.9	1.9	1.6	1.4	1.4	1.4	1.4	1.4	
12	1.5	E	E	E	E	1.4	1.7	1.7	1.8	1.8	2.2	2.2	B	2.6	2.2	2.2	1.8	1.7	1.5	1.5	1.3	1.3	1.2	1.2	
13	1.1	1.1	E	1.2	1.2	1.4	1.7	1.6	1.8	1.8	2.6	2.8	3.0	2.4	2.4	2.1	1.8	1.6	1.8	1.6	1.6	1.4	1.4	1.8	
14	1.4	E	E	E	1.2	1.4	1.6	1.7	1.8	2.4	2.1	2.1	2.1	1.9	1.8	1.8	1.8	1.6	1.5	1.4	1.5	1.6	1.4	1.8	
15	1.3	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	4.8	2.5	4.0	4.0	B	B	2.6	1.9	1.6	1.6	1.8	1.6	1.7	1.8	1.7	
16	1.2	E	1.4	1.8	1.4	1.6	1.6	1.6	2.0	2.0	2.4	2.5	2.0	S	3.0	2.6	2.0	1.8	1.8	1.8	1.8	1.6	1.6	1.2	
17	1.2	1.2	1.2	1.2	1.2	1.4	1.4	1.6	1.7	1.8	2.2	2.3	2.4	B	2.1	2.0	1.8	1.8	1.5	1.4	1.4	1.4	1.4	1.2	
18	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.9	2.4	1.8	2.2	2.0	2.2	2.3	4.8	4.6	4.4	2.2	1.4	1.4	1.4	1.3	B	1.9	
19	1.3	1.3	1.3	1.8	B	1.8	1.8	1.8	1.8	2.4	2.6	2.2	2.2	2.2	2.1	2.5	2.1	1.8	1.8	1.6	1.6	1.6	1.2	1.2	
20	1.5	E	E	E	B	1.5	1.6	1.8	1.8	3.4	B	B	3.8	B	2.0	1.8	4.0	1.8	1.5	1.4	1.5	1.5	1.5	1.2	
21	1.1	1.3	1.2	1.2	1.3	1.5	1.7	1.8	C	C	C	C	C	C	C	C	C	2.0	1.8	1.5	1.6	1.6	1.6	1.6	
22	1.4	1.4	1.4	1.4	1.8	1.6	1.6	1.6	2.6	4.2	2.8	3.6	3.9	4.0	2.9	2.6	1.8	1.8	1.7	1.7	1.6	1.4	1.4	1.4	
23	1.3	E	E	E	1.1	1.4	1.8	1.8	2.6	2.6	4.5	3.8	4.0	3.8	5.6	3.0	2.8	2.0	1.8	1.8	1.8	1.8	1.8	1.8	
24	B	B	E	E	1.8	1.2	1.8	1.7	1.8	2.1	2.4	2.4	2.6	2.6	1.8	1.8	1.8	1.8	1.7	1.6	1.6	1.6	1.5	1.6	
25	1.2	1.2	1.2	1.3	B	1.8	1.8	1.8	3.7	B	B	B	B	B	B	1.8	2.4	1.6	1.6	1.7	1.6	1.6	1.6	1.6	
26	1.8	E	E	E	E	1.2	1.8	1.8	1.8	2.2	1.8	(2.0)	(2.5)	1.8	1.8	1.8	2.4	1.8	1.8	1.6	1.6	1.6	1.6	1.6	
27	1.8	1.2	1.2	1.2	1.2	1.4	1.5	1.6	4.0	3.2	2.7	2.6	2.6	2.4	2.4	2.4	2.0	1.8	1.6	1.6	1.6	1.6	1.6	1.4	
28	1.2	E	E	1.1	E	1.4	1.6	1.5	2.0	2.0	2.4	2.8	2.7	2.6	2.2	2.0	1.8	1.6	1.3	1.2	1.2	1.2	1.8	1.5	
29	1.2	E	E	1.2	1.2	1.5	C	C	C	C	C	1.9	1.8	2.5	2.7	2.6	1.8	1.8	1.8	1.9	1.6	1.6	1.8	1.8	
30	1.4	1.4	1.4	1.4	1.4	1.5	1.6	1.6	1.8	1.6	3.4	4.6	1.9	1.8	1.7	1.9	1.8	1.7	1.7	1.2	1.2	1.2	1.2	1.2	
31	1.2	1.6	1.4	1.5	2.0	1.7	1.6	1.7	1.8	1.8	1.8	(2.6)	B	B	B	3.6	2.0	1.6	1.5	1.5	1.4	1.5	1.5	1.4	
Median Value	1.3	1.2	1.2	1.2	1.2	1.5	1.7	1.8	1.8	2.0	2.2	2.4	2.4	2.3	2.2	2.0	1.8	1.8	1.6	1.6	1.6	1.6	1.6	1.6	1.4
Count	2.9	2.8	3.0	2.9	2.6	3.1	3.0	3.0	2.8	2.8	2.7	2.8	2.7	2.3	2.6	2.7	2.7	2.9	3.0	3.1	3.1	3.0	3.0	3.1	

Mean
Freq. 1.0 Mc to 1.5 Mc in 1.5 min

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

Lat. 35° 42.4' N
Long. 139° 39.3E

Kokubunji Tokyo

f_oF₂

May. 1950

Day	135° E Mean Time											135° E Mean Time													
	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	7.4	(8.4)B	7.3	7.2	6.4	6.3	(9.2)B	10.4	10.5	11.8	11.7	11.9	11.6	11.1	10.5	9.8	9.7	9.3	B	B	B	(9.4)F	B	B	
2	(8.6)F	(8.6)F	8.5	7.5	7.0	8.7	8.1	8.5	8.8	8.8	9.5	10.3	10.9	10.6	11.8	12.0	11.1	10.6	10.8	9.4	8.2	8.3	7.3	8.2	
3	8.0	7.4	7.2	6.5	6.6	(8.1)F	7.1	7.1	8.2	H	(9.1)B	8.9	10.4	11.7	11.9	11.0	11.5	11.6	11.1	9.7	8.9	(8.4)B	8.0	7.5	
4	7.1	8.3	6.9	7.0	7.0	8.4	C	C	C	C	C	12.1	12.3	12.5	11.6	11.2	11.2	(11.4)S	11.5	(11.0)S	(9.0)P	(7.6)F	(8.0)S		
5	7.8	7.6	7.4	6.7	6.7	8.1	8.4	8.0	8.8	9.0	9.5	10.3	11.7	10.5	10.6	9.6	9.8	9.5	B	B	(7.7)F	(7.4)B	7.1		
6	(7.6)B	7.3	7.3	6.8	6.8	7.7	8.4	8.5	10.0	9.8	9.4	10.2	10.7	10.8	10.6	11.0	10.6	10.6	10.1	9.7	8.3	7.6	7.0	6.9	
7	6.6	6.5	6.9	7.2	6.5	6.8	7.8	9.5	10.1	H	9.8	9.7	10.5	11.1	11.7	11.7	10.8	10.3	10.6	9.6	7.6	7.6	7.8	7.7	
8	7.8	8.4	8.9	8.0	7.6	8.3	9.5	9.2	9.8	9.5	10.6	11.5	11.6	11.7	11.4	10.9	11.2	11.1	10.4	9.8	9.3	9.2	8.9	8.7	
9	8.6	9.0	8.4	(8.4)S	8.2	8.9	8.8	8.8	9.2	10.2	10.6	10.9	10.1	11.5	12.5	12.0	12.0	11.7	11.7	10.0	(7.8)S	(7.7)F	7.5	S	
10	S	(8.0)S	(9.1)P	(8.5)F	C	9.3	9.6	10.6	9.9	8.7	9.7	10.9	11.5	12.1	12.4	12.6	11.6	10.8	10.4	9.4	(8.8)S	(7.2)B	9.4	8.9	
11	(8.8)B	8.2	7.6	7.3	7.1	(8.2)S	8.9	9.8	9.6	9.3	10.7	11.4	12.5	12.2	12.2	12.2	(12.2)F	11.6	10.4	(9.5)S	S	S	S	S	
12	S	9.0	8.5	7.8	6.8	7.6	(8.6)F	9.6	10.2	10.1	10.7	11.2	11.8	11.7	11.9	11.8	11.3	10.6	10.0	(8.3)F	8.2	(7.4)F	9.0	9.1	
13	9.1	9.2	8.1	6.9	7.0	7.2	8.9	9.2	8.8	9.6	10.5	11.2	11.8	12.3	11.5	12.6	12.2	H	A	A	(9.0)P	8.3	8.1	9.0	
14	8.9	8.1	7.7	S	S	10.0	8.8	(8.7)F	8.6	(9.1)F	10.2	9.5	9.4	9.6	9.7	9.2	7.9	7.6	7.8	(8.4)S	7.5	S	A	A	
15	F	(7.5)S	6.2	6.2	6.2	6.0	7.8	8.9	8.7	8.4	9.4	10.5	10.7	9.6	10.1	10.8	(11.1)S	10.5	(8.2)S	(8.2)S	7.1	7.4	(7.0)S	6.5	
16	(6.2)B	(5.9)B	B	7.1	7.0	(7.5)B	9.3	7.8	7.9	8.2	(8.8)F	9.8	10.6	10.2	10.0	10.4	10.5	10.1	9.8	S	(8.5)F	B	B	8.8	
17	(8.4)F	(8.3)F	7.9	6.7	7.0	8.3	9.6	8.7	7.9	7.5	8.4	8.7	10.0	10.0	9.5	9.0	8.7	(8.7)B	(9.0)B	9.3	(9.3)F	7.6	7.8	(7.6)F	
18	7.5	7.4	7.1	6.6	6.6	7.4	7.8	8.8	8.3	8.0	H	9.2	10.2	A	11.5	10.8	10.9	9.1	8.9	9.0	8.5	7.7	7.6	7.4	
19	7.2	7.3	6.3	6.3	6.3	C	C	(9.2)H	7.8	7.4	8.1	9.1	10.1	(10.0)C	9.9	9.8	9.4	9.4	B	8.0	7.4	7.4	7.8	8.3	
20	8.1	8.3	7.3	7.0	6.8	7.4	8.7	9.5	9.1	H	(8.2)F	8.7	9.5	9.6	C	C	C	A	(10.1)B	A	8.7	8.3	8.1	A	
21	C	C	F	(7.2)F	C	C	9.7	9.0	9.6	9.0	9.5	10.2	10.2	10.2	9.4	9.2	9.6	9.2	9.0	(9.1)F	(8.2)S	7.8	(8.0)S	8.2	
22	F	A	S	(7.0)F	6.5	7.3	(8.2)P	(8.4)P	7.8	6.9	K	A	C	K	8.6	(10.2)F	9.6	7.6	7.3	7.1	(7.2)B	7.3	7.5	7.3	
23	7.2	7.5	7.1	6.9	5.5	7.0	9.0	9.1	8.7	7.6	A	9.2	9.6	9.8	8.9	8.2	7.9	7.6	7.7	8.5	8.2	8.1	8.2	7.8	
24	7.4	7.6	7.0	6.3	S	S	4.7	K	7.2	K	7.6	K	9.1	9.0	8.8	B	7.9	7.1	7.6	(8.2)F	8.2	7.9	A	A	
25	7.4	7.2	6.1	6.6	6.4	6.6	7.8	7.9	8.2	8.0	8.1	9.0	9.4	9.7	10.7	11.3	10.5	(9.8)F	8.8	9.2	(8.9)F	(9.0)P	(8.6)F	(7.9)F	
26	(8.8)F	8.8	7.7	7.3	7.2	7.5	7.8	6.8	7.1	7.4	7.9	9.3	9.7	9.9	11.4	11.4	11.6	10.3	9.4	8.8	7.6	7.5	6.8	7.7	8.6
27	8.2	8.0	7.8	7.8	7.8	8.1	10.3	9.6	7.2	8.0	9.3	10.1	10.2	10.9	11.4	11.4	11.6	11.7	10.5	B	8.4	B	8.3	8.6	
28	7.4	6.7	(6.6)F	6.7	6.7	6.6	6.2	6.8	6.0	6.0	A	7.8	8.6	A	A	A	7.9	7.1	S	A	A	S	7.7	7.1	
29	A	8.1	7.5	7.3	7.0	8.0	8.9	7.5	6.3	6.9	7.9	8.7	8.1	(8.2)A	8.3	10.6	10.3	9.2	9.4	8.1	8.6	7.6	8.0	7.8	
30	7.6	7.0	6.8	6.2	6.8	6.7	6.7	7.2	7.4	7.0	7.9	9.2	9.8	10.1	10.5	11.2	11.7	10.9	(10.6)C	10.4	7.1	7.7	(8.2)F	(8.0)F	
31	7.9	7.3	6.9	6.4	6.4	7.2	8.7	8.0	7.5	7.3	8.0	9.0	8.7	9.0	A	A	A	S	(10.1)F	S	S	(8.0)S	(8.3)P	(8.2)B	
Median Value	7.8	8.0	7.4	7.0	6.8	7.6	8.7	8.8	8.6	8.4	9.4	10.0	10.2	10.6	10.6	10.9	10.5	10.0	9.8	8.9	8.2	7.7	7.7	8.0	8.0
Count	25	28	28	30	26	28	29	30	30	30	26	30	30	30	29	27	29	28	27	23	26	25	26	25	25

Mean Time in UT-15 min

Manual

K I

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May. 1950

$f_p F_2$

135° E Mean Time

Kokubunji Tokyo

Lat. 35° 42.4' N
Long. 139° 29.3E

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

Sample No. to I.R. Mc in 15 min

Manual

IONOSPHERIC DATA

MAY. 1950

f_oF₂

Lat. 35° 42.4' N
Long. 139° 26.38' E

Kokubunji Tokyo

135° E Mean Time

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

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

Lat. 35° 42.4' N
Long. 139° 29.8E

May. 1950

f_oF1

Kokubunji Tokyo

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	Q	Q	L	L	L	A	L	L	L	Q	Q	Q					
2						L	Q	L	Q	Q	L	L	L	L	L	L	L	Q	Q	Q				
3						Q	Q	Q	Q	Q	L	L	54	L	L	L	L	L	L	L				
4						Q	Q	C	C	C	L	L	L	L	L	L	L	L	L	L				
5						Q	Q	Q	Q	Q	(6.5)L	L	L	L	L	L	L	L	L	L				
6						Q	L	Q	L	L	Q	L	L	L	L	L	L	Q	Q	Q				
7						Q	Q	L	Q	5.1	L	L	L	L	L	L	L	L	L	L				
8						Q	Q	Q	L	Q	L	L	L	L	L	5.0	L	L	L	L				
9						Q	Q	Q	L	Q	Q	Q	Q	L	L	L	A	L	L	L				
10						Q	Q	L	Q	Q	L	L	L	L	L	L	L	L	L	L				
11						Q	Q	L	Q	Q	L	L	L	L	L	L	L	L	L	L				
12						Q	Q	Q	Q	L	L	L	L	L	L	L	L	L	L	L				
13						Q	Q	Q	Q	L	L	L	L	L	L	L	L	L	L	L				
14						Q	Q	Q	Q	L	(5.3)F	L	54	52	L	L	L	L	L	L				
15						Q	Q	L	L	A	A	56	55	(5.1)L	L	L	L	L	L					
16						Q	A	Q	Q	B	Q	A	L	L	L	L	L	L	L	L				
17						A	L	L	L	A	L	L	L	L	L	L	L	L	L	L				
18						Q	Q	L	L	Q	5.5	A	A	A	A	A	A	Q	A	A				
19						C	C	L	L	L	(5.3)L	L	54	C	A	A	A	Q	Q					
20						Q	Q	Q	A	A	A	A	C	A	A	C	C	A	L					
21						C	Q	L	L	A	Q	A	A	L	L	L	L	L	L	L				
22						Q	Q	4.5	L	A	A	C	5.5	A	A	A	L	L	L	L				
23						A	Q	L	A	A	A	5.1	5.5	A	A	A	L	L	L	L				
24						Q	Q	Q	A	L	A	A	L	L	L	L	L	L	L	L				
25						Q	Q	Q	L	L	5.9	5.9	5.6	5.6	L	L	L	L	L	L				
26						Q	Q	Q	L	A	A	A	A	A	L	L	5.0	A	L	L				
27						Q	A	Q	A	A	L	A	B	5.1	(5.2)A	A	A	A	A					
28						Q	Q	L	L	A	A	5.3	5.1	A	A	A	A	A	A					
29						L	Q	L	A	L	5.7	A	A	A	A	A	A	A	Q					
30						Q	Q	A	L	L	5.5	L	5.4	Q	L	L	5.3	L	Q					
31						Q	Q	Q	Q	L	L	B	A	L	L	A	A	A	A					
Median Value						-	-	-	-	-	5.5	5.4	5.4	5.4	-	-	-	-	-					
Count						0	0	0	0	1	6	6	9	6	3	2	0	0	0					

See pp. 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. Manual

Radio Regulatory Agency (Denpacho)

Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

Lat. 35° 42.4' N
Long. 139° 29.3E

May. 1950

f_oF₁

135° E Mean Time

Kokubunji Tokyo

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	Q	Q	Z40	Z10	A	A	A	Z20 ^B	Z10	Q	Q	Q					
2					Z10	Q	Q	Z10	Q	Q	Z30	Z20	(Z60) ^A	Z60 ^A	(Z50) ^A	(Z50) ^A	Z30	Q	Q					
3					Q	Q	Q	Q	Q	Q	Z30	Z40	Z20	Z20	Z20	Z30	Z30 ^A	Q	Q					
4					Q	C	C	C	C	C	C	Z10	Z00	Z10	Z40 ^S	Z10	Z40	Z40	Q	Q				
5					Q	Q	Q	Q	Q	Q	Z50	Z40	A	A	A	A	Z30	Q	Q					
6					Q	Z40	Q	Z30	Z00	Q	Z10	Z20	Z10	Z10	Z10	Z10	Q	Q	Q					
7					Q	Q	Q	Z50	Q	Z10	Z10	A	190	190	Z00	Z20	Z10	Z20	Q					
8					Q	Q	Q	Q	Z10	Q	Z20	Z00	Z50 ^A	Z20 ^A	Z10	Z20	Z20	Q	Q					
9					Q	Q	Q	Q	Z30	Q	Q	Q	Q	Q	Z30	Z50	A	A	Z40 ^A	A				
10					Q	Q	Q	Z10	Q	Q	190	Z00	Z30	Z40	Q	Z10	Q	A	A					
11					Q	Q	Q	Z10	Q	Q	Z00	Z10 ^A	A	A	B	Z20	Z30	Q	Q					
12					Q	Q	Q	Q	Q	Z10	Z10	Z00	Z20	Z40 ^A	Z10	Z10	Z20	A	A	AF				
13					Q	Q	Q	Q	Q	Z20	Z10	Q	Z30 ^A	Z20	A	A	Q	A	A					
14					Q	Q	Q	Q	Q	Z40 ^A	Z40	Z20	Z20	Z40	Z10	Z20	Z40	Z40	Z40	Z30				
15					Q	Q	Q	Z20	Z60 ^A	A	A	A	Z40	Z10	Z20	A	A	A	Z50 ^B	Z30				
16					Q	A	Q	Q	Q	A	Q	A	Z20	Z40	Z20	Z20	Q	Q	Q					
17					A	Z20	Z30 ^A	Z30	A	A	Z20	B	B	Z30 ^B	A	Z20	A	Z30	A					
18					Q	Q	Q	Z20	Z70 ^A	Q	B	A	A	A	A	A	Q	A	A					
19					C	C	Z20	Z30	Z10	Z00	Z20	(Z30) ^A	C	A	A	A	A	A	Q	Q				
20					Q	Q	Q	Q	A	A	A	A	C	A	A	C	C	A	Z40 ^A					
21					C	Q	Q	Z30	Z20	A	Q	A	A	Z10	Z20	Z20	Z20	Z30	Q					
22					Q	Q	Q	A	(Z30) ^A	A	A	C	A	A	A	A	(Z40) ^B	A	Q					
23					A	Q	Q	Z50	A	A	A	B	Z40	A	Z50	Z40	Z30	Z20	Z80					
24					Q	Q	Q	A	Z20	A	A	A	A	A	Z10	Z30	A	Z50	Z50					
25					Q	Q	Q	Q	Z30	Z30	Z00	Z20	Z30	Z10	Z20	Z40	A	A	A					
26					Q	Q	Q	Q	A	A	A	A	A	A	A	A	A	A	Q					
27					Q	A	Q	A	A	A	A	(Z50) ^A	Z40 ^B	Z10	A	A	A	A	A					
28					Q	Q	Q	A	Z10	A	A	Z60	(Z50) ^A	A	A	A	A	A	Q					
29					Z50 ^A	Q	Z20	A	Z30	Z20	A	A	A	A	A	A	A	Q	Q					
30					Q	Q	A	A	A	A	Z10	A	A	Q	A	Z50	Z40	Q	C					
31					Q	Q	Q	Q	Z10	Z20 ^B	Z20 ^B	A	A	A	A	A	A	A	AF					
Median Value																								
Count																								

Sweep: 1.0 Mc to 2.0 Mc in 12 min Manual

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May. 1950

f_oE

Lat. 35°42.4'N
Long. 139°29.8'E

Kokubunji Tokyo

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						1.6A	A	A	(34)A	B	B	B	A	B	B	B	34	27	A					
2						Z0	Z5H	B	(34)B	4.0H	A	4.0A	A	A	A	A	29	A	A					
3						A	C	C	A	(38)A	B	(38)A	B	B	(35)B	A	A	A	Z3H					
4						A	C	C	C	(38)B	B	(38)B	B	4.0J	Z7S	Z7	Z2	B	A					
5						1.6F	Z.6	Z9	(35)F	A	A	B	A	A	A	A	A	A	A					
6						1.8	Z6	Z2	Z6	Z8A	Z9F	Z8F	B	B	A	1.1A	A	A	Z9	Z4				
7						1.4F	Z4	Z1	(34)B	A	Z7	A	B	B	B	Z5H	Z3	Z8	Z3H					
8						1.8	Z5	Z2F	Z3	Z4A	Z6J	A	A	A	B	A	A	A	A					
9						(1.6)A	Z7	Z2	(34)A	(35)B	A	A	A	A	A	A	Z6A	A	Z9	A				
10						(Z1)B	Z4	Z2	Z3	Z8	4.3	4.2	(39)B	B	Z8	(36)B	34	Z8H	A					
11						Z.2	Z4	A	Z4	(36)F	Z6F	B	B	B	B	B	(31)A	Z8	A					
12						(Z0)A	Z7	Z9	(32)A	Z5	B	B	B	(36)A	A	(36)B	3.2H	Z8	A					
13						1.5	Z4	Z0	A	A	A	(39)A	B	B	B	3.4	A	A	A					
14						(1.6)B	Z4	Z0B	Z5B	Z5B	A	A	B	B	B	B	B	Z2	Z7	A				
15						A	Z7	Z0	Z1	(36)B	B	Z7	3.6	A	B	A	3.0	(Z8)A	Z0					
16						A	A	Z9J	AF	Z6	B	4.0	3.8A	A	A	B	3.2	Z8H	Z2F					
17						A	A	A	A	A	A	A	B	B	B	Z5B	Z5	A	A					
18						Z.2	Z6	Z2H	Z4	(35)A	B	A	A	B	B	Z4J	A	A	A					
19						C	C	Z9J	Z6B	Z8J	A	B	B	C	A	A	Z1	A	A					
20						Z1B	(Z6)B	Z0	Z3B	Z7	B	B	C	(38)J	Z7	C	C	A	A					
21						C	Z4J	A	A	A	A	A	A	A	A	A	Z1J	Z9H	Z0					
22						Z.1	Z8	Z1	A	B	A	C	B	A	A	Z5	Z3H	A	Z0	A				
23						Z0A	A	A	A	A	A	B	A	A	A	Z7B	Z6	Z9J	Z7	A				
24						Z1J	Z7A	A	Z4	Z5	(37)A	B	A	A	A	Z7J	Z7	A	A					
25						Z.0	(Z6)F	Z2A	(35)F	Z5	A	A	A	A	A	Z8H	Z8	Z4	Z6	A				
26						A	A	A	B	B	A	A	A	A	A	A	A	A	Z9J	A				
27						A	Z5	Z0H	A	A	A	A	B	B	A	Z5	Z2	Z8	A					
28						A	A	A	(34)F	Z6	Z8	Z8B	B	Z5A	A	A	A	A	A					
29						Z.0	Z6	Z9	Z4	Z6B	Z6	Z8	A	A	A	A	A	(Z9)A	A					
30						Z.2	Z8	Z1A	A	B	A	B	A	A	A	(Z6)A	A	A	C					
31						Z.0	Z6	Z0	Z4	Z6	Z7	Z8	-	Z8	Z7	Z6	Z2	Z8	Z2					
Median Value						Z0	Z2	Z0	Z0	Z0	Z0	Z0	Z0	Z0	Z0	Z0	Z0	Z0	Z0					
Count						Z0	Z2	Z0	Z0	Z0	Z0	Z0	Z0	Z0	Z0	Z0	Z0	Z0	Z0					

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

Lat. 35° 42.4' N
Long. 139° 29.3E

Kokubunji Tokyo

135° E Mean Time

h' E

May. 1950

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						B 100	A 100	(100)B 100	A 100	B 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100						
2						100 110H 100	100 100H 100A 110	100A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
3						A 110H 100	C 100	C 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
4						A C	C 100	C 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
5						100 110 110	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
6						14-0 100 100	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
7						15-0 110 110	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
8						15-0 100 100	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
9						11-0 100 100	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
10						B 100 100	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
11						A 100 100	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
12						A 110 100	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
13						11-0 100 100	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
14						B 100 100	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
15						A 11-0 A	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
16						A A	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
17						A A	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
18						12-0 11-0 100H	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
19						C 100 100	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
20						B 100 100	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
21						C 100 A	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
22						A 100 100	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
23						A A	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
24						A 100A A	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
25						10-0 100 A	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
26						10-0 100 100	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
27						14-0 A A	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
28						A 11-0 110H	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
29						A A	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
30						10-0B 100 100	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
31						A 10-0 100	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
Median Value						110 100 100	100 100	100 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100	A 100					
Count						12 24 24	24 24	24 24	24 24	24 24	24 24	24 24	24 24	24 24	24 24	24 24	24 24	24 24	24 24	24 24					

Manual

Sweep: 10 Mc to 15 Mc in 15 min

K 7

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May. 1950

fEs

136° E Mean Time

Kokubunji Tokyo

Lat. 35° 42.4' N
Long. 139° 29.3E

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	5Z	2.2Y	B	2.0	G	G	3.5Y	4.0	4.6	5.6	4.8	5.4	7.6	5.0Y	B	4.2Y	4.2	4.5	3.6	4.0	(3.3)Y	7.4	6.4	5.2	
2	8.6	5.5	3.2	5.3	3.6	G	G	G	B	G	5.2	4.7	5.2	6.4	5.0	6.3F	4.7	3.6	3.0	3.4F	3.7	3.6	4.2	2.6F	
3	3.4	4.2	(4.4)F	3.5	4.7	2.7	G	G	6.4Y	5.0	4.8	4.5	B	4.5Y	G	4.5	4.1	3.2	G	3.0	3.0	4.3	4.0	2.8	
4	3.0B	2.0	2.3	2.3	2.1	C	C	C	C	C	C	G	B	B	G	G	G	G	G	2.8	3.6	3.8	2.0	3.5	
5	2.8	2.6	2.8	2.5	2.0	G	G	G	5.0	4.8	5.8B	4.8	6.2	5.8	6.6	6.5	3.6	3.0	3.0	3.4B	5.0	3.0	4.1	5.0	
6	(4.8)B	3.0	2.6	2.5	(2.8)Y	2.8	3.4	G	5.1	G	B	B	G	B	4.1	4.4	3.5	G	G	2.8	3.4	2.8	4.4	2.8	
7	2.1F	2.4	3.0	2.0	2.6	G	G	G	4.6Y	4.6	4.8Y	5.8	B	B	G	G	G	G	G	2.8	4.2F	5.5	3.2	7.0	
8	3.7	3.0	4.0Y	3.3	4.7	(3.6)Y	G	G	G	G	G	6.2	6.0	5.0	4.6	4.4	3.5	4.0	4.2	5.2	7.0	2.5	2.2	2.3	
9	4.5	3.0	2.6	2.2	G	G	G	4.2Y	5.2Y	G	4.7	6.2	G	4.6	4.8	(9.5)B	6.0	4.4Y	6.4	5.4	5.0	2.6	2.2	B	
10	G	G	(2.0)Y	(2.0)Y	C	G	G	4.4Y	5.8	6.1	G	G	4.7	G	G	G	4.7	7.0	4.6	4.4Y	4.0	2.4	2.2	B	
11	(2.2)Y	(2.0)Y	2.6	2.4	2.6	G	G	G	4.6	5.6	4.4Y	5.4Y	6.2Y	5.8	4.8	4.2	G	4.4	2.9	4.4	6.4	4.4	2.4	2.5	
12	(3.4)F	3.6	(4.1)F	2.8	2.2	2.7	G	4.6	5.0	5.2	4.3	G	4.8	G	6.4	6.4	5.7	1.2Y	1.3B	1.2B	6.8	4.3	2.2	2.1	
13	2.8	2.1	3.1	3.1	2.8F	G	G	4.7	4.3	5.2	G	G	G	G	G	G	G	G	3.1	(5.1)Y	6.4	5.6	6.6	9.4	
14	2.3	4.5	(2.6)Y	2.6Y	2.4Y	2.8Y	(3.6)Y	(4.0)Y	5.2	5.0	5.2	G	G	G	G	G	G	G	8.4	7.0	4.0	3.4	3.2	3.6	
15	5.6	(5.4)Y	3.2	3.0	3.7Y	2.6	G	3.6	5.1	5.4	5.8Y	5.7	5.0	G	G	8.4	7.0	4.0	3.4	5.2	4.6	3.4	3.2	3.6	
16	5.0	3.4	3.5	2.6	2.0	2.0	2.8	G	4.6	(5.6)Y	4.6Y	6.7	G	6.5F	4.5	G	5.0	4.0	G	2.8	2.8	3.4	2.0	3.4	
17	3.2	2.8	2.2	1.5F	2.2	3.8	3.4	4.8	4.2	5.7	5.4	4.4	B	B	G	5.2Y	4.8	4.7	G	2.0	4.0	4.0	3.7	7.6Y	
18	4.7	3.4	7.8Y	7.0	3.3	G	G	4.4	4.7	5.3	4.9Y	7.8F	1.2B	(9.6)F	1.24F	11.8B	9.8F	(10.0)B	(8.8)B	4.7	3.8	5.3	5.7	4.2	
19	3.8	5.0B	4.8	2.6	3.0	C	C	G	G	4.7	5.1Y	G	4.6B	C	5.4	7.2	6.2	5.2	4.0	4.6	3.5	4.6	4.5	3.5	
20	4.5Y	3.6	2.0	2.8	2.8F	B	3.8	4.6	5.1	7.1	6.0	5.7	C	6.4	6.6Y	C	1.5Z	2.3Y	8.4	9.2	4.0	5.0	6.4		
21	C	C	5.0	3.5	3.0	C	3.3Y	4.2	5.0	8.4	9.2	8.8	10.0	5.2	4.8	4.2	G	G	10.0F	6.3	7.5	3.5	(3.7)Y	5.7	
22	6.4	6.5	2.4	3.8	5.1	3.5Y	G	5.1	6.0	6.6	10.4F	C	6.5Y	9.4	10.4F	6.5	G	G	10.0F	6.3	7.5	5.0Y	7.5	7.0	
23	7.2	4.8	3.4F	5.5F	7.5F	(9.5)F	4.8	4.3	9.3	(10.2)B	10.4F	5.3Y	5.9	6.5	5.0Y	4.6	G	G	G	3.5	3.5	4.7	9.5	7.3	
24	7.9F	2.4	2.4	3.0	2.8	3.0	3.4	6.8	7.4Y	6.5	1.46	9.8Y	10.4F	9.8	4.3Y	5.0	7.0	4.2	4.2	3.5	3.2	6.2	7.6	8.5	
25	5.0	2.0	2.4B	3.6Y	3.5	G	G	4.4Y	4.4	G	G	4.7	5.1	4.7	4.7	4.9Y	5.8	8.4	6.6	8.2	3.2F	5.2	4.4	3.6	
26	4.0F	3.0	2.4	2.2	2.4	G	G	G	5.4	6.2	7.6	6.2	7.9	7.6	5.6	11.2	9.4	5.6	3.6	4.4	6.0	7.0	8.5	9.2	
27	9.1	7.6	2.5	2.0	2.0	G	4.0	5.0	6.5	7.1	7.4	7.4	B	4.2	5.9	7.5B	7.5	6.0	4.7	7.2	4.5	4.2	5.2	7.2	
28	7.0	4.8	4.7	4.8	3.5	3.4	G	5.5	4.4	5.5	8.0	5.7	10.9	1.4Z	11.8	10.8Y	(8.6)F	10.2	7.0	7.6	6.4	4.2	4.2	8.2	
29	9.0	7.7	7.0	5.3	3.8	3.6	5.2	6.3	6.1	G	G	7.8	7.1	1.35B	5.6	8.3F	6.0	6.3	7.0	7.5	5.5	7.0	5.0	4.5	
30	4.5	3.2	2.8	2.6	2.2Y	G	3.8Y	5.4Y	5.3	5.6	5.2	7.3	5.2	7.3	4.7	4.2	4.5	5.4	C	4.2	5.8	8.9Y	6.4Y	4.5	
31	3.5	3.5B	3.2	2.8	2.2	3.2	3.4Y	G	4.8	5.1Y	4.2Y	4.2Y	5.4	5.8	11.0	12.1	1.40	10.0	7.0	5.8	3.8	5.2	5.0	3.6	
Median Value	4.5	3.3	2.9	2.8	2.8	2.3	G	4.2	5.0	5.4	5.0	5.4	5.4	5.8	4.8	4.8	4.8	4.5	3.9	4.6	4.5	4.3	4.4	4.4	
Count	30	30	30	31	30	28	29	30	29	30	29	29	25	27	30	30	30	31	30	31	31	31	31	31	30

Example - Mc to 2.8 Mc in 1.5 min

Manual

IONOSPHERIC DATA

Lat. 35° 42.4' N
Long. 139° 26.3E

Kokubunji Tokyo

135° E Mean Time

May. 1950

(M3000)FZ

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	3Z (27)B	27	26	27	27	29	30	30	30	29	30	30	32	29	30	30	31P	(29)B	B	B	(28)B	B	B	B	
2	(29)F	(28)F	29	25	29	31P	33	34	31	29	30	29	27	29	30	29	30	31	32B	(26)J	30	29	29	28H	
3	29	29	28	26	26	(31)P	34	33	30H	(29)B	29	28	27	29	28	29	27	31	32	(28)P	(28)B	30B	29P	29P	
4	28	(25)B	27	27	29	32	C	C	C	C	C	29	29	30	29	29	30S	(30)S	31	(30)S	(27)B	(28)F	(30)S	(30)S	
5	29	27	29	27	27	29S	34	33B	31	28	30	27	31	30	30V	30	30	32	33	B	PS	(31)P	(31)B	(31)J	
6	(29)B	29	28	27	26	27	(31)J	31B	30	30	28	28	29H	29P	29	29	30H	32	30	31F	(32)P	28H	28	29F	
7	30S	30	28	27	27	32	33	33	31H	33S	29	29H	29P	29	30	31	30	31P	32	30	30	30	28	28	29F
8	28	27P	30	28P	31	30	31	31	32	29	28	28	(29)B	29	29	29	29	30	30	30S	28	28	28	28	28
9	27	28	(27)S	(29)S	29P	31S	33	33	31B	31	29	28	30	28	28	30	27	30	31	32	(29)S	(28)B	28	S	
10	S	(31)S	(30)P	(30)P	C	32	32P	34	34	33	29	29	29	30	22	31	31	31	31B	(32)B	(29)B	(28)B	29	28	
11	(28)B	29B	30B	27	29	(32)S	33	34	33P	(31)P	29	30	30P	31	31S	31	(30)P	32	(32)S	(30)S	S	S	S	S	
12	S	29S	28	29	28	29	(33)P	32	31	29P	29	30	29	29	31	30	32	30P	32	(31)P	27	(28)B	26H	(28)J	
13	28S	31	33	27	28	30	(34)J	(35)S	(31)P	27	29	30	30	28	28	29	29H	A	A	(30)P	28S	(27)S	A	A	
14	31S	28S	27	S	5	(34)J	(35)S	(31)P	27	(28)P	29	28	28	30B	30	31	30F	31	29	(30)S	27	28B	(27)S	31	
15	F	F	(33)S	30F	27F	30	32	29	30	30	28	27	30	29	28	29	30	30	30	(31)P	27	28B	(27)S	31	
16	(30)B	B	31	31	31	(37)B	(38)J	36	31	32	(28)H	28S	30	29	28	29	30	30	30	(31)P	27	(28)B	26H	(28)J	
17	(29)P	(29)P	30	30	28	31	35	34	32	29	30	29	31	31	30	30	29	29	(29)B	(30)J	30	28	(29)P	28	
18	28	28	26	30	28	30	C	31	30P	28H	28	26	A	30F	29	(30)J	30	29	(29)B	(30)J	30	28	27	28	
19	28	30	28	29	C	C	C	(31)H	33	31	27	27	29	(30)C	31	32	(33)H	(31)H	B	31	28	27	27	28	
20	29H	31S	30	27	29	31	31F	32F	34H	32	(33)P	30P	(30)C	29	29	C	C	A	A	A	29	28P	27	A	
21	C	C	F	(30)P	C	C	29	32P	30P	28	27	30	30	30	31	31	33	32	34	(30)P	S	29	(28)S	27	
22	F	A	S	F	28F	30	(35)P	(34)P	32F	AK	AK	CK	27K	(28)P	29	(28)F	29H	(29)J	29	(28)B	2.6	2.6	(28)F	28F	
23	25F	25F	27F	27F	(26)A	28F	30	31	(29)J	A	A	30H	29	29	30	29P	30	29	28	27S	2.7S	2.6	2.6H	2.6	
24	26	27	29	26P	S	S	36K	(34)J	30K	36K	AK	30K	31S	29	29B	B	31	29F	30S	(28)P	30P	29	A	A	
25	26H	28	28	29	28	28	33	30	31	31	27	27	29	29	29	30	29	(30)P	32P	30	(28)B	(27)P	(28)F	(26)F	
26	(27)B	25	28	28	30	32	30	31	31	28	27	28	29	27	28	30	30	32	34	32	28	28	29	28	30
27	30	31F	29	32	34	31	33	35	32	30	31	(30)J	A	A	A	A	30	30	31S	BS	30	BS	29	28	
28	27	27	(25)F	26F	27	31	32F	32	(31)B	32	A	28	A	A	A	A	29	27	S	A	A	S	27	26	
29	A	27	27	26	27	31	34	31S	32	31	28	30	30	(30)A	29	31	32	34	(33)J	33P	30	28	28	28	
30	27	28	30S	29F	34	34	35F	35	31	31	27	28	29	29	29	29	29	(31)J	(32)C	(32)J	30	(27)B	(27)F	(26)F	
31	28P	29	28S	29	29	31S	33	33	29H	30	31	(30)S	(29)J	(28)J	A	A	A	S	(31)P	S	S	(30)S	(26)P	B	
Median Value	28	28	28	28	28	31	33	32	31	30	29	29	29	29	29	30	30	31	31	30	29	28	28	28	28
Count	25	28	28	29	26	28	29	30	30	28	26	29	29	30	29	27	29	28	26	23	25	28	26	24	24

Manual

Swamp²-Mc to 5.0 Mc in 15 min

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May. 1950

fmin F

Lat. 35°42.4'N
Long. 139°26.3'E

Kokubunji Tokyo

135° E Mean Time

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	A	1.2	1.2	1.1	1.2	1.6	2.8	3.2	3.7	A	4.4	A	A	A	4.6	4.2	A	A	A	A	A	A	A	A
2	A	A	1.7	A	A	2.0	2.8	2.8	4.3	4.1	4.6	4.6	A	A	A	A	3.8	A	AF	AF	AF	AF	AF	1.7
3	AF	AF	A	A	1.1A	1.7	2.7	3.3	3.9	4.1	4.1	4.1	4.2	4.2	4.2	4.1	3.7	3.2A	2.3	2.0	A	A	A	A
4	1.2	1.2	1.1	1.1	1.2	1.6	C	C	C	C	C	4.3	4.2	4.2	S	3.9	3.5	3.3	2.4	A	A	A	1.6	A
5	1.8	A	1.6	1.3	1.4	1.8	2.7	3.5	A	A	A	4.1	A	A	A	A	3.1	3.3	2.8	A	A	A	A	A
6	A	A	1.7	1.2	1.6	2.1	2.8	3.5	4.2	4.1	4.1	4.2	4.2	4.1	4.1	3.9	3.5	3.5	2.5	1.8	A	A	A	A
7	A	1.5	1.6	1.7	1.6	1.8	2.5	N	4.0	4.2	A	A	4.4	4.1	4.1	3.8	3.5	2.8	2.3	A	AF	A	1.6	1.6A
8	(1.8)E	1.3	E	E	E	1.9	2.7	3.4	3.8	4.2	4.2	4.1	A	4.4	4.2	3.8	3.5	3.2	A	A	A	1.6	1.3	1.1
9	A	A	1.8	1.4	1.4	2.0	3.2	3.8	4.2	3.8	4.0	A	4.5	4.0	4.6	A	A	3.2	A	A	A	A	1.6	1.3
10	1.2	1.2	1.1	1.1	C	2.1	2.9	3.8	4.2	A	4.3	4.7A	A	4.8	3.7	4.0	A	A	A	A	A	A	A	A
11	1.2	1.2	1.6	1.2	1.1	2.2	2.6	3.5	4.0	A	4.4	4.6A	A	A	6.0	4.2	3.7	A	A	A	A	A	A	A
12	1.6F	1.4	E	1.2A	1.4	2.0	3.0	A	4.0	4.2	4.2	4.3	A	A	4.1	3.8	3.4	A	AF	AF	AF	A	A	1.8
13	AF	E	AF	1.4	E	2.0	2.8	3.6	4.1A	4.1	A	4.1	4.1	4.2	A	4.1	3.5	A	A	A	A	1.4	1.8	A
14	1.2F	A	A	1.8A	1.5	2.0	2.5	3.4	4.2	A	4.5	4.2	4.2	4.2	4.1	4.0	3.8	2.9	2.0	A	A	A	A	A
15	A	A	1.1	A	1.4	1.8	2.7	3.2	A	A	A	A	4.1	4.1	4.2	A	A	A	2.0	A	5.4	1.8A	A	A
16	A	AF	AF	1.2	(1.2)F	A	A	A	4.0	A	4.7	A	4.3	4.2	4.0	3.9	A	3.1	2.4	A	1.8	1.6	1.3	A
17	A	A	1.5	1.3F	1.6	A	2.8	A	4.1	A	4.4	4.7	4.7	4.7	4.4	A	4.1	AF	2.0	2.0	AF	AF	A	1.6
18	A	1.5	1.6	1.3	A	2.3	2.6	3.6	A	A	5.5	A	A	A	A	A	A	A	A	A	A	A	A	A
19	A	A	A	A	1.6	6	C	3.5	3.8	4.3	4.4A	4.4	A	C	A	A	A	A	A	A	A	A	A	A
20	A	1.1	1.3	A	1.1	2.1	A	A	A	A	6.6	6.3	C	A	A	C	C	A	A	A	1.6	AF	A	A
21	C	C	A	1.7	A	C	3.2	3.9A	4.1	A	A	A	A	4.4	4.4	4.2	3.6	3.2	2.0	A	A	A	A	A
22	2.3	A	A	AF	A	2.1	2.9	A	A	A	A	C	A	A	A	A	4.1	A	2.0	A	A	A	A	A
23	AF	AF	1.5F	1.1F	AF	A	A	A	A	A	4.9	4.8	A	4.5	(4.1)A	3.5	2.7	A	A	1.7	A	A	AF	AF
24	A	A	1.7A	A	1.2F	2.0	A	A	4.1	A	A	A	A	A	4.3	4.1	A	A	2.7A	A	A	A	A	A
25	A	1.3	1.1	A	A	2.7	2.7	(3.6)A	3.8	4.1	4.0	4.2	4.4	4.1	4.1	4.3	A	A	A	A	A	A	A	A
26	A	1.1	1.1	E	1.5	2.0	2.8	3.4	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
27	A	A	1.7	1.6	1.6	1.8	A	3.2A	A	A	A	(4.6)B	4.3	A	8.0	A	A	A	(2.0)A	AF	A	AF	A	A
28	AF	A	A	A	1.4F	2.7	2.6	A	4.1	A	A	4.6	4.5A	A	A	A	A	A	A	A	A	A	A	A
29	A	A	A	A	E	A	A	3.5A	A	3.9	4.1	A	A	A	A	A	A	AF	A	A	A	A	1.6	A
30	1.6F	1.4	1.6	1.6	1.6	2.0	3.4	A	A	A	4.5A	A	A	A	A	3.9	3.9	A	C	A	A	A	A	A
31	A	A	1.2	1.6A	1.1	2.2	2.8	3.2	4.0A	4.4A	4.5	4.6	A	A	A	A	A	A	AF	AF	AF	A	A	A
Median Value	1.6	1.2	1.5	1.2	1.4	2.0	2.8	3.5	4.1	4.1	4.4	4.4	4.3	4.2	4.2	4.0	3.6	3.2	2.3	-	-	-	1.6	1.6
Count	9	13	22	22	24	25	23	20	19	12	18	18	15	15	17	17	16	11	13	4	4	4	7	6

Sweep 1.0-Mc to 15.0-Mc in 1.5-min

Manual

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

Lat. 35°42.4'N
Long. 139°28.9E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

fmin E

May. 1950

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	1.2	B	1.1	E	1.2	1.3	1.4	1.5	(28)B	4.0	4.2	3.4	3.0	2.4	(2.0)B	2.0	1.6	1.5	1.3	1.4	1.5	1.6	1.6	
2	1.2	1.1	E	1.1	E	1.5	1.6	2.0	1.4	1.8	2.8	3.0	(33)B	2.0	3.6	3.2	1.6	1.4	1.2	1.1	1.4	1.5	1.4	1.5	
3	1.1	E	E	E	E	1.1	1.4	1.5	1.6	2.0	2.6	3.0	B	B	3.5	2.0	2.0	1.8	1.5	1.2	1.5	1.2	1.3	1.4	
4	1.2	1.2	1.1B	1.1	E	E	C	C	C	C	C	3.6	B	3.5	1.9	1.9	1.9	1.6	1.4	1.6	1.6	1.4	1.4	1.4	
5	1.3F	1.2	1.2	1.1F	1.1F	1.1	1.6	1.6	1.9	2.0	3.2	4.0	2.6	3.1	2.6	2.6	2.2	2.0	1.4	1.3	1.3	1.4	1.5	1.4	
6	1.4	1.2	E	1.2	1.2	1.2	1.4	1.8	1.8	1.8	1.8	2.5	3.2	B	3.6	2.6	2.2	2.0	1.4	1.3	1.3	1.4	1.5	1.4	
7	E	E	E	1.8	1.2	1.2	1.6	1.3	1.8	2.8	2.6	2.0	B	(28)B	2.0	2.0	1.9	1.3	1.6	1.3	1.2	1.3	1.2	E	
8	E	E	E	E	E	1.4	1.5	1.2	1.6	2.0	3.6	3.4	3.2	3.2	4.0	2.6	1.8	1.4	1.3	1.2	1.2	1.1	1.1	1.1	
9	1.1	1.2	1.1	1.1	B	1.6	2.0	2.2	2.0	1.7	2.1	2.1	1.8	1.9	2.0	2.4	1.7	1.5	1.4	1.3	1.4	1.4	1.4	B	
10	E	E	E	1.2	C	B	1.2	1.6	1.9	2.7	2.7	3.8	(28)B	(38)B	2.7	1.9	2.0	1.6	1.4	1.6	1.4	1.4	1.4	1.6	
11	1.4	1.2	1.1	1.2	1.3	1.4	1.5	1.5	2.0	2.1	1.8	(28)B	2.6	4.0	4.0	3.8	2.0	1.6	1.4	1.4	1.3	1.5	1.2	1.1	
12	1.2	1.2	E	E	1.2	1.6	1.6	1.6	1.9	2.0	(2.0)B	B	2.6	2.8	2.6	(2.0)B	1.7	1.6	1.4	1.1	1.1	1.1	1.1	1.1	
13	E	E	E	E	E	1.2	1.4	1.4	1.5	1.5	1.6	2.0	3.0	2.0	(1.8)B	2.0	1.4	1.4	1.1	1.1	1.1	1.1	1.1	1.1	
14	1.1	1.1	1.1	1.1	1.1	(1.3)B	1.2	1.3	1.6	1.9	2.8	2.7	2.7	3.2	2.7	2.0	2.0	1.9	1.3	1.6	1.6	1.6	1.4	1.2	
15	1.2	1.1	1.1	E	E	1.3	1.5	1.4	1.6	2.0	2.0	2.7	2.0	2.7	3.0	2.0	2.0	2.0	1.4	E	1.6	1.4	1.6	1.4	
16	1.2B	1.1	1.1	1.2	1.2	1.5	1.9	2.0	1.3	2.2	1.9	2.0	1.8	1.8	1.9	1.8	1.8	1.4	1.3	1.2B	1.5	1.4	1.2	1.1	
17	1.2	1.1	1.1	1.1	1.1F	1.4	1.4	1.4	1.5	2.0	2.7	1.8	3.0	B	2.8	2.0	2.0	1.7	1.5	1.5	1.5	1.6	1.6	1.2	
18	1.1	1.2	E	E	E	1.4	1.4	1.4	1.6	2.7	2.6	2.0	2.6	2.7	2.8	3.5	1.8	1.3	1.1	1.1	1.2	1.2	1.2	1.2	
19	E	1.1	1.2	1.1	C	C	C	C	2.0	2.0	2.8	2.8	(35)B	C	2.8	2.8	1.7	1.6	1.3	1.2	1.4	1.4	1.3	1.3F	
20	1.1F	1.1F	1.1F	1.2	1.1	B	1.8	2.0	2.0	2.1	4.7	4.1	C	4.2	2.2	C	C	1.6	1.2	1.5	1.4	1.5	1.5	1.3	
21	C	C	1.2	1.2	1.2	C	1.5	1.7	1.8	(2.0)B	3.4	3.2	3.4	3.4	3.0	2.8	2.0	2.0	1.8	1.5	1.6	1.8	1.8	1.8	
22	2.3	1.6	1.8	1.1	1.1	1.2	1.4	1.5	2.0	3.8	3.0	C	4.0	3.2	2.8	2.3	2.0	1.5	1.6	1.3B	1.6	2.0	1.2F	1.2	
23	1.2F	1.1	1.1F	1.1F	1.1F	1.4	1.6	1.6	3.2	2.7	3.4	3.5	3.2	3.2	3.1	1.9	1.8	1.4	1.2	1.1	1.2	1.2	E	1.2	
24	E	E	E	E	E	1.2	1.4	1.3	1.8	(2.0)P	(2.0)B	2.8	(2.7)B	3.7	3.1	2.5	1.9	1.8	1.8	1.9	1.9	1.9	1.6B	1.7	1.2
25	1.1B	1.1	1.1B	1.1	1.1	1.6	1.3	1.3	1.8	1.9	2.7	3.5	2.7	3.0	2.8	2.5	2.0	2.0	2.2	1.3	1.2	1.2	1.2	1.2	
26	1.2F	1.1	E	E	1.1	1.4	1.4	1.4	1.4	1.6	1.9	1.8	1.9	1.9	1.9	1.8	1.7	1.7	1.5	1.5	1.6	1.6	1.3	1.2	
27	E	1.2	2.1	1.5	1.6	1.5	1.8	1.8	4.0	4.0	3.1	3.6	B	B	3.9	2.0	1.9	1.8	1.3	1.4	1.4	1.4	1.4	1.2	
28	E	1.1F	1.1F	1.1F	1.1F	1.4	1.4	1.4	2.1	2.0	2.3	(3.2)B	4.0	2.7	3.1	2.5	1.9	1.6	1.6	1.6	1.6	1.6	1.4B	1.2	
29	1.1F	E	E	E	E	E	1.2	1.4	1.7	1.9	3.5	3.5	3.1	3.2	3.4	3.0	2.0	1.6	1.6	1.3	1.3B	1.5	1.3	1.3	
30	1.3F	1.1	1.1	1.1	1.2	1.4	1.4	1.6	1.4	2.0	2.0	2.8	2.0	2.2	1.8	1.7	1.8	1.6	(1.6)C	1.5	1.8	1.7	1.6	1.7	
31	1.4	1.1	1.1F	1.1F	1.1F	1.6	1.1	1.1	1.4	(1.6)B	2.0	2.6	3.4	(3.2)B	4.6	4.0	2.0	1.4	1.4	1.6	1.2	1.3	1.6	1.2	
Median Value	1.2	1.1	1.1	1.1	1.1	1.4	1.4	1.4	1.8	2.0	2.6	2.8	2.9	3.0	2.8	2.2	1.9	1.6	1.4	1.3	1.4	1.4	1.4	1.4	
Count	30	30	30	31	29	27	29	30	30	30	30	29	26	27	31	30	30	31	31	31	31	31	31	31	30

Sweep-Up-Nc 10-11.6 Mc in 1.5 min

Manual

K I

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

Lat. 35°42.4'N
Long. 139°29.3'E

May. 1950

Zd

Kokubunji Tokyo

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	40	(110)B	100	80	100	120	B	80	40	90	100	80	120	120	110	110	120	110	B	B	B	(80)P	B	B	
2	(70)F	(90)F	(110)B	90	80	150P	80	60	130	80	100	100	110	90	90	120	120	130	(110)J	90	110	130	130	70H	
3	100	120	90	110	100	(110)P	70	170	40	(100)B	130	110	130	130	110	90	100	120	150	(100)B	(100)B	(100)B	70B	100P	
4	70	(100)S	90	90	80	80	C	100	C	C	100	100	80	120	100	80	90	90	(90)S	(130)S	(130)S	(110)P	(50)S		
5	80	100	100	90	90	130S	80	110B	C	170	130	120	130	140	100V	110	90	120	130	B	BS	(80)P	(50)B	(70)J	
6	(90)B	80	100	100	100	90	(130)J	70B	110	80	130	100	100	140	100	110	110	110	H	150F	(70)F	100H	90	60	
7	40S	50	70	120	80	50	70	70	90H	90S	110	90H	140P	130	110	100	110	130P	80	130	100	130	70	70YF	
8	90	120P	110	120P	60	120	100	140	90	100	100	130	(160)B	90	100	40	110	90	100	100S	110	110	100	80	
9	120	100	(90)S	(90)S	100P	100S	90	80	100	70	110	110	180	80	120	100	70	120	80	90	(120)S	(100)P	110	S	
10	S	(80)S	(120)P	(100)P	C	120	110P	70	70	240	100	110	100	100	100	150	80	80	80P	80	(120)S	(120)S	80	90	
11	(140)B	110B	90B	130	90	(100)S	110	90	100P	(130)P	120	120	90P	80	70S	80	(140)P	100	(100)S	(110)S	S	S	S	S	
12	S	120S	110	110	100	120	(90)P	130	130	100P	110P	110	110	100	80	90	100	120P	100	(110)P	130	(80)B	90H	(70)J	
13	120S	(90)B	70	90	80	100	140	140	120	70	80	90	70	80	80	110	110H	A	A	A	(100)P	100S	(90)S	100	
14	80S	100S	90	S	(60)J	(60)S	(130)P	130	(120)P	90	120	120	120	70	90	100	100F	110	120	(100)S	A	S	A	A	
15	F	F	(60)S	90F	60F	100	90	80	110	130	140	130	100	140	100	80	90	(80)S	(110)S	(140)S	80	70B	(100)S	50	
16	B	(90)B	B	70	80	(50)B	(90)J	90	120	90	(120)H	120S	60	110	110	90	100	(80)J	(100)J	S	(100)H	BH	B	70	
17	(100)P	(90)P	100	60	100	130	50	90	110	160	110	140	120	100	140	110	110	(130)B	(120)B	(110)J	(100)J	B	80	(60)P	
18	80	80	120	70	100	140	120	150	130P	120H	100	110	A	120F	80	A	(110)J	120	A	130	100	90	100	90	
19	70	100	80	70	C	C	C	(150)H	100	70	70	110	80	C	70	70	(50)H	(70)H	B	90	70	60	60V	130F	
20	100H	60S	80	90	90	70	90F	120F	120H	100	(110)P	150P	C	100	110	C	C	A	110B	A	100	80P	140	A	
21	C	C	F	90P	C	C	(140)P	100P	120P	140	150	90	100	90	100	70	70	120	60	(120)P	S	80	(80)S	90	
22	F	A	S	F	(110)F	130	(80)P	(100)P	100F	A	A	C	80	(90)P	140	(80)F	110H	(120)J	140	B	80	(90)B	(90)F	90F	
23	120F	(110)B	110F	110F	(110)A	130F	150	160	(90)J	A	A	40H	90	110	60	70P	90	80	110	100S	110S	90	100H	90	
24	90	90	70	100P	S	S	110	(90)J	60	110	A	40	90S	100	100	B	A	110F	100S	(80)P	90F	110	A	A	
25	110H	80	110	120	120	130	130	110	110	120	80	80	120	90	110	120	70	(80)P	70P	120	(100)P	(100)P	(120)P	(120)F	
26	(100)P	150	130	140	140	140	110	130	80	150	A	100	110	160	130	50	60	80	100	100	100	70	90	120	
27	80	100F	130	80	90	50	40	70	110	70	(90)J	110	90	90	90	90	120	90	80S	80S	80	BS	120	90	
28	130	60	(90)F	90F	110F	130	170F	50	150	150	A	A	A	A	A	A	100	100	S	A	A	S	80	70S	
29	A	80	100	80	100	100	60	90S	180	130	120	70	(80)A	100	70	70	80	70	(100)J	80P	(110)J	100	70	80	
30	110	90	70S	100F	80	70	140F	70	70	110	120	80	120	130	100	100	110	(100)J	(90)C	(80)J	90	100	(120)F	(130)F	
31	120P	(110)B	90S	110	120	110S	60	110	90H	150	70	(70)S	(110)J	(80)J	A	A	A	S	(80)P	S	S	(120)S	(100)P	B	
Median Value	100	100	100	90	100	110	90	100	110	110	110	100	110	100	100	100	100	100	100	100	110	100	100	90	90
Count	24	28	29	29	26	29	28	30	28	28	25	30	28	29	26	26	28	28	28	22	24	25	26	24	

Sleep L₃₀₀₀ Mc to L₃₀₀₀ Mc in 15-min Manual

Radio Regulatory Agency (Denpacho)

Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

Lat. 31° 12.5' N
Long. 130° 37.7' E

Yamagawa

foF2

May. 1950

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	10.2	10.2	9.4	8.4	7.4	5.5	4.6	8.1	8.1	12.0	[13.0] ^C	14.1	13.9	14.0	13.8	13.2 ⁷	12.6	12.5	12.5	12.0	10.7	11.1	11.7	11.6	
2	10.9	10.8	10.3	8.5	9.0 ^H	8.5 ^H	8.7	8.8	C	C	C	C	C	C	C	C	C	C	C	C	11.4	11.2	11.8	11.0	
3	10.4	9.1	8.8	7.7	6.0	6.3	7.8	9.0	9.1	9.3	9.9	11.3	12.4	13.5	13.4	13.1	13.5	11.9	12.0	11.2	10.4	9.1	8.9	8.5	
4	8.2	8.2	7.8	7.2	C	C	8.0 ^F	8.6	8.4	9.7	11.2	14.1	13.8	13.3	13.7	14.5	14.8	14.0	13.3	12.8 ^H	10.9	9.9	10.9	9.9	
5	9.7	8.9	8.7	7.9	7.3	7.3 ^V	9.0	9.4	9.8	9.6	(9.6) ^P	12.3	14.2	13.2	13.5	13.4	12.6	11.7	11.8	12.3	12.2	10.1	9.6	9.6	
6	9.1	9.0	8.6	7.7	7.3	7.7	8.3	9.8	9.6	10.0	8.8	11.1	12.1	13.0	13.1	13.6	13.8	12.5	11.4	11.1	9.7	8.4	8.0	8.0	
7	8.3 ^H	8.1	7.6	6.7	6.4	6.1 ^H	7.8	9.3	9.3	9.5 ^H	9.8	10.4	11.4	11.6	12.1	13.3	12.8	11.8	[11.8] ^C	11.7	9.1	9.5	9.6	9.7	
8	9.0 ^F	9.1	9.4	8.2	8.1	8.2	8.7	10.4	10.3	9.3	10.2	11.1	11.3	11.6	12.5	12.3	12.6	13.1	11.6	11.2	10.4	10.1	10.0	10.0	
9	9.7 ^H	9.4	9.9	8.8	8.2	8.4	9.2	9.4	9.7	10.1	10.4	11.0	10.6	11.8	13.1	13.4	13.6	13.5	12.5	10.6	(10.0) ^S	10.7	11.4	11.6	
10	11.4	11.4	10.7	9.3	8.5	8.0	9.4	10.5	9.6	9.1 ^H	10.5 ^H	11.6 ^H	12.6	13.0	13.4	A	13.0	A	11.8	10.2	9.7	9.8	8.8	8.3	
11	7.8	7.8	8.0	7.4	7.2	6.9	7.9	9.0	9.0	9.9	11.1 ^H	12.4	13.1	14.1	14.1	14.5	14.9	14.7	13.8	12.2	12.1 ^H	12.3	12.3	11.7	
12	11.8	11.0	9.9	10.0	8.4	7.1	7.6	9.2 ^H	10.5	10.7	11.3 ^H	12.1	13.1 ^H	13.2	13.3 ^H	13.5	12.8	11.5	11.0	10.3	9.1	9.4	10.0	10.2	
13	9.5	8.9	8.1	7.0	6.8	6.7	8.1	10.0	9.0	9.7 ^H	11.0 ^H	11.8 ^H	13.1 ^H	13.1 ^H	13.2 ^H	13.9	14.1	13.8	13.3	13.0	11.8	8.9	9.2 ^H	10.3	
14	10.3 ^H	6.7	6.3	6.1	5.8	6.2	7.5	9.1	9.0	10.8	11.6	11.3	11.6	11.6	12.2	11.6	[11.3] ^C	11.0	10.7	10.1	8.0	7.2	7.5 ^F	8.3 ^F	
15	8.6 ^F	F	11.7 ^F	6.8 ^F	5.0 ^F	4.6 ^F	6.2	7.8	[7.8] ^C	7.7	7.9	(9.3) ^P	11.7 ^H	10.4	11.5 ^H	12.0	12.3	12.2	11.6	8.6	7.2 ^F	7.5 ^F	7.7 ^F	8.1	
16	8.4	8.8 ^V	7.7 ^V	7.6 ^V	6.7	6.5 ^H	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	9.1	9.0	9.1	
17	9.0	8.6	7.7	6.6	6.3	7.4	8.3	8.4	9.0	9.1	(9.5) ^F	9.9	11.0	11.3	11.4	11.7	11.1	11.5	11.1	11.0	9.9	8.0	7.6 ^H	7.8	
18	7.9	7.8	(7.9) ^F	7.7 ^H	7.0	6.1 ^H	7.2	8.3	8.1	8.7	9.3	10.7	11.9	12.6	13.0	11.9	11.6	11.7	10.4	9.8	9.8	9.1	8.8	7.8	
19	6.9	7.8	7.4	6.6	6.8 ^H	6.5 ^V	8.6	9.7	8.4 ^F	8.2	8.5	10.0	11.8	12.8	12.8	11.9	11.2	10.3 ^H	9.4	9.1	7.9 ^H	7.8	7.8	7.9 ^F	
20	7.7 ^F	7.6	8.3	7.1	7.3	7.9	8.7	9.3	8.6	8.8	8.1 ^H	A	10.5	11.1	10.7	10.4	10.6	11.0	11.5	A	8.1	8.5	8.5 ^H	8.7 ^V	
21	8.9	8.2	8.0 ^F	8.4 ^F	6.9	7.4 ^F	7.7	8.3	8.7 ^H	9.1	9.8	11.0	11.7	10.9	11.1	11.1	11.3	11.0	10.4	9.0	8.1	8.5	8.5	8.5	
22	8.2	7.3	7.3	6.0	5.0	5.5	7.2	8.5	8.7	8.6	9.0	8.6	10.1	10.9	11.2	10.1	8.9	8.3 ^H	8.3	8.2	7.9	8.0	7.1	7.7 ^F	
23	7.8 ^F	(8.7) ^F	8.0 ^F	7.7 ^F	6.5 ^F	6.8 ^F	7.5 ^F	8.4	8.2	10.2	[10.4] ^C	10.5	10.8	10.9	11.7	12.7	13.0	9.9	9.1	9.8	9.8	8.6	F	F	
24	9.2 ^F	(9.0) ^H	7.5	7.7	7.5	7.3	7.8	6.5	7.4	8.5	8.3	8.1	10.1	10.4	10.4	10.4	9.9	10.7	10.5	9.7	9.5	8.9	8.3	7.4	
25	7.4 ^F	9.0	8.5	(8.1) ^F	7.0 ^F	7.4	7.6	8.8	8.6	7.5	7.2	8.3	9.0	9.8	10.7	11.2	11.2	10.7	10.5	9.8	8.8	8.8	8.6	8.8	
26	9.1	8.8 ^V	8.3 ^V	8.1 ^F	7.8 ^V	7.9 ^V	8.1	7.8	8.1	8.7	9.5	A	10.9	11.5	[11.6] ^C	11.6	12.2	12.7	11.2	10.0	8.3 ^P	8.8	8.8	8.8	
27	9.3	10.0	9.0	7.8 ^F	7.9 ^F	8.0 ^F	7.8	6.7 ^F	7.9	A	9.2	10.3	10.8	11.4	12.0	12.5	12.8	11.4	11.0	10.6	9.6	8.7	A	A	
28	8.0	7.8	(7.5) ^F	F	F	7.8	[7.2] ^C	6.5	6.7 ^Z	6.7	6.4	7.9	9.9	9.4	11.2	11.1	A	A	10.2	10.2	8.7	7.5	8.1	8.0	
29	8.0	8.8 ^Z	8.4	7.7	7.1	8.5	9.0	8.3	8.0	8.2	9.0	9.5	10.3	10.6	A	9.7	11.1	10.5	10.9	10.4	8.5	(7.8) ^F	(9.9) ^F	(9.9) ^F	
30	(8.8) ^F	(8.1) ^F	8.1	(7.7) ^F	6.0	6.0 ^F	6.3	7.4	7.8	8.5	7.9	8.3	9.2	9.7	11.7	11.8	12.0	13.8	12.9	12.1	(8.2) ^F	8.4	8.8	(9.4) ^F	
31	(9.8) ^F	(9.3) ^F	F	7.0	7.1	7.6	[7.7] ^C	8.5	7.4	7.8	A	9.8 ^H	10.8 ^H	11.5	12.5	13.0	13.4 ^H	11.1 ^H	11.0 ^F	10.8 ^F	(10.3) ^F	(10.4) ^F	10.5	10.6	
Median Value	9.0	8.8	8.2	7.7	7.1	7.3	7.8	8.7	8.6	9.1	9.6	10.7	11.4	11.6	12.4	12.2	12.6	11.7	11.2	10.5	9.6	8.9	8.8	8.8	
Count	31	30	30	30	29	30	30	30	29	28	28	27	29	29	28	28	28	28	27	29	28	30	31	29	29

Sweep 12 Mc to 5 Mc in 15 min

Manual

Y 1

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May. 1950

h_pF₂

135° E Mean Time Yamagawa

Lat. 31° 12.5' N
Long. 130° 37.7' E

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	380	360	320	340	370	330	330	290	300	380	(360) ^C	340	350	350	360	(360) ⁷	340	320	330	320	310	360	360	370	
2	360	350	320	380	350 ^H	320 ^H	300	320	C	C	C	C	C	C	C	C	C	C	C	C	C	380	410	420	370
3	410	410	410	410	400	350	310	320	310	350	340	420	400	380	380	430	370	350	360	360	340	350	380	390	
4	420	390	370	380	C	C	270 ^F	280	300	360	380	340	350	340	370	380	350	340	330	330 ^H	300	400	400	400	
5	350	350	340	400	380	430 ^V	280	280	280	280	(360) ^F	350	350	380	360	360	360	350	380	340	340	330	350	410	
6	400	390	380	400	380	360	350	320	320	300	390	390	390	390	380	390	360	340	350	350	350	350	360	330	
7	400 ^P	400	380	330	300	360	340 ^H	310	310	340	350	380	370	360	380	360	340	350	(330) ^C	310	340	310	300	390	
8	400 ^H	400	350	400	370	320	280	300	300	360	390	400	400	370	380	380	360	360	360	320	330	370	360	380	
9	400 ^H	400	350	400	370	320	280	300	300	360	390	400	400	370	400	420	400	350	340	310	330	(390) ^S	400	360	
10	350	350	350	310	330	340	300	310	320	380 ^H	410 ^H	380 ^H	400	400	380	390	A	360	A	A	280	320	360	350	
11	340	360	370	370	360	350	300	290	310	370	410 ^H	390	390	380	370	370	350	320	320	340	370 ^H	390	360	370	
12	360	330	350	340	340	370	330	300 ^H	350	340	410 ^H	390	390 ^H	350	360 ^H	350	330	370	(370) ^A	340	390	410	410	370	
13	350	340	310	380	420	410	360	310	310	360 ^H	390 ^H	400 ^H	400 ^H	390 ^H	400	380	370	340	340	310	380	430	420 ^H	400	
14	340 ^H	340	340	350	340	280	290	290	360	370	330	390	360	380	370	370	(380) ^C	380	330	310	(310) ^B	450	460 ^F	420 ^F	
15	(420) ^F	F	290 ^F	250 ^F	(340) ^F	450 ^F	320	290	(300) ^C	300	270	(380) ^F	410 ^H	370	400 ^H	300	360	320	300	290	410 ^F	(470) ^N	400	400	
16	400	360 ^V	350 ^V	(360) ^B	330	360 ^H	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	410	410	
17	390	350	340	350	410	310	290	300	290	300	(320) ^C	340	350	390	370	400	360	340	330	340	300	370	410 ^H	410	
18	410	440	(410) ^H	380 ^H	320	410 ^H	340	330	350	360	380	410	390	360	340	330	350	340	320	330	290	300	330	350	
19	350	400	340	380	340 ^H	350 ^V	290	250	290 ^F	300	370	440	390	390	340	340	350	320 ^H	330	320	350 ^H	400 ^F	390	410 ^F	
20	420 ^F	400	390	360	390	330	280	280	310	300	350 ^H	A	430	380	380	390	380	A	A	A	A	400	430 ^H	400 ^V	
21	390	360	330 ^F	330 ^H	370	360 ^F	290 ^F	310	390 ^H	350	380	390	380	380	370	360	350	320	300	310	370	400	400	400	
22	410	400	310	310	320	340	260	310	310	330	330	330	400	400	310	370	420	370 ^H	330	330	360	390	440	410 ^F	
23	390 ^F	(400) ^F	(360) ^F	(340) ^F	(370) ^F	(400) ^F	350 ^F	310	310	270	C	350	340	350	390	400	400	360	340	350	330	390	F	F	
24	420 ^F	(440) ^H	370	350	350	350	340	370	350	340	320	410	390	380	390	350	390	360	330	340	330	330	320	330	
25	370 ^F	400	370	(350) ^F	420 ^F	430	310	280	300	310	G	390	400	400	400	380	350	370	360	320	360	380	410	440	
26	400	400 ^V	360 ^V	380 ^F	350 ^V	350 ^V	280	340	330	320	370	A	380	380	(380) ^C	390	370	320	320	350	400 ^F	420	400	400	
27	410	350	340	380 ^F	380 ^F	300 ^F	240 ^F	270 ^F	370	A	370	410	400	400	400	360	340	340	360	350	350	330	A	A	
28	340	A	(410) ^F	F	F	340	C	290	310 ²	300	290	G	390	440	420	360	A	A	A	390	350	430	430	440	
29	430	490 ²	420	440	400	380	260	270	290	280	330	330	340	320	A	270	260	340	330	320	A	(410) ^N	(380) ^N	(410) ^F	
30	(390) ^F	(390) ^F	340	(360) ²	340	320 ^F	270	290	A	360	350	390	410	370	390	480	390	330	320	310	(290) ²	400	360	(400) ^F	
31	(410) ^F	(340) ^F	F	360	350	330	(320) ^C	310	280	340	A	400 ^H	400 ^H	380	390	350	330 ^H	330 ^H	(320) ^F	310 ^F	(320) ^F	(340) ^F	370	370	
Median Value	400	390	350	360	370	350	300	300	310	340	370	390	390	380	380	370	360	340	330	330	350	350	390	390	400
Count	31	29	30	30	29	30	29	30	28	28	27	27	29	29	28	28	28	26	28	28	28	28	31	29	29

Sweep 0.2 Mc to 0.5 Mc in 1.5-min Manual

IONOSPHERIC DATA

Lat. 31° 12.8' N
Long. 130° 37.7' E

Yamagawa

135° E Mean Time

May. 1950

f_o'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	A	270	270A	270	300	280	270	270	270	280	(270)C	300	300	300	300	330	270	240	230	240	240	260	A	A	
2	A	A	250	280	290H	250H	230	220	C	C	C	C	C	C	C	C	C	C	C	A	270F	250	300	270	
3	300	320	320	330	330	270	260	280	260	270	270	380	350	350	350	340	330	300	270	270H	250	280	310	280	
4	A	(310)A	300	270	C	C	250	240	260	320	310	310	310	290	320	330	310	260	260	270H	250	280	270	270	
5	A	300	280	280	300	310	260	240	230	270	270	330	330	300	310	300	310	270	270	270	250A	250	270	300	
6	320	310	330	330	A	300	280	300	270	270	A	380	350	340	310	320	300	260	250	280	280	260	300	320	
7	320H	300	320	310	270	300H	250	260	280	280H	270	240	300	340	300	320	300	270	C	A	A	A	300	A	
8	A	320A	A	280	300A	300A	260H	250	260	270	300	300	300	310	300	300	300	300	280	280	280	240	270	300	
9	300H	300	300	300	300	270	260	240	250	240	260	300	350	380	(400)A	370	320F	300	290	280	280	290	A	300A	
10	(300)A	300A	270	270	260	260	270	250	250	250H	300H	330H	360	320	340	A	300	A	A	260	290	300F	330	310A	
11	300A	320	A	270	270	270	250	250	270	270	270H	300	320	320	310	320	300	260	240	270	270H	300	300	270A	
12	270A	280	270	280	260	260	250	260H	270	270	270H	320	AH	320	320H	330	330	370	370	320	350	350	350	300A	
13	270	270	250	280	320A	320A	260	240	270	300H	300H	300H	270H	310H	370	340	310	310	270	280	280	300	340H	310	
14	280H	300	300	320	260	230	280	240	270	300	300	300	310	310	320	300	(300)C	310	280	280	280	260	A	340	
15	A	340F	250	210	280	310	250	250	(260)C	280	250	270	360H	360	300H	250	320	270	270	230	290	380	310H	350	
16	320	A	280	280	280	280H	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	350	300A	
17	320	300	300	330	340	270A	270	260	250	270	(300)C	320	320	350	350	340	300	310	300	270	280	270	300H	320	
18	320	A	340H	300H	280	280H	270	260	310	340A	270	270	360	320	320	300	310	300	270	270	240	260	270	310	
19	310	270	270	320	300H	280	260	240	250	300	300	370	360	340	310	300	300	260H	270	270	250H	270	310	320	
20	310	320A	300	300	330A	280	260	250	270	300H	A	370	370	330	350	370	330	A	300	A	A	280F	330H	310V	
21	300A	300	270	260H	260	270	240	230	260H	320	330	330	330	340	370	320	310	300	260	260	A	310	300A	310A	
22	310A	310	270	260	270	300A	230	200	300	280	330	300	A	270	300	330	280	290H	300	300	300	300	300	320A	
23	270	320F	310A	A	270	330	240	260A	270	260	(270)C	280	300	300	320	330	A	300	290	300	280	260	260	350A	
24	(310)A	(310)A	A	A	310A	A	260	300	A	300	310	410	360	(340)A	A	330	A	300	280	270	260	250	270A	270	
25	300	(310)A	(300)A	240	280	320	280	270	270	270	410	380	360	380	370	350	320	300	280	270	270	300	A	A	
26	310	320	310A	330A	350A	270	240	240	280	300A	A	A	350	370	(360)C	360	330	290	270	270	300	330	(320)A	300	
27	(320)A	300	270	270	270	240	230	240	300	A	330	310	340	370	370	320	300	330	270	270	300	270	A	A	
28	320	A	350A	340	330	280	(260)C	230	280	270	420	430	370	420	420	350	A	A	310	280	A	300	250	380A	
29	360	370	330A	330	320	A	250	240	250	260	300	300	270	(300)A	A	260	300	270	290F	A	A	A	A	A	
30	300F	310A	270	250	250	260	240	250	270	(340)A	A	370	320	A	360	320	310	300	300A	260	250	A	340	360	
31	(310)A	(300)A	270A	A	(300)A	(300)A	C	250	210	340	A	360H	350H	330	360	320	300H	310H	300	290	(300)A	A	270	310	
Median Value	310	310	300	270	270	280	260	250	280	270	300	320	350	340	320	330	310	300	270	280	280	270	270	270	270
Count	25	27	28	28	27	28	27	30	28	28	25	26	27	27	27	28	27	26	27	27	25	26	27	25	25

Radio Regulatory Agency (Denpacho)

Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May. 1950

f_oF1

Lat. 31° 12.5' N
Long. 130° 37.7' E

Yamagawa

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	Q	L	C	L	L	L	Q	L	L	Q	Q	Q				
2							Q	Q	C	C	C	C	C	C	C	C	C	C	C	C	A			
3							Q	Q	Q	L	L	L	L	L	A	Q	A	L	L	L	Q	Q		
4							Q	Q	Q	L	L	L	L	L	L	L	L	L	L	L	Q	Q		
5							Q	Q	Q	L	L	L	L	L	L	L	L	L	L	L	Q	Q		
6							Q	L	L	A	L	L	6.0	6.0	L	5.6	L	L	L	L	Q	Q		
7							Q	L	L	L	L	L	L	L	L	L	L	L	L	L	Q	Q		
8							Q	Q	Q	L	L	L	L	L	L	L	L	L	L	L	Q	Q		
9							Q	Q	Q	Q	L	L	L	L	L	L	L	L	L	L	Q	Q		
10							Q	Q	Q	Q	A	L	L	L	L	L	L	L	L	L	Q	Q		
11							Q	Q	L	(5.1)†	A	A	A	A	L	5.7	L	L	L	L	Q	Q		
12							Q	Q	L	L	L	L	L	L	L	A	A	A	A	A	A	A		
13							Q	Q	L	L	L	L	L	L	L	5.4	L	L	L	L	L	L		
14							Q	Q	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
15							Q	L	L	A	Q	L	L	L	L	L	L	L	L	L	L	L		
16							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
17							L	Q	Q	Q	C	L	5.7	5.6	A	A	A	L	L	L	L	L		
18							Q	Q	A	A	L	5.6	(5.6) ^B	5.7	A	A	A	L	L	L	L	L		
19							Q	Q	Q	L	L	5.8	5.7	5.6	5.4	5.4	L	L	L	L	L	L		
20							L	Q	A	L	A	A	L	L	L	L	L	L	L	L	L	L		
21							Q	Q	L	L	L	L	L	L	L	(5.7)†	L	L	L	L	L	L		
22							Q	L	L	L	L	L	L	L	L	5.0	A	Q	L	L	L	L		
23							Q	A	A	L	C	A	L	A	A	A	L	L	L	L	L	L		
24							Q	L	A	L	L	5.9	5.7	A	A	L	L	L	L	L	L	L		
25							Q	Q	A	A	5.3 ^J	(5.5)†	5.6	5.5	5.5	5.2	5.0	L	L	L	L	L		
26							Q	Q	Q	A	A	A	5.6	L	C	A	A	Q	Q	Q	Q	Q		
27							Q	Q	A	A	L	Q	A	A	5.4	L	A	A	A	A	A	A		
28							C	Q	A	Q	Q	5.6	5.5	5.6	A	A	A	A	A	A	A	A		
29							A	A	A	L	L	L	Q	A	A	Q	Q	Q	Q	Q	Q	Q		
30							Q	Q	A	A	A	5.8	L	A	A	5.0	L	L	L	L	L	L		
31							C	Q	Q	A	A	A	L	L	L	L	L	L	L	L	L	L		
Median Value												5.6	5.7	5.6	5.4	5.4								
Count											1	5	9	6	6	5	3							

Lat. 31° 12.5' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

135° E Mean Time

h'f'f1

May. 1950

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	Q	Q	250 (240)C	240	230	260	Q	270	240	Q	Q					
2							Q	Q	C	C	C	C	C	C	C	C	C	C	C	A				
3							Q	Q	Q	240	240	250	240	A	Q	A	260A	260	250	Q				
4							Q	Q	Q	210	210	240	250	230	260	220	220	Q	Q	Q				
5							Q	Q	Q	240	220	230	240	250	270A	250	270	270	Q	Q				
6							Q	270	260	270	A	250	A	300	220	240	260	Q	Q	Q				
7							Q	220	230	240	240	Q	270	230	230	250	A	Q	C	A				
8							Q	Q	Q	240	220	240	220	260	A	280	A	270	250	Q	Q			
9							Q	Q	Q	Q	250	260	330A	330A	A	330A	A	A	A	Q	Q			
10							Q	Q	Q	Q	A	230	250	220	250A	A	Q	A	A	Q	Q			
11							Q	Q	240	A	A	A	A	A	310	260	250A	Q	Q	Q				
12							Q	Q	230	240	230A	220	A	210A	250A	A	A	A	A	A				
13							Q	Q	260	270	240	A	Q	300A	280	A	270	A	Q	Q				
14							Q	Q	240	270	260	240	A	230A	220	220	[220]C	230	Q	Q				
15							Q	230	C	A	Q	Q	240	260	250	Q	A	A	A	Q	Q			
16							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C			
17							250	Q	Q	Q	C	300	A	A	A	A	A	280	280	A				
18							Q	Q	Q	A	230	240	B	290	A	A	A	Q	270	270				
19							Q	Q	Q	240	210	220	210	270	230	240	A	Q	250	260				
20							240	Q	A	230	A	A	270	260	220	260	250	A	A	A				
21							Q	Q	220	260A	260	220	A	280	230	(240)A	200	220	Q	Q				
22							Q	250	A	Q	270A	A	A	A	A	240	A	Q	230	260	A			
23							Q	A	A	230A	C	A	270	A	A	A	A	Q	260	Q				
24							Q	250	A	260A	A	240	(240)A	A	A	A	A	A	250	Q	Q			
25							Q	Q	A	A	A	220	210	A	A	240	270A	A	A	Q	Q			
26							Q	Q	Q	A	A	A	220	A	C	A	A	A	Q	Q				
27							Q	Q	A	A	160	Q	A	A	A	260	290	A	A	Q				
28							C	Q	A	Q	Q	240	280	290	A	A	A	A	A	A				
29							A	A	A	200	200	A	Q	A	A	Q	Q	Q	Q	Q				
30							Q	Q	A	A	A	A	300	A	A	250	A	A	A	Q				
31							C	Q	Q	A	A	A	A	240	260	A	A	A	A	A				
Median Value							—	250	240	240	230	240	240	260	250	250	250	260	260	—				
Count							2	5	7	16	15	17	17	18	16	15	11	8	7	2				

Sweep 1.2 Mc to 18.5 Mc in 15 min Manual

Y 5

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May. 1950

f_oE

Lat. 31° 12.5' N
Long. 130° 37.7' E

Yamagawa

135° E Mean Time

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1							A	2.8	A	A	C	A	A	A	A	A	A	3.2	2.4	1.6				
2							2.0	2.5	C	C	C	C	C	C	C	C	C	C	C	C	A			
3							A	A	A	A	A	A	A	A	A	A	A	A	A	A	B			
4							N	N	A	3.6	3.7	3.7A	4.1	(4.1)B	B	3.6	3.5	3.2	2.6A	1.8				
5							A	B	A	3.7	3.8			B	B	A	3.9	3.7A	3.3	A				
6							A	A	A	A	A	A	4.4J	4.2	4.2	A	3.6	3.2	2.6	A				
7							A	A	A	A	3.9J	A	A	3.8	A	A	A	3.1	C	A				
8							2.4	3.1	3.5J	A	A	(4.1)A	A	A	A	(3.7)J	A	3.2	A	A				
9							2.1	3.2	A	A	3.8	A	3.9A	4.2	4.2A	3.9	A	3.2	2.5A	A				
10							2.0	2.7	3.3P	A	A	3.8	3.9	4.2	4.2A	3.9	3.5	A	A					
11							1.9	A	3.2	3.5	3.7	3.7	3.9B	3.8	3.8	3.7	3.5	3.2	A	1.8				
12							2.1J	2.8B	3.1A	3.5	3.6	A	3.5	3.8B	A	3.6B	A	A	A					
13							1.7	2.7	3.3	3.4	3.4	A	A	3.7A	(3.6)A	3.4	3.3A	3.0	2.3	A				
14							2.0	3.0	3.2	3.5	3.8	3.8	A	A	A	A	C	(3.1)A	(2.8)J	A				
15							2.2	3.0H	C	A	A	A	A	A	A	(3.7)A	(3.5)A	2.8	A	A				
16							C	C	C	C	C	C	C	C	C	C	C	C	C	C				
17							2.4J	2.7	(3.3)A	3.4J	(3.8)C	4.3J	A	A	A	A	A	(2.8)J	2.6	A				
18							1.8	2.6	3.5	A	3.8	4.4J	4.4J	4.5	A	A	A	A	A	A				
19							2.4	2.7A	3.3	3.9	4.1	A	4.3J	4.5	A	3.7H	3.4	3.1	2.6	1.8				
20							A	A	A	(3.5)A	B	B	4.4	4.2A	A	3.8	3.4	3.2	2.7	A				
21							2.5	2.9	A	A	A	A	A	A	A	A	A	3.2	2.8	A				
22							2.4	A	A	A	(3.9)A	A	A	A	A	A	A	3.3H	2.8	A				
23							2.4J	A	A	A	C	A	A	A	A	A	A	3.4	2.7	1.9				
24							A	A	A	A	A	3.8A	A	A	A	A	A	A	A	2.3J	A			
25							2.1	2.8	A	A	A	A	A	A	A	A	A	3.5	3.0	A				
26							2.3	A	A	3.4	A	A	A	A	C	3.7J	3.6	3.0	2.5	A				
27							2.1	2.9	3.6	3.8	4.0	3.9	4.1	A	3.6J	A	A	A	A	A				
28							C	A	A	A	A	A	4.0	4.1	3.7	3.6	3.5	A	2.6A	A				
29							A	A	A	A	A	A	A	A	A	(3.4)A	A	3.0	2.7	A				
30							2.2	A	A	A	A	A	A	A	A	A	A	A	2.8A	2.4	A			
31							C	A	2.8	A	A	A	A	A	B	3.8	A	A	A	A				
Median Value							2.1	2.8	3.3	3.5	3.8	3.8	4.0	4.1	3.8	3.7	3.5	3.2	2.6	1.8				
Count							19	15	11	11	14	9	10	11	6	14	13	22	17	5				

Radio Regulatory Agency (Denpacho)

Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May. 1950

f'F₂E

135° E Mean Time

Yamagawa

Lat. 31° 12.5' N
Long. 130° 37.7' E

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

* Sweep 1.2 Mc to 1.8 Mc in 15 min

Manual

Y 7

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

Lat. 31° 12.5' N
Long. 130° 37.7' E

May. 1950

fEs

Yamagawa

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	4.2	2.2	3.0	G	2.1 ^B	2.8	2.9 ^B	4.5	G	5.6	C	5.0	4.6	5.4	6.4	4.8 ^B	3.8	G	4.0	3.8	4.2	5.4	8.6	4.2
2	6.8	4.6	4.6	1.9	2.8	G	G	G	C	C	C	C	C	C	C	C	C	C	C	C	4.2	4.2	4.4	4.0
3	4.2	4.6	3.7	4.2 ^F	3.4 ^B	3.3	3.4	4.2	4.5 ^B	4.8	7.0	5.2	5.6	6.3 ^F	7.0	5.4	5.0 ^F	4.2	3.2	G	2.6	G	5.2	4.0
4	3.2	3.8	G	G	G	C	3.0	3.4	4.6	5.4	5.0	5.0 ^F	G	G	G	G	G	4.2	G	2.2	B	G	G	2.0
5	3.7	2.2	3.8 ^F	3.8 ^Y	3.2 ^Y	G	3.2	B	5.0	4.9 ^F	6.8 ^Y	6.3 ^Y	5.0	6.6	5.4	5.0	5.1	5.2 ^Y	4.6	3.4	3.2	G	G	G
6	3.6	3.6	5.2	5.0	4.8	3.8	3.0	3.8	4.8	5.4	8.0	6.2 ^B	7.2	G	G	G	G	4.4 ^Y	4.8	4.4	3.2	2.6	G	7.0 ^Y
7	3.4	3.4	3.1	3.0	G	2.9	3.6	4.2	4.1	6.8	G	4.8	5.4	4.8	5.0	4.6	4.8	5.4	C	7.4	5.6	B	3.8	8.8
8	4.8	4.6	2.8	3.8 ^Y	3.8	3.8	G	G	G	4.7 ^Y	4.7 ^Y	G	4.9	5.7	5.7	G	5.1	G	4.2	5.6 ^F	5.0	3.2	3.8	G
9	G	G	G	G	G	3.8	4.8	4.2 ^Y	5.2	5.4	7.8	6.8 ^Y	6.4	8.0	9.6	9.2 ^B	7.4	7.1	8.4	6.4	4.2	8.1	8.8	4.4
10	3.0	3.0	2.8	3.2	1.8	G	3.4 ^Y	5.4	G	6.4 ^Y	6.8	5.6	5.1	G	5.5	13.8	5.4	10.5	9.9	8.7	5.4	5.2	7.3	4.9
11	4.9	5.5	5.2	3.0	2.8	2.4	3.3	4.6	5.4	6.8	6.6	7.6	7.3	7.2 ^B	7.6	5.4	5.2	4.4	4.2	3.0 ^Y	3.8	G	5.2	3.0
12	3.6	3.4	3.4	G	G	3.2	G	G	4.8	5.4	6.5	5.1	7.2	4.9 ^F	5.5	9.5	10.4	10.2	10.4	6.8	7.4	5.2	4.4	3.2
13	4.8	3.0	4.4 ^F	5.0	3.0	2.4	3.8 ^F	4.2	4.8	6.8	5.2	6.4	5.2	5.8	6.2	6.2	6.8	10.4	8.0	5.6	9.5	8.3	5.0	5.2
14	6.6	2.9	3.2	4.6 ^B	3.4	3.0	2.6	G	5.0 ^F	5.8 ^F	6.8	5.2	8.0	5.8	5.0	4.8	C	3.8	3.8	4.6	4.4	8.4	6.2	8.6
15	5.0	8.2 ^F	6.0	3.2	3.8	G	G	4.6	C	6.4	6.0	5.6	5.6	5.0	6.0	7.8	6.8	5.6	5.2	2.7	3.2	4.7	3.8	5.4
16	4.6	6.2	2.8	2.6	3.0	2.8	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	8.5	3.8	3.8
17	3.6	G	G	G	3.4	4.4	3.0	G	4.2	4.9	C	5.8	5.4	7.4	9.2	6.4	6.1	3.8	4.6	5.0	2.6	4.6	4.2	2.4
18	5.6	5.2	4.6	4.2	5.0	G	G	8.0	6.0	10.2	4.6	G	4.6	6.5	11.6	9.4	5.4	5.0	5.9	3.6	7.2	6.8	6.5	6.8
19	5.7	2.4	B	6.0	6.9	G	G	5.0	5.4 ^F	5.7	4.8	5.4	8.0	6.8	5.7	5.2 ^Y	5.4 ^B	(3.8) ^Y	5.0	G	2.1	3.6	5.7	5.4
20	4.8	4.8	5.7	5.4	5.6	5.8	4.4	4.4	6.8	(6.4) ^B	9.8	14.8	G	G	5.4 ^Y	4.8 ^Y	5.2	12.4	7.3	15.4	10.8	8.2	5.6	5.4
21	5.6	4.2	4.0	2.4	G	G	G	3.5	4.8	8.0	9.0	7.2	15.4	8.0	5.0	5.2	5.2	5.2 ^B	4.2	5.0	9.0	8.2	4.4	4.6
22	3.0	3.8	3.5	2.9	3.6	3.5	G	G	6.4	6.4	6.8	6.8	8.8	8.4	4.4	8.8	5.6	G	3.8	4.4	4.4	4.4	5.2	8.0
23	4.8	8.6	8.8	5.0	3.6	4.4	5.4	6.8	5.1	6.4	C	6.2	8.8	8.5	8.0	7.6	5.6	G	5.2	3.0	3.8	2.8	3.6	5.2
24	4.8	5.8	4.8	3.8	3.8	4.6	3.8	4.4	7.0	7.0	6.2	5.2	6.8	7.6	8.2	6.3	8.8	5.5	4.4	4.6	7.5	6.1	6.5	6.1
25	5.7	5.2	4.4	4.0	4.0	2.8	4.0 ^Y	(4.8)	6.6	6.8	7.0	6.8	9.1 ^F	8.4	5.8	5.1	5.7	5.6	6.8	7.2	6.2	6.2	5.4	2.6
26	4.6	5.2	3.9 ^B	8.5	12.2	5.8	G	5.2	5.4	6.4	8.6	14.4	8.8	8.3	C	8.4	8.6	9.6	7.0	6.0	4.6 ^B	4.8	5.5	3.0
27	5.5	5.2	4.8	3.6	3.0	3.4	4.4	5.7 ^Y	5.8	13.4 ^B	8.6	7.6	8.8 ^B	7.8	4.4	5.6	8.6	9.2 ^B	8.5	8.7	8.8	7.4	9.5 ^F	9.6
28	7.3	7.4 ^F	5.6	4.4	7.0	4.8	C	5.4	7.2	7.3	6.9 ^F	5.6	6.6	5.7	12.4	9.2	12.8	15.0	13.8	7.6	8.0	5.8	3.8	6.8
29	(6.8) ^Y	9.6	10.4	7.8	7.4	8.8	8.4	6.2	5.8	4.4	5.2	6.8	6.2	6.8	12.0	8.0	8.4	7.4	6.6	7.0 ^B	8.0	8.2	8.4 ^F	5.6
30	5.8 ^F	6.8	3.4	3.4	3.2	2.6	3.4	5.2	6.9	7.5	7.6	8.0 ^F	6.8	6.7	9.8	6.3	5.7	9.4 ^B	8.2	3.8	5.0	7.6	8.9	7.1
31	3.8	4.6	4.2	3.8	4.4	4.6	C	4.6	5.6	7.8	9.8	6.2	7.4	6.8	7.2	7.4	6.7	6.2	8.2 ^Y	7.2	8.0	7.9	5.0 ^Y	
Median Value	4.8	4.6	4.0	3.8	3.4	3.1	3.1	4.4	5.2	6.4	6.8	6.2	6.6	6.6	6.0	6.2	5.6	5.4	5.2	5.0	5.0	5.4	5.2	5.0
Count	31	31	30	31	30	30	28	29	28	29	26	29	29	29	27	29	28	29	28	29	30	29	31	31

Sweep: 12 Mc to 6.5 Mc in 15 min Manual

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

Lat. 31° 12.5' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

(M3000)F2

May 1950

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	2.6	2.8	3.0	2.9	2.8	3.0	2.9	3.2	3.3	2.8	[3.0] ^C	3.1	3.0	2.9	2.9	(2.9) ^F	2.8	3.0	3.0	2.9	2.9	2.8	2.8	2.7	
2	2.7	2.8	2.9	2.7	2.7 ^H	2.9 ^H	3.1	2.9	C	C	C	C	C	C	C	C	C	C	C	C	C	3.0	2.5	2.5	2.7
3	2.5	2.6	2.6	2.6	2.6	2.7	2.9	2.9	2.9	2.6	2.6	2.5	2.6	2.7	2.7	2.7	2.7	3.0	2.8	2.8	2.9	2.8	2.8	2.7	
4	2.5	2.7	2.8	2.7	C	C	3.3 ^F	3.2	3.0	2.7	2.7	2.8	2.9	2.8	2.7	2.8	2.9	2.9	3.0	3.0 ^H	3.0	2.6	2.6	2.6	
5	2.7	2.8	2.8	2.6	2.7	2.5 ^V	3.2	3.2	3.1	2.8	(2.7) ^F	2.8	2.9	2.7	2.8	2.7	2.9	2.8	2.7	2.8	2.9	2.7	2.3	2.6	
6	2.6	2.7	2.7	2.7	2.8	2.9	2.9	3.0	3.0	3.0	2.6	2.7	2.7	2.7	2.7	2.8	2.9	2.8	2.8	2.8	2.8	2.7	2.5	2.5	
7	2.6 ^H	2.7	2.7	2.7	2.7	2.9 ^H	3.0	3.0	3.1	2.8	2.9	2.7	2.8	2.8	2.8	2.8	2.9	2.8	(2.9) ^F	3.0	2.8	2.5	2.6	2.6	
8	2.6 ^F	2.6	2.8	2.9	2.6	2.8	2.9 ^H	3.1	3.1	2.8	3.0	2.7	2.7	2.7	2.6	2.6	2.6	2.8	3.0	3.0	2.8	2.7	2.6	2.5	
9	2.7 ^H	2.7	2.9	2.6	2.8	2.9	3.1	3.0	3.0	2.8	2.7	2.7	2.7	2.7	2.6	2.6	2.7	2.9	3.1	2.8	2.8	2.7	2.6	2.5	
10	2.8	2.8	2.9	3.0	2.9	2.8	3.2	3.0	3.0	2.7	2.5 ^H	2.6	2.6	2.6	2.6	2.6	2.8	2.8	3.0	3.0	(2.7) ^F	2.7	2.7	2.8	
11	3.0	2.8	2.7	2.8	2.8	2.8	3.1	3.1	3.0	2.7	2.6 ^H	2.7	2.8	2.8	2.8	2.8	2.9	2.8	3.1	3.2	3.1	2.7	2.9	3.0	
12	2.8	2.9	2.8	2.9	2.9	2.9	3.0	3.1 ^H	2.8	2.8	2.6 ^H	2.7	2.8 ^H	2.9	2.8	2.9	2.9	2.8	2.8	2.9	2.8	2.8	2.7	2.8	2.8
13	2.9	2.9	3.0	2.6	2.6	2.6	2.7	3.0	2.9	2.8	2.7	2.6 ^H	2.7	2.7	2.7	2.8	2.9	2.9	2.8	3.1	2.6	2.5	2.5 ^H	2.6	
14	2.9 ^H	2.8	3.0	2.9	2.9	3.2	3.1	3.3	2.8	2.7	2.9	2.7	2.8	2.7	2.7	2.8	(2.8) ^F	2.7	2.8	3.0	3.0	2.5	2.6 ^F	2.5 ^F	
15	(2.9) ^F	F	3.2 ^F	3.3 ^F	(2.9) ^F	2.5 ^F	3.0	3.2	[3.1] ^F	3.0	3.4	(2.6) ^F	2.6 ^H	2.6	2.7	3.1	2.8	3.0	3.1	3.2	2.6 ^F	2.4 ^F	(2.7) ^H	2.6	
16	2.7	2.7	2.8	2.7	2.9	2.8 ^H	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	2.6	2.6	2.6	
17	2.7	3.0	2.9	3.0	2.7	3.0	3.2	3.2	3.4	3.2	[3.0] ^C	2.9	2.9	2.6	2.8	2.6	2.8	2.9	2.9	2.8	3.0	2.7	2.5 ^H	2.6	
18	2.6	2.5	(2.5) ^H	2.7 ^H	2.9	2.6 ^H	2.9	2.8	2.8	2.8	2.6	2.6	2.7	2.8	2.9	2.9	3.0	2.8	3.0	3.1	3.3	3.2	3.0	3.0	
19	3.0	2.7	2.9	2.6	3.1 ^H	2.8 ^V	3.1	3.5	3.1 ^F	3.0	2.7	2.4	2.7	2.8	2.8	2.8	2.8	2.9 ^H	2.8	2.9	2.9 ^H	2.6	2.7	2.6 ^F	
20	2.6 ^F	2.7	2.7	2.8	2.7	3.0	3.2	3.3	3.0	3.0	2.8 ^H	A	2.5	2.6	2.7	2.7	2.6	A	2.9	A	2.7	2.6	2.6 ^H	2.6 ^F	
21	2.7	2.8	3.0 ^F	2.9 ^H	2.7	2.8 ^F	3.1 ^F	3.0	2.7 ^H	2.7	2.7	2.7	2.8	2.7	2.6	2.8	2.9	3.0	3.0	3.0	2.7	2.6	2.6	2.6	
22	2.6	2.6	3.1	3.1	3.0	2.9	3.6	3.1	3.1	3.0	3.1	2.9	2.7	2.7	2.7	2.8	2.9	3.0	3.0	2.8	2.8	2.7	2.5	2.7 ^F	
23	2.6 ^F	(2.6) ^F	(2.8) ^F	(2.9) ^F	(2.7) ^F	(2.5) ^H	2.8 ^F	2.9	3.0	3.3	[3.0] ^C	2.8	2.9	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.9	2.8	2.6	2.6	
24	2.5 ^F	(2.5) ^H	2.8	2.9	2.9	2.9	2.9	2.7	2.9	2.9	2.9	2.5	2.6	2.7	2.7	2.8	2.7	2.9	3.0	2.8	2.8	3.0	3.0	3.0	
25	2.8 ^F	2.7	2.7	(2.8) ^F	2.5 ^F	2.5	3.1	3.3	3.2	3.0	2.7	2.6	2.7	2.6	2.6	2.7	2.8	2.7	2.8	2.9	2.8	2.7	2.6	2.5	
26	2.6	2.6 ^V	2.7	2.7 ^F	2.8 ^V	3.2	3.2	3.2	2.9	2.9	2.8	A	2.7	2.7	[2.7] ^C	2.7	2.7	3.0	2.9	2.8	2.6 ^F	2.5	2.6	2.6	
27	2.6	2.8	3.0	2.7 ^F	2.7 ^F	3.1 ^F	3.3 ^F	3.1 ^F	2.6	A	2.7	2.5	2.6	2.6	2.7	2.8	2.8	2.9	2.9	2.8	2.6 ^F	2.5	2.6	2.6	
28	3.0	2.8	(2.6) ^F	F	F	2.9	[3.0] ^C	3.1	3.1 ^Z	3.2	3.1	2.5	2.6	2.5	2.5	2.7	A	A	2.5	2.9	2.8	2.5	2.4	2.5	
29	2.5	2.5 ^Z	2.6	2.9	2.6	2.8	3.2	3.4	3.2	3.2	3.1	2.9	3.0	3.1	A	3.4	2.9	2.7	2.9	3.0	2.6	(2.7) ^F	(2.8) ^F	(2.7) ^F	
30	(2.7) ^F	(2.7) ^F	2.9	(2.9) ^F	2.8	2.9 ^F	3.3	3.1	3.2	2.8	2.7	2.7	2.6	2.8	2.7	2.5	2.8	3.0	2.9	3.0	(3.1) ^F	2.7	2.8	(2.6) ^F	
31	(2.6) ^F	(2.9) ^F	F	2.9	2.8	2.9	[3.0] ^C	3.2	3.2	2.9	A	2.5 ^H	2.7	2.7	2.7	2.9	2.9	3.1 ^H	(3.0) ^F	3.0 ^F	(2.9) ^F	(2.8) ^F	2.9	2.7	
Median Value	2.7	2.7	2.8	2.8	2.8	2.8	3.1	3.1	3.0	2.8	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.9	2.9	2.9	2.8	2.7	2.6	2.6	
Count	31	30	30	30	29	30	30	30	29	28	28	27	29	29	28	28	28	26	29	28	30	31	29	29	

Frequency in Mc in 15 min Manual

Radio Regulatory Agency (Denpacho)

Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

IONOSPHERIC DATA

May. 1950

fmin F

Yamagawa

Lat. 31° 14.5' N
Long. 130° 37.7' E

136° E Mean Time

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	A	1.6	1.6	1.6	1.6	1.6	A	2.9	3.5	4.2	(4.2)C	4.2	4.4	4.8	A	A	3.6	3.4	2.4	A	A	A	A	A
2	A	A	(1.8)A	1.5	1.4	1.4	2.0	2.9	C	C	C	C	C	C	C	C	C	C	C	A	AF	A	A	A
3	A	A	1.5	A	1.8A	1.9	2.0	A	A	3.8	3.6	4.6	4.3	A	A	A	A	A	A	1.6	1.5	1.6	A	A
4	A	A	1.3	E	C	C	2.6	N	3.0	3.6	3.7	4.3	4.5	4.5	4.6	4.1	3.6	3.5	2.7	1.8	1.4	3.2	1.5	1.4
5	A	A	A	A	1.6	1.4	2.0	3.4	3.6	4.3	4.2	4.3	4.5A	4.7	A	4.5	4.3	3.5	A	A	A	1.5	1.5	1.5
6	1.8	A	A	A	A	1.6	2.3	3.4	4.2	4.2	A	4.8A	A	5.0	4.2	4.0	3.8	3.4	2.7	A	A	1.9	1.5	1.7
7	1.5A	1.8	A	1.8	1.7	1.9	A	3.0	3.8A	3.8	4.2	4.4	A	4.2	4.4	4.2	A	3.4	C	A	A	1.5	A	A
8	A	A	A	1.4	1.8A	1.4A	2.4	3.1	4.2	3.9	4.0	4.1	4.3	4.4	A	4.4	A	(3.6)A	A	A	A	A	1.8	1.4
9	1.3	E	1.4	E	1.5	1.5	2.1	3.2	3.6	4.2	A	4.2	4.6A	A	A	A	A	A	A	A	1.9A	A	1.8A	A
10	A	1.5A	A	1.8A	1.3	1.4	2.1	3.0	3.7	4.4	A	4.6	4.4	4.4	4.7	A	A	A	A	A	A	A	A	A
11	A	A	A	1.6	1.6	1.4	2.2	3.0	3.6	A	A	A	A	A	A	A	4.6	4.3A	A	A	A	A	1.8	A
12	1.4A	1.8	1.6	1.6	1.4	1.8	2.3	2.9	3.3	3.6	A	4.2	A	4.6	4.5A	A	3.8	A	A	A	A	A	1.8	A
13	A	A	A	A	1.5A	A	1.8	3.2	3.4	3.6	3.8	A	4.6	4.4A	A	A	3.8	A	3.5A	2.6	A	A	1.5	1.8
14	1.6	1.7	1.6	1.8	1.6	1.8	2.4	3.0	3.4	4.2	4.4	4.4	A	4.6A	4.2	3.7	(3.4)C	3.2	3.0	2.0	2.0A	A	1.3	A
15	A	AF	A	A	1.8	1.4	2.2	3.0	C	C	C	4.6	4.2	4.2	4.2	A	A	A	A	1.7	A	A	1.4	A
16	A	A	A	1.8	A	1.8	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	A	1.8
17	1.7	1.4	1.4	1.6	E	A	3.1	3.0	3.3	4.4A	(4.8)C	5.1	A	A	A	A	A	3.4	2.8	A	A	A	1.8	A
18	1.8	A	A	A	A	E	2.0	3.0	A	A	3.8	4.4	5.7	5.2	A	A	A	A	A	A	2.5	A	A	A
19	A	1.4	1.4	A	A	1.8	2.4	3.2	3.4	4.3	4.2	4.4	4.4	4.5	4.1	4.1	A	A	A	1.9	1.7	A	A	A
20	A	1.6A	A	A	A	1.4	2.6	A	A	4.2	A	A	4.6	4.6	4.2	4.4	3.8	A	A	A	A	A	1.8	A
21	A	A	A	E	E	1.4	2.6	3.3	3.4	A	4.2A	4.4	A	A	4.2A	A	A	3.2	2.8	2.2A	A	A	A	A
22	A	A	A	1.7	(1.8)A	(1.8)A	2.9	3.0	A	3.8	A	A	A	A	4.2	A	4.4A	3.3	3.0	A	A	A	A	A
23	1.5	1.8A	1.9A	A	1.8	A	3.0	A	A	A	C	A	4.6	A	A	A	A	3.8	3.0	2.4	A	1.8	A	A
24	A	A	A	A	A	A	2.6	3.2A	7.0	A	A	A	A	A	A	A	A	3.8A	3.0	A	A	A	A	A
25	1.9	A	A	A	A	1.8	2.1	2.9	A	A	A	4.3	4.5A	A	A	A	4.4	3.4	A	A	A	A	A	A
26	A	A	A	A	A	A	2.3	3.0	A	A	A	A	4.4	A	C	A	A	A	A	A	A	1.8	A	A
27	A	A	A	1.8	1.6	A	2.2	A	A	A	4.4	A	A	A	4.2	4.4	A	A	A	A	A	A	A	A
28	A	A	A	A	A	A	C	A	A	A	4.2A	4.3	4.8A	A	A	A	A	A	A	A	A	A	A	A
29	A	A	A	A	A	A	A	A	A	3.8	4.6A	A	A	A	A	A	4.2A	A	A	A	A	A	AF	AF
30	A	A	A	A	A	2.0A	2.2	3.0	A	A	A	A	A	A	A	A	A	3.8A	3.0	A	A	A	A	A
31	A	A	(1.6)A	A	A	A	C	2.6	2.8	A	A	A	A	4.6	4.4	A	A	A	A	A	A	A	A	A
Median Value	1.6	1.6	1.6	1.6	1.6	1.6	2.3	3.0	3.5	4.2	4.2	4.4	4.4	4.6	4.2	4.3	3.8	3.4	3.0	2.1	1.6	1.7	1.5	1.6
Count	9	10	11	15	18	21	25	23	17	17	15	18	16	15	14	10	11	14	12	10	6	8	9	9

Radio Regulatory Agency (Denpacho)
Aoyama-Kita-machi, Minato-Ku, Tokyo, Japan

Lat. 31° 12.5' N
Long. 130° 37.7' E

Yamagawa

135° E Mean Time

May, 1950

fminE

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	E	B	1.6 ^B	1.6	1.6	1.6	1.9	2.2	[2.4] ^C	2.6	2.8	2.8	2.6	2.2	2.2	2.0	1.6	1.4	1.5	1.4	1.5	1.5
2	1.6	1.4	E	E	E	1.6	1.6	1.6	C	C	C	C	C	C	C	C	C	C	C	1.5	1.5	1.5	1.5	1.4
3	1.3	1.3	1.3	1.4	1.4	1.6	1.6	1.8	1.8	1.9	2.0	2.1	2.0	2.3	2.0	2.0	1.9	2.0	1.7	B	1.5	B	1.6	1.6
4	1.5	1.4	E	E	C	C	1.6	1.8	1.8	1.8	2.1	2.1	2.1	2.1	2.1	2.1	1.9	1.4	1.3	1.4	E	B	B	1.4
5	1.4	E	E	1.3	1.4	E	1.6	B	2.0	2.1	2.8	2.4	2.7	4.4	3.4	2.5	1.8	2.1	1.6	1.4	1.5	B	B	B
6	1.3	1.3	1.4	1.4	E	1.4	1.4	1.8	2.1	2.1	2.4	2.4	2.8	2.6	3.0	2.8	2.8	1.7	1.4	1.4	1.5	1.5	B	1.5
7	1.5	E	E	1.4	B	1.5	1.4	2.0	2.2	2.2	2.2	2.4	2.2	2.2	2.6	2.2	2.2	1.7	[1.6] ^C	1.5	1.5	B	1.4	E
8	E	E	E	E	E	1.4	1.6	1.7	1.7	2.0	2.1	2.2	2.8	3.0	2.9	2.7	2.5	1.9	1.7	1.3	1.4	1.4	1.5	E
9	E	E	E	E	1.6	1.5	1.6	1.6	1.6	1.8	2.0	2.4	3.0	3.0	2.2	2.2	1.8	1.9	1.4	1.4	1.4	1.5	1.5	1.5
10	1.4	1.3	1.3	E	1.3	E	1.4	1.4	1.6	2.2	1.8	2.1	2.1	2.7	2.1	2.0	1.8	2.1	1.7	1.7	1.6	1.4	1.3	1.3
11	1.3	1.3	1.4	E	1.4	1.8	1.6	1.8	1.8	2.1	2.1	2.4	2.2	2.3	2.1	1.9	1.9	1.9	1.8	1.4	1.4	E	1.6	E
12	1.4	E	1.4	B	E	1.5	1.6	1.4	1.9	2.3	2.1	2.2	2.2	2.0	2.1	2.7	1.8	1.8	1.3	1.4	1.4	1.4	1.4	1.4
13	E	E	E	E	E	1.4	1.4	1.3	1.6	2.1	2.0	2.1	2.2	2.2	2.1	2.1	2.0	1.6	1.4	1.4	1.5	1.5	1.5	1.4
14	E	1.5	1.4	1.4	1.8 ^F	1.4	1.5	1.6	1.6	1.8	2.2	2.1	2.4	2.2	2.1	2.2	[2.0] ^C	1.9	1.6	1.5	1.4	1.5	1.5	1.3
15	E	E	E	E	E	E	1.3	1.5	C	2.4	2.2	2.2	2.4	1.6	2.6	2.2	2.0	1.7	1.6	1.3	1.4	1.3	1.4	1.4
16	E	1.4	E	E	2.0	1.8	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	1.4	1.4	1.4
17	E	E	E	B	E	1.4	1.6	1.8	1.7	2.9	[2.6] ^F	2.3	2.4	2.7	2.2	2.2	2.1	2.0	1.6	1.5	1.4	1.4	1.4	1.4
18	1.3	1.3	1.3	1.3	E	1.6	1.4	1.5	2.2	2.0	2.1	2.9	3.2	2.6	2.9	2.3	1.9	1.8	1.8	1.7	1.6	1.6	1.5	1.5
19	1.5	2.2	B	1.8	1.6	B	1.6	1.5	1.5	1.9	2.4	2.3	2.1	2.1	2.1	2.4	1.9	1.8	1.6	1.3	1.5	1.4	1.4	1.3
20	E	1.4	E	E	E	E	1.6	1.6	1.6	2.1	4.8	4.2	3.2	(2.5) ^B	2.4	2.1	1.8	1.8	1.4	1.6	1.4	1.4	1.4	1.4
21	E	E	E	E	E	E	1.6	1.7	1.8	2.0	2.4	2.9	2.4	3.0	3.0	3.0	2.2	2.1	1.4	1.3	1.4	1.4	E	E
22	E	1.4	1.5	1.5	1.4	1.4	1.5	1.7	2.0	2.0	2.2	2.6	2.6	3.2	2.3	2.2	2.1	2.1	1.8	1.4	1.4	1.5	1.5	1.3
23	E	E	E	E	E	1.4	1.5	1.5	1.8	2.3	[2.6] ^C	2.8	2.6	2.9	2.8	2.4	2.7	1.7	1.8	1.3	E	1.8	1.3	1.3
24	E	1.4	E	E	1.4	1.6	1.8	1.8	1.7	1.9	2.0	2.2	2.4	2.4	2.0	2.0	2.0	1.9	1.8	1.6	1.5	1.5	1.5 ^F	1.5 ^F
25	1.5	E	E	E	E	1.4	1.6	1.4	1.8	1.8	2.0	2.0	2.7	2.9	2.4	2.1	1.7	1.8	1.5	1.4	1.4	1.4	1.5	1.4
26	1.3	E	E	E	E	1.3	1.5	1.4	1.8	2.0	2.0	2.8	3.0	2.2	[2.2] ^C	2.2	2.0	2.0	1.8	1.4	1.5	1.5	1.4	E
27	E	E	E	E	E	1.4	1.4	1.5	2.8	2.8	2.8	2.6	2.6	2.7	2.5	2.4	2.0	1.9	1.7	1.7	1.5	1.6	1.6	1.6
28	1.5	1.5 ^F	1.4	E	E	1.4	[1.5] ^C	1.6	1.7	1.7	1.9	2.1	2.4	2.4	2.3	2.1	1.8	2.0	2.1	1.6	1.6	1.4 ^B	1.6	E
29	1.4	1.4 ^F	E	E	E	1.4	1.6	1.8	1.8	1.8	2.2	2.2	2.4	2.8	2.4	2.0	1.8	1.6	1.6	1.4	1.4	1.5	1.4 ^F	1.3
30	E	E	E	E	E	1.3	1.3	1.6	1.9	2.5	2.6	2.7	2.8	2.8	2.7	2.8	2.3	1.5	1.3	1.4	1.4	1.4	1.4	E
31	E	E	E	E	1.4	1.4	[1.5] ^C	1.6	1.6	1.4	1.5	2.0	1.9	1.8	1.9	B	2.8	2.2	1.9	1.8	1.8	1.8	1.7	1.7
Median Value	1.3	1.3	E	E	E	1.4	1.6	1.6	1.8	2.0	2.1	2.3	2.4	2.6	2.4	2.2	2.0	1.9	1.6	1.4	1.4	1.4	1.5	1.4
Count	31	31	30	28	29	29	30	29	28	29	29	29	29	29	29	28	29	29	29	29	30	27	28	30

Sweep 1.2 Mc in 18.5 Mc in 15 min Manual

Y 11

IONOSPHERIC DATA IN JAPAN FOR MAY 1950

電波觀測報告 第2卷 第5號

1950年6月25日印刷

1950年6月30日發行

(不許複製非賣品)

編集兼
發行 人

莊 宏
東京都港區青山北町4丁目1

發行所

電 波 廳
東京都港區青山北町4丁目1
電話 赤坂(48) { 3913-3915
 { 3991-3995

印刷所

統計印刷株式會社
東京都千代田區飯田町1丁目34番地