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IONOSPHERIC DATA IN JAPAN

FOR JUNE 1956

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Prepared by

THE RADIO RESEARCH LABORATORIES

KOKUBUNJI, TOKYO, JAPAN

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THE RADIO RESEARCH LABORATORIES

KOKUBUNJI, TOKYO, JAPAN

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SYMBOLS AND TERMINOLOGY

The following symbols and terminology have been used in accordance with the recommendation of the International Scientific Radio Union (U.R.S.I.), Zürich, 1950 and at the Sixth Meeting of the International Radio Consultative Committee (C.C.I.R.), Geneva, 1951.

f_0E f_0F1 f_0F2	}	ordinary-wave critical frequency for the E , $F1$ and $F2$ layers respectively
fE_s		highest frequency on which echoes of the sporadic type are observed from the lower part of the E layer
$h'E$ $h'F1$ $h'F2$	}	minimum virtual height on the ordinary-wave branch for the E , $F1$ and $F2$ layers respectively
h_pF2		virtual height of the $F2$ layer measured on the ordinary-wave branch at a frequency equal to $0.834 f_0F2$
$ypF2$		semi-thickness of the $F2$ layer deduced from a parabolic fit to the "nose" of the electron density distribution with height and based on the observed $h'f$ trace. (The difference between h_pF2 and the virtual height at $0.969 f_0F2$)
$(M 3000)F2$		maximum usable frequency factor for a path of 3000 km for transmission by $F2$ layer
$f_{\min}E$ $f_{\min}F$	}	frequency below which no echoes are observed for the E and F regions respectively
()		doubtful value
[]		interpolated value
A		characteristic not measurable because of blanking by E_s
B		characteristic not measurable because of absorption either partial or complete, and probably non-deviative in type
C		characteristic not observed because of equipment or power failure
D		before a number (or >): greater than alone: characteristic at a frequency higher than the normal upper frequency limit of the equipment
E		before a number (or <): less than alone: characteristic at a frequency lower than the normal lower frequency limit of the equipment
F		spread echoes present
G		a) $F2$ -layer critical frequency equal to or less than $F1$ -layer critical frequency b) no E_s (or $E2_s$) echoes observed though regular E (or $E2$) layer echoes are present (i.e., a symbol for daytime usage)
H		stratification observed within the layer

J	ordinary wave characteristic deduced from measured extraordinary-wave characteristic
K	ionospheric disturbance in progress (this is always applied to a series of hourly values, never to an isolated value)
L	a) <i>E1</i> -layer characteristic emitted or doubtful because no definite or abrupt change in slope of the <i>h'f</i> curve is observed either for the first reflection or any of the multiples b) <i>h'F2</i> omitted because the <i>F2</i> -layer trace is continuous with the <i>F1</i> -layer trace and without a point of zero slope
M	characteristic not observed because of some failure or emission on the part of the operator, rather than owing to any mechanical or electrical fault in the equipment or its power supply
N	nature of the record is such that the characteristic cannot readily be interpreted
P	trace extrapolated to critical frequency (it is unnecessary to use this letter for small extrapolations of one or two percent, but use should be made of symbol of () if the extrapolation leads to a critical frequency which exceeds the last observed point on the trace by more than five percent)
Q	distinct layer not present
S	characteristic observed by interference or by atmospherics
T	loss or destruction of successful observations
U	<i>h_p</i> or <i>y_p</i> not measurable, for instance, because ordinary-wave trace has horizontal tangent at or above the frequency $0.834 f_oF_2$
V	trace forked near critical frequency
W	characteristic at a virtual height greater than the normal upper height limit of the equipment
Y	<i>E_s</i> trace intermittent in frequency range very short pieces of trace at the high frequency and should be ignored since they may be presumed to be due to short-lived echoes
Z	third magnet-ionic component of the <i>h'f</i> trace is observed

SITES OF THE RADIO WAVE OBSERVATORIES

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

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

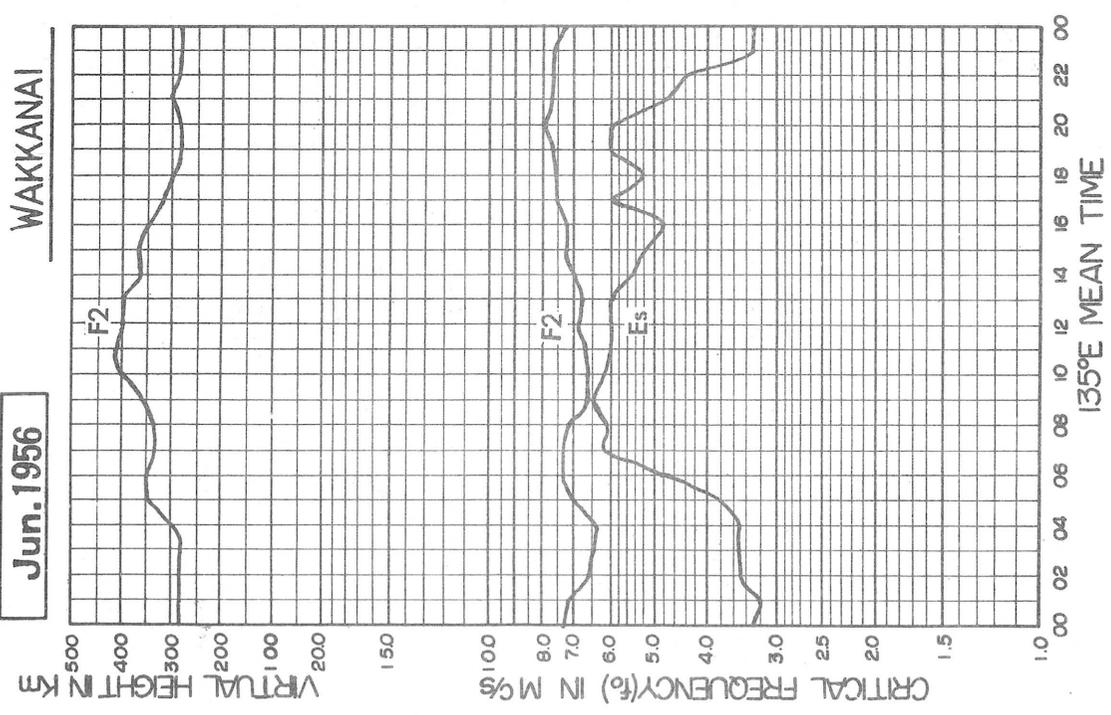
Solar radio emission is observed at Hiraiso Radio Wave Observatory.

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

IONOSPHERIC DATA
MONTHLY MEDIAN CHARACTERISTICS

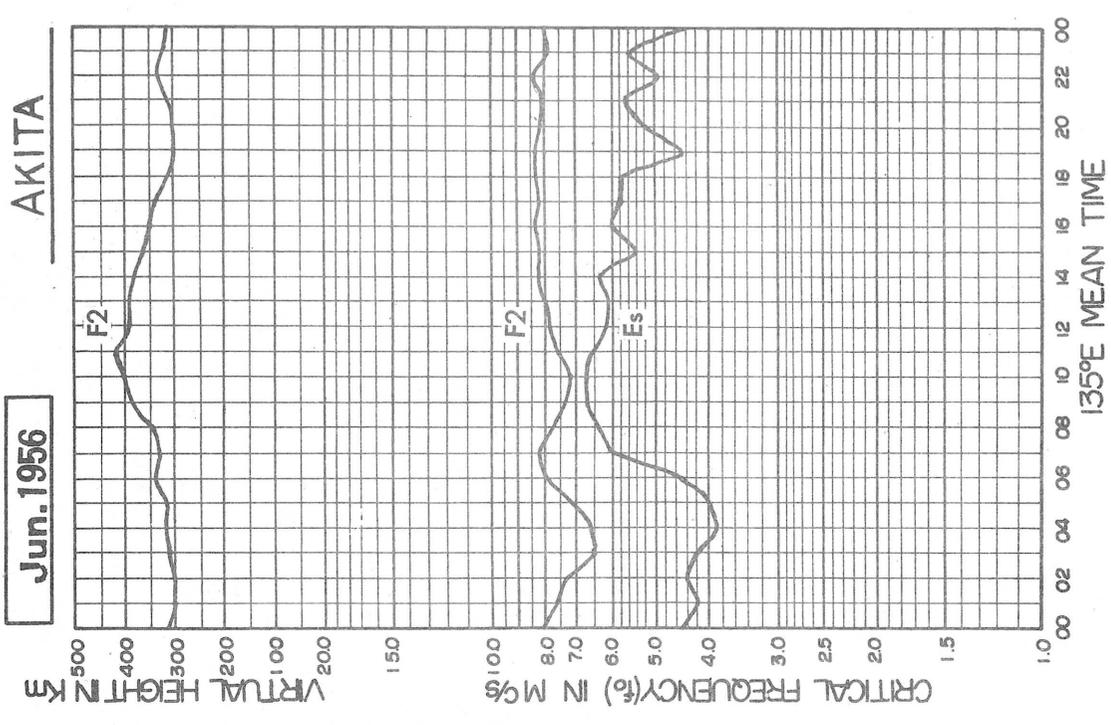
Jun. 1956

WAKKANAI



Jun. 1956

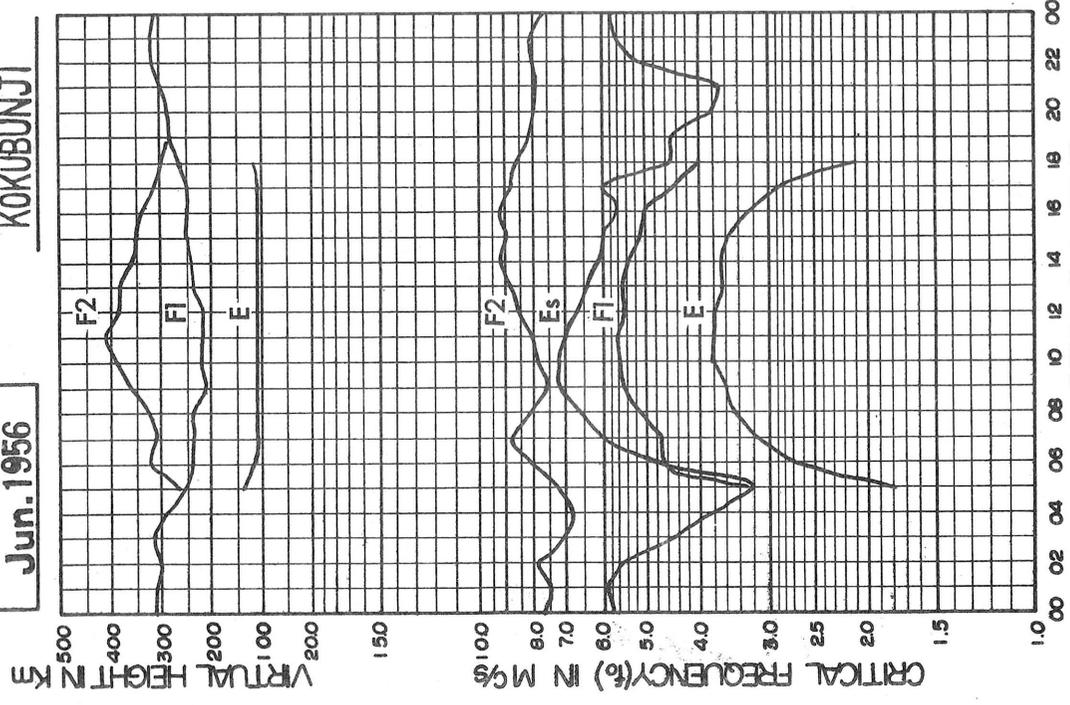
AKITA



IONOSPHERIC DATA
MONTHLY MEDIAN CHARACTERISTICS

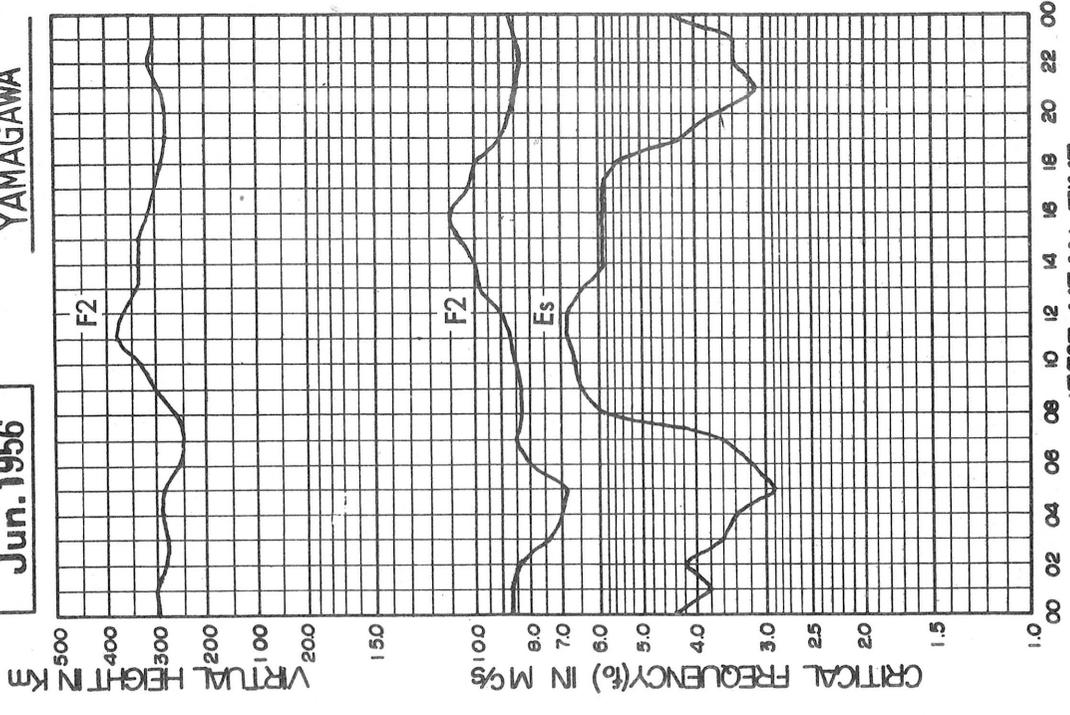
Jun. 1956

KOKUBUNJI



Jun. 1956

YAMAGAWA



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

Lat. 45° 23.6' N
Long. 141° 41.1' E

Wakkanai

IONOSPHERIC DATA

136° E Mean Time

foF2

Jun. 1956

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	7.3 ^J	7.0	7.0	C	C	7.8	8.6	8.0	9.0	8.2	8.0	8.2	7.8	8.1	7.5 ^F	8.0	7.5	8.0	7.8	7.2	7.3 ^J	7.8	7.6 ^J	7.5
2	7.2	6.7	6.6	6.3	6.0	7.3	7.3	6.2	5.8	A	A	6.5	6.1	6.1	5.9	6.0 ^A	6.2	6.0	7.4	A	A	(7.0) ^F	7.4 ^F	7.0
3	6.7	7.0 ^J	6.1	6.5 ^F	5.8	6.2	6.6	6.5	B	A	A	A	A	A	A	5.8	5.8	5.9	6.5	6.3	6.5	6.5	F	F
4	7.0 ^J	6.5 ^F	6.3 ^J	5.9	(5.9) ^F	6.3 ^F	7.7	7.8	A	A	A	A	6.2	6.0	6.1	6.6	6.6	6.5	6.5	A	A	7.3 ^J	7.3 ^J	7.0 ^F
5	F	F	6.3	(6.3) ^F	(6.3) ^F	5.8	8.5 ^M	9.5	B	B	6.6	6.7 ^F	7.6 ^F	7.3	A	A	7.1	7.3	(7.4) ^F	7.5	(7.6) ^F	(7.8) ^F	A	A
6	F ^S	F ^S	7.5 ^R	6.5	6.0 ^F	6.5	7.1 ^J	6.7 ^J	A	A	6.3 ^F	6.4 ^F	(6.4) ^F	6.3	6.5	6.7	7.2	7.5	7.5	7.3 ^P	6.8 ^P	7.3	(7.4) ^F	7.5 ^F
7	7.0 ^J	6.7	(6.0) ^F	6.5 ^F	6.3	7.0	6.3 ^J	6.5	6.5	(6.2) ^A	5.8 ^F	5.8 ^F	A	A	5.6	5.8	6.2	A	A	6.7	7.5	7.5	7.5 ^J	7.1 ^J
8	6.8 ^F	6.8	6.3 ^F	6.3	5.8	6.0	6.6	6.2	6.2	5.8	(5.8) ^A	5.8	6.3	6.7	7.3	7.8	7.3	7.5	7.3	(7.6) ^J	7.8	8.2 ^F	7.5 ^F	(7.6) ^J
9	7.0	6.5	6.5	6.3	(6.6) ^F	7.0	8.0	9.0 ^J	7.2	6.5	5.9	(5.9) ^P	5.9	(5.7) ^P	5.5	5.9	6.1	6.1	6.8	6.8 ^J	7.3	(7.2) ^A	7.2 ^F	7.2
10	6.5	6.5	6.2	6.0	6.8	7.0	6.2	A	6.0	A	A	A	A	A	5.9	6.1	6.1	5.8	5.9	6.5	7.5	8.0	8.2	7.5 ^J
11	7.0	6.5	6.5	6.3	6.0 ^M	7.0	7.3 ^J	7.7	6.6	6.6	6.3	6.7 ^F	7.0	7.0	7.5	7.8	7.8	7.6	7.8 ^J	(8.0) ^A	8.2	8.2	8.0	7.5 ^J
12	7.0	7.5 ^J	F	F	8.0	8.0	7.5	6.5	6.8	6.4	5.8 ^M	6.3	(6.4) ^A	6.4	6.6	6.6	6.2	6.5	6.8	7.7	8.0	8.2	8.3 ^F	7.8 ^F
13	7.6	7.3	6.8	6.5	6.4	6.5	6.8	7.5	7.7	6.8	7.2	7.8	8.3 ^J	8.8 ^J	7.8 ^F	7.7 ^M	7.9	7.8	7.7	8.0	8.2	F ^S	F ^S	F ^S
14	F	8.0	7.3 ^J	6.8	7.0	6.7	7.5	7.3 ^J	7.8	6.6	6.9	6.7	7.4	(7.3) ^B	7.2	7.7	7.6	7.6	7.7	7.7	8.0	7.3 ^J	7.5 ^F	8.0
15	7.7	8.0	7.6	7.3	6.6	7.1	7.6	7.3 ^J	7.6	7.0	6.8 ^J	6.7	7.1	6.5	7.3 ^J	7.5	7.7	7.4	7.8	8.1	8.0	(8.0) ^J	7.9	8.3 ^J
16	8.5	8.1	7.9	7.8	7.5	7.2	8.1	8.1	9.3 ^J	8.8 ^J	7.5	8.0	9.8 ^J	8.8 ^J	8.8 ^J	8.0 ^M	8.5 ^M	8.8	9.5	9.3 ^J	7.5	8.8 ^F	9.0	9.0
17	9.0 ^F	9.2	9.0 ^F	7.7	8.0	6.9	7.2	7.8	8.0	8.0	7.9	7.0	7.1	7.7	7.1	7.8	7.8	8.1	8.1	8.0	8.0	8.0	8.0	8.1
18	F ^S	F ^S	7.6	7.0	7.1	7.9	8.0	7.9 ^F	8.8 ^J	7.1 ^F	7.5 ^F	(7.5) ^F	(7.5) ^F	(7.8) ^F	8.0	7.8	7.8	(7.9) ^B	8.0	8.0	8.0	8.1	8.1	8.0
19	7.8 ^F	7.6	7.0	7.0	6.4	7.0	7.9	7.0	6.7	6.3	A	A	A	A	A	7.2	7.0	2.2	2.3 ^J	7.0	7.8	A	A	
20	7.8 ^J	7.4	(7.3) ^F	7.1	7.6	8.1	9.4	9.1	(7.5) ^M	7.8	7.0	7.0 ^J	7.3 ^J	7.5	6.8 ^F	7.3	7.8	7.7	7.8	(8.8) ^J	8.5	8.3 ^J	8.3 ^F	8.1
21	8.0	8.1	8.0	8.0 ^F	8.2	8.5	10.0 ^F	9.5	10.0	A	A	8.1	7.5 ^J	7.8	7.9	7.6	A	A	8.0	8.1	8.2	A	A	A
22	F ^S	F	F	F	7.5	7.9	7.9	A	8.0 ^F	7.7	6.0	(6.8) ^A	7.5	A	A	A	8.0	A	A	A	A	A	A	A
23	F ^S	F ^S	F ^S	7.8	7.8	8.0	7.5	7.6	7.8	A	A	A	A	A	7.8	7.7	7.8	7.7	8.1	8.0	8.3 ^J	7.5 ^J	9.1	8.0
24	8.5	8.0	7.7	7.0	7.0	6.3	7.0	C	C	C	C	C	C	C	C	C	C	C	7.4	(7.7) ^A	8.0	7.5 ^F	(7.3) ^S	
25	7.5 ^J	7.3	6.6	6.1	6.2	6.7	7.0	6.3	5.7	6.3	6.0 ^F	6.4	6.8	6.5 ^F	6.5 ^F	6.5	7.5	7.8	7.5	A	A	6.5	6.4	
26	6.6	(6.0) ^F	5.8 ^F	5.3 ^F	5.5 ^F	6.0	(6.9) ^A	7.8	A	A	A	A	6.5 ^F	6.8	7.1	7.2	6.9	7.7	8.1	8.0	8.0	(7.1) ^S	8.2	
27	7.8 ^F	7.5	(6.6) ^F	5.7	5.3	6.0	6.0	5.6	A	A	5.8 ^F	A	A	B	B	5.6	5.7	6.0	6.0	5.5	6.0	6.6	6.8	
28	6.8 ^J	5.8	5.2	(5.0) ^F	4.7	5.3	5.3	(5.5) ^A	5.7	A	A	B	B	5.5	(5.6) ^B	5.6	5.7	6.0	A	6.5	A	F	7.5	
29	F	F	F	F	5.3 ^F	5.8	6.0	(5.9) ^A	5.8	5.8	A	A	6.3	6.5	6.7	6.6 ^F	6.6	7.0	6.7 ^F	7.0	7.0	7.7	7.5 ^J	
30	7.8 ^F	5.9	6.3 ^J	5.6	5.5	6.1	7.2	6.9	6.5	5.8 ^F	(6.0) ^A	6.3	6.2	7.0	6.6	6.6	A	A	6.8	7.0	7.8	8.0	7.3 ^J	
31																								
Mean Value	7.4	7.2	6.9	6.6	6.5	6.7	7.4	7.3	7.3	6.8	6.7	6.8	7.0	7.0	6.9	7.0	7.1	7.3	7.4	7.5	7.7	7.6	7.8	7.6
Median Value	7.3	7.2	6.6	6.5	6.4	7.0	7.3	7.3	7.2	6.6	6.6	6.7	6.9	6.8	7.0	7.2	7.2	7.5	7.5	7.6	7.9	7.7	7.6	7.6
Count	23	24	26	26	29	30	30	27	21	19	19	20	22	23	24	27	26	24	27	26	25	25	24	25

foF2

Group Manual Automatic

W 1

Lat. 45° 23.6' N
Long. 141° 41.1' E

Wakkanai

IONOSPHERIC DATA

135° E Mean Time

Jun. 1956

R'F2

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	280	280	270	C	C	240	L	A	250	240	A	A	400	360	360	320	260	240	270	250	290	290	290	280
2	280	260	270	320	280	240	240	400	240	A	A	410	450	420	440	440	380	350	270	A	A	260	260	290
3	230	200	290	220	200	270	280	270	B	A	A	A	A	A	A	410	410	290	220	270	270	220	220	270
4	270	200	200	250	250	240	240	230	A	A	A	A	420	420	460	370	270	230	290	A	A	280	260	270
5	260	200	200	290	260	270	270	270	260	260	260	420	420	450	460	A	250	A	A	280	290	200	A	A
6	AF	280	250	270	270	410	260	260	A	A	A	420	440	460	400	270	270	270	280	270	260	260	260	270
7	290	270	260	270	270	240	240	240	410	240	240	240	440	460	450	460	270	A	A	280	260	260	260	260
8	290	270	280	260	260	410	260	260	400	440	240	240	420	420	450	450	270	270	290	290	290	260	260	260
9	260	270	280	200	290	270	270	270	270	260	260	260	420	420	450	470	420	250	250	270	270	260	260	260
10	260	260	260	270	200	270	270	270	A	A	A	A	420	420	450	470	420	250	250	270	270	260	260	260
11	270	270	260	280	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
12	270	270	290	280	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
13	270	270	260	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
14	270	270	260	260	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
15	270	270	290	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
16	270	270	270	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
17	280	280	240	250	260	260	260	260	260	260	260	420	420	450	470	420	250	250	270	270	260	260	260	260
18	270	270	280	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
19	270	270	270	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
20	260	270	280	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
21	270	270	280	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
22	A	280	270	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
23	270	270	270	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
24	270	270	270	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
25	270	270	270	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
26	270	270	270	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
27	270	270	270	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
28	270	270	270	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
29	270	270	270	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
30	270	270	270	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
31	270	270	270	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
Mean Value	270	270	270	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
Median Value	270	270	270	270	270	270	270	270	270	270	270	420	420	450	470	420	250	250	270	270	260	260	260	260
Count	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28

R'F2

Jun. 1956

W 2

IONOSPHERIC DATA

Lat. 45° 28.6' N
Long. 141° 41.1' E

Wakkanai

fEs

Jun. 1956

135° E Mean Time

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	E	3.0	3.0	C	C	3.5 ^F	G	6.6	6.2	5.5	7.3	6.5	G	G	G	5.0	4.1	6.0	5.2	3.9	4.1	4.1	4.5	3.5
2	Z.8	E	E	3.5	3.5	G	6.1	6.5	5.0 ^Y	11.7	7.3	5.5	5.5 ^Y	G	6.0	9.5	4.7	6.5 ^Y	4.1	7.7	10.0	6.0	3.0	3.1
3	4.1	5.2	5.0	6.5	3.5	4.0	4.4	4.8	5.2	8.0	7.8	8.5	8.7	9.3	7.6	6.0	G	4.0	3.5	3.1 ^Y	3.3	8.0	6.5	4.8
4	5.0	10.0	8.0	6.5	3.5	G	5.5	6.5	6.6	7.4	9.8	7.8	6.0	6.5	6.1	5.3	G	G	4.0	6.6	12.0	4.0	3.2	4.4
5	3.0	7.0 ^F	5.3 ^F	3.5	2.6	G	G	6.9	8.0	6.9	6.2	6.0	5.5	G	12.0	12.0	G	9.0	11.0	7.0	10.0	7.5	7.5	7.5
6	6.5 ^F	6.0 ^F	4.2	4.5	3.5	4.2	5.6	6.4	10.5	12.5	6.4	6.7	7.2	8.6	6.5	6.0	6.0	6.6	5.7	4.1	4.0	6.0	7.5	3.0 ^Y
7	2.5	2.3	3.3	3.5	2.3	4.1	8.0	6.0	6.2	10.7 ^Y	5.9	6.2	6.5	6.7	5.0	5.3 ^Y	5.8	9.5	8.5	5.9	7.8	3.2	2.7	E
8	3.5	3.2	2.5	E	G	G	4.9	5.1	6.1	5.5	6.4	G	5.2	6.2	6.3	6.7	G	G	3.8	7.2	6.0	E	6.0	4.5
9	2.5	2.3	E	4.5	3.5	3.8	5.3	6.0	5.9	7.2	5.2	G	G	G	G	5.0 ^Y	4.8	G	6.8	5.2	8.5	3.5	E	E
10	E	2.5	3.0	3.3	4.2	4.2	G	5.0	11.8	7.6	8.5	8.0	7.6	7.0	6.0	5.9	G	G	5.2	6.0	7.0	2.3	E	E
11	E	E	3.5 ^Y	3.0	G	G	G	6.2	6.0	6.0	G	6.0	6.3	6.0	G	G	G	G	6.8	8.0	4.9	5.0	4.2	3.8
12	3.5	3.5	3.0	2.5 ^F	3.5	5.2	5.7	G	5.2	5.1 ^Y	5.5	5.2	4.9 ^Y	5.0 ^Y	G	G	G	3.5	G	G	4.2	4.5	7.3	E
13	3.0	3.5	3.5	3.3	4.0	G	4.3	5.3	6.0	6.2	G	G	G	B	G	G	G	G	G	3.6	3.5	E	E	2.9
14	E	E	2.2 ^Y	E	G	G	4.3	5.1	5.2	5.2 ^Y	6.6	5.8	G	G	G	G	G	G	G	4.2	4.2	3.5	E	E
15	3.5	E	E	6.2 ^F	3.5	4.0	4.3	5.1	5.2	5.2 ^Y	6.6	5.8	G	G	G	G	5.0	6.2	5.8	6.0	5.0	7.0	E	E
16	E	2.3 ^Y	E	E	G	G	G	G	5.5	6.4	G	5.8	6.0 ^Y	8.0	6.0	G	5.0	6.2	5.8	6.0	5.0	7.0	E	E
17	E	3.2	4.2	2.2 ^Y	G	G	G	7.1	G	6.5	5.7	5.7	6.5	5.1	5.7	G	5.1	G	5.0	7.3	7.1	7.0	3.0	3.1
18	4.5	5.0	5.1	4.5	3.5	3.7	5.3	5.5	6.6	7.0	G	6.0	G	G	G	G	6.2	6.5	5.2	4.5	2.1	3.5	3.0	4.5
19	4.1	3.3	2.2	E	3.5	3.5	4.0	6.0	6.0	6.5	8.5	7.0	6.5	14.0	10.7	5.2	4.9	G	3.5	2.5	8.0	12.5	10.7	11.0
20	2.5	4.0	3.5	4.5	3.5	4.5	G	6.5	5.3	6.5	G	G	6.1	5.2	7.3	G	6.0	7.0	5.5	4.5	7.8	7.0	E	E
21	3.5	2.5	3.0	2.2	G	G	G	6.8	6.0	12.5	10.5	7.0	6.0	6.0	5.8 ^Y	6.1	7.8	12.5	5.5	6.5	8.5	11.0	10.5	11.5
22	9.0	7.7	9.5	9.5	5.0	7.8	12.5	8.7	9.7	6.5	10.0	10.7	11.0	7.8	8.0	12.5	12.5	13.0	12.7	12.5	12.5	13.3	12.3	10.0
23	10.7	6.5	3.8	3.0	G	4.0	7.1	7.0	7.1	11.5	13.5	13.0	12.6	8.0	G	5.0	G	4.2	6.5	4.5	5.3	5.1	6.0	4.2
24	5.8	2.5	3.5 ^F	3.5	G	4.5	6.0	C	C	C	C	C	C	C	C	C	C	C	10.7	12.5	4.0	4.5	6.5	6.0
25	4.2	4.2	3.5	2.5	3.4	4.3	4.8	5.0	5.0	G	6.4	G	G	G	G	5.3	G	5.0	4.8	9.5	7.5	5.0	3.0	7.0
26	5.8	5.0 ^F	4.5	4.1 ^F	3.5	G	7.0	7.5	8.7	8.7	8.0	12.5	4.9 ^Y	5.7	G	G	5.0	6.5	5.2	4.6	5.0	4.0	3.5	11.0
27	2.0	3.0	2.3	3.5	2.2	4.0	5.0	5.5	6.5	6.0	5.8	5.6	6.8	G	5.5	5.0 ^Y	7.8	7.3	6.2	8.0	7.0	2.8	5.0	5.0
28	3.1	2.8	2.3	3.3	3.5 ^F	4.3	4.6	7.5	7.0	6.7	6.1	6.0	G	7.0	5.0	5.0	10.5	13.0	13.0	12.7	10.3	6.5	6.0	2.5 ⁵
29	4.5	7.0	6.0	4.3	3.5	G	4.9	8.7	6.5	6.0	6.0	8.0	6.2	6.2	6.0	9.1	4.8	6.2	7.0	8.5	E	3.8	E	E
30	E	3.3	4.1	2.6	6.7	6.3	5.7	6.0	G	5.3	G	8.5	G	G	G	7.8	12.5	12.0	4.8	4.8	4.2	4.5	4.2	2.3
31																								
Mean Value	4.5	4.3	3.9	4.0	3.6	4.4	5.8	6.3	6.7	7.4	7.1	7.3	6.9	7.1	6.4	6.7	6.7	7.3	6.4	6.5	6.4	5.8	5.9	5.5
Median Value	3.3	3.2	3.5	3.5	3.5	3.8	4.8	6.2	6.1	6.5	6.2	6.0	6.0	6.0	5.5	5.2	4.8	6.0	5.2	6.0	6.0	4.8	4.4	3.3
Count	30	30	30	29	29	30	30	29	29	29	28	29	29	28	29	29	29	29	30	30	30	30	30	30

fEs

Lat. 39° 43.5' N
Long. 140° 08.3' E

Akita

IONOSPHERIC DATA

135° E Mean Time

foF2

Jun. 1956

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	7.6	7.1	7.2	7.0	6.5	7.2	8.0	8.4	9.0	9.4	9.8	9.6	(9.5) ^F	10.7	10.4	10.6	9.7	9.9	9.1	A	A	(8.2) ^F	(8.1) ^A	(8.0) ^F	
2	7.6	7.5	6.5	6.2 ^V	6.8	8.1	8.1	7.5	6.8	(6.8) ^A	6.9	7.5	(7.1) ^A	6.7	A	A	A	6.9 ^V	8.0	A	A	A	F	7.2 ^F	
3	6.7 ^F	7.4 ^F	6.5 ^V	(5.8) ^A	5.2 ^V	6.2	6.6	7.0	B	B	5.7 ^V	A	A	A	5.8	6.1	6.2	6.2	(6.4) ^S	6.5	6.5	6.5	6.3	6.6 ^F	
4	6.5 ^F	6.6	(6.6) ^S	6.5 ^F	5.5 ^F	6.8	8.4 ^V	9.0	7.3	6.0	(6.5) ^A	7.0	7.3	7.7	7.8 ^F	(7.9) ^F	7.3	6.7	(7.0) ^A	7.2	7.9	7.8	7.6 ^F	6.5	
5	6.6	6.6	(7.0) ^S	5.5 ^F	5.6 ^F	6.4	8.7 ^H	10.0	9.9	8.1	7.6	A	A	9.1	8.2	7.9	7.7 ^H	8.2	8.1	8.8	8.2	7.6	8.0	(8.4) ^S	
6	8.1 ^F	8.4 ^F	7.4 ^F	6.5 ^F	6.2 ^F	6.9	8.1	8.9	9.4	A	A	7.4	(7.6) ^A	7.8 ^F	(8.0) ^S	8.2	8.5	8.4 ^F	8.0	7.5 ^C	A	7.1 ^F	8.2 ^V	8.0 ^F	
7	8.2 ^F	C	>5.4 ^C	7.7 ^F	7.7 ^F	7.7 ^F	(8.0) ^S	8.3	>5.4 ^C	>5.4 ^C	5.9	6.1	6.3	6.5	6.5	6.6	6.9	7.0	6.6	6.8	(7.4) ^A	8.1 ^F	8.5 ^F	7.5 ^F	
8	6.9	6.5	(5.9) ^S	6.4	(5.8) ^F	>5.4 ^C	7.1	7.0	C	A	6.7 ^F	6.8	7.4	7.8	8.5	8.7	A	A	8.4 ^F	7.0	8.4 ^F	>5.4 ^C	A	C	
9	7.3	6.9	(5.9) ^S	6.4 ^F	6.0 ^F	7.3 ^H	9.1 ^F	10.4 ^F	8.4	6.6	6.6 ^H	6.8 ^F	6.6	6.1	5.9	6.5	6.6	6.6	7.0	6.8	7.0	7.3 ^F	7.4 ^F	(7.0) ^F	
10	6.8	6.6	6.3	5.8	6.5 ^F	6.9 ^F	7.2	7.0	6.2	6.4	A	A	A	6.1	6.1	6.5	6.3 ^A	6.1	6.2	(6.8) ^A	7.0	7.3 ^F	7.5	7.3 ^F	
11	7.1	6.6	6.4	6.3	5.8	6.8	8.0	8.2	7.8	6.8	6.7 ^H	7.7	8.1	8.0	B	8.9	(8.6) ^A	8.2	8.6	8.3 ^F	(8.4) ^S	(8.4) ^S	8.5	7.7	
12	7.3	7.6	7.5	7.2	8.1	8.9	8.1	7.9	(7.4) ^A	6.9	6.1	6.5	6.6	6.9	7.5	7.1	A	A	(7.5) ^F	7.9	(8.0) ^F	(7.8) ^F	8.4 ^V	F	
13	8.8 ^V	8.1	7.7	7.2	6.6	6.6	7.2	7.6	7.6	7.1	7.5	8.1	8.6	8.2	8.2	9.2	8.7	8.7	9.1	8.7	8.5	8.6	8.6	8.4 ^V	(8.9) ^F
14	9.4 ^H	8.2 ^F	8.0 ^F	7.0 ^V	6.9 ^F	7.2	8.1	8.0	8.0	(7.8) ^A	7.6	8.2	8.6	8.2	8.2	8.2	8.7	8.7	8.7	9.1	8.7	8.5	8.6	9.0	8.4 ^V
15	8.0	8.0	8.0	7.8	7.4	7.5	8.3 ^F	8.2	7.7	8.1	7.6	7.4	7.7	8.7	8.6 ^F	(8.4) ^F	8.3 ^F	8.5 ^F	8.5	8.6	8.6	8.6	8.6	(8.6) ^F	8.5
16	9.0	8.5 ^F	8.1	7.9	7.5	8.1	9.1	10.5	10.3	10.3	9.1 ^H	9.5	11.6	11.0	10.3	8.9	8.8	9.5	9.5	9.7	9.7	8.8	9.0	9.1 ^F	9.4
17	9.7	9.7	9.0	8.6	7.7	7.0	8.1	8.5	8.5	8.5	8.6	8.0	8.4	8.6	8.5	8.2	8.7	9.4	9.2	8.4	7.4	7.4	7.3	7.8 ^F	8.2
18	8.0 ^F	7.5 ^F	8.0	7.2 ^F	7.2 ^F	7.5	8.1	9.0	9.0	7.5	7.7	(8.0) ^A	8.4	9.2	9.5	9.6	9.0	9.0	8.9 ^F	8.7	8.0	8.4 ^V	(8.4) ^S	8.4	
19	8.4 ^P	8.4 ^F	7.6	7.4	7.2	7.2	7.5	8.0	6.8	6.7	6.8	7.1	7.6	7.6	8.1	8.3	8.1	8.1	8.0	8.0	8.3 ^F	(8.1) ^F	(8.0) ^F	7.9 ^F	(7.8) ^A
20	7.7 ^F	8.1 ^F	8.0 ^F	7.4 ^F	7.4 ^F	8.4	9.9	9.5	(8.9) ^A	8.3	8.4	8.5	8.4	8.0	8.2	8.2	8.3 ^F	8.3 ^F	9.0	9.4	8.7	7.4	7.8 ^F	(8.4) ^F	8.2 ^F
21	8.1	8.0 ^F	7.7 ^F	8.0 ^F	7.7 ^F	8.7	9.7	9.9	9.5 ^V	9.5	A	A	A	8.7 ^H	9.5	9.7	8.6 ^V	8.1	9.4	9.4	8.7 ^F	8.2	(7.7) ^F	7.8 ^F	
22	7.9 ^F	7.7 ^F	7.6 ^F	7.7 ^H	7.5	7.6	8.3 ^F	9.0	8.7 ^V	8.1	(7.5) ^H	7.8	(8.0) ^A	8.1	8.4 ^V	8.8	9.1	8.6	8.7	8.5	8.4 ^P	8.6 ^F	8.6 ^F	9.0 ^F	
23	8.2 ^F	(7.8) ^F	7.5 ^F	8.0 ^F	8.2 ^F	8.4	8.0	8.2	(8.4) ^F	8.6 ^F	(8.6) ^A	8.7	9.0	9.5	9.6	B	A	9.0	8.7	8.7	(8.5) ^F	(8.5) ^F	8.5	9.0 ^F	
24	8.9 ^F	9.5 ^F	8.7 ^F	8.1 ^F	7.5	7.0	7.5	7.2	7.6	(7.8) ^A	8.0	(8.1) ^A	8.2	8.8 ^F	9.2	9.4	8.7	8.7	8.9 ^V	(8.4) ^A	7.9	8.2	8.5	(8.4) ^F	8.4 ^V
25	8.3 ^F	7.8 ^F	7.1	6.5	6.1 ^F	7.0	7.5	7.1	6.5 ^H	(6.6) ^A	6.6	7.8	7.3	7.6	7.5	7.5	8.6	8.7	8.2	6.8	6.0	6.5	6.6	6.8	
26	6.8	6.0	5.6	5.5 ^F	5.2 ^F	6.0 ^H	7.4	7.1	6.8	6.7	(6.8) ^A	7.0	7.8 ^P	A	A	7.9	7.9	8.2	8.8	8.9 ^V	8.5 ^F	8.4	8.7 ^F	8.0 ^F	
27	(8.4) ^F	8.9 ^F	7.3 ^F	6.4 ^F	6.6	7.1 ^V	6.6 ^H	6.3	5.9	A	A	A	A	5.7 ^P	(5.6) ^A	5.6	6.2	6.5	6.5	5.8	5.8	6.5	6.6 ^F	6.6 ^F	
28	(6.3) ^A	6.0	5.3 ^P	5.2 ^F	4.8 ^F	5.3 ^V	5.6	6.5	A	A	A	A	A	A	6.5	6.0	6.5	6.0	5.7	6.4	6.5	7.0 ^P	6.7 ^F	6.7 ^F	
29	6.9 ^F	7.1	6.8 ^F	5.9 ^F	6.0 ^F	6.1 ^F	6.5	6.4	6.3	(6.2) ^A	6.0	(6.6) ^A	7.2	7.6	7.7 ^P	7.5	7.6	7.8	7.1	(7.4) ^A	7.6	8.0	9.0 ^V	7.7 ^F	
30	8.7	6.0	5.8	5.6	5.5	6.1	8.0	8.6	6.9	6.5	5.9	6.9	7.3	7.5	7.9	7.2	6.7	(7.1) ^A	(7.5) ^F	7.7 ^F	8.2 ^V	(8.5) ^F	8.8	7.8 ^F	
31																									
Mean Value	7.8	7.6	7.1	6.8	6.6	7.2	7.9	8.2	7.9	7.6	7.3	7.6	8.0	8.1	8.1	8.0	7.9	8.0	8.1	8.0	7.8	7.9	8.1	8.1	7.9
Median Value	8.0	7.6	7.4	6.5	6.6	7.1	8.0	8.2	7.8	7.3	7.2	7.6	7.8	8.0	8.2	8.2	8.3	8.2	8.3	8.3	8.1	8.0	8.4	8.4	7.9
Count	30	29	29	29	30	29	30	30	26	24	24	24	24	26	26	28	26	28	30	27	27	28	28	28	28

Automatic

Manual

Sweep 0.85 Mc to 22.0 Mc in 2 min

foF2

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

Lat. 39° 48.5' N
Long. 140° 08.9' E

Akita

IONOSPHERIC DATA

135° E Mean Time

Jun. 1956

RF2

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	340 ^F	310	320	310	290	250	L	L	350	370	360	[360] ^A	360	360	330	340	350	290	300 ^L	A	A	A	A	300
2	300	290	350	300	340	300 ^L	320	[330] ^A	340	[400] ^A	470	A	A	400	A	A	A	350	300 ^A	A	A	A	350 ^{AF}	340 ^A
3	340 ^A	300	A	A	330	A	A	380	B	B	A	A	A	A	A	480	400	370	340	300	290	290	350 ^A	300
4	300	310	350 ^A	410 ^A	360	380	360	340	290	530	[470] ^A	450	430	390	360	350	310	300	[300] ^A	300	300	320 ^A	290	310 ^A
5	350 ^A	290	280	300 ^A	370	280	260 ^H	320	330	[440] ^A	540	A	A	380	380	350	310 ^H	340	300	280	270	300	340	300
6	340	300	270	[310] ^A	350	270	400	350	A	A	A	420	[400] ^A	380	[370] ^A	360	330	310 ^A	[380] ^A	440 ^A	[390] ^A	340 ^A	310	320 ^A
7	360	[330] ^A	300 ^F	320 ^A	300 ^A	340 ^A	[360] ^C	390 ^A	380	C	C	580	510	480	450	430	370	340	A	A	A	360	290	270
8	310 ^A	300	300	310	350	430	370	A	C	A	590	430 ^A	400	390	370	330	400	A	A	300	290	300	A	A
9	260	290	300 ^F	350 ^F	370 ^{AF}	340 ^{HF}	380 ^F	340 ^F	330	520	470 ^H	450	420	480	540	430	400	390	340	300	310	300	330 ^F	290 ^A
10	290	290	270	300	330 ^A	260	340 ^A	370 ^A	420 ^A	410 ^F	A	A	A	A	500 ^A	400	[400] ^A	400	370	[340] ^A	320	350	310	300 ^F
11	280	300	310	310	390	360 ^L	330	290	310	400	LH	420	370	390	400	350	[330] ^A	310	310	300	320	[310] ^A	300	270
12	320	340	310	300	300	250	L	A	A	A	510	480	480	490	410	A	A	A	350	300	340 ^A	310	330	350 ^F
13	300	300	300	280	290	290	340 ^L	330	350	400	400	400	400	380	390 ^L	370	350	350 ^A	[320] ^A	300	330 ^A	310	300	[290] ^A
14	280	260	300	300	320	310	340	320	A	A	400 ^A	390	390	400	400	350	310 ^L	350	300	290	300	320	300	270
15	330	330	290	290	300	350 ^L	350	300	350	360	330	400	430	390	350	400	350	330	300 ^L	300	300	300	300	330
16	300	290	300	290	300	L	L	300	300	310	400 ^H	390	350	320	340	350	350	310	290	260	270	310	330	300
17	290	280	240	270	250	250	330	330	350 ^A	410	350	420 ^A	420 ^A	370	370	400	370	330	290	260	270	340 ^F	380 ^F	370 ^F
18	290 ^F	350 ^{AF}	300 ^F	310 ^F	300	270	320	330	320	290	430	[430] ^A	430	370	360	330	330	320 ^A	310 ^A	290	A	310	[310] ^C	310
19	330 ^F	310 ^F	310	320	310	330	330 ^L	330	330 ^L	480	470	470	400	390	380	360	360	340	340 ^A	300	280	280	320	[320] ^A
20	310 ^F	320 ^F	310 ^F	310 ^F	320	270	270	310	[340] ^A	370	[380] ^A	390	380	400	380	380	[360] ^A	340	300	270	280	340	360	350 ^{AF}
21	320 ^A	310 ^{AF}	330 ^F	310 ^A	310 ^F	290	280	270	370 ^A	310	A	A	A	A	370	340	[360] ^A	350	300	270	280	340	360	350 ^{AF}
22	350 ^{AF}	350	320	310	320	280	[290] ^A	300	[340] ^A	(380) ^A	350 ^H	A	A	A	430	390	340	340	300	290	250	A	A	350 ^F
23	350 ^F	350 ^F	380	350 ^{AF}	300	250	280 ^L	300	300	340	[366] ^A	390 ^A	370	370	350	350	A	A	300 ^A	300 ^A	300 ^A	300 ^A	330	340
24	330 ^A	300	280	300 ^F	290	350 ^L	400	360	330	[360] ^A	390	[380] ^A	380	400	[380] ^A	370 ^A	340	A	A	300	[320] ^A	380 ^A	[340] ^{AF}	320 ^F
25	320	300	330	340	350	380	300	380	370 ^H	A	A	390	390	400	400	380	350	350	290	260	270	[300] ^A	340	[320] ^{AF}
26	300	300 ^A	350 ^A	330 ^A	360 ^A	370 ^L	330	290	350 ^A	380	[380] ^A	380	360	A	A	A	A	A	350	310	280	320	340 ^F	330 ^F
27	[300] ^A	280	260 ^F	320 ^{AF}	400	380	350 ^H	470	A	A	A	A	A	A	500	A	A	A	310	A	310	360 ^{AF}	350 ^F	340 ^F
28	A	A	350 ^F	310 ^{AF}	310 ^F	400	A	A	A	A	B	A	A	A	A	370	360	360 ^L	330	310	310	340 ^F	350 ^F	350 ^F
29	320 ^F	300	280 ^F	290 ^F	300 ^F	350	380	A	390	[440] ^A	490	[440] ^A	390	380	380	340	360	320	300	[310] ^A	320	[320] ^A	310	300 ^F
30	270 ^F	240 ^F	250	300	320	360	370	300	310	330	510	410	370	380	360	320	A	A	310	290	[300] ^A	320 ^F	330	300 ^F
31																								
Mean Value	310	300	300	310	320	320	340	330	340	390	430	420	400	400	370	370	350	340	310	300	300	320	320	320
Median Value	310	300	300	310	320	320	340	330	340	380	400	420	390	390	380	360	350	340	310	300	300	310	310	330
Count	29	29	29	29	30	28	25	25	23	21	21	22	22	22	25	26	23	24	29	26	25	27	27	29

Strap 0.85 Me in 22.0 Me in 2. min Manual Automatic

RF2

IONOSPHERIC DATA

Akita

fEs

Jun. 1956

135° E Mean Time

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	4.5F	3.7F	4.8F	4.1F	4.2F	3.2	4.2	5.5	5.3	4.6	6.3	7.8	11.2	7.0	7.0	10.5	10.0	5.1	3.1	7.0	13.0Y	8.0	7.7	3.8
2	4.2	3.1	4.9	2.3	3.0	4.0	4.4	7.5	6.1	9.8	4.6	7.9	9.5	6.9	11.4Y	10.4	10.6	7.7	10.0Y	10.4	11.0	10.0	4.2	7.5
3	6.6	6.4Y	7.2F	6.9F	3.9F	6.0	6.0	4.8	B	7.0Y	7.0	6.0	8.0	11.0	7.5	4.3	4.3	3.9	>55C	4.4	3.4	3.1Y	6.4Y	4.8
4	4.2F	4.9	>53C	6.1Y	4.7	4.1Y	3.4	6.5	5.5	5.9	11.5	6.9	4.8	4.6	4.4	6.0	4.4	4.6	8.8	4.2	3.1	6.3Y	5.6	8.9
5	6.4Y	6.7	4.1	5.3	4.7	3.1	4.5	5.2	5.5	9.2	10.0	10.7	9.5	9.0	10.4	5.8	4.4	10.9	5.0	3.7	4.0	6.5	4.5	5.8
6	5.5	7.3F	9.0	7.8F	6.0F	4.5	4.1	5.9	10.5	10.0	9.3	10.6	11.5	6.5	8.9	6.5	4.5	7.5	9.0Y	>54C	6.5Y	3.8	4.5	6.7F
7	4.5F	>54F	5.2F	4.4F	7.8	5.0	9.1Y	9.0	4.5	>54C	>54C	4.2	4.2	4.3	G	G	4.8	4.4	4.0	5.5	11.4	5.8	3.8	3.5
8	4.6F	2.4F	2.2	2.2Y	3.1	4.9	4.2	6.6	>54C	8.0	6.0Y	6.1	4.2	4.5	5.4	4.7	11.5	11.5	4.6	3.5	3.5	3.5	8.0	10.0
9	3.2	2.7	3.0F	3.8F	5.8	4.5	5.6	7.0	6.2	6.7	4.6	4.9	4.4	4.5	G	G	G	5.1	4.6	3.2	6.5	3.1F	6.5F	4.1F
10	3.7F	2.5F	3.5F	3.5F	5.5F	4.5	6.2	6.8	6.5	13.2	11.1	10.0	11.5	6.5	6.6	5.2	9.2	6.2	6.7	7.5	7.0F	4.5	6.7	3.5F
11	3.0F	4.4F	3.5F	3.1F	2.2F	G	4.4	5.2	4.7	4.5	G	4.1	G	5.2Y	6.8	6.4	10.0	4.4	4.5	5.8	7.7	7.9	8.4Y	2.1
12	2.0Y	2.0Y	2.2	3.2	4.1	3.1	5.5	8.5	10.9	11.5	6.8	6.5	6.3	4.6	4.7	8.0	9.9	10.0	5.8	4.6	5.9	4.5	4.4	4.4
13	2.0	4.1Y	3.9	2.7Y	2.4F	4.1	4.0	6.5	6.0	6.5	5.1	4.5	G	5.6	4.7	4.4Y	9.5Y	7.4	9.0Y	7.0	7.1	6.5	9.0	8.9Y
14	2.0Y	5.0	4.2	3.5	3.0	3.4	G	5.0	8.5	7.0	6.7	5.9	G	B	G	G	G	4.1	3.1	3.0	3.1	3.0	3.0	3.0
15	2.4Y	2.5	3.0	2.2	1.5	3.2	4.5	4.8	5.2	5.2	6.8	10.0	9.5	G	G	G	4.2	4.2	3.5	3.1	1.9	2.9	4.5	4.0
16	3.5	4.6	3.6Y	4.5Y	4.2	4.0	3.9	G	G	6.4	6.7	6.5	6.4	6.1	4.8	4.4	4.9	5.7	6.2	3.5	3.5	8.0	4.5	1.9
17	E	3.5Y	3.2	4.2	2.2F	3.1F	4.3	G	7.5	6.0	7.2	9.0	7.0	4.3	4.5	G	G	3.9	4.6	3.9F	3.8F	5.6F	4.6	5.6F
18	7.6F	4.1F	4.5F	7.0F	3.5F	3.5F	5.5	7.0	5.2	6.2	6.6	8.6	5.8	7.6	5.0	5.4	6.1	7.6	5.9	4.2F	11.5F	6.6	C	3.4
19	3.5	4.2	5.1F	4.3F	3.5	4.5	6.5	4.5	4.7	5.4	4.6	G	5.6	6.1	6.4	6.2	5.2	5.6	7.5	3.2	3.2	2.0	4.9F	9.1
20	9.0	6.7F	5.5F	4.5F	4.4F	4.5F	4.0	6.0	10.1	6.5	7.8	G	4.6	G	G	5.7	9.7	6.6	6.5Y	4.8	3.5	3.7	6.5	5.6
21	4.5	6.7F	4.7F	6.6F	4.6F	6.0	5.9	5.5	8.0	7.1	10.0	11.5	11.5	9.8Y	10.0Y	8.7	7.0	4.4	3.5	3.5	2.3Y	2.2Y	3.1	7.0
22	4.8	4.3	4.5	3.8	3.1	4.6	6.0	6.5	8.0	7.9	6.1	6.5	11.0	4.6	4.6	6.4	4.6	5.8	6.2Y	3.5	5.6Y	7.7	6.5	6.7
23	7.4Y	4.5F	5.6	4.5F	3.1F	3.1Y	4.4	6.5	4.6	4.6	10.2	7.5	6.0	G	5.2	6.1	9.0Y	9.5	6.0	5.9	3.7	4.4	4.5	6.5
24	7.0	4.5	3.1	3.0	3.7	4.3	4.5	4.4	8.6	7.0	6.3	7.1	6.2	10.5	8.5	8.0	9.0	8.9Y	11.5Y	6.3Y	9.3Y	10.0	8.0	4.4
25	4.4	2.7	E	1.8Y	2.5	3.5	6.0	4.5	6.8	9.6	7.7	4.5	G	G	5.2	4.5	4.3	3.5	G	2.7	3.0	6.5	5.7	6.5
26	4.5	4.1	5.2	4.2	5.6	3.1	4.5	5.2	6.1	6.0Y	10.5	6.5	9.0Y	11.5	11.5	8.9	6.8	6.1	3.4	6.6	8.9	4.8	3.2	6.6
27	6.7	3.7	4.6F	6.5F	7.1F	G	4.7	4.8	6.5	10.0	10.1	9.0	7.5	5.0	9.0	5.4	8.0	6.2	5.5	6.4	6.7	4.4	6.5	7.0
28	7.7	7.1	4.5F	4.4F	3.9F	5.0	8.5	6.8	8.0	5.6	6.2	4.5	6.7	11.6	11.1	G	6.0Y	3.6	4.1	4.2	4.8	6.7	4.5F	5.8F
29	6.6Y	4.5F	3.7F	6.4Y	5.0F	6.7	5.0	6.5	6.5	11.0	6.2Y	11.2	5.4Y	7.5	9.5	4.8	G	5.2	5.8	9.0	4.7	7.2	3.7	4.5F
30	3.0F	2.0F	3.0Y	3.0	1.9Y	3.8	5.1	7.5	7.0	6.2	G	G	G	6.1	4.7	7.1	7.1	9.3	7.0	4.7	11.5	9.0Y	5.3	4.4
31																								
Mean	4.8	4.3	4.3	4.3	4.0	4.2	5.1	6.1	6.5	6.3	7.5	7.4	7.5	6.8	7.3	6.5	7.1	6.3	5.9	5.0	6.0	5.6	5.5	5.5
Maximum	4.5	4.2	4.4	4.2	3.9	4.0	4.5	6.0	6.4	6.7	6.7	6.5	6.2	6.1	6.4	5.4	6.0	5.8	5.8	4.5	5.2	5.7	4.9	5.6
Count	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.8	2.9	2.9	3.0	3.0	2.9	3.0	3.0	3.0	3.0	2.9	3.0	3.0	3.0	2.9	3.0

fEs

Sweep 0.85 Mc to 22.0 Mc in 2 min

Manual Automatic

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

Lat. 35° 42.4' N
Long. 139° 28.8' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

foF2

Jun. 1956

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	7.4	7.2F	7.1F	7.0F	6.7F	7.0	7.5	8.2	8.6	9.6	10.0	10.1	10.7	11.9	11.3	11.3	10.6	10.3	9.87A	9.3	9.1	8.7	8.8	8.2
2	7.2F	7.4F	6.6F	6.4F	7.2	8.1	8.6	8.6	8.07A	7.4	7.47A	7.57	7.6	7.6	A	A	7.5	8.1	8.5	8.6	6.6	6.6F	7.0F	7.1
3	7.67AF	8.17F	7.5F	5.97F	5.5F	5.77F	6.9	7.2	6.3	6.07A	5.7	A	A	A	6.1	6.6	6.8	6.6	6.5	6.4	6.6	6.6	6.8	6.5V
4	6.47A	6.4	5.6F	5.5F	A	6.7	8.2	9.3	9.3	8.6	8.7	8.8	9.2	10.0	9.9	9.0	8.5	7.2	7.1	8.0	7.7	8.2	8.07	6.8
5	6.4	6.67F	6.87F	5.2F	5.3F	5.8F	7.9	9.5	9.3	8.6	8.7	8.8	9.2	10.0	9.9	8.6	A	A	8.9	7.9	7.8	7.9	8.07	8.5
6	8.5	8.2	8.0F	6.0F	6.07F	5.8F	8.5	10.3	10.1	7.6	A	7.6	8.4	8.87A	9.1	8.7	9.0	8.8	8.1	7.7	7.7	8.2	8.2	7.9
7	7.2P	7.27P	7.7F	7.5Z	6.97F	7.27H	8.7	9.6	8.9	A	7.0	7.5	7.3	7.6	7.9P	7.8	7.7P	7.9	7.2	7.0	8.07	7.7	8.4	7.9
8	7.0	6.9	6.5	6.4	6.47H	7.5	7.6	A	A	A	6.5	7.7	8.2	8.6	9.4	9.6	9.1	9.27A	9.5	9.0	8.7	8.8	7.87B	8.7
9	7.9	7.3	6.5	6.2F	6.1F	7.07H	9.4	10.5	A	A	A	A	A	6.7	6.5	6.9	7.0	7.0	7.2	7.47A	7.5	7.2	8.0	6.97F
10	7.0	7.4S	7.0F	6.0F	6.2F	7.1F	7.5	7.1	6.3V	6.3	W	W	6.3	6.37A	6.5	6.67A	6.6	6.1	6.4	7.0	7.2	7.0	7.07	7.7
11	6.9F	6.7	6.3F	6.4F	5.8	7.0	8.5	8.8	7.8	A	A	7.0	A	A	A	A	7.5	7.67	7.67	7.5	7.8	7.5	7.6	8.1F
12	7.5	7.2	8.0	7.6	7.5	8.5	8.9	9.2	A	A	A	8.17	9.0	8.9	9.2	9.9	10.4	10.3	9.5	9.1	8.8	8.5	A	A
13	8.7F	8.7F	7.8F	7.5	6.9	7.0	7.3	7.9	7.8	A	A	8.17	9.0	8.9	9.2	9.9	9.9	9.9	9.9	9.2	9.0	8.6	9.0	9.0
14	C	9.0V	7.7	7.6Z	7.2F	8.0	8.6	8.4	7.97H	8.5	8.5	9.1	9.47	9.2	9.2	9.9	9.9	9.9	9.9	9.2	9.0	8.6	9.0	9.0
15	8.4	8.0	8.0	8.0	8.2	7.7	8.5	9.6	8.8	8.4	8.2	8.1	8.7	9.6	9.7	9.1	9.2	9.6	9.0	8.6	8.5	8.9	8.9	8.5
16	9.2	8.5	8.0	7.5	7.7	8.5	9.7	11.4	11.0	9.7	9.1	10.5	11.9	12.0	11.6	9.5	9.7	10.2	10.3	10.2	8.5	8.9	8.8	9.47C
17	9.8F	9.8F	10.0F	9.0	7.5	7.4	7.9	8.9	8.6	8.67A	8.5	8.6	9.1	9.4	9.5	9.0	9.7	10.2	10.2	8.1	7.1	7.3	7.47	7.37F
18	8.07F	7.4F	8.37F	7.4F	6.87F	7.2	8.6	9.0	8.5	8.37A	8.1	8.1	9.0	10.1	10.6	10.8	10.3	10.1	9.7	9.5	8.5	8.6	9.0	9.0Z
19	8.6F	8.7F	8.37F	8.1Z	7.4	7.0	8.0	8.4	7.2	6.47	7.1	7.5	8.4	8.2	8.5	9.0	9.1	7.6	8.6	8.6	8.1	7.9	7.8	8.1
20	7.6	7.5F	7.57F	7.5F	7.5	8.4	9.4	9.07H	9.0	8.9	9.0	8.27H	8.6	8.9	8.9	9.0	9.4	10.2	10.2	8.4	7.1	7.67P	8.0	8.2
21	7.97	8.0	8.07	7.47F	7.2F	8.1	9.67H	10.2	9.2	8.8	8.6	8.5	9.0	9.1	9.87A	10.5	9.1	8.8	9.5	9.4	9.1	8.1	7.9	7.5
22	7.6	7.5	7.9	7.7	7.5	7.7	8.4	8.9	8.2	7.5	7.87A	8.0	8.5	8.6	8.7	9.5	9.5	9.0	8.6	8.6	8.5	7.6	8.8	8.2
23	8.5	8.2	7.9F	7.77F	8.0	8.1	8.3	8.7	8.7	8.8	8.7	8.5	9.8	10.5	10.67A	A	10.5	10.5	9.0	9.1	9.0	8.9	8.47B	8.6
24	9.0F	9.1F	9.9	8.6	8.4F	7.4	7.9	8.3	7.97H	A	A	A	A	A	9.97	10.0	9.2	9.5	8.77A	8.1	8.5	8.7	9.2	9.3
25	9.6	8.5	7.9	7.0	7.47C	7.7	7.9	C	A	7.0	7.8	7.8	8.1	8.5	9.2	9.0	9.7	9.6	8.4	6.9	6.3	6.6	6.8	6.9
26	6.7	6.2	5.7	5.9	5.37F	5.9	7.6	7.4	6.87A	6.3	7.5	7.0	8.5	8.8	8.4	8.3	8.3	8.8	9.3	9.1	8.5	8.5	9.0	8.97F
27	6.0	9.0	7.9	5.87F	7.0F	7.2	7.3	7.0	6.6	A	A	A	A	6.1	A	A	A	7.3	6.87A	6.0	5.8	6.4	6.5	6.9
28	6.0	5.97F	5.67F	5.87F	6.0F	5.47	6.0	A	A	A	A	A	A	6.3	6.6	7.3	6.7	6.5	7.1	6.6	7.1	7.2	7.6	7.5
29	7.5F	7.7	8.6	5.87F	5.77F	5.8	6.8	6.97A	A	6.1	6.5	7.27A	7.9	8.5	9.0	8.7	8.9	8.7	8.37A	7.9	8.0	8.5	8.8	8.3
30	9.2	6.9	5.9V	6.2	6.1F	6.0	8.0	9.9	7.07H	6.7	6.2	7.27A	8.3	8.8	8.9	A	A	8.5	8.3	8.5	8.5	7.9	8.5	8.37F
31																								
Mean Value	7.8	7.7	7.5	6.9	6.8	7.1	8.1	8.8	8.2	7.7	7.8	8.1	8.7	8.8	9.0	9.0	8.9	8.8	8.6	8.2	7.9	7.9	8.1	8.0
Median Value	7.6	7.5	7.8	7.0	6.9	7.2	8.1	8.8	8.2	7.6	7.8	8.0	8.6	8.8	9.1	9.0	9.1	8.8	8.6	8.2	8.0	7.9	8.0	8.1
Count	29	30	29	30	29	30	30	28	24	22	22	24	24	27	27	25	27	29	30	30	30	30	29	29

foF2

Sweep 1.0 Mc to 17.2 Mc in 2 min

Manual Automatic

K 1

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

1pF2

Jun. 1956

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	390	400F	340F	360F	340F	330	350	350	370	400	400	350	400	400	370	370	350	360	360	370	360	360	A	360	
2	370F	360F	390F	460F	390	360	330	280	360	440	440	(430)	410	380	A	A	380	350	340	320	370	420F	440F	420	
3	AF	(380)F	F	(380)F	450F	450F	380	350	A	A	A	A	A	A	A	420	380	370	350	360	400	400	390	440F	
4	(400)F	350	400F	430F	A	380	370	350	350	A	A	A	380	370	360	350	330	340	360	360	360	400	(340)F	400	
5	400	(380)F	330F	400F	380F	350F	340	330	340	360	360	400	380	370	350	360	A	A	340	350	390	400	410F	400	
6	350	310	320F	360F	(410)F	440F	450	330	300	320	A	460	A	A	360	A	350	330	320	380	420	430	380	390	
7	390F	(370)F	400F	410Z	(290)F	440F	430	380	360	A	U	430	430	400	380F	350	350F	320	350	370	(370)F	390	390	380	
8	390	420	390	400	420	390F	370	330	A	A	U	410	390	A	A	350	360	A	A	370	380	400	(390)F	350	
9	360	360	380	430F	430F	450F	410	A	A	A	A	A	A	U	U	410	370	380	340	(360)F	380	390	400	410F	
10	390	420S	340F	380F	400F	320F	350	A	A	A	W	W	510	A	U	A	360	370	400	370	380	410	380F	(440)F	
11	390F	370	390F	430F	430	400	360	310	280	270	A	400	370	360	400	390	370	(380)F	(370)F	360	410	390	390	410	
12	440	380	430	370	360	310	380	350	A	A	A	460	A	A	A	A	390	360	370	360	370	380	420	430F	
13	400F	350F	360F	360	360	360	340	320	360	A	A	(420)F	400	390	A	A	380	360	330	350	380	380	A	A	
14	C	340V	360	400Z	390F	370	340	360	360	360	430	390	A	A	400	390	390	400	400	350	420	410	410	400	
15	430	430	410	400	370	390	400	350	(360)F	360	380	380	400	390	390	380	360	360	360	360	360	400	440	410	
16	380	360	380	390	410	400	400	330	350	360	450	420	390	360	350	370	400	400	360	360	350	360	420	(390)F	
17	370F	350F	330F	330	360	340	390	380	370	(380)F	400	410	400	420	390	410	400	360	370	310	320	370	420	(400)F	
18	(380)F	370F	(380)F	370F	(360)F	350	360	320	330	(360)F	380	430	430	430	410	380	(370)F	360	370	360	350	370	380	390	420Z
19	430F	400F	(390)F	410F	370	320	370	320	330	U	380	410	380	370	380	360	350	340	370	360	370	370	390	390	
20	380	380F	(370)F	(380)F	350	320	320	350H	360	370	370	380H	400	400	380	380	(360)F	350	320	320	320	390	430F	430	
21	(380)F	400	(340)F	(370)F	370F	320	340H	310	330	360	(400)F	440	(420)F	410	(380)F	350	360	400	400	370	330	340	350	410	
22	440	410	380	380	370	330	310	320	310	370	A	A	420	400	410	390	350	350	360	360	380	380	440	410	
23	400	390	390F	(390)F	360	290	320	350	310	380	350	380	410	410	A	A	A	A	350	340	380	400	(390)F	460	
24	380F	410F	350	350	400F	420	390	370	A	A	A	A	A	A	A	360	370	340	A	A	410	410	410	430	
25	410	410	450	450	(420)F	380	330	C	A	A	370	380	350	360	350	400	360	320	310	400	400	440	430	400	
26	A	360	410	440	A	390	310	270	(300)F	330	340	U	360	340	360	360	350	370	370	340	310	380	430	400F	
27	420	360	340	390F	410F	420	440	380	340	A	A	A	A	U	A	A	A	350	(340)F	330	430	420	440	400	
28	340	(390)F	(420)F	(430)F	390F	(400)F	410	A	A	A	A	A	A	U	410	370	370	360	340	370	380	410	420	410	
29	440F	390	310	350F	(430)F	410	360	A	A	A	A	A	390	370	370	360	340	A	A	370	420	420	420	390	
30	320	280	410F	410	400F	370	370	280	340H	U	U	A	370	350	340	A	A	A	350	360	360	400	410	(400)F	
31																									
Mean Value	390	380	380	390	390	370	370	330	340	360	390	410	400	380	380	380	370	360	350	360	380	400	410	400	
Median Value	390	380	380	390	390	380	360	330	340	360	380	410	400	380	380	370	360	360	350	360	380	400	410	400	
Count	27	30	29	30	28	30	30	25	21	15	15	20	22	20	20	22	26	27	27	29	30	30	28	29	

1pF2

Sweep 1.0... Mc to 17.2... Mc in 2... min

Manual

Automatic

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

Lat. 35° 42.4' N
Long. 139° 28.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

Jun. 1956

R'F2

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	320	310A	320A	270	270F	270A	L	270	340	360	380	320	380	350	330	330	310	290	A	A	310A	270	A	290A
2	290	270	310	360A	310	280	260	270	A	440	[440]A	430	410	380	A	A	380	340A	[280]A	260	220	[340]F	[390]F	A
3	AF	320AF	270F	330AF	380A	340H	370	340	A	A	A	A	A	A	A	460	380	360	320	280	270	300	310	(370)
4	[320]A	270	310A	360A	A	260	320	320	320	410A	500	450A	380	370	350	330	310	300	290	280	270	360A	290A	[320]A
5	340A	350F	280	240	290	250	290L	290	320	320	360	380	360	370	330	330	A	A	320A	240	250	300	310	330A
6	300A	270A	260	300A	340	340	260	400	280	320A	A	460	A	A	340	[340]A	330	300	290	290A	360A	350A	300	300
7	320A	310A	320	310F	240	240H	350	340	340	A	520	430	430	400	380	350	340	300	300	310	350A	300	300A	290
8	290	310	330A	330A	340	300H	350	320	A	A	490	410	380	A	A	350A	330A	A	A	330A	310A	350A	370A	300A
9	270	310A	310A	350	380	260H	360	A	A	A	A	A	A	370	440	410	370	380	320	[320]A	310A	280	360A	300
10	300	[280]A	260	260	290	250	300	400A	400A	440	W	W	510	[480]A	450	[420]A	380	350A	330	310A	350	300	320	[300]A
11	270	270	290	360F	340	310L	320	330	270	270	500A	390	370	380	380	360	320	320	280	290	280	300	300	280
12	350	340	330	310A	270	240	320	330	A	A	A	460	A	A	A	A	380	360	[360]A	350A	290A	280	340	340
13	300	260	270	280	270	270	310A	310	360	A	A	420	390	360	A	A	340	310	270	280	280	300A	A	A
14	C	260	280A	330A	320	280	300	310	LH	360	410	360	A	A	380	360	330	330	330	290	270	270	310	280
15	310	320	290	290	280	260	340	320	360A	320	360	370	360	380	360	340	340	310	290	270	280	340	310	340
16	300	270	290	290	340A	280A	320	280	270	280	A	380	350	320	320	320	360	310	290A	270A	260A	320A	320	[300]C
17	290	270	260F	230	260A	240	330L	320	360	[370]A	380	360	350	380	350	380	360	310	270	250	260	300	310	360
18	330A	330A	310A	290	280	250	290A	290	310	[340]A	360	430	410	380	360	[360]A	350A	310	300	280	300A	340A	300	300
19	330F	310A	310A	320A	310	270	360	290	330	400	360	410	380	360	380	350	330	270	330	280	260	270	290	310
20	300A	300	330A	350A	290	260	270	250H	280A	320L	340	300H	380	380	380	360	[340]A	310	280	260	290A	340A	330A	330A
21	360A	350A	300A	310A	280A	270	270H	260	290	340	[380]A	430	[420]A	410	[360]A	320	320	340	290	260	250	250	290	300
22	330	330	290	280	290	260	270	280	270	350	[380]A	420A	420	400	400	380	320	300	300	300A	280	260	330	310
23	330A	300	310A	310	290	230	260	320	300	360	310	360	380	360	A	A	A	290	310A	280	300A	270	280	360
24	310	360A	260	270	260	330A	360	340A	A	A	A	A	A	A	A	A	320	300	A	A	330A	330A	330	360
25	320	310	330	330	[340]C	340	300	C	A	390	360	380	350	360	340	380	340	290	240A	250A	300A	340	340	350A
26	310A	310A	350A	380A	A	270	290	260	[300]A	330L	340	470	360	300	340	340	320	350	300	260	260	310	350	330A
27	350A	300A	260A	310A	330	360	420	360	340	A	A	A	A	A	A	A	330	[300]A	270	A	A	380A	[350]A	330A
28	320A	310A	360	360AF	270	370	400	A	A	A	A	A	A	440	410	360	380	360	310	270	280	310A	320	330A
29	A	310A	250	240	320	380	340	A	A	A	A	A	380	360	350	340	320	A	A	A	290	310	320	310A
30	270	220	290	300	310	260	330A	270	280H	420L	410	[380]A	360	350	330	A	A	320	330A	280A	270A	300	330A	360A
31																								
Mean Value	310	300	300	310	300	280	320	310	320	360	400	400	390	380	370	360	340	320	300	280	290	310	320	320
Median Value	310	310	300	310	290	270	320	310	320	360	380	410	380	380	360	350	340	310	300	280	290	300	320	320
Count	27	30	30	30	28	30	29	26	20	20	20	24	22	24	23	24	26	27	26	27	29	29	28	28

R'F2

Sweep _L_... Mc to _17.2_ Mc in _2_ min

Manual

Automatic

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

foF1

Jun. 1966

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						L	A	4.7	5.4	5.5	5.6	5.7	5.5	5.5	5.9	5.1	5.0	L	A					
2						2.9	A	4.7	[5.1]A	5.6	[5.6]A	5.6	5.1	A	A	A	A	A	A					
3						A	A	A	B	A	A	A	A	A	A	5.0	4.7	4.3	3.7					
4							A	4.6	5.0	A	A	A	A	A	5.2	5.0	4.9	4.0	3.4					
5							L	4.6	5.2	5.1	A	A	5.5	5.7	5.2	5.1	A	A	A					
6								5.0	A	A	A	A	A	A	5.2	A	A	A	A					
7							4.4	A	A	A	5.5	5.3	5.4	5.5	5.0	4.9	4.8	4.3	A					
8							A	A	A	A	A	A	A	A	A	A	A	A	A					
9							A	A	A	A	A	A	A	4.9	4.8	[4.8]A	4.8	4.4	A					
10							A	A	A	A	4.8	A	A	A	A	A	4.7	A	3.9					
11						L	4.5	4.5	A	A	A	5.1	5.5	5.5	4.9	A	A	A	L					
12						A	L	A	A	A	A	5.0	5.4	A	A	A	A	A	A					
13								A	A	A	A	A	A	A	A	A	A	4.5	L					
14							4.8	5.2	L	5.6	5.9	5.5	A	A	5.4	5.5	5.0	4.8	A					
15						Q	5.0	A	A	A	6.2	[6.0]A	5.7	5.8	5.9	5.6	L	L	L					
16							5.4	4.9	A	A	A	A	5.6	5.5	5.5	5.7	5.0	L						
17							5.1	5.0	5.8	[5.9]A	6.0	A	5.5	5.6	5.5	5.6	5.0	4.6	4.0					
18							A	5.0	A	L	6.2	A	A	A	5.5	A	A	A	A					
19							4.7	4.7	5.5	5.5	5.0	5.6	5.5	5.5	A	A	A	A	5.0					
20						L	4.2	L	A	L	5.6	5.4	A	5.7	5.5	5.5	A	A	4.0					
21							A	4.5	5.2	6.0	A	A	A	A	A	A	5.4	5.6	L					
22							A	L	4.8	A	A	A	5.8	5.4	5.4	5.4	4.8	4.5	L					
23						L	L	5.5	5.4	5.5	5.2	5.5	5.5	5.5	A	A	A	4.5	A					
24							A	A	A	A	A	A	A	A	A	A	L	A	A					
25						3.3	A	C	A	5.5	5.8	5.6	5.5	5.6	5.5	5.5	5.0	4.5	A					
26							4.2	4.5	[5.0]A	5.4	5.1	5.8	5.0	[5.2]A	5.3	4.9	4.8	4.7	4.2					
27						3.2	A	A	4.5	A	A	A	A	5.0	A	A	A	4.3	A					
28						3.5	A	A	A	A	A	A	A	A	A	5.0	(5.3)L	4.4	A					
29						3.4	4.1	A	A	A	A	A	5.1	A	5.0	4.8	A	A	A					
30						B	A	A	5.1	5.7	5.5	A	A	5.0	5.4	A	A	A	A					
31																								
Mean Value						3.3	4.7	4.8	5.2	5.6	5.5	5.6	5.4	5.4	5.3	5.2	4.9	4.5	4.0					
Median Value						3.3	4.7	4.7	5.2	5.5	5.6	5.6	5.5	5.5	5.4	5.1	5.0	4.5	4.0					
Count						5	13	13	12	11	13	13	15	16	18	16	14	14	7					

foF1

Sweep 1.0 Mc to 17.2 Mc in 2 min

Manual Automatic

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

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

R'F1

Jun. 1956

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1						240	A	A	A	A	A	A	A	A	250	230	270	270	A					
2					260	240	A	A	A	A	A	A	210	A	A	A	A	A	A					
3					A	A	A	A	B	A	A	A	A	A	A	270	230	250	270					
4						250	240	250	A	A	A	A	A	A	A	250	230	220	240					
5						240	270	240	210	A	A	A	A	A	A	260	250	A	A					
6						260	260	A	A	A	A	A	A	A	A	240	A	A	A					
7						250	A	A	A	210	210	210	210	240	230	250	240	A	A					
8							A	A	A	A	A	A	A	A	A	A	A	A	A					
9							A	A	A	A	A	A	A	230	250	[260 ^A]	280	A	A					
10							A	A	A	210	A	A	A	A	A	A	A	A	A					
11						270	260	A	A	A	A	A	A	A	A	A	A	A	A					
12						A	260	A	A	A	200	A	A	A	A	A	A	A	A					
13							A	A	A	A	A	A	A	A	A	A	A	A	240	250				
14							250	230	230	A	A	A	A	A	B	220	220	240	240					
15						Q	240	A	A	270	A	A	A	A	220 ^H	250	[250 ^H]	250	260					
16							240	240	A	A	A	A	A	A	A	A	260	250						
17							250	230	A	270	A	A	A	270	A	230	230	250 ^H	250					
18							A	260	A	A	270 ^M	A	A	A	A	A	A	A	A					
19							230	260	250	200	230	[230 ^B]	230	A	A	A	A	A	250					
20						260	230	240	A	240	240	A	A	A	B	B	A	A	250					
21							A	230	230 ^H	290	A	A	A	A	A	A	250	270	260					
22							A	240	230	A	A	A	B	B	B	250	270	290 ^A	270					
23							240	240	250	230	A	210	B	B	A	A	A	A	A					
24							A	A	A	A	A	A	A	A	A	A	240	A	A					
25						280	A	C	A	A	230	220	A	A	B	A	230	250	A					
26							250	260	[240 ^A]	210	A	A	230	[240 ^A]	240	270	260	[260 ^A]	260					
27						300	A	A	270 ^A	A	A	A	A	A	A	A	A	A	A					
28						290	A	A	A	A	A	A	A	A	A	A	270	260	250					
29						250	A	A	A	A	A	A	A	A	A	220	240	A	A					
30						Q	A	A	220	210 ^H	A	A	A	A	A	A	A	A	A					
31																								
Mean Value						270	250	250	240	230	230	230	220	250	240	250	250	250	260					
Median Value						260	240	240	240	210	220	220	220	240	240	250	250	250	260					
Count						8	16	13	10	6	8	5	4	7	8	14	15	13	12					

R'F1

Swng 1.0 Mc to 17.2 Mc in 2 min

Manual

Automatic

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

foE

Jun. 1956

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

foE

Bweep 1.0 Mc to 17.2 Mc in 2 min
 Manual Automatic

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

Lat. 35° 42.4' N
Long. 139° 28.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

1956
Jun
f' E

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

1956
Jun
f' E

Sweep 1.0 Mc to 17.2 Mc in 2 min
 Manual Automatic

Lat. 35° 42.4' N
Long. 139° 23.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

fEs

Jun. 1956

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	4.5	6.7	9.0	6.0	4.8	5.5	3.6	5.2	6.6	6.5	5.7	5.4	5.0	5.8	6.2	3.8	4.4	6.1	14.0	9.5	9.5	6.0	8.2	6.0	
2	4.1	6.0	4.5	4.5	3.4	3.0	4.5	5.5	8.6	8.0	11.5	7.8	6.0	7.1	14.1	8.3	5.8	6.5	6.1	6.1	6.6	6.0	6.5	6.8	
3	7.0	12.5	9.0	6.3	6.5	4.2	5.5	6.4	7.0	10.6	7.2	10.2	7.5	7.5	10.5	7.5	3.9	6.0	3.8	3.6	3.8	3.3	3.1	5.7	
4	8.5	10.0	6.5	6.2	8.0	6.0	4.2	4.5	4.7	6.6	6.6	7.1	11.3	13.0	5.0	6.0	5.8	4.2	3.2	2.9	5.8	7.0	5.7	7.0	
5	4.5	6.5	4.5	2.9	3.2	2.9	3.4	5.7	7.0	5.8	9.1	9.0	6.5	5.6	6.0	5.6	9.4	9.0	6.8	3.1	2.4	4.4	3.8	5.7	
6	5.8	5.0	10.1	6.7	3.5	3.7	4.5	5.7	6.5	8.0	9.0	8.5	11.3	12.0	5.4	8.1	5.5	6.0	3.8	7.4	7.0	4.5	4.5	3.6	
7	3.9	5.8	5.8	3.3	4.0	1.9	6.0	6.0	6.2	13.1	6.0	4.0	3.8	3.9	3.7	3.6	3.7	4.5	4.4	5.4	6.6	8.5	7.0	5.9	
8	2.8	3.5	4.5	4.5	3.3	3.0	4.9	5.7	13.3	8.7	6.2	6.8	6.6	9.2	10.4	9.9	7.3	11.3	9.4	7.0	5.9	6.0	6.0	8.1	
9	9.0	6.9	6.9	3.9	4.5	2.9	6.7	10.0	8.6	11.5	12.9	10.5	10.1	4.4	4.2	5.9	4.5	4.9	5.9	6.7	5.9	3.7	8.5	E	
10	3.0	8.7	6.1	4.2	2.9	2.7	4.6	7.0	6.4	8.3	4.7	6.6	6.7	10.2	6.0	12.2	4.4	5.7	2.4	5.4	8.9	3.7	5.8	9.2	
11	2.4	5.4	2.4	6.8	5.9	3.5	3.8	5.2	6.3	6.0	7.1	6.6	5.2	6.0	6.5	7.5	6.0	7.0	4.4	4.1	2.3	3.3	4.5	2.8	
12	6.8	5.5	4.5	5.9	2.4	3.8	5.6	7.1	9.1	14.0	10.5	6.9	14.5	14.5	12.0	10.2	5.9	6.8	8.5	7.0	3.4	3.3	6.0	5.5	
13	6.0	E	7.0	4.0	4.1	3.6	6.0	6.0	7.4	13.5	10.1	7.0	8.0	6.3	10.1	13.4	6.2	5.9	3.0	3.5	3.2	5.6	8.5	10.4	
14	C	5.7	5.0	6.6	3.7	3.9	G	3.6	4.8	5.7	5.7	5.8	9.7	9.6	G	4.4	3.7	3.7	4.5	3.8	E	3.0	3.5	2.6	
15	2.9	2.0	2.0	2.4	2.1	2.9	3.9	7.3	7.9	6.1	5.4	6.8	5.9	7.1	3.8	4.4	5.1	5.6	4.0	4.5	3.0	3.5	3.7	4.5	
16	5.8	6.6	6.0	4.0	10.5	9.0	4.2	4.2	5.7	6.0	8.4	7.5	5.9	6.2	6.2	5.8	6.8	3.8	4.5	4.6	8.4	5.7	6.7	C	
17	2.5	2.1	3.6	3.4	4.5	2.5	4.5	6.1	6.2	9.8	6.5	6.6	6.3	4.7	5.1	G	3.8	4.7	3.0	3.5	3.0	3.6	6.0	5.1	
18	5.8	7.0	6.5	5.8	3.9	3.3	5.8	6.0	7.0	10.2	5.8	5.9	7.9	6.5	10.2	13.5	9.0	6.1	5.6	4.5	4.5	6.6	10.5	E	
19	3.5	3.7	4.6	4.5	5.7	7.0	6.0	6.4	6.0	5.5	3.8	G	4.5	G	9.5	7.4	6.0	5.5	3.8	3.5	E	E	2.0	2.9	
20	3.5	3.6	6.5	8.0	4.5	3.0	2.9	4.2	5.7	5.0	6.0	6.0	6.6	G	G	6.1	11.3	6.6	3.7	E	3.2	3.2	3.5	4.5	
21	6.7	8.5	6.6	4.5	3.5	3.7	4.6	3.5	4.0	5.8	8.8	7.5	10.5	13.0	13.7	6.0	5.6	6.0	3.7	E	E	E	2.9	2.9	
22	E	5.5	2.4	2.3	2.4	2.9	6.0	4.4	6.5	8.1	7.5	7.5	B	4.2	G	3.7	3.5	4.5	4.0	4.4	2.7	E	6.0	5.9	
23	6.0	3.8	4.5	4.1	3.0	2.1	2.9	4.3	3.8	5.8	4.1	4.4	3.6	6.1	12.0	12.2	10.0	5.3	7.0	4.9	6.0	3.0	2.3	4.5	
24	5.9	8.0	5.7	5.8	7.0	4.8	5.2	6.6	9.0	15.0	10.6	14.2	14.6	13.0	11.0	5.6	10.0	10.5	13.1	8.9	8.5	4.9	6.0	6.0	
25	4.2	3.4	2.5	1.8	C	2.9	5.7	C	7.5	7.0	6.5	G	8.6	4.4	8.1	(9.0)	3.7	4.4	4.9	3.0	3.9	3.3	3.0	4.6	
26	5.8	7.3	5.6	6.5	8.5	4.1	3.0	3.8	7.2	G	5.5	6.2	4.4	6.6	5.6	3.7	5.6	8.2	4.5	3.6	2.0	5.9	3.7	6.1	
27	7.2	6.6	6.6	7.9	5.8	2.8	6.2	6.4	6.1	7.5	10.0	14.2	10.9	6.8	12.2	7.3	9.1	8.5	12.5	7.0	4.3	6.7	4.4	8.5	
28	6.0	6.9	6.8	5.9	2.4	4.0	5.9	13.9	14.1	10.1	13.5	14.5	14.5	6.4	4.5	4.3	4.5	5.8	5.4	3.0	2.4	3.5	6.0	6.0	
29	6.1	8.6	3.8	2.3	1.2	3.0	5.7	8.3	8.0	6.3	8.0	10.6	5.1	10.5	6.0	6.0	5.3	8.4	8.9	5.6	(2.4)	2.1	4.2	6.5	
30	4.5	E	E	3.8	2.4	2.9	4.9	10.4	5.9	3.8	7.5	10.1	9.6	6.4	5.4	11.0	7.0	7.0	7.0	6.0	6.0	4.5	4.7	6.0	
31																									
Mean Value	5.2	7.1	5.5	4.8	4.4	3.7	4.9	6.2	7.1	8.2	7.7	8.0	8.0	7.7	7.9	7.3	6.1	6.3	5.9	5.1	4.9	4.6	5.2	5.7	
Median Value	5.8	5.9	5.6	4.5	3.9	3.2	4.8	6.0	6.6	7.2	7.2	7.0	6.7	6.4	6.1	6.0	5.7	6.0	4.5	4.5	3.8	3.7	5.2	5.7	
Count	29	30	30	30	29	30	30	29	30	30	30	30	29	30	30	30	30	30	30	30	30	30	30	29	

fEs

Bwgy 1.0 Mc to 17.2 Mc in 2 min

Manual Automatic

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

Lat. 35° 42.4' N
Long. 139° 29.8' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

(M3000)F2

Jun. 1956

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	2.7	2.7	2.7	2.8	2.9	2.8	2.9	2.7	2.7	2.7	2.6	2.7	2.7	2.6	2.8	2.8	2.9	2.9	(2.8) ^A	2.7	2.9	2.8	2.6	2.9
2	2.8	2.8	2.7	2.7	3.0	2.7	3.0	3.2	(2.8) ^A	2.5	(2.6) ^A	(2.6) ^J	2.7	2.8	A	A	2.8	2.9	3.1	3.0	2.7	2.5	2.5	2.7
3	AF	(2.7) ^F	F	(2.7) ^F	2.4	2.4	2.7	2.9	2.8	(2.5) ^A	2.2	A	A	A	2.6	2.7	2.8	2.8	2.9	2.7	2.6	2.7	2.7	2.6
4	(2.8) ^A	2.9	2.6	2.5	A	2.6	2.8	2.9	2.9	2.7	2.4	2.5	2.7	2.7	2.8	2.9	3.0	2.9	2.8	2.8	2.8	2.6	(3.0) ^J	2.7
5	2.7	(2.8) ^F	2.9	2.6	2.6	2.9	2.9	2.9	2.9	2.8	2.7	2.6	2.7	2.8	2.9	2.7	A	A	2.9	2.8	2.7	2.6	2.6	2.7
6	2.7	3.1	3.1	2.8	(2.6) ^F	2.4	2.5	2.9	3.1	2.8	(2.8) ^A	2.6	2.7	(2.8) ^A	2.8	2.9	2.9	2.9	3.0	3.0	2.7	2.6	2.7	2.7
7	2.7	(2.8) ^F	2.7	2.6	(3.1) ^F	2.6	2.5	2.7	2.8	A	2.3	2.6	2.6	2.8	2.8	2.9	2.9	3.0	2.9	(2.7) ^J	2.7	2.7	2.7	2.8
8	2.7	2.6	2.7	2.6	2.6	2.7	2.7	3.0	A	A	2.6	2.7	2.7	2.6	2.7	2.9	2.8	(2.8) ^A	2.8	2.7	2.6	2.6	(2.7) ^B	2.8
9	2.9	2.8	2.7	2.5	2.4	2.5	2.6	2.9	A	A	A	A	A	2.8	2.6	2.7	2.8	2.8	2.9	(2.8) ^A	2.8	2.7	2.7	2.7
10	2.7	2.6	2.9	2.7	2.7	2.9	2.8	2.7	2.6	2.6	W	W	2.4	(2.5) ^A	2.6	(2.8) ^A	2.9	2.7	2.6	2.8	2.7	2.6	2.7	(2.6) ^A
11	2.7	2.9	2.6	2.6	2.5	2.5	2.8	3.0	3.3	3.4	2.4	2.6	2.8	2.9	2.6	2.7	2.8	2.8	2.7	2.8	2.6	2.7	2.7	2.7
12	2.5	2.6	2.5	2.7	2.8	3.1	2.7	2.9	A	A	A	2.6	A	A	A	A	2.8	(2.7) ^J	(2.8) ^A	2.9	2.8	2.8	2.6	2.6
13	2.6	2.8	2.8	2.9	2.7	2.8	2.8	3.1	2.8	A	A	(2.6) ^J	2.6	2.6	A	A	2.7	2.8	3.0	2.8	2.7	2.7	2.7	A
14	C	2.9	2.8	2.7	2.7	2.7	2.9	2.8	2.7	2.8	2.5	2.7	A	2.7	2.6	2.7	2.7	2.7	2.8	2.7	2.5	2.6	2.6	2.6
15	2.5	2.6	2.7	2.7	2.6	2.6	2.6	2.9	2.8	2.7	2.7	2.7	2.7	2.6	2.7	2.7	2.8	2.9	2.8	2.7	2.6	2.5	2.5	2.5
16	2.8	2.8	2.7	2.6	2.7	2.5	2.6	2.9	2.8	2.7	2.4	2.6	2.7	2.8	2.9	2.7	2.6	2.8	2.8	2.8	2.7	2.6	2.6	(2.7) ^C
17	2.8	3.0	2.9	3.0	2.8	2.8	2.6	2.6	2.7	(2.7) ^A	2.7	2.5	2.6	2.5	2.7	2.6	2.6	2.9	3.0	2.9	2.8	2.5	2.6	(2.6) ^F
18	(2.7) ^F	2.9	(2.8) ^F	2.8	(2.8) ^F	2.7	2.7	3.0	2.9	(2.8) ^A	2.8	2.6	2.5	2.6	2.7	2.8	2.8	2.7	2.8	2.8	2.8	2.6	2.7	2.6
19	2.6	2.7	(2.7) ^F	2.6	2.8	3.0	2.8	3.0	3.0	(2.8) ^J	2.7	2.7	2.7	2.7	2.7	2.8	2.9	2.9	2.7	2.7	2.7	2.7	2.6	2.7
20	2.7	2.8	(2.8) ^F	(2.8) ^F	2.9	3.0	3.0	2.7	2.7	2.8	2.7	2.7	2.6	2.6	2.7	2.8	2.8	2.9	3.0	2.9	2.6	2.6	2.6	2.6
21	(2.7) ^J	2.7	(2.7) ^J	(2.8) ^F	2.8	3.0	2.9	3.0	2.9	2.8	2.6	2.5	2.7	2.6	(2.7) ^A	2.8	2.8	2.6	2.7	2.9	2.9	2.8	2.6	2.8
22	2.8	2.8	2.8	2.7	2.8	2.9	3.0	3.0	3.0	2.8	(2.8) ^A	2.7	2.5	2.6	2.6	2.7	2.9	3.0	2.7	2.7	2.7	2.5	2.5	2.6
23	2.7	2.7	2.7	(2.7) ^F	2.8	3.0	3.0	2.8	3.1	2.8	2.8	2.6	2.5	2.6	A	A	2.8	2.8	2.9	2.7	2.7	2.5	(2.7) ^B	2.4
24	2.7	2.6	2.8	2.8	2.6	2.5	2.7	2.7	A	A	A	A	A	A	A	2.8	2.8	2.8	(2.7) ^A	2.6	2.6	2.5	2.6	2.5
25	2.6	2.6	2.5	2.5	(2.6) ^C	2.7	3.0	C	A	2.7	2.8	2.7	3.0	2.9	2.9	2.6	2.9	3.1	3.0	2.8	2.6	2.5	2.6	2.7
26	3.1	2.9	2.5	2.5	A	2.6	3.1	3.3	(3.1) ^A	2.9	3.1	2.6	2.9	2.8	2.9	2.8	2.8	2.7	2.9	3.0	2.7	2.5	2.5	2.6
27	2.6	2.8	3.0	2.5	2.6	2.5	2.5	2.8	3.0	A	A	A	A	2.5	A	A	A	2.8	(2.9) ^A	3.0	2.5	2.5	2.6	2.7
28	3.0	(2.7) ^F	(2.6) ^F	(2.5) ^F	2.8	(2.6) ^J	2.5	2.8	A	A	A	A	A	2.7	2.8	2.8	2.8	2.9	2.9	3.0	2.7	2.7	2.6	2.6
29	2.6	2.7	3.1	2.9	(2.5) ^F	2.6	2.8	A	A	2.6	2.5	(2.6) ^A	2.7	2.9	2.8	2.8	2.9	3.0	(2.8) ^A	2.7	2.6	2.5	2.6	2.7
30	3.0	3.1	2.5	2.6	2.5	2.6	2.7	3.2	2.8	2.7	2.9	(2.8) ^A	2.7	2.9	3.0	A	A	2.9	2.8	2.8	2.6	2.5	(2.7) ^F	
31																								
Mean Value	2.7	2.8	2.7	2.7	2.7	2.7	2.8	2.9	2.9	2.8	2.6	2.6	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.7	2.6	2.6	2.7
Median Value	2.7	2.8	2.7	2.7	2.7	2.7	2.8	2.9	2.8	2.8	2.6	2.6	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.7	2.6	2.6	2.7
Count	28	30	29	30	28	30	30	29	23	22	23	25	23	27	24	24	27	29	30	30	30	29	29	29

(M3000)F2

Sweep 1.0 Me to 17.2 Me in 2 min
 Manual Automatic

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

fminF

Jun. 1956

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	2.7A	2.7A	A	1.6	3.2A	4.3A	2.8	4.5A	5.0A	5.0A	4.9A	4.9A	5.7A	4.9A	4.1	3.7	4.0	3.7	A	7.5A	A	2.3	7.5A	3.1A
2	2.0	1.5	1.6	2.5A	1.5	2.1	3.2	4.2	(4.6A)	5.0A	(5.0A)	4.9A	4.1	5.3A	A	A	5.0A	5.5A	7.5A	1.9	1.8	2.5A	4.4A	5.0A
3	A	4.5A	2.5A	AF	2.7A	3.1A	5.0A	5.5A	6.0A	A	5.4A	A	A	A	5.0A	4.3	3.5	3.1	2.5	2.1	2.6	1.9	2.0	4.1A
4	(3.0A)	2.0	2.0A	2.7A	A	2.2	3.4	3.8	4.0	6.1A	6.0A	6.6A	5.4A	5.4A	5.0A	4.2	3.4	3.4	2.6	2.5	1.7	5.0A	3.3A	5.0A
5	2.8A	3.4A	2.3	2.0	1.8	2.0	3.1	4.0	4.2	4.1	5.4A	5.3A	5.0A	5.0A	4.5	4.4	A	A	6.2A	2.3	1.6	2.1	1.5	4.1A
6	3.2A	3.2A	2.0	3.6A	1.8	2.1	3.5	4.1	5.1A	6.1A	(5.8A)	5.5A	7.5A	(5.8A)	4.2	8.0A	5.0A	4.9A	3.7A	4.2A	4.1A	3.4A	2.1	2.3A
7	2.6A	3.2A	2.0	1.7	1.5	2.1	3.2	5.0A	5.5A	A	4.1	4.2	4.2	4.3	4.1	4.0	3.6	4.0A	3.6A	3.9A	6.2A	2.0	3.0A	2.4
8	1.7	1.5	2.6A	2.7A	2.1	2.1	4.1A	5.0A	A	A	5.5A	6.1A	6.0A	7.5A	8.9A	8.0A	6.7A	A	8.7A	A	4.9A	5.2A	5.5A	4.0A
9	1.6	4.0A	(2.8A)	1.7	1.8	2.1	A	9.3A	A	A	A	A	A	4.4	4.3	4.9A	4.0	4.4A	4.9A	A	3.3A	1.5	5.4A	2.1
10	2.1	4.9A	1.9	1.5	1.4	2.0	4.1A	6.0A	4.9A	5.5A	4.1	A	5.2A	(5.0A)	4.9A	(4.5A)	4.1	4.4A	2.4	3.2A	5.2A	1.9	2.5A	4.9A
11	1.4	1.6	1.6	4.1A	1.9	2.1	3.2	4.2A	4.9A	4.9A	6.0A	4.3	4.9A	4.9A	4.1	4.9A	4.5A	4.9A	2.6	3.2	2.1	2.6	2.5	2.1
12	2.7	2.6	2.6	(2.0A)	1.5	2.7	2.9	6.4A	A	A	A	4.3	A	A	A	A	4.9A	5.4A	7.5A	6.1A	2.8A	2.1	2.0	2.0
13	1.7	1.0	1.5	1.6	2.0	2.5	5.0A	4.9A	6.4A	A	A	6.2A	4.9A	5.4A	10.0A	A	4.9A	3.8	2.7	3.1	2.3	3.8A	A	A
14	C	1.3	2.8A	3.1A	2.1	2.2	3.0	3.2	4.1	4.9A	4.9A	4.9A	9.5A	8.2A	4.9	4.0	3.1	3.2	3.3	2.8	1.7	1.9	1.2	1.5
15	1.4	1.3	1.4	1.4	1.2	2.1	3.2	6.3A	7.4A	5.0A	4.9	6.0A	5.0	4.9A	4.1	4.0	4.6	3.5	2.8	1.8	1.8	2.6	1.9	2.9A
16	2.4	2.1	1.9	1.7	2.7A	3.5A	3.3	3.5	5.0A	5.3A	7.0A	6.2A	5.0A	5.4A	5.0A	5.0	4.2	3.4	4.8A	3.3A	3.3A	4.0A	2.5	(2.0)C
17	1.4	1.5	1.8	2.5	3.4A	2.1	3.3	4.5	5.0A	(5.0A)	4.9	5.4A	5.0A	4.9	5.0A	4.1	3.4	3.3	2.6	2.4	1.6	1.5	1.6	4.0A
18	3.4A	4.9A	A	2.3	2.6	2.4	4.9A	4.0	5.5A	(5.2A)	4.9A	4.9A	6.7A	5.9A	4.9A	9.9A	8.1A	4.9A	5.1A	2.7	4.1A	5.0A	3.2	1.5
19	1.7	A	A	A	2.8	2.7	2.8	4.0	4.1	4.0	4.2	4.2	5.0	4.4	6.4A	5.2A	5.3A	4.2	3.1	1.8	1.6	1.7	1.7	1.8
20	2.5A	1.7	3.0A	3.2A	2.0	2.1	2.6	3.5	5.0A	4.4	4.9	5.0A	5.9A	5.0	5.0	5.0A	8.4A	5.4A	2.5	1.8	2.5A	2.5A	2.2A	A
21	5.0A	4.5A	A	A	2.0A	2.9	4.1	3.4	4.1A	5.0	8.0A	6.8A	8.0A	7.5A	(6.4A)	5.2A	4.2	4.1	3.0	1.5	1.5	1.5	1.8	1.7
22	1.6	1.5	E	1.1	1.1	2.1	5.0A	4.0	4.1	5.9A	(6.4A)	6.9A	5.0	5.2	4.9	4.1	4.0	4.0A	3.7	4.1A	1.8	1.6	1.7	2.0
23	4.0A	1.7	2.3A	1.3	1.3	2.1	3.3	3.4	4.0	4.9A	4.1	4.9	4.9	4.9A	10.1A	A	9.2A	4.1A	(3.6A)	3.2	4.1A	1.6	1.6	2.1
24	3.3A	4.9A	1.3	1.7	1.9	A	4.3A	6.4A	8.0A	A	A	A	A	A	A	4.9A	3.4	5.9A	A	7.5A	4.2A	3.2A	3.4A	4.9A
25	2.9	1.7	1.0	1.0	(1.6)C	2.1	4.9A	C	A	5.3A	4.4	4.4	5.0A	5.0	5.0A	4.1	4.0	4.0A	4.0A	2.7A	A	2.0	2.0	4.2A
26	A	A	3.2A	3.6A	5.4A	2.0	3.1	4.1	(4.1A)	4.1	4.9A	4.9A	4.6	5.5A	4.3	4.0	4.2	4.3A	2.7	2.2	1.5	2.1	3.0	3.7
27	4.1A	4.0A	3.0A	3.2A	2.8	2.1	4.9A	4.9A	4.1	A	4.1	A	A	A	A	A	A	3.6	(3.6A)	3.5A	4.2A	4.9A	3.4A	4.5A
28	A	2.5A	1.8	3.4A	1.2	2.6	4.0A	A	A	A	A	A	A	4.9A	4.9A	4.1	4.1	3.3	4.1A	2.5	4.2A	2.6A	2.0	(3.4A)
29	4.9A	A	1.0	1.0	E	2.1	4.1A	6.2A	A	4.9A	5.9A	(5.4A)	4.9A	4.9A	4.0	4.1	4.9A	7.5A	(6.2A)	4.9A	1.5	2.0	3.4A	(3.0A)
30	2.6	1.3	1.4	E	E	2.1	4.9A	5.4A	3.4	4.0	5.0A	(5.2A)	5.5A	4.5	4.9A	A	A	7.8A	6.2A	4.4A	3.6A	2.0	(2.5A)	3.5A
31																								
Mean Value	2.6	2.6	2.1	2.2	2.1	2.4	3.4	4.8	4.9	5.0	5.2	5.3	5.5	5.3	5.3	4.9	4.8	4.4	4.2	3.3	2.8	2.6	2.8	3.1
Median Value	2.6	2.1	2.0	2.0	1.9	2.1	3.4	4.4	4.9	5.0	4.9	5.0	5.0	5.0	4.9	4.4	4.2	4.1	3.6	3.0	2.4	2.1	2.5	3.0
Count	26	27	26	27	29	29	29	28	24	21	25	24	24	27	26	24	27	28	28	28	28	30	29	28

fminF

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

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

fminE

Jun. 1956

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	1.5	1.5	E	E	1.0	1.6	1.7	2.0	2.6	2.0	2.3	2.2	1.9	2.0	2.0	1.7	2.0	1.6	1.5	1.6	1.6	1.5	1.5	1.5	
2	1.5	1.5	E	E	1.0	1.5	1.6	2.0	2.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.7	1.6	1.5	1.5	1.6	1.6	1.6	
3	1.6	1.5	1.0	E	E	1.4	1.6	2.0	5.0	3.3	3.5	3.3	1.6	2.0	2.0	2.0	1.7	1.5	1.6	1.5	1.5	1.6	1.6	1.6	
4	1.5	1.5	E	E	E	1.5	1.8	2.8	1.5	2.2	2.0	2.2	2.1	2.1	2.0	1.9	2.0	1.6	1.7	1.5	1.5	1.5	1.5	1.5	
5	1.6	1.6	1.1	E	E	1.5	1.7	1.8	1.8	1.6	2.6	2.0	2.0	2.1	2.1	2.0	1.8	2.2	1.7	1.5	1.5	1.6	1.5	1.7	
6	1.6	1.4	E	E	E	1.5	1.6	1.6	1.7	2.0	2.1	2.0	2.0	1.9	2.0	3.5	1.8	1.7	1.6	1.6	1.6	1.6	1.6	1.6	
7	1.5	1.5	E	E	1.0	1.4	1.7	1.7	1.9	2.9	2.5	2.0	2.4	2.3	2.0	2.1	2.0	1.7	1.7	1.6	1.6	1.6	1.5	1.5	
8	1.5	1.7	E	E	E	1.7	1.6	2.0	2.0	2.1	2.5	2.2	2.5	2.5	2.2	2.1	1.7	2.0	1.8	1.6	1.5	1.5	1.5	1.5	
9	1.5	1.2	E	E	E	1.3	1.7	1.7	2.1	2.1	2.1	2.2	2.5	1.5	1.6	2.1	1.8	1.7	1.6	1.4	1.5	1.5	1.5	E	
10	1.4	1.5	1.0	E	E	1.0	1.4	1.6	1.8	1.8	1.7	2.1	2.3	2.5	2.0	2.1	1.5	1.8	1.6	1.5	1.6	1.5	1.5	1.4	
11	1.5	1.4	E	E	E	1.5	1.7	1.6	2.1	1.6	1.8	1.7	1.9	2.7	2.1	1.8	1.9	1.8	1.7	1.5	1.5	1.1	1.5	1.4	
12	1.5	1.4	E	E	E	1.7	1.7	1.6	2.2	2.0	2.3	2.3	2.0	2.9	2.0	2.0	2.0	2.0	1.7	1.7	1.6	1.6	1.5	1.5	
13	1.5	E	E	E	E	1.5	1.7	1.8	1.8	2.1	2.2	2.2	2.1	2.4	2.1	2.1	1.6	1.8	1.7	1.3	1.5	1.7	1.4	1.3	
14	[1.3] ^c	1.3	E	E	1.0	1.3	1.6	1.6	1.8	1.6	2.1	1.6	2.1	4.9	2.4	1.8	2.1	1.8	1.5	1.6	E	1.5	1.5	1.5	
15	1.4	1.6	E	E	E	1.6	1.6	1.6	2.5	2.0	2.4	2.6	2.0	2.4	2.0	2.0	1.6	1.7	1.7	1.5	1.6	1.6	1.5	1.5	
16	1.5	1.5	E	E	E	1.5	1.6	1.8	2.0	2.1	2.1	2.0	2.0	2.5	2.0	2.0	1.7	1.7	1.5	1.5	1.5	1.5	1.5	[1.5] ^c	
17	1.5	1.5	E	E	E	1.5	1.9	1.6	2.1	2.1	2.0	2.3	2.4	2.5	2.0	2.0	2.0	1.7	1.7	1.5	1.5	1.5	1.5	1.5	
18	1.5	1.5	E	E	E	1.5	1.7	1.7	1.6	2.1	2.4	2.4	2.3	1.9	2.1	2.3	1.7	1.6	1.6	1.4	1.7	1.7	1.5	E	
19	1.4	1.4	E	E	E	1.4	1.5	1.5	1.7	2.0	2.0	2.6	2.6	2.0	2.6	2.0	1.8	2.0	2.0	1.7	E	E	1.7	1.5	
20	1.6	1.5	E	E	E	1.5	1.7	2.0	2.2	2.0	2.5	2.3	2.8	3.0	2.5	2.3	2.0	2.0	2.1	E	1.6	1.5	1.5	1.5	
21	1.6	1.5	1.0	E	E	1.6	1.9	2.0	2.6	2.0	2.8	2.8	2.4	3.1	2.1	2.1	2.0	2.0	2.1	E	E	E	1.5	2.0	
22	E	1.6	E	E	E	1.5	1.7	2.0	2.0	2.0	2.3	2.5	[2.4] ⁸	2.2	2.0	2.0	2.0	1.6	1.7	1.5	1.5	E	1.5	1.5	
23	1.5	1.5	E	E	1.5	1.5	1.7	1.7	1.9	2.1	2.3	2.3	3.3	2.1	2.0	2.1	2.1	1.7	1.1	1.4	1.5	1.5	1.5	1.6	
24	1.3	1.4	E	E	E	1.5	1.6	1.6	2.1	2.1	1.7	2.5	1.9	2.7	2.7	2.0	2.1	1.7	1.6	1.4	1.4	1.3	1.5	1.5	
25	1.5	1.4	E	E	E	1.4	1.7	[2.0] ^c	2.4	2.1	2.1	3.3	3.4	2.3	2.3	2.0	1.7	1.9	1.5	1.5	1.6	1.7	1.6	1.6	
26	1.5	1.5	E	E	E	1.5	1.6	2.0	2.0	2.1	2.1	2.1	2.1	3.4	2.4	1.7	2.1	1.6	1.5	1.6	1.5	1.4	1.5	1.6	
27	1.2	1.3	E	E	E	1.7	2.1	2.1	1.7	1.8	1.5	1.6	1.7	1.6	1.6	1.7	1.5	1.8	1.6	1.5	1.6	1.5	1.7	1.6	
28	1.4	1.4	E	E	E	1.6	2.0	2.1	1.5	2.1	2.0	3.2	2.2	1.6	2.1	1.6	1.7	1.5	1.4	1.3	1.3	1.3	1.5	1.5	
29	1.4	1.4	E	E	E	1.4	1.6	1.7	2.2	1.6	1.5	1.6	1.5	1.5	1.8	2.1	1.5	1.4	1.6	1.4	1.7	1.5	1.4	1.5	
30	1.4	E	E	E	E	1.5	1.5	1.5	1.4	1.9	2.1	2.1	2.0	2.0	2.1	2.0	2.1	1.8	1.6	1.6	1.6	1.6	1.5	1.4	
31																									
Mean Value	1.5	1.5	1.0	1.0	1.0	1.5	1.7	1.8	2.1	2.0	2.2	2.3	2.2	2.4	2.1	2.0	1.9	1.8	1.6	1.5	1.5	1.5	1.5	1.5	1.5
Minimum Value	1.5	1.5	E	E	E	1.5	1.7	1.8	2.0	2.0	2.1	2.2	2.1	2.2	2.0	2.0	1.8	1.7	1.6	1.5	1.5	1.5	1.5	1.5	1.5
Count	30	30	30	30	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

fminE

Sweep 1.0 Me to 17.2 Me in 2 min

Manual Automatic

IONOSPHERIC DATA

135° E Mean Time

YPF2

Jun. 1956

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	60	80 ^F	60 ^F	90 ^F	130	60	100	80	100	80	100	90	70	80	80	80	60	50	[60] ^A	80	70	70	A	60	
2	70 ^F	80 ^F	60 ^F	50 ^F	70	90	[170] ^A	90	[80] ^A	90	[70] ^A	(50) ^J	40	50	A	A	70	60	[60] ^A	60	130	80 ^F	70 ^F	50	
3	A ^F	(90) ^F	F	(90) ^F	70 ^F	90 ^H	90	70	A	A	A	A	A	A	A	60	80	80	90	90	90	80	70	70 ^V	
4	[80] ^A	80	60 ^F	60 ^F	A	120	80	80	90	A	A	A	70	90	80	90	A	A	70	80	60	50	(70) ^J	80	
5	70	(60) ^J	80 ^V	80 ^F	100 ^F	60 ^F	70	80	70	100	90	90	80	90	[80] ^A	70	80	80	90	100	60	70	70	70	
6	60	50	60 ^F	90 ^F	(70) ^F	110 ^F	110	80	30	90	A	50	A	A	90	50 ^P	40 ^P	70	80	100	(100) ^J	70	80	70	
7	60 ^P	(70) ^J	90 ^F	90 ^F	(60) ^J	60 ^H	70	90	100	A	U	90	60	60	50 ^P	60	40 ^P	70	80	100	(100) ^J	70	80	70	
8	70	90	110	80	90	70 ^H	90	70	A	A	U	60	60	A	A	80	90	A	A	110	90	100	(70) ^B	70	
9	60	70	90	80 ^F	80 ^F	90 ^H	110	A	A	A	A	A	A	U	U	90	60	80	90	[80] ^A	60	70	90	70 ^F	
10	70	80 ^S	90 ^F	110 ^F	50 ^F	90 ^F	110	A	A	A	W	W	50	A	U	A	80	80	70	90	80	100	70 ^P	(70) ^F	
11	80 ^F	70	70 ^F	70 ^F	120	130	100	100	100	30	A	100	70	50	U	100	100	80	80	110	90	120	60	80	
12	100	120	120	80	90	700	90	60	A	A	A	50	A	A	A	A	70	(70) ^J	[60] ^A	50	50	70	60	80	
13	60 ^F	60 ^F	90 ^F	50	90	100	80	70	80	A	A	(50) ^J	100	120	A	A	80	90	90	80	100	90	A	A	
14	C	90 ^V	70	70 ^Z	70 ^F	100	90	140	120 ^H	100	110	80	A	A	A	100	110	100	100	100	130	70	60	80	
15	120	80	90	80	90	100	150	70	[80] ^A	90	60	80	70	100	70	80	90	70	100	100	100	100	70	100	60
16	50	90	70	70	50	110	60	70	100	120	120	90	90	70	50	90	80	80	80	80	70	110	80	90	[80] ^C
17	80 ^F	50 ^F	80 ^F	90	80	90	100	100	80	[80] ^A	90	110	90	90	90	120	60	80	70	70	80	80	80	(60) ^J	(90) ^F
18	(70) ^F	40 ^F	(70) ^F	70 ^F	(80) ^F	110	110	80	90	[80] ^A	70	60	90	100	90	90	90	100	100	100	100	100	100	90	60 ^Z
19	50 ^F	60 ^F	(80) ^F	70 ^F	90	80	80	110	70	U	80	50	80	80	80	60	70	60	80	80	90	70	80	60	60
20	50	60 ^F	(50) ^F	(70) ^F	50	80	90	90 ^H	100	110	90	60 ^H	60	110	90	100	[80] ^A	50	70	90	80	40	50 ^P	80	70
21	(80) ^J	60	(60) ^J	(50) ^J	80 ^F	80 ^H	80	90	90	100	[80] ^A	70	[80] ^A	80	[80] ^A	90	70	100	100	90	80	70	70	60	60
22	70	50	80	70	80	60	90	60	100	80	A	80	70	50	70	70	70	60	80	90	80	90	90	80	80
23	60	60	70 ^F	(60) ^F	50	110	90	70	70	110	150	120	100	90	A	A	A	110	80	90	90	100	(60) ^B	90	
24	70 ^F	80 ^F	70	80	110 ^F	130	90	100	A	A	A	A	A	A	A	90	90	120	A	A	100	80	70	80	
25	90	90	120	100	[100] ^C	100	120	C	A	A	50	70	60	60	80	100	70	60	90	60	100	70	90	100	
26	A	80	140	110	A	100	50	40	[60] ^A	90	30	U	80	120	70	90	100	100	90	70	100	80	100	70 ^F	
27	80	100	70	80 ^F	80 ^F	90	120	100	80	A	A	A	A	U	A	A	A	100	[100] ^A	110	80	90	70	80	
28	60	(60) ^F	(60) ^F	(70) ^F	60 ^F	(90) ^J	90	A	A	A	A	A	A	U	50	80	70	70	90	90	80	60	70	80	
29	70 ^F	50	70	100 ^F	90	100	A	A	A	A	A	A	80	80	70	90	80	A	A	100	90	100	80	80	
30	60	90	140 ^V	90	90 ^F	120	110	80	130 ^H	U	U	A	90	70	80	A	A	70	80	90	80	70	60	(60) ^F	
31																									
Mean Value	70	70	80	80	80	100	90	80	90	90	90	70	80	80	80	80	80	80	80	80	80	90	80	70	70
Median Value	70	80	70	80	80	100	90	80	90	90	80	70	80	80	80	80	80	80	80	80	90	80	70	70	70
Count	27	30	29	30	28	30	25	30	21	15	15	20	22	20	20	23	26	27	27	29	30	30	28	29	

YPF2

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

Lat. 31° 12.6' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

135° E Mean Time

Jun. 1956

foF2

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	[7.4] ^S	7.5	7.3	6.6	6.1	5.9	M	M	M	8.6	9.2 ^H	9.9	10.6	10.7	11.1	[11.0] ^S	10.9	S	S	(9.8) ^P	[9.2] ^S	8.7 ^Z	8.7 ^J	8.9
2	9.0	11.0 ^S	[7.6] ^S	8.1	8.3	7.5	9.0	8.3 ^H	9.0	9.5	9.5	7.6 ^J	A	A	A	A	9.6	9.5	[9.0] ^S	8.6	[8.3] ^A	8.0	8.5	[8.6] ^S
3	8.7	8.5 ^V	8.1	7.3	(7.1) ^P	6.6 ^H	8.8	8.5	B	A	A	B	6.6	(7.0) ^P	6.5	7.3	7.6	7.6	6.9 ^H	7.5	7.1	[7.2] ^S	(7.2) ^P	7.2
4	6.9	C	C	C	C	C	8.1	8.4	8.0 ^H	8.0	8.5	9.4	10.5	10.7	10.5	10.5	10.5	[10.2] ^S	9.9	[9.4] ^S	8.9	8.5	S	9.3
5	8.6	[8.6] ^S	8.5	6.6 ^J	6.0	6.3	6.4	9.4	9.0	8.8	9.2	9.3	10.3	10.7 ^H	10.3 ^H	10.3	10.0	10.0	10.0	9.0 ^H	8.2	[8.6] ^S	9.0	S
6	S	S	8.2 ^S	6.6	6.3	6.3	8.0	10.4	8.5	6.7 ^H	6.4 ^H	8.0	9.7	10.0	9.4	10.0	10.1 ^J	A	A	7.9 ^H	8.0	8.2	[8.7] ^S	9.2
7	8.7	9.1	10.0 ^J	7.5 ^H	7.9	7.2	8.4	11.0	9.8	9.0 ^H	9.1 ^H	9.7	10.0	11.5	11.8	12.0	11.0	9.6	9.3	9.0	9.6	8.7	7.9 ^H	8.0
8	8.5	7.8	7.2	6.8	6.2	6.5 ^H	7.8	7.8	6.2	A	7.6	8.3	9.0	9.5	9.8 ^H	10.8	10.8	11.0 ^S	[10.0] ^S	9.0	9.0	8.5	8.3	8.5
9	8.3	7.9	[7.6] ^S	7.2	6.5	6.5	9.5	10.0	8.7 ^H	9.0 ^H	[10.2] ^A	11.3	C	C	C	C	8.7	A	A	9.5	8.1	[8.2] ^S	8.3	
10	[8.2] ^S	8.0 ^J	7.3	6.4	5.5	6.0	6.9	9.0	9.3	7.1	6.5	6.5	7.0	[7.2] ^A	7.5	7.5	7.2	7.5	7.5	A	A	7.0	7.2	FS
11	A	8.0	6.7	F	F	F	7.7	S	A	6.2	7.3	9.0	9.0	9.8	9.7	10.2	11.7	11.2	[10.1] ^S	9.0	9.5 ^P	8.5	8.3	[8.9] ^S
12	9.5	8.6 ^S	9.0	9.0	7.5	7.2	[8.6] ^S	10.0	8.6	8.3	8.1 ^H	A	A	A	A	9.9	8.6	9.5	10.5	8.3	8.8	8.5	[8.5] ^S	8.5
13	FS	FS	FS	7.5	7.0	6.7	7.3	7.9 ^H	7.8	8.7	8.9	8.6	8.9	9.5	[10.4] ^S	11.3	[11.8] ^A	12.3	[11.6] ^S	10.8	S	S	S	S
14	S	S	S	S	9.0	8.7 ^S	8.4	8.5	8.4	9.0	8.8	9.0	S	S	S	11.0 ^H	12.0	11.5	11.0	[10.8] ^S	10.7	[10.4] ^S	10.0	S
15	S	9.2	9.5	9.5	8.5	8.0	9.2 ^H	[9.5] ^S	9.8	8.9 ^H	8.6 ^H	9.3	S	S	12.0 ^Z	A	SH	11.0	[10.6] ^S	10.3	9.0	[10.0] ^S	11.0	S
16	9.5	[9.2] ^S	8.8	8.2	8.3 ^J	8.4	[9.6] ^S	10.9 ^J	9.7	8.7	9.6	10.0	11.5	[11.2] ^A	11.0	11.2	11.5	11.7 ^H	(12.4) ^J	S	A	S	S	[10.1] ^J
17	S	S	S	7.3 ^H	6.3 ^H	6.9	7.9 ^H	9.4	9.3	8.5	8.7	9.5	9.7	10.4	10.0	12.0	10.5	10.4	11.5	10.4	9.5	7.3	7.9	8.5
18	8.7	C	C	C	C	C	C	C	C	C	C	C	C	C	C	12.5	[12.4] ^S	12.2	[11.6] ^S	11.1	S	S	S	S
19	S	S	S	9.3	[8.6] ^S	8.0	8.6	9.3	7.9 ^H	7.8	7.7	8.5	9.0	9.2	9.8	10.0	9.6	9.9	10.5	S	S	9.0	SH	S
20	S	8.7	9.2	7.6	(6.9) ^P	7.2	8.0	8.5	8.4 ^H	8.8	9.1	8.6 ^H	8.6 ^H	9.8	9.6	9.7	10.7	10.1	10.0 ^S	[8.9] ^A	7.8	8.2	[8.4] ^S	8.6
21	S	FS	S	A	6.8	[7.4] ^A	8.1	9.8	(8.7) ^S	8.9 ^H	8.6 ^H	8.8 ^H	10.0	S	S	10.8	[10.2] ^S	9.5 ^H	9.8 ^J	S	S	S	S	9.3
22	9.3	8.6	[8.7] ^S	8.8	8.4	8.0	8.0 ^J	8.5 ^H	8.3 ^H	6.5	7.5 ^H	8.3 ^H	8.9 ^H	9.5 ^H	9.8 ^H	10.9 ^H	[10.2] ^J	9.5	9.1	9.0	8.7	[8.5] ^S	8.3	[8.5] ^S
23	8.7	S	S	8.6	8.8	8.5	7.3	8.3	8.5 ^H	8.4	8.5	9.0	9.6	11.0	11.4	11.8	11.5	10.6 ^S	[10.8] ^S	11.0	[10.0] ^S	8.9	[8.8] ^J	8.8
24	S	S	S	8.5	7.1	6.8	7.9	8.2	7.0	6.8	7.8 ^H	8.0	9.2 ^H	[10.6] ^J	11.9 ^H	12.0	11.5	11.7	11.0	[10.5] ^J	10.0	9.1	SH	SH
25	S	S	10.3 ^S	8.7	8.7	8.4	8.0	7.4	7.1	8.4	[8.4] ^A	8.5	S	A	SH	SH	10.5 ^H	10.9	10.2	8.1 ^J	8.1 ^J	6.8	[6.8] ^S	6.9
26	S	C	A	6.1	[5.8] ^C	5.5 ^H	6.5	7.8	6.4	6.8	7.9	8.6	9.0	10.3	11.0	10.0 ^J	10.7	S	S	S	S	9.5 ^J	S	S
27	S	S	S	8.5	6.3	6.2	5.8	7.6	6.7	5.7	A	A	A	A	6.9	6.8	7.8	8.5	8.3 ^J	7.0	6.2	6.3	6.4 ^P	6.3
28	6.2	A	A	A	F	6.4 ^F	6.5	6.2	6.0	5.6	6.0	B	B	8.0	8.7	8.4	8.5	8.8	9.3	7.6	7.5	6.9 ^J	6.4 ^J	S
29	S	9.0	8.5	5.5	5.5 ^F	[6.0] ^F	6.4 ^P	7.8 ^P	[7.1] ^A	6.4 ^H	6.8	8.7	9.0	9.7	10.5	11.5	10.9	10.2	9.7	[9.0] ^S	8.2	8.8	[8.5] ^S	8.2
30	8.1 ^J	6.5	6.2	6.8	6.3	5.8	[6.9] ^B	8.0	7.0	7.0	7.3	8.0	9.0	9.4	9.2	8.7	8.6	9.5 ^P	(9.9) ^J	[9.3] ^S	8.7	[8.6] ^S	8.4	8.5
31																								
Mean Value	8.4	8.5	8.4	7.5	7.1	7.0	7.9	8.8	8.2	7.9	8.2	8.8	9.3	9.8	9.9	10.2	10.2	10.2	10.0	9.2	8.6	8.4	8.3	8.5
Median Value	8.6	8.6	8.5	7.4	7.0	6.8	8.0	8.5	8.7	8.4	8.5	8.7	9.0	9.8	10.0	10.4	10.5	10.1	10.0	9.0	8.7	8.5	8.4	8.5
Count	16	16	19	24	26	27	28	27	26	27	27	25	21	21	23	26	28	27	26	24	23	26	22	20

Automatic

Manual

Sweep 1.0 Mc to 2.20 Mc in 1 min

foF2

Y 1

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

Lat. 31° 12.6' N
 Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

R'F2

Jun, 1956

135° E Mean Time

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	290	310 ^A	300	260	240	260	M	M	M	320 ^A	300 ^A	400	(390) ^A	340 ^A	340	340	310	300	300	260	250	290	350	340 ^A
2	340 ^A	340 ^A	300 ^A	290	290	240	240 ^H	300	300	A	A	A	A	A	A	A	320	290	280	250 ^A	[300] ^A	350 ^A	340	300 ^A
3	290	290	270	250	320	340 ^H	280	270	B	A	A	B	A	440	[420] ^H	400	360	340	260 ^H	290	290 ^A	290	290	300
4	300	C	C	C	C	C	250	250	250 ^H	(340) ^A	430	370	(430) ^A	340	(330) ^A	(350) ^A	330	310	300	300	270	280	330 ^A	350
5	300	280	250	240	270	290	240	260	280	290	370	(430) ^A	370	300 ^H	310 ^H	340	330	310	280	240 ^H	280 ^A	320	320	320 ^A
6	260	250	230	250	(390) ^A	290	290	250	240	250 ^H	LH	450	370	340	340	340	320 ^A	A	A	250 ^A	320 ^A	340	340	280
7	300	300 ^A	290	310 ^A	300 ^A	300	300	280	270	280 ^H	270 ^H	350	(380) ^A	340	320	310	290	290	280	260	270	240	290 ^H	350 ^A
8	280	290	290	290	290 ^H	290 ^H	290	280	580	A	A	390	370	360	300 ^H	340	320	300	290	290 ^A	270	290	300	300 ^A
9	280	290	270	250	330 ^A	300	300	300	250 ^H	310 ^A	[310] ^A	310	C	C	C	C	C	310	A	A	A	300	350 ^A	300
10	290	290	270	250	290	270	250	300	270 ^A	(380) ^A	490	520	A	A	400	380	[360] ^A	340	A	A	A	300	300	300
11	(380) ^A	270 ^A	280 ^A	340	340	300	250	270 ^A	A	A	440	390	390	370 ^A	370	360	320	300	290 ^A	(300) ^A	310 ^A	260	300 ^A	330
12	300	330	290	250	250	290	280	240	240	A	AH	A	A	A	A	360	340	340	310	290	250	270	300	300
13	320 ^A	320 ^A	270	300 ^A	290	290	250	250 ^H	260	340	330	310	400	420	390 ^A	370	[350] ^A	330 ^A	300	280	A	A	350 ^A	300 ^A
14	350 ^A	270	280	300 ^A	250	280	240	240	250	330	300	360 ^A	A	B	370 ^A	300 ^H	340 ^A	300	290	280 ^A	290	310 ^A	320	280 ^A
15	300 ^A	330	300	300	240	280	300 ^H	290	260	[260] ^H	250 ^H	380 ^A	350	350	[320] ^A	300 ^H	300 ^H	290	(300) ^A	280 ^A	290 ^A	300	290	310
16	300	260	300 ^A	300 ^A	350	340 ^A	270 ^A	250	260	A	(400) ^A	(390) ^A	370 ^A	[340] ^A	(310) ^A	370 ^A	360 ^A	260 ^H	300	270 ^A	[310] ^A	350 ^A	340	300
17	300	270	220	200 ^H	240 ^H	290	240 ^H	240	250	300	A	A	350	370 ^A	340	360	350	300	270	250	240	310	300	300
18	320	C	C	C	C	C	C	C	C	C	C	C	C	C	C	320 ^A	A	A	300 ^A	270 ^A	260	280	290	300 ^A
19	330 ^A	300 ^A	280	260 ^A	290 ^A	300	250	250	240 ^H	300	390	L	360	340	360	340	340	340 ^A	310	300	290	260	280 ^H	340 ^A
20	340 ^A	290	270	300 ^A	300 ^A	300 ^A	250	250	250 ^H	320	330	270 ^H	290 ^H	370	380	360	340	300	270	[280] ^A	280	340 ^A	330	360 ^A
21	300 ^A	330 ^A	290	[280] ^A	260	[260] ^A	250	250	260	290 ^H	[270] ^H	250 ^H	400	370	350	340	300	280 ^H	300	250	240	240	340	300
22	300	330	290	260	260	250	240	240 ^H	250 ^H	250	280 ^H	260 ^H	330 ^H	270 ^H	340 ^H	320 ^H	280 ^H	290	300	290	270	290	340	340
23	320	320	300	290	250	240	240	240	250 ^H	270	[320] ^A	380	400	350	340	330	320 ^A	300	300	270	260	270	300 ^H	320
24	300	280	240	240	250	300	300	270	(290) ^A	[290] ^A	290 ^H	[340] ^A	400 ^H	340 ^H	300 ^H	310	310	300	270	250 ^H	270	290	300 ^H	320 ^H
25	340	300	300	300	300	260	280	290	320 ^A	350	A	A	350 ^A	[330] ^A	310 ^H	310 ^H	300 ^H	270	280	240	290 ^A	330 ^A	340	300
26	270	C	A	370 ^A	[340] ^C	300 ^H	240	250	250	280	360	320	340	330	300	300	250	320	270 ^A	260	240	280	300	340
27	340 ^A	270	230	240	330	340	350	330	380	A	A	A	A	390	440	450	380	310	280	290 ^A	280	300	300	340
28	300 ^A	A	A	A	310 ^A	300 ^A	300	340	410	470	440	460	390	350	350	320	330	310	260	310	280	270	(360) ^B	350
29	(350) ^A	300	250	270 ^A	(390) ^A	310 ^A	330 ^A	270	280 ^A	340 ^H	340	390	360	350	340	310 ^A	290	290	270	290	290	270	290	350
30	280	240	350 ^A	280	240	290	270	250	240	330 ^L	(360) ^A	390	350	320	340	(350) ^A	340	340	290	260	260 ^A	290	300	290
31																								
Mean Value	310	290	280	280	290	270	270	270	280	310	350	370	370	350	350	340	330	310	290	270	280	290	320	320
Minimum Value	300	300	280	280	290	260	250	260	260	300	330	380	370	340	340	340	320	300	290	280	280	290	310	300
Count	30	26	26	27	28	28	28	28	26	22	21	22	22	24	26	28	28	28	28	28	28	28	30	30

Sweep 1.0 Mc to 22.0 Mc in 1 min Manual Automatic

R'F2

Y 2

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

Lat. 31° 12.6' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

135° E Mean Time

Jun, 1956

fEs

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	2.3	5.9	5.9	3.6	2.9	2.3	M	M	M	6.5	5.9	6.5	8.5	6.8	4.9	5.9	5.9	5.9	2.3	2.3	5.9Y	2.3	5.9	6.5
2	7.0	8.9	6.5	2.9	3.0	3.0	5.9	4.6	5.9	10.7	11.1	8.9	10.0	15.5	15.5	12.3	8.9	6.3	6.3	8.9	5.9	4.0	4.0	3.3
3	3.5	2.4	3.3	3.6	3.4	3.3	8.0	4.8	8.0	13.8	12.2	7.0	7.3	5.6	6.3	5.9	3.6	5.9	2.3	2.3	3.6	2.0	2.2	3.3
4	3.7	C	C	C	C	C	6.1	3.6	5.9	6.1	5.9	4.6	5.8	5.9	6.5	7.8	5.3	3.5	3.3	3.8	3.8	3.1	4.8	7.0
5	3.5	3.6	3.6	2.9	2.4	2.4	3.5	3.5	4.6	5.5	5.7	9.1	6.6	5.9	5.9	5.3	5.0	4.7	3.7	3.6	3.6	3.3	5.0	5.9
6	3.2	3.5	3.5	3.2	5.0	5.2	5.9	5.9	5.9	5.2	3.8	5.1Y	5.9	5.9	5.9	5.5Y	6.9	11.5	13.0	3.6	5.0	3.2	5.9	3.0
7	3.0	3.6	2.3Y	5.0	5.8	3.2	5.9	5.0	6.5	7.0	8.5	6.8	13.0	6.8	3.8	5.9	5.9	3.7	3.0	3.0	3.0	2.4	3.6	5.9
8	5.9	4.8	3.0	3.1	2.4	2.4	3.5	5.9	6.0	6.5	7.4	7.1	4.7	5.2	3.8	5.9	5.9	7.0	4.5	4.5	2.9	2.3	2.6	2.4
9	2.3	3.2	3.2	3.5	3.5	2.8	3.5	6.4	5.0	6.5	11.5	3.8	C	C	C	C	C	4.3	10.7	11.5	13.5	7.0	9.5	3.4
10	6.2	3.0	5.9	3.0	2.6	2.3	5.9	5.9	6.4	6.6	6.6	B	9.5	13.0	5.9	5.9Y	8.1	6.8	8.9	9.0	13.8F	5.9	3.3	3.0
11	8.9	5.9	4.8	3.7	3.5	2.4	3.7	7.7	10.5	9.5	6.3	6.6	6.8	7.3	6.2	5.5	5.9	5.8	6.3	8.0	5.9	3.3	3.3	2.4
12	2.3F	2.9	2.9	2.3	3.6	2.4	3.0	5.9	5.9	8.0	6.3	9.7	13.1	13.5	10.7	8.9	8.0	5.4	3.8	3.6	2.4	2.2	2.3	3.1
13	5.9Y	8.9	8.9	5.9	3.6	3.5	5.7	5.1	5.9	4.9	5.9	5.9	8.0	7.5	8.5	8.4	14.6	9.5	7.2	5.9	9.2	3.8	5.8	5.9
14	6.8	5.9	6.3	3.7	3.6	2.4	5.9	5.9	4.5	5.8	7.0	7.2	8.9	9.5	8.9	5.0	8.5	6.5	5.9	4.5	5.9	3.6	3.4	3.1
15	2.4	5.9	3.0	3.2	3.5	2.3F	3.7	5.9	6.2	7.2	5.9	7.2	5.9	5.6	4.7	15.4	5.9	5.9	7.0	4.8	3.5	3.1	2.3	2.3
16	2.3	2.2	5.5	5.9	5.9	4.9	4.9	5.0	5.6	7.8	7.2	8.5	8.9	13.0	6.8	9.2	8.9	5.3	7.0	7.0	9.2	5.8	3.2	3.4
17	3.5	3.8	3.5	2.4	2.4F	2.3	5.9	5.9	5.9	5.9	11.2	9.7	5.9	7.8	5.9	4.7	5.0	5.9	5.1	3.6	2.3	2.4	2.2	2.4
18	5.9	C	C	C	C	C	C	C	C	C	C	C	C	C	C	13.0	11.7	11.5	8.7	8.9	3.3	3.1	5.9	7.0
19	7.0	5.9	5.9	6.7	5.9Y	5.9Y	5.9Y	3.6	3.7	5.9	5.0	5.6	5.9	5.0	5.5	6.7	6.8	6.5	5.9	6.5	3.8	2.7	3.3	5.9
20	5.1	2.3	2.4	5.9	5.9	5.1	5.5	7.8	5.7	5.3	6.1	5.3	5.9	5.9	5.6	5.9	5.2	8.9	4.8	8.9	3.1	3.7	3.7	6.8
21	8.1	5.9	6.5	8.2	3.2	8.9	5.5	5.9	5.1	8.4	7.1	5.9	6.8	B	7.0	5.1	5.5	5.9	3.4	5.9	3.1	3.0	3.0	2.3
22	3.2	2.4	2.4	2.3	2.4	2.4F	5.9	3.3	5.9	5.9	5.0	B	B	5.5	B	5.3	5.9	5.9	5.9	3.6	4.7	2.4	3.1	3.5
23	3.0	3.2	3.4	3.1	2.4	2.3F	5.9	3.2	4.8	5.9	7.3	5.9	5.9	8.0	6.6	7.0	8.5	5.1	3.8	3.6	3.6	3.5	3.2	2.3
24	2.3	2.3	E	E	2.3	E	5.9	5.9	5.9	6.5	5.8	8.1	5.9	B	5.9	5.9	5.9Y	3.6	3.6	3.2	2.3	2.2	3.7	3.0
25	5.9	3.8	3.4	2.3F	2.3	3.0	3.2	5.5	5.7	6.5	8.9	12.5	8.4	10.5	5.1	5.9	5.9Y	6.1	5.9	3.7	3.8	3.0	2.4	2.2
26	5.9	C	6.5	5.9	C	3.7	5.9	5.9	5.9	5.9	8.9	5.9	7.2	5.9Y	6.2	6.3	5.9	5.9	6.5	3.1	2.4	8.0	8.9Y	5.9
27	5.9Y	5.9	5.9	5.9F	2.4	E	3.4	5.9	5.9	8.6	8.5	12.5	9.4	5.2	6.2	6.6	5.2	5.0	5.5	5.9	E	2.0	3.8	3.2
28	5.9	9.5	6.6F	6.6F	5.9	5.9	3.5	5.6	5.9	5.7	5.9Y	5.7	5.9Y	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.0	5.9	5.9	5.9
29	8.9	5.9	5.9	5.9	5.9	5.9	4.8Y	5.2	9.5	5.9	6.5	8.5Y	5.9	5.9Y	4.9	8.0	4.8	5.9	5.0	E	2.8	2.3	5.9	
30	3.6	3.6	5.9	3.3	2.7	3.2	3.1	3.5	5.9Y	5.9	7.0	5.9	B	12.4Y	12.0	6.6	11.3	4.9	5.7	3.5	5.9	3.5	3.2	5.9Y
31																								
Mean Value	4.8	4.6	4.7	4.2	3.6	3.6	4.2	5.1	6.0	6.9	7.3	7.3	7.7	8.2	6.9	7.4	7.1	6.5	6.2	5.1	5.2	3.6	4.1	4.2
Median Value	4.4	3.8	4.2	3.6	3.4	2.9	3.2	3.6	5.9	6.5	6.6	6.8	6.8	6.4	5.9	5.9	5.9	5.9	5.6	4.2	3.7	3.1	3.4	3.4
Count	30	27	28	28	28	28	28	28	28	29	29	27	26	26	27	29	29	30	30	30	30	30	30	30

Swamp 1.0 Mc to 22.0 Mc in _____ min
 Manual Automatic

fEs

SOLAR RADIO EMISSION

JUNE, 1956

Observing Station: HIRAISSO

Frequency: 200 Mc/s

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

Time in U.T.

Daily Data

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

Outstanding Occurrences

Date	Starting Time	Duration	Type	Peak Flux	Time
19	0558-20s	10s	SD	420	-
	2040-30s	30s	SD	490	-
	2149-20s	1m	CD	370	-
	2306-30s	1m20s	SD	>2500	-
20	0030-40s	1m	CD	570	-
	0251-50s	50s	SD	520	-
	0519-20s	1m10s	CD	340	-
	0818-00s	1m10s	CD	390	-
	0923-20s	40s	SD	490	-
23	0134-40s	3m30s	CD	780	0135-00s
				620	0136-30s
	0519-30s	1m30s	CD	660	0520-00s

IONOSPHERIC DATA IN JAPAN FOR JUNE 1956

電 波 観 測 報 告 第 8 卷 第 6 号

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(不許複製非売品)

編 集 兼
発 行 人

藤 木 栄
東京都北多摩郡小金井町小金井新田一之久保573

発 行 所

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

印 刷 所

今 井 印 刷 所
東京都新宿区筑土八幡町8番地
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