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IONOSPHERIC DATA IN JAPAN

FOR 1946

Issued in February 1954

PREPARED BY THE RADIO RESEARCH LABORATORIES

KOKUBUNJI, TOKYO, JAPAN

THE RADIO RESEARCH LABORATORIES

KOKUBUNJI, TOKYO, JAPAN

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PREFACE

Our monthly publication the "Ionospheric Data in Japan" was first published in January 1949.

Although the observation has, of course, been conducted long before the publication, we had not been given a chance to have the result thereof be published.

We are very delighted to have a chance to-day to arrange, print and issue the fruits of observation acquired in 1946.

We hope and are confident that the data contained herein will make some contribution to the researches concerned to the Ionospheric Layer.

Shogo Amari

Chief, Radio Research Laboratories,
Ministry of Postal Services

Feb. 1954

SITE OF THE IONOSPHERIC STATIONS

Ionospheric observation is carried out at 3 stations in Japan for 1946.

The stations are situated as follows:

| | longitude | latitude | site |
|-----------|--------------|-------------|--|
| Shibata | 139° 15.8' E | 37° 57.0' N | Sciro-mura, Kitakanbara-gun, Niigata-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

CHARACTERISTICS MOST COMMONLY OBSERVED OR

DERIVED FROM H'F OBSERVATIONS

- | | |
|---|--|
| 1. foE } 2. foF1 } 3. foF2 } | Ordinary-wave critical frequency for the E, F1 and F2 layers respectively. |
| 4. fxE } 5. fxF1 } 6. fxF2 } | Extraordinary-wave critical frequency for the E, F1 and F2 layers respectively. |
| 7. fzE } 8. fzF1 } 9. fzF2 } | Critical frequency for the lowest frequency branch in the event of triple splitting for the E, F1 and F2 layers respectively. |
| 10. fEs | Highest frequency on which echoes of the sporadic type are observed from the lower part of the E layer. |
| 11. fminE | Minimum frequency, on which echo reflected from E-layer begins to appear by use of the observation equipment on routine work. |
| 12. fminF | Minimum frequency, on which echo reflected from F-layer begins to appear by use of the observation equipment on routine work. |
| 13. h'E } 14. h'F1 } 15. h'F2 } | Minimum virtual height on the ordinary-wave branch for the E, F1 and F2 layers respectively. |
| 16. h'Es | Minimum virtual height of Es echos. |
| 17. Zm | Virtual height of the F2 layer measured on the ordinary-wave branch at a frequency equal to 0.834 foF2. |
| 18. Zd | Half breadth of the layer, calculated by the method of Booker. |
| 19. E-d-MUF } 20. F1-d-MUF } 21. F2-d-MUF } | Maximum usable frequency for a path of some specified standard length d for transmission by the E, F1 and F2 layers respectively. |
| 22. (Md) E } 23. (Md) F1 } 24. (Md) F2 } | Maximum usable frequency factor for a path of some specified standard length d for transmission by the E, F1 and F2 layers respectively. |

QUALIFYING SYMBOLS

1. () Individual observed values thus enclosed are considered doubtful.
2. [] Individual numerical values thus enclosed represent interpolations rather than observations.
3. > or D This symbol when it stands before a number means greater than.
4. < or E This symbol when it stands before a number means less than.

DESCRIPTIVE SYMBOLS

1. A Characteristic not measurable because of blanketing by Es.
2. B Characteristic not measurable because of non-deviative absorption either partial or complete and probably non-deviative in type.
3. C Characteristic not observed because of equipment or power failure.
4. D Characteristic at a frequency higher than the normal upper frequency limit of equipment.
5. E Characteristic at a frequency lower than the normal lower frequency limit of equipment.
6. F Spread echoes present.
7. G F2-layer critical frequency equal to or less than F1-layer critical frequency.
8. H Stratification observed within the layer.
9. J Ordinary-wave characteristic deduced from measured extraordinary-wave characteristic.
10. K Ionospheric storm in progress (this is always applied to a series of hourly values, never to an isolated value).
11. L (a) Critical frequency, MUF, or MUF factor for F1 layer omitted or doubtful because no definite or abrupt change in slope of the h'f curve is observed either for the first reflection or any of the multiples.
(b) Minimum virtual height for F2 layer omitted because the F2-layer trace is continuous with the F1-layer trace, and without a point of zero slope.

12. P Trace extrapolated to critical frequency (it is unnecessary to use this letter for small extrapolations of one or two percent, but no numerical value should be recorded if the extrapolation leads to a critical frequency which exceeds the last observed point on the trace by more than five percent).
13. Q Distinct layer not present (this symbol is intended to apply to daytime layers only and should be used in the hour columns at the beginning and end of the daylight period to fill empty spaces in those columns where one or more numerical values exist—it should not be used in hour columns where no numerical values exist because of darkness—these columns may be left blank).
14. S Characteristic obscured by interference or by atmospherics.
15. V Trace forked near critical frequency.
16. W Characteristic at a height greater than the normal upper height limit of equipment.
17. Z Third component of h'f trace for layer is observed.

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

Lat. 37° 57.0 N
Long. 139° 15.8 E

Shibata

IONOSPHERIC DATA

Nov. 1946

f_oF2

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|--------------------|------|--------|-------------------|--------|-------------------|-------------------|------|---------------------|---------------------|------------------|--------------------|--------------------|------------------|--------------------|--------------------|--------------------|--|
| 1 | 3.9 | (4.5) ^S | 4.6 | 4.5 | 4.0 | 3.7 | 6.6 | 1.08 | 1.33 | 1.38 | 1.46 | 1.52 | 1.40 | 1.37 | 1.37 | 1.30 | 1.25 | 1.04 | 8.2 | 7.2 | 7.5 | 6.4 | 5.2 | 5.0 | |
| 2 | C | C | C | C | C | C | C | C | 1.24 | 1.43 | 1.52 | 1.47 | 1.29 | 1.23 | 1.31 | 1.28 | 9.9 | 8.4 | 7.3 ^H | 7.1 | 5.5 | 3.8 ^J | (3.7) | 3.6 | |
| 3 | 3.6 | 3.7 | 3.7 | 4.0 | 3.9 | 3.5 | 4.9 | 4.2 | 11.7 | 1.23 | 1.30 | 1.22 | 1.19 | 1.20 | 1.17 | 1.14 | 10.0 | 8.0 | (7.3) | 6.5 | 5.9 | 4.5 | 3.8 | 3.4 | |
| 4 | 3.6 | 3.7 | 3.7 | 4.2 | 4.0 | 3.8 | 3.9 | 7.8 | 10.4 | 10.7 | 10.8 | 12.8 | 11.9 | 12.5 | 12.3 | 12.0 | 10.9 | 8.3 ^J | 6.4 | (6.2) ^A | 5.5 | (3.8) ^S | 3.9 ^J | 4.3 | |
| 5 | 4.0 | 4.5 | 4.3 | 4.5 | 4.1 | 4.4 | 5.0 | 9.0 | 10.6 | (11.9) | 11.6 | 12.1 | 12.6 | 12.8 | 12.5 | 12.4 | (10.7) ^C | 8.5 | 7.1 | 7.1 | 6.3 ^H | 4.3 ^H | 4.6 | 4.4 ^J | |
| 6 | 4.5 | 4.2 | 4.2 | 4.3 | 3.9 | 4.2 | 5.7 | (9.1) ^C | 1.24 | 1.24 | 1.31 | 1.31 | 1.28 | 1.30 | 1.29 | 1.21 | 1.07 | 8.4 ^J | 8.3 | 7.5 | 7.1 | 6.3 | 6.0 | 6.1 | |
| 7 | 6.0 | 3.2 | 5.7 | 5.8 | 6.3 | 6.2 ^F | 6.4 | 9.9 ^F | C | C | C | C | C | C | C | C | 11.7 | 10.7 | 9.0 | 6.8 | 5.4 | 4.9 ^J | 4.8 | 4.8 ^J | |
| 8 | 4.6 | 4.5 | 4.7 | 4.5 | 4.3 | 4.3 | 5.0 | (9.8) ^S | 10.7 | 12.5 | 13.1 | 13.2 | 12.7 | 12.4 | 12.3 | 12.1 | 10.6 | 8.8 | 7.7 | 5.7 ^F | 4.8 | 3.9 ^J | 3.7 | 3.8 ^F | |
| 9 | 3.7 | 3.7 ^F | 3.8 | 3.9 ^H | 4.3 | 4.2 | 4.1 | 8.7 | 10.4 | 11.0 | 11.3 | (11.7) | 12.1 | 11.5 | 11.2 | 11.3 | (9.9) ^F | 8.5 | 7.4 | 5.8 | 5.2 ^J | 5.0 ^J | 4.4 | 4.4 | |
| 10 | 4.5 | 4.4 | 4.7 | 4.4 | 3.7 | 3.5 | 4.7 | 9.5 | 11.5 | C | 12.1 | 12.0 | 12.0 | 11.5 | 12.3 | (10.9) ^C | 9.5 | 8.1 | 6.5 | 5.5 | 5.6 | 4.8 | 4.3 | 4.2 | |
| 11 | 3.3 | 2.7 | 2.2 | 4.0 | 4.8 | 3.5 | 4.6 ^J | 7.8 | 10.2 | 12.0 | 11.2 | 12.3 | 13.0 | 13.2 | 12.9 | 12.4 | 10.2 | 8.3 | 6.2 ^F | 6.7 | 6.1 | 5.2 | 4.3 | 4.5 | |
| 12 | 4.6 | 4.3 | 4.3 | 4.5 | 4.1 | 3.9 | 4.7 | 8.0 | 9.8 | 11.0 | 13.2 | 13.2 | 12.3 | 12.8 | 12.5 | 11.2 | 11.2 | 9.6 | 7.2 | 6.3 | 5.6 | 4.8 | 4.7 | (4.8) | |
| 13 | 4.7 | 4.6 ^J | 5.1 | 4.7 | 4.6 | 4.1 | 5.1 | 10.1 | 12.0 | 13.2 | 12.8 | 13.5 | 12.8 | 12.6 | 13.2 | 11.5 | 9.5 | 8.7 | 7.4 | 7.1 | 4.8 | 4.5 | 4.5 ^H | 4.1 ^H | |
| 14 | 4.6 | 4.7 ^J | 4.7 | 4.2 | 4.5 | 4.2 ^J | 4.7 | 10.5 | 11.0 | 12.4 | 13.9 ^J | 13.0 | 13.0 | 13.5 ^H | 13.1 | 13.2 | 12.1 | 9.4 | 7.9 ^J | 6.5 | 6.4 | 4.7 | 4.0 | 3.5 ^J | |
| 15 | 3.5 | 3.7 | 3.9 | 3.4 | 3.9 | 3.3 | 4.0 | 10.5 | 11.5 | 11.7 | 12.5 | 13.1 | 12.8 | 12.6 | 11.7 | 11.5 | 10.7 | 9.6 | 7.6 | 5.6 | 5.2 | 4.3 | 4.4 | 4.7 ^J | |
| 16 | 4.5 | 4.1 | 4.7 | 4.7 | 4.9 | 5.0 | 5.7 | 9.0 | 12.3 | 13.9 | 13.4 | 13.6 | 14.0 ^H | 14.0 ^J | 12.8 | 12.7 | 11.3 | 10.0 | 8.5 | 7.4 | 7.5 | 6.8 | 6.5 | 5.6 | |
| 17 | 5.5 | 5.0 | 5.0 | 5.1 | 4.9 ^J | 3.9 | 4.0 | 9.5 | 11.3 | 12.1 | 13.6 | 13.7 | 13.6 | 14.0 | 13.1 | 12.6 | 9.7 | 8.7 | 7.2 | 6.3 | 4.7 | 4.3 | 3.7 | 3.6 | |
| 18 | 4.0 | 3.9 | 4.2 | 4.3 | 4.2 | 3.7 | 4.3 | 9.4 | 11.1 | 12.7 | 13.1 | 12.8 | 12.0 | 12.0 | 12.0 | 11.1 | 10.1 | 8.5 | 7.0 | 6.8 | 4.9 | 4.2 | 4.2 | 3.9 | |
| 19 | 4.4 | 4.4 | 4.5 | 5.3 | 4.8 | 5.3 | 5.3 | 8.4 | 11.0 | 12.0 | 11.9 | 11.2 | 12.1 | 11.9 | 11.2 | 10.3 | 9.9 | 8.4 | (7.2) ^C | 5.9 | 4.8 | 3.9 | 4.6 | 4.6 | |
| 20 | 3.4 | 3.4 | 3.1 | 3.9 | 4.0 | 3.5 | 4.3 | 8.4 | 10.0 | 12.8 | 12.9 | 11.7 | 11.5 | 11.0 | 10.4 | 10.1 | 10.2 | 8.6 | 7.5 | 6.0 | 4.6 | 4.6 | 4.5 | (4.5) | |
| 21 | 4.4 | (5.7) ^S | 4.4 | (4.4) ^S | (3.4) ^S | (3.4) ^S | S | 10.2 | 10.5 | 12.2 | 12.7 | 12.9 | 12.0 | 11.3 | 10.8 | 10.6 | 10.5 | 8.3 | 7.9 | 5.9 | 4.6 | 5.0 | 3.4 ^S | (5.2) | |
| 22 | 5.3 ^J | 5.2 ^J | 4.6 ^J | (4.7) | 4.2 | 3.8 | 5.2 | 8.8 | 10.2 | 13.0 | 13.5 | 13.3 | 12.8 | 12.4 | 12.4 | 11.4 | 11.2 | 10.0 | 8.3 | 6.5 ^F | 4.1 | 3.8 | 3.6 | (3.3) ^S | |
| 23 | (2.9) ^S | 3.4 | 4.0 | 3.7 | 3.7 | 3.8 | 4.8 | 8.8 | 10.7 | 11.9 | 13.7 | 12.5 | 13.0 | 12.6 | 12.8 | 11.8 | 9.8 | 8.4 | 7.0 | 5.4 ^J | 4.5 | 3.8 | 3.6 | 3.9 | |
| 24 | 3.9 | 3.7 | 3.8 | 3.8 | 3.4 | 2.8 | 3.7 | 9.2 | 11.6 | 11.1 | 10.6 ^H | 11.6 | 12.4 | 12.5 | 11.2 | 11.0 | 9.4 | 8.5 | 8.2 | 5.9 | 4.7 ^F | 3.3 | 3.4 | (2.8) ^J | |
| 25 | 3.4 | 3.3 | 4.1 | 2.5 | 1.8 ^J | 1.9 | 3.3 | 8.5 | 12.4 | 11.7 | 11.5 | 12.7 | 12.7 | 12.5 | 12.0 | 11.8 | 11.1 | 10.2 | 7.2 | 5.7 | 4.7 ^J | 3.6 | 3.6 | 2.7 ^J | |
| 26 | 2.2 | A | 3.3 | 3.7 | 3.1 | 3.2 | 3.4 | 8.2 | 10.5 | 12.0 | 12.5 | 12.1 | 11.9 | 11.4 | 10.7 | 10.7 | 10.4 | 9.2 | 6.6 | 5.7 | 5.1 | 3.7 | 3.5 | 3.4 | |
| 27 | 3.1 | 3.2 | 3.4 | 3.2 | 3.4 | 3.7 | 3.5 | 7.0 | 10.1 | 11.3 | 10.8 | 11.5 | 11.0 | 11.4 | 10.3 | 10.1 | 9.0 | 7.1 | 4.8 | 4.8 ^J | 4.6 | 3.9 | 3.2 | 3.0 | |
| 28 | 2.9 | (2.9) ^S | 2.8 | 3.0 | 2.9 | 3.0 | 4.1 | 8.4 | 10.5 | 10.0 | 10.6 | 10.0 | 10.4 | 9.8 | 9.9 | 9.9 | 8.5 | 6.2 | 5.4 | 3.2 | 3.3 | (3.4) ^S | 3.0 | 2.9 | |
| 29 | 3.0 | 2.9 | 3.1 | 3.2 | 3.3 | 3.2 | 3.9 ^J | 7.6 | 9.3 | 9.8 | 10.8 | 10.8 | 11.8 | 11.7 | 11.0 | 10.9 | 9.5 | 8.0 | 6.5 | 4.2 ^J | 3.7 | 3.9 ^J | (2.9) ^J | 3.5 | |
| 30 | (2.9) ^S | (3.2) ^C | (3.4) ^S | 3.5 ^J | 3.8 | 3.7 | 3.4 ^J | 7.1 | 9.0 | 9.7 | 11.4 | 10.2 | 10.8 | 12.0 | 11.8 | 9.9 | 8.6 | 7.0 | 5.1 ^J | 4.5 | 3.4 | 3.9 | 3.3 | 3.5 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 3.9 | 3.8 | 4.2 | 4.2 | 4.0 | 3.7 | 4.7 | 9.0 | 10.7 | 12.0 | 12.8 | 12.7 | 12.4 | 12.4 | 12.3 | 11.4 | 10.2 | 8.5 | 7.3 | 6.1 | 5.0 | 4.3 | 4.0 | 4.0 | |
| Count | 2.9 | 2.8 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | |

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

Lat. $37^{\circ} 57.0' N$
Long. $139^{\circ} 18.5' E$

Shibata

IONOSPHERIC DATA

135° E Mean Time

foF1

Nov. 1946

| 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 | L | B | L | A | A | A | A | | | | | | | | |
| 2 | | | | | | | | | | | | 5.6 | A | L | L | L | | | | | | | | |
| 3 | | | | | | | | L | L | L | L | L | L | L | L | L | | | | | | | | |
| 4 | | | | | | | | L | L | L | L | L | L | L | L | L | | | | | | | | |
| 5 | | | | | | | | | | | 5.0 | L | L | L | L | L | | | | | | | | |
| 6 | | | | | | | | | L | L | L | L | 5.2 | L | L | L | L | 2.7 | | | | | | |
| 7 | | | | | | | | | C | C | C | C | C | C | C | C | | | | | | | | |
| 8 | | | | | | | | | | | | L | L | L | L | L | | | | | | | | |
| 9 | | | | | | | | | L | 5.5 | B | L | L | L | L | L | B | | | | | | | |
| 10 | | | | | | | | | | | | L | L | L | L | L | L | L | | | | | | |
| 11 | | | | | | | | | L | L | 4.2 | 5.4 | L | L | L | L | L | L | | | | | | |
| 12 | | | | | | | | | | | L | B | L | L | L | L | L | L | | | | | | |
| 13 | | | | | | | | | | | 5.5 | L | L | L | L | L | L | L | | | | | | |
| 14 | | | | | | | | | L | L | A | L | L | L | L | L | L | L | | | | | | |
| 15 | | | | | | | | | | | | | 4.1 | | | | | | | | | | | |
| 16 | | | | | | | | | | | | L | L | L | L | L | L | L | | | | | | |
| 17 | | | | | | | | | | L | L | L | L | L | L | L | L | L | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | 3.0 | | | | | | |
| 19 | | | | | | | | | | | | L | L | L | L | L | L | L | | | | | | |
| 20 | | | | | | | | | | L | L | L | L | L | L | L | L | L | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | L | L | L | L | L | L | L | L | L | | | | | | |
| 23 | | | | | | | | | L | L | L | L | L | L | L | L | L | L | | | | | | |
| 24 | | | | | | | | | L | L | L | L | L | L | L | L | L | L | | | | | | |
| 25 | | | | | | | | | L | L | L | L | L | L | L | L | L | L | | | | | | |
| 26 | | | | | | | | | | | | L | L | L | L | L | L | L | | | | | | |
| 27 | | | | | | | | | L | L | L | L | L | L | L | L | L | L | | | | | | |
| 28 | | | | | | | | | L | L | L | L | 5.2 | L | L | L | L | L | | | | | | |
| 29 | | | | | | | | | L | L | L | L | L | L | L | L | L | L | | | | | | |
| 30 | | | | | | | | | | | | | 5.2 | L | L | L | L | L | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | | | | | | | 5.2 | | | | | | | | | | | |
| Count | | | | | | | | | | | | | 4 | | | | | | | | | | | |

foF1

Sweep 1.0 Mc to 15.0 Mc in 1.5 min

Manual Automatic

IONOSPHERIC DATA

Lat. 37° 57.0' N
Long. 139° 15.8' E

Nov. 1946

f_oE

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

f_oE

Sweep 1.0 Mc to 15.0 Mc in 1.5 min

Manual

Automatic

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

Lat. 37° 57.0' N
Long. 139° 15.8' E

Shibata

IONOSPHERIC DATA

135° E Mean Time

fEs

Nov. 1946

| 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 | 1.9 | 2.8 | 2.0 | E | E | E | E | fE | fE | 3.1 | 3.6 | fE | 5.8 | 6.2 | 6.5 | 7.0 | 3.6 | fE | 1.8 | 6.5 ^F | 7.3 | 4.8 | 4.6 | 4.2 | |
| 2 | C | C | C | C | C | C | C | C | fE | 3.2 | 2.9 | 5.1 | 5.0 | fE | fE | 2.9 | 3.0 | 2.1 | 2.8 | 3.2 | 5.9 | 4.0 | 3.9 | 2.8 | |
| 3 | 2.0 | 2.2 | 2.2 | 2.4 | 2.0 | 2.5 | 2.3 | fE | 2.2 | 3.0 | fE | 3.4 | 4.4 | 4.0 | 3.4 | 3.5 | 3.4 | 6.8 | C | 2.0 | 2.0 | E | 2.9 | 2.6 | |
| 4 | 3.0 | 2.0 | 2.0 | 1.9 | E | E | E | fE | fE | fE | fE | fE | 3.8 | 3.8 | 3.5 | 3.3 | 3.4 | 3.4 | 3.6 | 2.2 | 1.9 | E | E | 2.1 | |
| 5 | 2.8 | 2.0 | E | 2.0 | 1.9 | E | 2.9 | 3.0 | fE | 4.0 | fE | fE | 2.8 | fE | fE | 4.6 | C | fE | E | 2.1 | E | E | E | E | |
| 6 | E | E | E | E | 2.0 | 2.1 | 2.2 | C | fE | 2.7 | 2.7 | 3.6 | 3.2 | B | 3.8 | 3.5 | 2.7 | 1.8 | 2.3 | E | E | 4.6 ^F | 2.6 ^F | 2.1 | |
| 7 | 2.2 | 2.0 | 2.0 | E | E | 1.7 | 2.0 | 1.6 | C | C | C | C | C | C | C | C | 2.6 | 3.0 | 2.2 | 5.7 | 5.9 | 2.7 | 2.9 | 2.8 | |
| 8 | 2.9 | 2.0 | 1.9 | E | 1.8 | E | 1.8 | 2.0 | 3.5 | 3.8 | 6.2 | 3.8 | 3.6 | 4.0 | 3.2 | 3.0 | fE | 1.9 | E | 2.0 | E | 2.1 | E | E | |
| 9 | 1.4 | 1.9 | 1.9 | 1.8 | E | E | E | 2.0 | 3.2 | B | B | B | B | fE | fE | fE | C | 1.8 | 2.1 | 2.8 | 6.4 | 2.4 | 1.8 | 1.6 | |
| 10 | E | 2.0 | 2.0 | 2.1 | E | 2.0 | 1.9 | E | fE | C | C | B | B | 3.0 | 3.4 | C | 2.2 | 1.6 | E | E | 1.8 | E | E | E | |
| 11 | 2.1 | 1.7 | E | E | E | 2.4 | 1.9 | fE | fE | 3.6 | 3.9 | B | B | B | B | B | B | E | E | 2.4 | E | E | 1.9 | E | |
| 12 | E | 2.1 | 2.0 | E | E | E | E | fE | fE | fE | fE | B | B | B | fE | B | fE | 2.4 | 3.0 | E | E | 1.8 | 2.0 | 2.8 | |
| 13 | E | 4.7 | 2.8 | 2.2 | 2.2 | 3.0 | E | fE | 2.6 | 4.0 | 3.6 | 3.6 | 3.6 | 3.5 | B | B | 3.5 | 2.8 | 2.4 | 1.3 | 3.6 | 1.9 | 4.6 | 1.9 | |
| 14 | 1.9 | 3.2 | 1.9 | 2.8 | 2.8 | 1.9 | E | 1.9 | 3.6 | 6.0 | 6.6 | 4.2 | 5.6 | 5.3 | 3.4 | 3.6 | fE | 2.0 | 2.0 | 2.2 | E | 2.1 | E | E | |
| 15 | E | E | E | E | E | E | E | 2.9 | fE | fE | B | B | B | B | B | B | B | 1.4 | E | E | E | E | E | E | |
| 16 | E | E | E | E | E | E | E | 3.1 | 3.4 | 3.4 | fE | B | B | fE | B | B | 2.9 | 1.8 | 2.0 | E | E | E | E | E | |
| 17 | E | 2.0 | 4.0 | 2.3 | 1.9 | 2.8 | E | 2.6 | fE | B | 3.4 | 3.6 | 3.1 | fE | 5.2 | 3.0 | 3.6 | 2.8 | 1.9 | 4.5 | 2.9 | 2.1 | 1.9 | 1.9 | |
| 18 | 1.9 | 2.0 | E | 1.9 | 2.0 | 1.9 | 2.0 | 5.9 | 3.5 | 3.2 | 4.4 | 3.0 | B | fE | B | fE | fE | 3.0 | 2.1 | 3.0 | 1.9 | 2.0 | E | E | |
| 19 | 1.8 | 1.9 | 1.9 | 2.1 | 1.9 | E | E | fE | 3.2 | 3.7 | fE | 3.1 | fE | 3.7 | 3.0 | fE | fE | 1.8 | C | 2.3 | E | 2.6 | 1.8 | 1.9 | |
| 20 | E | 1.8 | 1.8 | 1.8 | E | E | E | 1.8 | 2.5 | B | B | B | B | B | fE | fE | 3.4 | 2.3 | 2.0 | E | E | 2.1 | 1.9 | E | |
| 21 | E | E | E | E | E | 1.4 | E | B | 2.4 | B | 3.4 | 6.2 | 5.8 | 3.5 | B | 4.6 | 3.3 | 1.9 | 3.4 | 2.8 | E | E | 2.0 | E | |
| 22 | E | E | 1.7 | 2.0 | 1.9 | E | E | fE | fE | fE | 4.2 | B | B | B | B | 3.3 | fE | E | 1.8 | 1.7 | E | E | E | 2.8 | |
| 23 | 2.2 | 1.9 | 2.1 | 2.1 | 1.8 | E | 1.8 | 1.9 | fE | fE | 3.4 | 5.0 | 4.0 | 3.8 | 3.0 | 3.4 | 2.2 | 2.0 | 2.2 | E | 2.0 | 1.7 | 2.0 | 2.2 | |
| 24 | E | 2.0 | E | E | E | E | E | 2.0 | 4.3 | 3.8 | 3.4 | B | B | B | 4.4 | 4.9 | fE | E | 2.4 | 2.9 | 4.4 | 3.2 | 2.0 | 1.9 | |
| 25 | E | 1.8 | E | 1.9 | 1.9 | 2.1 | 1.9 | E | fE | fE | fE | 3.7 | 4.5 | 3.8 | B | B | B | 1.8 | 2.2 | 2.7 | 2.0 | 1.8 | E | E | |
| 26 | 2.7 | 2.8 | 2.1 | 1.8 | E | E | E | fE | fE | fE | 3.6 | B | 3.6 | B | 3.8 | B | 2.0 | E | E | E | E | E | E | E | |
| 27 | E | E | E | E | E | E | E | 2.0 | 2.7 | 3.4 | B | 3.4 | fE | fE | B | B | 3.2 | 2.7 | 3.6 | E | E | E | E | E | |
| 28 | E | E | E | 2.4 | E | E | E | E | 1.8 | fE | fE | fE | B | fE | fE | fE | fE | 1.8 | 1.8 | 1.9 | E | E | 1.7 | E | |
| 29 | E | E | E | E | E | E | E | fE | fE | 3.7 | 3.6 | B | B | fE | B | fE | fE | E | E | E | E | E | E | E | |
| 30 | E | C | E | 1.8 | E | 1.8 | E | E | 3.4 | 3.2 | 3.3 | fE | fE | fE | fE | fE | fE | fE | 1.9 | 1.9 | E | 2.0 | E | 1.9 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | 2.9 | 2.8 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.7 | 2.9 | 3.2 | 3.4 | 3.5 | 3.6 | 3.0 | 3.1 | 3.2 | 2.2 | 1.8 | 2.0 | 2.0 | 3.0 | 3.0 | 3.0 | 3.0 | |

fEs

Group 1.0 Mc to 15.0 Mc in 1.5 min

Manual

Automatic

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

IONOSPHERIC DATA

Lat. 37° 57.0' N
Long. 139° 15.8' E

Shibata

Nov. 1946

fminF

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 1 | 1.2 | 1.2 | 1.5 | 1.1 | 1.1 | 1.1 | 1.2 | 2.4 | 3.2 | 3.4 | 4.5 | 3.9 | 6.2 | 4.8 | 5.0 | 6.0 | 3.2 | 2.3 | 1.5 | 5.3 | 2.4 | 2.3 | 2.2 | 2.6 | |
| 2 | C | C | C | C | C | C | C | C | 3.0 | 3.7 | 3.8 | 4.5 | 4.3 | 3.7 | 3.3 | 3.0 | 2.6 | 1.7 | 1.7 | 3.2 | 4.2 | 2.6 | 2.9 | 1.7 | |
| 3 | E | 1.2 | 1.5 | 1.4 | 1.3 | 1.6 | 1.5 | 2.5 | 2.8 | 3.2 | 3.8 | 3.8 | 3.8 | 4.0 | 3.6 | 2.9 | 2.7 | 1.7 | C | 1.5 | 1.4 | 1.6 | 1.5 | 1.6 | |
| 4 | 1.5 | 1.2 | 1.3 | 1.2 | 1.2 | E | 1.2 | 2.6 | 3.0 | 3.4 | 3.4 | 3.4 | 4.3 | 3.8 | 3.2 | 3.3 | 2.8 | 2.8 | 1.7 | 1.9 | 1.3 | 1.2 | 1.4 | 1.7 | |
| 5 | 2.2 | 1.1 | 1.1 | A | 1.4 | 1.2 | 1.9 | 2.4 | 3.0 | 3.6 | 4.0 | 3.7 | 3.0 | 3.6 | 4.0 | 3.6 | C | 1.8 | 1.5 | 1.6 | 1.4 | 1.6 | 1.5 | 1.3 | |
| 6 | 1.2 | 1.2 | 1.2 | 1.2 | 1.3 | 1.2 | 1.8 | C | 3.1 | 3.5 | 2.9 | 3.6 | 3.7 | 3.5 | 3.4 | 3.0 | 3.1 | 1.9 | 1.7 | 1.3 | 1.3 | 3.2 | 1.1 | 1.6 | |
| 7 | 1.5 | 1.5 | 1.3 | 3.6 | 1.4 | 1.2 | 1.7 | C | C | C | C | C | C | C | C | C | 2.8 | 1.8 | 1.5 | 3.9 | 2.8 | 3.3 | 3.2 | 2.8 | |
| 8 | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.7 | 3.0 | 3.0 | 2.8 | 3.0 | 3.0 | 3.8 | 3.4 | 3.5 | 3.2 | 2.6 | 1.7 | 1.4 | 2.6 | 1.3 | 1.4 | 1.5 | 1.2 | |
| 9 | 1.3 | 1.2 | 1.2 | 1.3 | 1.2 | C | 3.5 | 3.5 | 3.2 | 3.8 | 5.5 | 3.8 | 4.9 | 2.9 | 3.3 | 3.5 | C | 1.6 | 2.3 | 1.5 | 3.1 | 1.8 | 1.4 | 1.2 | |
| 10 | 1.2 | 1.8 | 1.2 | E | E | E | 1.2 | 2.6 | 3.0 | C | C | 4.3 | 3.7 | 2.8 | 3.4 | C | 2.2 | 1.5 | 1.2 | 1.4 | 1.9 | 1.4 | 1.1 | | |
| 11 | E | 1.4 | 1.3 | 1.3 | 1.5 | 1.2 | 1.2 | 2.4 | 3.1 | 3.4 | 3.5 | 4.2 | 4.0 | 3.7 | 3.6 | 3.6 | 3.7 | 1.7 | 1.3 | 1.3 | 1.2 | 1.2 | 1.2 | 1.3 | |
| 12 | 1.2 | 1.4 | 1.4 | 1.3 | 1.2 | 1.2 | 1.2 | 2.3 | 3.0 | 3.3 | 3.8 | 4.3 | 4.3 | 3.8 | 3.8 | 3.4 | 2.8 | 1.5 | 1.3 | 1.2 | 1.4 | 1.4 | 1.6 | 1.5 | |
| 13 | 1.2 | 3.3 | 2.2 | 1.5 | 1.4 | E | 1.2 | 2.9 | 2.8 | 2.8 | 3.7 | 2.6 | 3.8 | 3.8 | 3.5 | 3.6 | 3.0 | 2.8 | 1.7 | 1.4 | 1.5 | 1.5 | 2.7 | 1.4 | |
| 14 | 1.4 | 1.6 | 1.4 | 1.1 | 1.5 | 1.4 | 1.3 | 2.4 | 3.1 | 3.8 | 3.6 | 3.8 | 3.8 | 4.9 | 3.7 | 3.0 | 3.0 | 1.7 | 1.7 | A | 1.5 | 1.4 | 1.6 | 1.4 | |
| 15 | 1.4 | 1.4 | 1.4 | 1.4 | 1.3 | 1.4 | 1.4 | 2.2 | 2.7 | 3.5 | 3.8 | 4.3 | 3.7 | 3.8 | 3.5 | 3.4 | 3.3 | 1.6 | 1.5 | 1.2 | 1.3 | 1.2 | 1.4 | 1.2 | |
| 16 | 1.4 | 1.4 | 1.3 | 1.2 | 1.2 | 1.2 | 1.3 | 2.4 | 3.0 | 3.4 | 3.2 | 4.1 | 3.7 | 3.6 | 3.6 | 2.9 | 3.0 | 1.5 | 1.3 | 1.3 | 1.4 | 1.3 | 1.2 | 1.2 | |
| 17 | 1.2 | 1.2 | 3.4 | 2.1 | 1.2 | E | 1.2 | 2.1 | 3.0 | 3.5 | 3.8 | 3.8 | 3.8 | 3.6 | 3.3 | 3.5 | 1.6 | 1.2 | 1.5 | 1.5 | 1.4 | 1.8 | 1.3 | 1.6 | |
| 18 | 1.4 | 1.4 | 1.3 | 1.4 | 1.3 | 1.3 | 1.4 | A | 2.9 | 3.2 | 3.4 | 3.8 | 3.8 | 3.6 | 3.7 | 3.2 | 2.4 | 1.7 | 1.4 | 1.5 | 1.5 | A | 1.2 | E | |
| 19 | 1.3 | 1.3 | E | 1.3 | 1.5 | 1.3 | 1.2 | 2.1 | 3.1 | 3.4 | 3.5 | 3.3 | 3.8 | 3.8 | 3.4 | 3.0 | 2.5 | 1.3 | C | 1.3 | 1.3 | 1.5 | 1.6 | 1.5 | |
| 20 | 1.4 | 1.4 | 1.3 | 1.3 | 1.2 | 1.4 | 1.3 | 2.1 | 2.5 | 3.7 | 3.8 | 3.8 | 3.8 | 3.8 | 3.4 | 3.4 | 3.4 | 1.5 | 1.3 | 1.4 | 1.4 | 1.4 | 1.3 | 1.3 | |
| 21 | 1.3 | 1.4 | 1.4 | 1.4 | 1.8 | 1.8 | 1.5 | 2.7 | 2.3 | 4.0 | 3.7 | 3.8 | 3.1 | 3.8 | 3.4 | 3.6 | 2.4 | 1.5 | 1.4 | 1.2 | 1.4 | 1.3 | 1.3 | 1.3 | |
| 22 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.9 | 2.6 | 3.3 | 3.8 | 4.0 | 3.9 | 3.7 | 4.0 | 3.0 | 2.3 | 1.4 | 1.4 | 1.4 | 1.6 | 1.3 | 1.2 | 1.5 | |
| 23 | 1.2 | 1.5 | 1.3 | 1.3 | 1.2 | 1.2 | 1.3 | 1.8 | 2.8 | 3.5 | 3.6 | 3.3 | 3.8 | 3.6 | 3.5 | 3.4 | 2.8 | 1.8 | 1.5 | 1.4 | 1.4 | 1.3 | 1.4 | 1.3 | |
| 24 | 1.3 | 1.3 | 1.4 | 1.3 | 1.2 | 1.3 | 1.2 | 2.1 | 3.0 | 3.7 | 3.7 | 3.7 | 3.9 | 3.5 | 3.7 | 3.2 | 3.0 | 1.5 | 1.4 | 1.3 | 2.2 | 2.5 | 1.4 | 1.3 | |
| 25 | 1.2 | 1.2 | 1.4 | 1.2 | 1.5 | 1.4 | 1.4 | 1.9 | 2.7 | 3.2 | 3.5 | 3.7 | 4.2 | 3.6 | 3.6 | 3.8 | 2.8 | 1.7 | 1.5 | 1.5 | 1.6 | 1.6 | 1.5 | 1.5 | |
| 26 | 2.1 | A | 1.5 | 1.2 | 1.2 | 1.5 | 1.2 | 1.7 | 2.9 | 3.5 | 3.6 | 3.8 | 3.5 | 4.2 | 3.6 | 3.0 | 2.6 | 1.4 | 1.3 | 1.4 | 1.2 | 1.2 | 1.2 | 1.2 | |
| 27 | 1.2 | 1.2 | 1.2 | 1.2 | 1.4 | 1.2 | 1.2 | 2.2 | 2.7 | 3.2 | 3.8 | 3.8 | 3.7 | 3.8 | 3.2 | 3.4 | 1.5 | 1.5 | 1.5 | 1.4 | 1.5 | 1.3 | 1.4 | 1.2 | |
| 28 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.1 | 3.1 | 3.2 | 3.6 | 3.5 | 3.3 | 3.6 | 3.3 | 3.0 | 2.5 | 1.4 | 1.4 | 1.5 | 1.4 | 1.5 | 1.6 | 1.4 | |
| 29 | 1.2 | 1.2 | 1.3 | 1.4 | 1.2 | 1.2 | 1.2 | 2.2 | 2.7 | 3.1 | 3.3 | 3.0 | 3.8 | 3.9 | 3.6 | 3.4 | 3.2 | 1.4 | 1.4 | 1.4 | 1.5 | 1.3 | 1.4 | 1.2 | |
| 30 | 1.3 | C | 1.3 | 1.2 | 1.3 | 1.2 | 1.4 | 2.1 | 3.1 | 3.2 | 3.1 | 3.6 | 3.5 | 3.4 | 3.3 | 3.1 | 2.2 | 1.4 | 1.5 | 1.4 | 1.5 | 1.5 | 1.5 | 1.4 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 1.3 | 1.2 | 1.3 | 1.3 | 1.2 | 1.2 | 1.3 | 2.3 | 3.0 | 3.4 | 3.7 | 3.8 | 3.6 | 3.7 | 3.5 | 3.4 | 2.8 | 1.6 | 1.4 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | |
| Count | 2.9 | 2.7 | 2.9 | 2.8 | 2.9 | 2.8 | 2.9 | 2.7 | 2.9 | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 2.9 | 2.8 | 2.8 | 3.0 | 2.8 | 2.9 | 3.0 | 2.9 | 3.0 | 3.0 | |

fminF

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

Lat. 37° 57.0' N
Long. 139° 15.8' E

Shibata

IONOSPHERIC DATA

f_{min}E

135° E Mean Time

Nov. 1946

| 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 | 1.1 | 1.1 | 1.1 | 1.1 | E | E | 1.2 | 1.4 | 1.5 | 1.6 | 1.6 | 2.3 | 1.5 | 1.5 | 1.3 | 1.3 | 1.4 | 1.5 | 1.2 | 1.3 | 1.2 | 1.4 | E | |
| 2 | C | C | C | C | C | C | C | C | 1.5 | 1.5 | 1.7 | 1.6 | 1.6 | 1.5 | 1.4 | 1.7 | 1.5 | 1.3 | 1.4 | 1.4 | E | 1.2 | 1.2 | E | |
| 3 | 1.8 | E | E | E | E | E | E | 1.2 | 1.2 | 1.3 | 1.4 | 1.7 | 1.7 | 1.3 | 1.4 | 1.6 | 2.7 | 1.2 | C | 1.2 | 1.8 | E | 1.4 | 1.4 | |
| 4 | 1.5 | 1.6 | 1.3 | 1.5 | 1.8 | E | E | 1.3 | 1.6 | 1.5 | 1.4 | 1.6 | 2.3 | 2.2 | 1.6 | 1.4 | 1.5 | 1.3 | 1.4 | 1.8 | E | E | E | 1.5 | |
| 5 | 1.2 | 1.6 | E | 1.1 | 1.7 | E | 1.8 | 1.4 | 1.4 | 1.5 | 1.5 | 1.5 | 1.4 | 1.3 | 1.6 | 1.3 | C | 1.5 | E | 1.7 | E | E | E | | |
| 6 | E | E | E | E | 1.7 | 1.2 | 1.1 | C | 1.7 | 1.7 | 1.7 | 1.7 | 1.5 | 1.7 | 1.7 | 1.4 | 1.4 | 1.3 | E | 1.8 | 1.3 | 1.1 | 1.2 | | |
| 7 | 1.5 | 1.1 | 1.7 | E | E | 1.6 | 1.7 | 1.2 | C | C | C | C | C | C | C | C | 1.4 | 1.2 | 1.4 | 1.5 | 1.4 | 1.5 | 1.4 | 1.7 | |
| 8 | 1.1 | 1.7 | 1.5 | E | 1.6 | E | E | 1.6 | 1.2 | 1.3 | 1.5 | 1.7 | 1.7 | 1.7 | 1.4 | 1.5 | 1.3 | 1.2 | E | 1.2 | E | 1.4 | E | E | |
| 9 | 1.2 | 1.2 | 1.2 | 1.6 | E | C | E | 1.4 | 1.3 | 1.5 | B | B | B | 2.4 | 2.6 | 2.4 | C | 1.2 | 1.2 | 1.3 | 1.4 | 1.2 | 1.6 | 1.2 | |
| 10 | E | E | 1.7 | 1.8 | E | 1.7 | 1.8 | 1.7 | 1.4 | C | C | 1.7 | B | 1.7 | 1.6 | C | 1.7 | 1.4 | E | 1.4 | E | E | E | E | |
| 11 | 1.7 | 1.5 | E | E | E | 1.8 | E | 1.5 | 1.4 | 1.5 | 1.6 | 1.7 | 1.5 | 1.7 | 1.7 | 1.6 | 1.4 | E | E | 1.2 | E | E | 1.6 | E | |
| 12 | E | 1.4 | 1.2 | E | E | E | E | 1.3 | 1.4 | 1.5 | 1.4 | B | 1.7 | 2.9 | 1.6 | 1.4 | 1.6 | 1.3 | 1.2 | E | E | 1.2 | 1.3 | 1.2 | |
| 13 | E | 1.2 | 1.1 | E | E | E | E | 1.4 | 1.4 | 1.7 | 1.8 | 1.8 | 1.7 | 1.5 | 1.7 | 1.5 | 1.5 | 1.2 | 1.2 | 1.2 | 1.4 | 1.5 | 1.5 | 1.4 | |
| 14 | 1.1 | 1.1 | E | 1.1 | 1.2 | 1.5 | E | 1.5 | 1.5 | 1.5 | 1.5 | 1.7 | 1.5 | 1.5 | 1.6 | 1.5 | 1.4 | 1.2 | 1.5 | 1.4 | E | 1.4 | 1.4 | 1.4 | |
| 15 | E | E | E | 2.1 | E | E | 2.0 | 1.4 | 1.1 | 1.4 | 1.4 | 1.6 | 1.5 | 1.6 | 1.5 | 1.5 | 1.5 | 1.3 | E | E | E | E | E | E | |
| 16 | E | E | E | E | E | E | E | 1.2 | 1.4 | 1.4 | 1.4 | 2.4 | 1.5 | 1.8 | 1.5 | 1.5 | 1.4 | 1.6 | 1.8 | E | E | E | E | E | |
| 17 | E | 1.8 | 1.2 | 1.2 | E | E | E | 1.7 | 1.5 | 1.5 | 1.5 | 1.6 | 1.5 | 1.5 | 1.4 | 1.5 | 1.4 | 1.2 | 1.4 | 1.5 | 1.4 | 1.4 | 1.8 | 1.4 | |
| 18 | 1.4 | 1.4 | E | 1.4 | 1.3 | 1.7 | 1.6 | 1.3 | 1.4 | 1.4 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.3 | 1.4 | 1.3 | 1.6 | E | E | |
| 19 | E | 1.7 | 1.6 | 1.3 | 1.8 | E | E | 1.2 | 1.5 | 1.5 | 1.6 | 1.6 | 1.4 | 1.6 | 1.5 | 1.3 | 1.4 | E | C | 1.6 | E | 1.5 | 1.6 | 1.7 | |
| 20 | E | 1.5 | 1.5 | 1.7 | E | E | E | 1.2 | 1.3 | 1.5 | 1.5 | 1.5 | B | B | 1.5 | 1.3 | 1.3 | 1.2 | 1.4 | E | E | 1.3 | 1.8 | E | |
| 21 | E | E | E | E | E | E | E | B | 1.5 | 1.5 | 1.5 | 1.5 | 2.1 | 1.5 | 1.5 | 1.5 | 1.3 | 1.2 | 1.2 | E | E | E | 1.7 | E | |
| 22 | 1.8 | E | 1.6 | E | E | E | E | 1.5 | 1.7 | 2.4 | B | B | 1.5 | 1.5 | E | 1.6 | 1.6 | E | 1.6 | 1.6 | E | E | E | 1.2 | |
| 23 | 1.2 | 1.5 | 1.2 | 1.4 | 1.5 | E | 1.7 | 1.8 | 1.5 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | 1.5 | 1.2 | 1.3 | 1.3 | E | 1.7 | 1.3 | 1.5 | 1.3 | |
| 24 | E | 1.8 | E | E | E | E | E | 1.2 | 1.3 | 1.5 | 1.6 | 1.6 | 1.6 | 1.5 | 2.6 | 1.6 | 1.5 | E | 2.0 | 1.3 | 1.3 | 1.3 | 1.4 | 1.6 | |
| 25 | E | 1.7 | E | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.6 | 1.5 | 1.5 | 1.6 | 1.5 | 1.5 | 1.4 | 1.4 | 1.3 | 1.5 | 1.5 | 1.4 | 1.7 | E | E | |
| 26 | 1.4 | E | 1.2 | 1.3 | E | E | E | 1.2 | 1.5 | 1.5 | 1.7 | B | 3.5 | B | 1.4 | 1.3 | 1.2 | E | E | E | E | E | E | E | |
| 27 | E | E | E | E | E | E | E | 1.8 | 1.4 | 1.2 | 1.4 | B | 3.2 | 1.6 | 1.5 | 1.3 | 1.3 | 1.3 | 1.8 | E | E | E | E | E | |
| 28 | 1.7 | E | E | 2.0 | E | E | E | 1.3 | 1.2 | 1.4 | 1.3 | 1.5 | 1.3 | 1.6 | 1.3 | 1.2 | 1.2 | 1.2 | 1.5 | 1.8 | E | E | 1.6 | E | |
| 29 | E | E | E | E | E | E | E | 1.2 | 1.4 | 1.4 | 1.5 | B | 1.5 | 1.5 | 1.4 | 1.2 | 1.3 | E | E | E | E | E | E | E | |
| 30 | E | C | E | 1.4 | E | 1.4 | E | 1.3 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | 1.2 | 1.5 | 1.5 | 1.7 | 1.7 | E | 1.5 | E | 1.1 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | E | 1.2 | E | 1.2 | E | E | E | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.4 | 1.3 | 1.3 | 1.3 | E | 1.2 | 1.3 | E | |
| Count | 29 | 28 | 29 | 29 | 29 | 28 | 29 | 27 | 29 | 28 | 25 | 24 | 26 | 27 | 29 | 28 | 28 | 28 | 30 | 28 | 30 | 30 | 30 | 30 | 30 |

f_{min}E

Sweep 1.0 Mc to 15.0 Mc in 1.5 min

Manual Automatic

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

Lat. 37° 57.0' N
Long. 139° 15.8' E

Shibata

IONOSPHERIC DATA

135° E Mean Time

Dec. 1946

f_oF₂

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|--------------------|--------------------|--------------------|--------------------|------------------|--------------------|--------------------|-----|-------------------|---------------------|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|--------------------|--------------------|-----|
| 1 | 3.2 | 3.6 | 3.2 | 3.7 | 3.7 | 3.9 | 4.0 | 7.4 | 9.9 | 9.1 | 10.6 | 11.4 | 11.0 | 11.5 | 10.2 | 9.5 | 7.7 | 6.3 | 4.4 ^J | 3.8 | 3.3 | 3.6 ^J | 3.6 | 2.8 | |
| 2 | A | 3.6 | 3.6 | 3.0 ^F | 3.4 | (3.7) | 3.8 | 7.3 | 8.5 | 9.7 | 12.4 | 12.5 | (12.5) ^C | 12.5 | 11.6 | 10.8 | 8.6 | 8.1 | 6.4 | A | 4.0 ^J | 3.2 | 3.0 | 3.2 | |
| 3 | 3.2 | 3.3 | 3.6 | 3.7 | 3.5 | 3.6 | 4.1 | C | C | C | 12.5 | 13.1 | 12.2 | 12.4 | 11.6 | 10.7 | 9.2 | 7.5 | 6.9 | 5.7 | 4.0 | 3.3 | 3.1 | 3.4 | |
| 4 | 3.5 | 3.7 | 3.4 | 3.4 | 3.4 | 3.3 | 3.6 | 6.8 | 9.4 | 11.8 | 12.2 | 12.3 | 10.1 | 9.9 | 10.0 | 8.8 | 8.2 | 7.3 | 5.6 | 4.9 ^J | 3.8 | 3.2 | 2.8 | 3.1 | |
| 5 | 3.2 | 3.2 | 3.3 | 3.6 | 3.2 | (3.1) ^B | 3.4 | 8.1 | 10.0 | 11.0 | 10.4 | 11.3 | 10.3 | 10.6 | 10.9 | 9.7 | 8.0 | 6.9 | 5.7 | 5.9 | 4.1 | 3.6 | 3.3 | 3.5 | |
| 6 | 3.3 | 3.7 | 3.8 | 3.5 | 3.6 | 3.6 | 5.1 ^J | 8.2 | C | C | C | C | C | C | C | C | 9.2 | 8.5 | 5.8 | 3.8 | 3.5 | 3.2 | 3.1 | 3.3 | |
| 7 | 3.5 | 3.7 | 3.7 | 4.0 | 4.0 | 3.2 | 3.4 | 7.3 | 8.9 | (10.7) | 10.8 | 11.8 | 11.5 | 11.8 | 11.0 | 11.4 | 9.7 | 7.5 | 6.5 | 5.7 | 3.6 | 3.3 | 3.1 | 3.3 | |
| 8 | 3.5 | 3.5 | 3.3 | 3.0 | 3.1 | 3.0 | 3.5 | 7.0 | 9.2 | 10.5 | 11.2 | 11.8 | 12.1 | 10.6 | 10.3 | 9.5 | 8.1 | 6.7 | 5.3 | 3.5 | 3.4 | 3.3 | 3.3 | 3.3 | |
| 9 | 3.3 | 3.4 | 3.3 | 3.2 | 3.2 | 3.3 | 3.6 | 7.0 | 9.6 | 10.1 | 10.7 | 10.7 | 9.9 | 11.5 | 10.8 | 9.7 | 9.3 | 7.5 | 6.4 | 4.3 | 3.7 | 3.4 | 2.8 | 3.0 | |
| 10 | 3.2 | 3.2 | 3.1 | 3.1 | 3.1 | 3.1 | 3.0 | 6.5 | 8.8 | 10.4 | 11.3 ^H | 11.1 | 11.4 | 10.8 | 10.8 | 9.9 | 8.7 ^J | (5.5) ^C | 4.2 | 4.4 | 3.4 ^S | 2.4 ^S | (2.3) ^S | (2.4) ^S | |
| 11 | 3.2 ^S | 2.4 | 3.3 | (3.0) ^S | 3.5 | 3.1 ^J | (2.6) | 6.8 | 8.2 | 10.2 | 12.5 | 11.4 | 11.0 | 11.0 | 10.6 | 9.7 | 8.8 | 7.5 | 6.1 | 4.2 ^J | 2.7 | 3.2 | 3.3 | 3.1 | |
| 12 | 3.2 | 3.2 | 3.4 | 3.4 | 3.3 | C | C | 7.2 | 11.4 | 10.5 | 12.0 | 11.7 | 11.8 | 11.6 | 11.3 | 9.7 | 8.5 | 6.6 | 6.2 | 4.9 ^J | 5.0 | 3.0 | 2.9 | 3.0 | |
| 13 | (2.9) ^S | 3.7 | 2.9 | 3.1 | 3.2 | 3.3 | 3.9 | 6.9 | 8.8 | C | C | C | C | C | C | C | C | 8.2 | 6.1 | 4.9 ^H | 4.2 | 3.1 | 3.1 | 3.3 | |
| 14 | 3.2 | 3.0 | 3.4 | 3.5 | 3.3 | C | C | C | C | C | B | 10.9 | 11.0 | 10.3 | 10.2 | 9.1 | 8.4 | 6.6 | 6.5 | 5.0 ^J | 3.4 | 2.4 ^S | 2.9 | (2.7) ^S | |
| 15 | 3.1 | 3.1 | 3.3 | 3.3 | 3.4 | 3.2 | (3.8) ^S | 6.2 | 8.5 | 9.7 | 11.4 ^H | 11.0 | 11.2 | 10.6 | 9.8 | 8.9 | 8.0 | 6.8 ^H | 6.5 | 5.0 ^J | (3.2) | 3.1 | 2.7 ^J | 3.5 | |
| 16 | 3.1 | 3.5 | (3.5) ^C | 3.5 | 3.5 | 3.3 | 3.5 | 7.7 | 8.2 | 9.1 | 10.1 | 9.8 | 10.6 | 11.3 | 10.5 | (9.4) ^B | 8.3 | 7.2 | 6.6 | 4.8 | 4.6 | 3.7 | 3.1 | 3.0 | |
| 17 | 3.3 | 3.3 | 3.5 | 3.4 | 3.4 | 3.2 | 3.6 | 7.7 | 9.0 | 9.6 | 9.9 | 11.9 | 10.5 | 10.5 | 10.5 | 10.5 | 9.3 | 7.5 | 6.8 | 6.1 | 5.1 ^S | 3.5 | 3.1 | 3.2 | |
| 18 | 3.4 | 3.3 | C | C | C | C | C | C | C | C | 11.6 | 11.8 | 11.9 | 10.9 ^J | 10.0 | 11.0 | 9.7 | 7.4 | 6.4 | 4.7 ^H | 3.9 | (2.7) | 3.0 | 2.9 | |
| 19 | 3.1 | 2.9 | 3.3 | 3.5 | 3.3 | 3.2 | 3.0 | 6.4 | 9.9 | (10.0) ^S | 10.3 | 12.4 | C | C | C | C | 9.0 | 8.4 | 8.1 | 7.7 | 5.0 ^J | 2.2 ^S | (1.5) ^S | | |
| 20 | S | (2.6) ^S | 3.0 ^S | 2.9 ^J | 2.6 ^J | (2.2) ^H | 3.1 | 6.9 | 9.2 | C | C | C | C | C | C | C | (9.4) ^S | 6.6 | 6.4 | 5.0 | 3.8 | 3.5 | 3.4 | 3.2 | |
| 21 | 3.3 | 3.1 | 2.8 | 3.4 | 3.6 | 2.5 ^S | 2.9 ^H | 5.9 | 8.5 | 9.9 | 10.6 | 12.1 | 11.1 | 11.4 | 10.6 | 9.5 | 8.4 | 7.1 | 6.6 | 4.2 | (4.5) | 3.0 | 3.4 | 3.4 | |
| 22 | 2.7 | 2.9 | 2.9 | 3.4 | 3.3 | 3.0 | 2.7 | 6.1 | 9.6 | 11.3 | 11.6 | 11.7 | 11.4 | 9.6 | 10.6 | 8.9 | 9.0 | 7.9 | 6.8 | 5.7 | 3.9 | 3.4 | 3.2 ^J | 3.0 | |
| 23 | 3.0 | 3.2 | 3.1 | 3.3 | 3.1 | 3.1 | 3.4 | 7.3 | 9.9 | 11.6 | 11.0 | 11.2 | 10.9 | 9.6 | 9.0 | 10.0 | 9.0 | 6.8 | 5.6 | 5.4 | 5.4 ^J | 4.7 | 3.4 | 3.3 | |
| 24 | 3.2 | 3.5 | 3.6 | 3.4 | 2.4 | 2.8 | 3.1 | 6.0 | 9.5 | 11.2 | 11.7 | 11.4 | 11.2 | 10.3 | 9.5 ^H | 9.9 | 9.3 | (7.1) ^B | 6.6 | 5.4 | 5.1 | 4.4 | 3.5 | 2.4 | |
| 25 | 3.2 ^H | 2.9 | 3.2 | 3.3 | 3.4 | 2.4 | 2.9 | 6.0 | 9.3 | 10.9 | 11.5 | (10.8) ^S | (10.3) ^S | 10.6 | 10.0 | 8.7 | 8.3 | 7.3 | (6.7) ^C | 5.4 | 4.4 | 3.2 | 2.6 | 2.6 | |
| 26 | 2.6 | 3.1 | 3.3 | 3.3 | 3.6 | 3.2 | (4.1) ^C | 6.4 | 8.3 | 9.9 | 11.1 ^H | 13.3 | 10.6 | (11.4) ^S | 9.4 | 10.1 | 9.6 | 8.2 | 6.2 | 5.9 | 3.8 | 3.8 | 2.4 | 2.8 | |
| 27 | 3.1 | 3.2 | 3.4 ^S | 3.4 | 3.5 | 4.1 | 4.7 | 5.7 | 8.0 | C | C | C | C | C | C | C | C | C | 7.9 | 7.6 | 7.3 | S | AF | (3.0) | 3.0 |
| 28 | 3.4 | 3.5 | 3.5 | 3.5 | 3.7 | 3.1 | 3.5 | 6.2 | 10.4 ^T | C | C | 11.5 | (10.6) ^S | (11.3) ^B | 10.1 | 10.4 | 8.7 | 7.7 | 8.0 | 6.8 | 3.9 | 3.2 | 2.4 | 2.7 | |
| 29 | 2.8 | 2.6 | 2.9 | 3.0 | 3.0 | 3.2 | 3.5 | 6.7 | 9.6 | 10.5 | 10.9 | 11.3 | 11.9 | 11.0 | 11.1 | (10.0) ^S | 11.2 | C | 4.8 | 5.3 | 3.9 ^F | 3.6 ^S | AS | AS | |
| 30 | AS | A | 2.8 | 2.9 | 2.9 | 2.6 ^J | 3.0 | 5.9 | 8.3 | 9.6 | 10.5 | 11.1 | 10.5 | 11.5 | 10.4 | 10.1 | 9.0 | A | 5.9 ^J | 5.3 | 5.1 ^J | A | 2.9 | 2.9 | |
| 31 | 3.0 | 2.8 | 3.1 | 3.0 | 2.8 | 3.1 | 3.3 | 5.0 | 7.5 | 8.9 | 10.3 | (13.4) ^S | 11.6 | 11.4 | (10.8) ^B | 10.7 | 10.2 | 7.1 | 6.0 | (5.9) ^J | 4.0 | 2.9 | 2.5 | (3.0) ^J | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 3.2 | 3.2 | 3.3 | 3.4 | 3.3 | 3.2 | 3.5 | 6.9 | 9.2 | 10.2 | 11.1 | 11.5 | 11.0 | 11.0 | 10.5 | 9.7 | 9.0 | 7.5 | 6.4 | 5.3 | 3.9 | 3.3 | 3.1 | 3.0 | |
| Count | 28 | 30 | 30 | 30 | 30 | 28 | 28 | 28 | 27 | 23 | 25 | 27 | 26 | 26 | 26 | 26 | 29 | 30 | 31 | 31 | 30 | 28 | 30 | 30 | |

f_oF₂

Group 1.0 Mc to 1.5.0 Mc in 1.5 min

Manual

Automatic

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

Lat. 37° 57.0' N
Long. 139° 15.8' E

Shibata

IONOSPHERIC DATA

135° E Mean Time

RF2

Dec. 1946

| 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 | 300 | 290 | 280 | 270 | 250 | 250 | 240 | 220 | 220 | 230 | 240 | 230 | 230 | 220 | 220 | 210 | 220 | 220 | A | 200 | (240) ^A | A | A |
| 2 | A | 300 | 300 | 210 | 300 | 290 | 290 | 210 | 200 | 220 | 200 | 200 | 210 | 200 | 200 | 200 | 220 | 240 | A | 230 | A | 230 | 270 | 300 |
| 3 | 310 | 300 | 330 | 290 | 270 | 300 | 270 | 250 | C | C | 220 | 220 | 230 | 230 | 230 | 200 | 220 | 200 | 200 | 200 | 200 | 220 | 280 | 270 |
| 4 | 250 | 240 | 240 | 260 | 250 | 250 | 230 | 210 | 200 | 240 | 200 | 200 | 240 | 230 | 220 | 180 | 180 | 220 | A | 240 | 240 | 250 | 250 | 200 |
| 5 | 310 | 300 | 300 | 270 | 280 | 240 | 250 | 210 | 210 | 200 | 200 | 210 | 200 | 200 | 210 | 200 | 180 | 170 | 170 | 200 | 180 | 190 | 210 | 280 |
| 6 | 270 | 250 | 210 | 250 | 250 | 220 | 210 | 210 | 200 | C | C | C | C | C | C | C | 190 | 200 | 180 | 190 | 210 | 220 | 300 | 280 |
| 7 | 250 | 250 | 250 | 220 | 200 | 250 | 230 | 190 | 170 | 190 | 180 | 190 | 200 | 190 ^H | 200 | 210 ^H | 180 | 180 | 200 | 210 | 230 | 240 | 290 | 270 |
| 8 | 250 | 230 | 240 | 240 | 290 | 300 | 220 | 210 | 200 | 200 | 220 | 220 | 220 | 200 | 210 | 210 | 210 | 170 | 180 | 180 | 200 | 230 | 260 | 250 |
| 9 | 260 | 240 | 270 | 290 | 270 | 250 | 220 | 220 | 210 | 220 | 230 | 230 | 220 | 240 | 220 | 220 | 220 | 210 | 220 | 220 | 240 | 240 | 230 | 250 |
| 10 | 270 | 200 | 240 | 230 | 220 | 200 | 200 | 200 | 200 | 180 | 220 ^H | 230 | 230 | 230 | 210 | 230 | 220 | (190) ^C | 200 | 240 | (270) ^S | 300 | 330 | 320 |
| 11 | 290 | 300 | 340 | 330 | 270 | 200 | 230 | 200 | 210 | 210 | 270 | 230 | 240 | 240 | 240 | 230 | 240 | 230 | 200 | 220 | 230 | A | 270 | 270 |
| 12 | 290 | 300 | 320 | 320 | 310 | 270 | 250 | 240 | 220 | 210 | 220 | 250 | 250 | 250 | 250 | 230 | 240 | 230 | 240 | 240 | 240 | 250 | 300 | 340 |
| 13 | 300 | 270 | 300 | 310 | 330 | 330 | 260 | 220 | 200 | C | C | C | C | C | C | C | C | 190 | 200 | 200 | 200 | 200 | 250 | 270 |
| 14 | 260 | 280 | 270 | 270 | 240 | C | C | C | C | C | 200 | 200 | 210 | 200 | 210 | 200 | 190 | 180 | 190 | 170 | 180 | 200 | 260 | 270 |
| 15 | 250 | 230 | 250 | 240 | 240 | 250 | 240 | 190 | 190 | 200 | 200 ^H | 190 | 200 | 190 | 190 | 190 | 190 | 170 | 190 | 170 | 200 | 240 | 300 | 320 |
| 16 | 270 | 250 | 260 | 260 | 230 | 280 | 240 | 210 | 200 | 200 | 230 | 220 | 220 | 220 | 240 | 230 | 200 | 190 | 210 | 200 | 210 | 230 | 250 | 300 |
| 17 | 300 | 290 | 250 | 240 | 240 | 230 | 240 | 230 | 210 | 210 | 210 | 240 | 220 | 200 | 210 | 210 | 200 | 190 | 190 | 190 | 190 | 220 | 220 | 290 |
| 18 | 250 | 240 | C | C | C | C | C | C | C | C | 200 | 200 | 200 | 200 | 200 | 200 | 190 | 180 | 190 | 180 | 210 | 190 | 270 | 300 |
| 19 | 300 | 300 | 300 | 250 | 220 | 250 | 250 | 220 | 180 | 190 | 180 | 210 | C | C | C | C | 190 | 220 | 230 | 230 | 260 | 270 | 240 | |
| 20 | S | 300 | 260 | 220 | 230 | 280 ^H | 300 | 230 | 210 | C | C | C | C | C | C | C | 200 | 180 | 220 | 180 | 190 | 240 | 330 | 330 |
| 21 | 330 | 320 | 350 | 330 | 270 | 270 | 280 | C | C | C | C | C | C | C | C | C | 230 | (230) ^C | 220 | 190 | 240 | 300 | 300 | 260 |
| 22 | 290 | 340 | 360 | 320 | 230 | 260 | 260 | 230 | 200 | 210 | 220 | 210 | 220 | 240 | 240 | 200 | 210 | 200 | 210 | 210 | 190 | 240 | 260 | 260 |
| 23 | 310 | 270 | 270 | 320 | 270 | 270 | 240 | 260 | 200 | 210 | 200 | 210 | 210 | 190 | 200 | 210 | 210 | 180 | 230 | 190 | 210 | 190 | 200 | 290 |
| 24 | 280 | 240 | 220 | 230 | 220 | 300 | 250 | 220 | 210 | 200 | 200 | 210 | 220 | 210 | 200 ^H | 210 | 220 | 220 | 200 | 200 | 210 | 210 | 200 | 310 |
| 25 | 290 | 270 | A | 250 | 230 | 220 | 270 | 240 | 210 | 220 | 220 | 230 | 230 | 220 | 220 | 220 | 210 | 180 | (230) ^C | 210 | 220 | 210 | 200 | 290 |
| 26 | 330 | 320 | 280 | 280 | 270 | 210 | 240 | 260 | 200 | 220 | 200 ^H | 230 | 210 | 220 | 210 | 220 | 220 | 200 | 190 | 220 | 210 | 230 | 230 | 300 |
| 27 | 330 | 320 | 290 | 300 | 290 | 300 | 240 | 200 | 200 | C | C | C | C | C | C | C | C | 220 | 240 | 220 | S | AF | (250) ^H | (300) |
| 28 | 350 | 340 | 350 | 290 | 260 | 270 | 260 | 200 | 230 | C | C | 210 | 200 | 220 | 220 | 200 | 210 | 190 | 220 | 210 | 210 | 230 | 240 | 300 |
| 29 | 270 | 280 | 290 | 260 | 270 | 280 | 230 | 220 | 200 | 210 | 200 | 200 | 220 | 230 | 230 | 230 | 220 | (210) ^C | 200 | F | 310 ^F | 290 | AS | AS |
| 30 | AS | A | 270 | 260 | 250 | 270 | 250 | 200 | 190 | 190 | 210 | 210 | 210 | 220 | 200 | 200 | 220 | A | A | A | A | A | 290 | 300 |
| 31 | 290 | 310 | 310 | 290 | 250 | 270 | 210 | 220 | 220 | 220 | 220 | 230 | 220 | 210 | 220 | 220 | 200 | 190 | 210 | 210 | 200 | 200 | 260 | 280 |
| MEAN Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 290 | 290 | 280 | 270 | 260 | 250 | 240 | 220 | 200 | 210 | 210 | 220 | 220 | 210 | 210 | 210 | 210 | 200 | 210 | 210 | 210 | 210 | 230 | 260 |
| Count | 28 | 30 | 29 | 30 | 30 | 29 | 29 | 28 | 27 | 22 | 25 | 26 | 25 | 25 | 25 | 25 | 29 | 30 | 28 | 28 | 27 | 29 | 29 | 29 |

RF2

Energy 1.0 Mc in 1.50 Mc in 1.5 min

Manual Automatic

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

IONOSPHERIC DATA

Lat. 37° 57.0' N
Long. 139° 15.8' E

Dec. 1946

foF1

135° E Mean Time

Shibata

| 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 | L | L | L | L | L | L | L | L | A | | | | | | | |
| 2 | | | | | | | | | L | L | L | L | L | A | A | L | L | A | | | | | | |
| 3 | | | | | | | | L | C | L | L | L | L | L | L | L | L | L | | | | | | |
| 4 | | | | | | | | | L | L | L | L | L | L | | | | | | | | | | |
| 5 | | | | | | | | | | | | L | L | | | | | | | | | | | |
| 6 | | | | | | | L | L | L | C | C | C | C | C | C | C | | | | | | | | |
| 7 | | | | | | | | | | | L | L | L | L | L | L | | | | | | | | |
| 8 | | | | | | | | | | L | L | L | | | | | | | | | | | | |
| 9 | | | | | | | | | L | L | L | L | L | | | | | | | | | | | |
| 10 | | | | | | | | | | | | L | L | 5.1 | L | | | | | | | | | |
| 11 | | | | | | | | | | B | L | L | L | L | L | | | | | | | | | |
| 12 | | | | | | | | | | 5.1 | L | L | L | L | L | | | | | | | | | |
| 13 | | | | | | | | | C | C | C | C | C | C | C | C | C | | | | | | | |
| 14 | | | | | | | | | 5.2 | L | L | L | | | | | C | | | | | | | |
| 15 | | | | | | | | L | B | L | L | L | | | | | | | | | | | | |
| 16 | | | | | | | | | L | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | L | L | L | L | L | | | | | | | | | | | |
| 18 | | | | | | | | | | L | L | L | L | L | | | | | | | | | | |
| 19 | | | | | | | | | | L | C | C | C | C | C | C | | | | | | | | |
| 20 | | | | | | | | C | C | C | C | C | C | C | C | C | | | | | | | | |
| 21 | | | | | | | | | | L | | | | | | | | | | | | | | |
| 22 | | | | | | | | | L | L | L | L | L | | | | | | | | | | | |
| 23 | | | | | | | | | | L | L | L | L | | | | | | | | | | | |
| 24 | | | | | | | | | | L | L | L | L | | | | | | | | | | | |
| 25 | | | | | | | | | L | L | L | L | L | L | | | | | | | | | | |
| 26 | | | | | | | | | | C | C | C | C | C | C | C | C | | | | | | | |
| 27 | | | | | | | | | | C | C | C | C | C | C | C | C | | | | | | | |
| 28 | | | | | | | | | | L | L | L | L | L | L | L | | | | | | | | |
| 29 | | | | | | | | | | L | L | L | L | L | L | L | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | BK | BK | BK | LK | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | | | | | | | | | | | | | | | | | | | | | | | | |

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

Lat. 37° 57.0' N
Long. 139° 15.8' E

Shibata

IONOSPHERIC DATA

135° E Mean Time

Dec. 1946

R'F1

| 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 | | | | | | | | 230 | 210 | 210 | 220 | 220 | 200 | 230 | 230 | 220 | A | | | | | | | |
| 2 | | | | | | | | 230 | C | C | 210 | 200 | 200 | A | A | 190 | 200 | A | | | | | | |
| 3 | | | | | | | | | C | C | 210 | 220 | 200 | 220 | 230 | 190 | 200 | 200 | | | | | | |
| 4 | | | | | | | | | 200 | 200 | 190 | 220 | 220 | | | | | | | | | | | |
| 5 | | | | | | | | | | | 200 | 190 | | | | | | | | | | | | |
| 6 | | | | | | | 200 | 190 | 190 | C | C | C | C | C | C | C | | | | | | | | |
| 7 | | | | | | | | | | | 170 | 180 | 180 | 180 | 180 | 200 | | | | | | | | |
| 8 | | | | | | | | | | 210 | 200 | 200 | 200 | | | | | | | | | | | |
| 9 | | | | | | | | | 210 | 210 | 210 | 210 | 220 | | | | | | | | | | | |
| 10 | | | | | | | | | | | | 210 | 210 | 210 | 210 | | | | | | | | | |
| 11 | | | | | | | | | | | B | 220 | 230 | 230 | | | | | | | | | | |
| 12 | | | | | | | | | | | 240 | 240 | 240 | 240 | | | | | | | | | | |
| 13 | | | | | | | | | C | C | C | C | C | C | C | C | C | | | | | | | |
| 14 | | | | | | | | | | 200 | 190 | 190 | | | | | | | | | | | | |
| 15 | | | | | | | | | 190 | B | 190 | 190 | | | | | | | | | | | | |
| 16 | | | | | | | | | | 220 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | 210 | 210 | 190 | | | | | | | | | | | |
| 18 | | | | | | | | | | | 180 | 190 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | 200 | C | C | C | C | C | | | | | | | | |
| 20 | | | | | | | | | | C | C | C | C | C | C | C | | | | | | | | |
| 21 | | | | | | | | | | | C | | | | | | | | | | | | | |
| 22 | | | | | | | | | | 200 | 210 | 200 | 200 | | | | | | | | | | | |
| 23 | | | | | | | | | | | 200 | 200 | 200 | | | | | | | | | | | |
| 24 | | | | | | | | | | | 190 | 210 | 210 | | | | | | | | | | | |
| 25 | | | | | | | | | | 210 | 230 | 220 | 210 | 210 | | | | | | | | | | |
| 26 | | | | | | | | | | | 220 | 210 | 210 | 210 | | | | | | | | | | |
| 27 | | | | | | | | | | C | C | C | C | C | C | C | C | | | | | | | |
| 28 | | | | | | | | | | | 200 | 200 | 210 | 220 | 220 | 220 | | | | | | | | |
| 29 | | | | | | | | | | | BK | BK | BK | BK | 200 ^K | | | | | | | | | |
| 30 | | | | | | | | | | | BK | BK | BK | BK | 200 ^K | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | 230 | — | 200 | 210 | 200 | 200 | 220 | 220 | 200 | — | — | — | — | — | — | — | — |
| Count | | | | | | | 1 | 3 | 2 | 5 | 11 | 19 | 21 | 13 | 9 | 5 | 2 | 1 | | | | | | |

R'F1

Group 1.0 Mc to 15.0 Mc in 1.5 min

Manual Automatic

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

Lat. 37° 57.0' N
Long. 139° 15.8' E

IONOSPHERIC DATA

Shibata

foE

Dec. 1946

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 | | | | | | | | 1.8 | A | A | 3.4 | 3.5 ^H | A | B | 3.0 | 2.6 | A | 1.4 ^H | | | | | | |
| 2 | | | | | | | | 1.8 | A | 3.0 | A | A | A | A | A | A | A | A | A | | | | | |
| 3 | | | | | | | | 1.8 | C | C | 3.6 | 3.5 | 3.4 | 3.2 | 3.0 | B | 2.2 | E | | | | | | |
| 4 | | | | | | | | E | 2.4 | A | 3.0 | B | 3.3 ^H | 3.3 ^H | A | 2.5 | 2.2 | A | | | | | | |
| 5 | | | | | | | | 1.7 | 2.5 | B | A | A | A | B | 3.1 | (2.9) ^B | (0.9) ^A | A | | | | | | |
| 6 | | | | | | | | 1.6 | 2.6 | C | C | C | C | C | C | C | A | A | | | | | | |
| 7 | | | | | | | | 1.8 | A | 3.2 | A | A | A | A | A | A | A | A | | | | | | |
| 8 | | | | | | | | 1.3 ^H | 2.6 | B | B | B | B | B | B | B | B | B | A | | | | | |
| 9 | | | | | | | | (1.8) ^A | 2.4 | 2.7 | 3.4 | 3.3 | B | A | 3.3 | 2.9 | B | A | | | | | | |
| 10 | | | | | | | | 1.7 | 2.3 | A | 3.2 | A | 3.5 | (3.6) ^B | (3.0) ^B | A | A | C | | | | | | |
| 11 | | | | | | | | E | 2.5 | 3.1 | 3.3 | (3.6) ^S | S | 3.5 | 3.1 | 2.9 | 2.3 | E | | | | | | |
| 12 | | | | | | | | EH | 2.6 | 3.2 | A | (3.6) ^B | 3.4 ^J | 3.3 | 3.0 | 2.5 | 1.9 ^H | A | | | | | | |
| 13 | | | | | | | | E | 2.4 | C | C | C | C | C | C | C | C | E | | | | | | |
| 14 | | | | | | | | C | C | C | 3.2 ^J | 3.4 | 3.5 | 3.4 | 3.4 | 2.6 ^J | 1.7 ^H | E | | | | | | |
| 15 | | | | | | | | E | 2.4 | A | 3.2 | A | A | 2.9 ^J | A | 2.6 | 2.2 | E | | | | | | |
| 16 | | | | | | | | EH | 2.4 | 2.6 | 3.4 | A | 3.7 | 3.4 | A | 2.6 | A | E | | | | | | |
| 17 | | | | | | | | EH | 2.5 | A | A | 3.3 ^J | 3.7 | A | 3.2 | 3.0 | B | E | | | | | | |
| 18 | | | | | | | | C | C | C | 3.5 | A | A | B | A | B | B | E | | | | | | |
| 19 | | | | | | | | EH | 2.5 | B | 3.2 | 3.6 | C | C | C | C | A | E | | | | | | |
| 20 | | | | | | | | E | (2.3) ^B | C | C | C | C | C | C | C | 2.2 | E | | | | | | |
| 21 | | | | | | | | EH | 1.4 ^H | (2.9) ^B | 3.1 | 3.4 | 3.4 | 3.5 | A | A | E | | | | | | | |
| 22 | | | | | | | | 1.8 | A | 3.2 | 3.4 | 3.3 | 3.7 | A | B | A | A | E | | | | | | |
| 23 | | | | | | | | E | 2.0 | 2.4 | 3.4 | 3.4 | (3.5) ^A | 3.5 | 3.2 | A | (2.5) ^B | 1.4 | | | | | | |
| 24 | | | | | | | | E | 2.5 | 3.0 | 3.4 | 3.3 | 3.7 | 3.5 | 3.3 | 3.1 | S | E | | | | | | |
| 25 | | | | | | | | E | 1.6 | 3.0 | 3.4 | 3.5 | 3.4 | 3.3 | 3.1 | A | 1.9 | E | | | | | | |
| 26 | | | | | | | | E | 2.3 | 2.8 | 3.2 | 3.4 | 3.5 | 3.4 | 3.2 | 2.9 | A | E | | | | | | |
| 27 | | | | | | | | 1.8 ^J | 2.6 | C | C | C | C | C | C | C | A | | | | | | | |
| 28 | | | | | | | | E | 2.2 | C | C | 3.3 | 3.3 | B | B | A | 2.1 | A | | | | | | |
| 29 | | | | | | | | A | 2.4 | S | B | 3.5 | B | B | B | 2.3 | 2.1 | C | | | | | | |
| 30 | | | | | | | | E | A | 2.9 | 3.2 ^J | A | B | BA | A | B | B | A | | | | | | |
| 31 | | | | | | | | E | BK | BK | BK | BK | BK | BK | BK | BK | BK | A | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | | | | | | | | | | | | | | | | | | | | | | | | |

foE

Group 1.0 Mc to 15.0 Mc in 1.5 min

Manual

Automatic

Lat. 35° 57.0' N
Long. 139° 15.8' E

Shibata

IONOSPHERIC DATA

1'E

Dec. 1946

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

1'E

Sweep 1.0 Mc to 15.0 Mc in 1.5 min Manual Automatic

Lat. 37° 51.0' N
Long. 139° 15.8' E

Shibata

IONOSPHERIC DATA

fEs

Dec. 1946

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 | 1.8 | 1.3 | 2.0 | 2.0 | 2.1 | 1.8 | E | E | 3.2 | <fE | <fE | 3.7 | 4.0 | <fE | <fE | 2.9 | 4.2 | E | 1.9 | 4.2 | 2.1 | 4.2 | 4.0 | 3.4 | |
| 2 | 4.2 | 2.0 | 2.8 | 1.3 | 1.9 | 3.1 | 2.8 | 3.0 | 5.9 | 4.0 | 3.5 | 3.5 | 4.8 | 6.3 | 3.9 | 3.6 | 3.2 | 3.5 | 3.4 | 3.6 | 3.4 | 2.2 | 2.0 | 1.9 | |
| 3 | 1.9 | E | 2.0 | 2.3 | 1.2 | E | 2.0 | <fE | C | C | 4.0 | <fE | <fE | 3.8 | <fE | 2.2 | 2.0 | 1.7 | 2.2 | 2.0 | 1.9 | 2.0 | E | E | |
| 4 | E | 2.0 | 2.1 | E | E | 2.0 | 2.0 | E | <fE | 3.1 | 3.3 | <fE | 3.7 | <fE | 3.2 | <fE | <fE | 4.8 | 3.1 | 2.6 | 2.1 | E | E | E | |
| 5 | 1.7 | E | 2.1 | 1.8 | 1.7 | E | E | E | <fE | 2.7 | 3.4 | 3.1 | 3.4 | <fE | 3.0 | 2.0 | 1.8 | 1.8 | 1.9 | E | E | E | 1.9 | E | |
| 6 | E | E | E | E | 2.0 | E | E | E | 2.9 | C | C | C | C | C | C | C | 3.0 | 2.1 | 3.2 | 1.9 | 1.5 | 1.9 | 2.2 | E | |
| 7 | E | E | 1.5 | E | E | 2.0 | E | 2.0 | 2.5 | 3.7 | 3.8 | 3.5 | 3.5 | 3.4 | 3.1 | 2.6 | B | 4.0 | 1.9 | 2.8 | E | 3.6 | 1.9 | 1.9 | |
| 8 | 1.9 | E | E | 2.0 | 2.0 | 2.2 | E | <fE | <fE | B | B | B | B | B | 3.1 | B | B | 1.9 | 2.0 | 2.0 | 2.0 | 1.9 | E | E | |
| 9 | E | 1.3 | 1.3 | 1.9 | E | 1.9 | E | 2.9 | <fE | <fE | 3.4 | <fE | 3.4 | 5.8 | <fE | 2.8 | 2.6 | 3.4 | 2.1 | 1.9 | 2.7 | 2.7 | 1.9 | E | |
| 10 | 1.9 | E | 2.0 | 2.0 | 2.1 | 1.4 | 1.8 | E | <fE | 2.9 | 3.2 | 4.0 | <fE | B | <fE | 2.6 | 1.9 | C | 2.2 | E | E | 1.9 | E | E | |
| 11 | E | E | E | E | E | 1.2 | E | 2.8 | <fE | <fE | <fE | <fE | 3.1 | <fE | <fE | <fE | <fE | 2.6 | 2.4 | 2.8 | 3.0 | 2.2 | E | E | |
| 12 | E | E | E | E | E | E | C | E | <fE | <fE | 3.8 | <fE | <fE | <fE | <fE | <fE | 1.7 | 1.3 | 2.4 | 2.6 | 2.1 | 1.9 | 1.7 | E | |
| 13 | E | E | E | E | E | 1.9 | E | 3.4 | 2.9 | C | C | C | C | C | C | C | C | E | E | E | E | E | E | 2.1 | |
| 14 | 1.6 | 1.7 | 1.4 | 1.7 | 1.9 | C | C | C | C | C | <fE | 3.3 | 4.9 | <fE | 3.4 | <fE | <fE | E | E | E | E | 2.2 | 1.8 | E | |
| 15 | E | E | E | E | 1.5 | E | E | 1.5 | 3.2 | 3.4 | <fE | 4.0 | 4.2 | 3.3 | 3.7 | 3.6 | <fE | 1.6 | E | 2.2 | E | E | E | E | |
| 16 | E | E | C | E | E | E | E | E | <fE | <fE | 4.3 | 4.8 | 4.7 | 3.9 | 3.2 | <fE | <fE | E | E | E | E | E | E | E | |
| 17 | E | E | E | E | 2.2 | 1.2 | E | E | <fE | 3.4 | 4.5 | 4.8 | 4.5 | 4.4 | <fE | 3.3 | B | 1.2 | E | 2.5 | 1.7 | E | E | E | |
| 18 | E | E | C | C | C | C | C | C | C | C | 5.2 | 5.3 | 5.4 | 3.9 | 6.2 | B | B | E | E | E | E | E | E | E | |
| 19 | E | E | E | E | E | E | 2.3 | E | 2.2 | 2.4 | <fE | 4.0 | <fE | C | C | C | 1.8 | 3.4 | E | E | E | E | 2.1 | 2.1 | |
| 20 | E | E | E | E | 2.0 | E | E | E | <fE | C | C | C | C | C | C | C | <fE | E | E | E | 2.9 | 2.9 | 2.6 | 2.2 | |
| 21 | 2.0 | 2.0 | 2.2 | 1.8 | E | E | E | E | <fE | <fE | <fE | <fE | 5.2 | <fE | 4.6 | 4.0 | 3.8 | 3.6 | 2.4 | E | 2.0 | E | E | E | |
| 22 | 2.3 | 2.1 | 1.9 | E | E | E | 2.1 | E | 2.4 | <fE | <fE | <fE | <fE | 3.8 | B | 3.6 | 2.5 | E | E | 1.6 | 2.0 | E | E | E | |
| 23 | E | E | E | 2.9 | 1.9 | E | E | <fE | <fE | <fE | 6.2 | <fE | 3.9 | <fE | 3.6 | 3.0 | 2.1 | 1.7 | E | E | E | E | E | E | |
| 24 | 2.2 | 1.5 | 2.0 | E | E | E | E | E | 2.8 | 3.1 | 4.0 | 4.0 | <fE | 3.8 | 3.9 | <fE | <fE | E | E | E | E | E | E | E | |
| 25 | 3.6 | 3.3 | 3.2 | 2.2 | 1.7 | E | E | 2.4 | <fE | 3.2 | <fE | <fE | <fE | 3.8 | 3.1 | <fE | 1.9 | 2.2 | C | 2.0 | 2.1 | 2.7 | 1.8 | 2.1 | |
| 26 | 2.1 | E | E | E | E | E | C | <fE | 2.3 | 6.4 | <fE | <fE | 3.6 | <fE | 3.5 | 3.6 | 3.5 | 1.6 | E | E | E | E | E | 2.1 | |
| 27 | E | E | E | E | E | 2.0 | E | 1.9 | <fE | C | C | C | C | C | C | C | C | 2.8 | 2.1 | 5.2 | 3.2 | 3.2 | 3.3 | 2.4 | |
| 28 | 2.1 | 2.1 | 2.4 | 2.1 | E | E | E | E | <fE | C | C | <fE | <fE | B | B | 2.4 | <fE | 3.1 | 3.0 | 4.3 | 2.3 | 2.3 | 2.1 | 1.8 | |
| 29 | E | E | E | E | E | E | E | 1.9 | <fE | <fE | 3.5 | <fE | 3.8 | 3.5 | 3.4 | 2.4 | 2.1 | C | E | 3.8 | 2.5 | 3.7 | 2.4 | 4.7 | |
| 30 | 2.2 | 2.2 | 1.6 | 1.1 | 1.9 | 1.3 | 2.0 | 2.3 | 2.3 | <fE | <fE | 4.0 | 5.9 | 5.5 | 4.3 | B | 6.0 | 6.2 | 6.7 | 6.4 | 3.8 | 2.6 | 2.2 | 2.3 | |
| 31 | 1.9 | 1.6 | E | E | E | E | E | E | BK | BK | B | B | B | B | B | B | B | 1.8 | 2.1 | 2.2 | 1.7 | 2.0 | 2.3 | 2.0 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | E | E | 1.3 | E | E | E | E | E | <fE | 2.4 | 3.4 | 3.1 | 3.6 | 3.5 | 3.2 | 2.5 | 1.9 | 1.8 | 2.0 | 2.0 | 1.7 | 1.9 | 1.7 | E | |
| Count | 3 | 1 | 3 | 1 | 2 | 9 | 2 | 8 | 2 | 9 | 2 | 4 | 2 | 5 | 2 | 2 | 2 | 4 | 2 | 9 | 3 | 0 | 1 | 3 | 1 |

fEs

Swamp 1.0 Mc to 15.0 Mc in 1.5 min

Manual Automatic

Lat. 37° 57.0 N
Long. 139° 15.9 E

Shibata

IONOSPHERIC DATA

Dec. 1946

(M3000)F2

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|--------------------|--------------------|--------------------|--------------------|-----|--------------------|-----|-----|--------------------|--------------------|------------------|--------------------|--------------------|--------------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------|-----|-----|-----|----|
| 1 | 3.0 | 3.3 | 3.1 | 3.0 | 2.9 | 3.1 | 3.3 | 3.5 | (3.6) | 3.5 | 3.3 | 3.4 | 3.3 | 3.3 | 3.4 | 3.4 | 3.8 | 3.4 | 3.4 | J | (3.0) | J | J | J | |
| 2 | A | 2.8 | 2.9 | J | 2.9 | 2.7 | 3.1 | 3.7 | 3.6 | 3.4 | 3.4 | 3.6 | 3.5 | 3.4 | 3.5 | 2.7 | 2.8 | 2.8 | 3.2 | A | J | 3.1 | 3.2 | 2.8 | |
| 3 | 2.9 | 2.8 | 2.8 | 2.8 | 2.8 | 3.0 | 2.9 | C | C | C | 3.5 | 3.3 | 3.4 | 3.2 | 3.4 | 3.5 | 3.6 | 3.7 | 3.5 | 3.9 | 3.2 | 3.5 | 2.9 | 3.1 | |
| 4 | 3.0 | 3.2 | 2.9 | S | 3.0 | 3.1 | 3.5 | 3.7 | 3.6 | 3.6 | 3.9 | 3.5 | 3.4 | 3.2 | 3.3 | 3.8 | 3.7 | 3.7 | 3.2 | J | 3.4 | 3.4 | 3.4 | 2.7 | |
| 5 | 2.8 | 2.8 | 2.9 | 3.2 | 2.3 | (2.9) ^B | 3.0 | 3.6 | 3.9 | 3.7 | 3.5 | 3.8 | 3.7 | 3.4 | 3.5 | 3.6 | 4.1 | 3.7 | 3.5 | 3.5 | 3.7 | 3.4 | 3.3 | 3.0 | |
| 6 | 3.2 | 3.2 | 3.3 | 2.9 | 2.9 | 3.2 | J | 3.8 | C | C | C | C | C | C | C | C | 3.8 | 3.6 | 3.6 | 3.4 | 3.4 | 3.2 | 3.0 | 3.1 | |
| 7 | 3.1 | 2.9 | 3.3 | 3.5 | 3.6 | 3.1 | 3.4 | 4.0 | 4.1 | (3.9) ^F | 3.7 | 3.5 | 3.6 | 3.6 | 3.6 | 3.7 | 3.7 | 3.4 | 3.7 | 3.6 | 3.3 | 3.3 | 2.9 | 3.0 | |
| 8 | 3.1 | 3.2 | 2.9 | 2.9 | 2.8 | 2.9 | 3.5 | 3.6 | 3.8 | 3.6 | 3.6 | 3.4 | 3.4 | 3.3 | 3.6 | 3.9 | 3.8 | 3.8 | J | 3.7 | 3.6 | 3.5 | 3.0 | 3.0 | |
| 9 | 3.3 | 3.1 | 2.8 | 3.1 | 2.9 | 3.1 | 3.0 | 3.6 | 3.7 | 3.9 | 3.7 | 3.5 | 3.3 | 3.4 | 3.7 | 3.7 | 3.3 | 3.3 | 3.7 | 3.4 | 3.4 | 3.2 | 3.1 | 3.1 | |
| 10 | 3.2 | 3.4 | 3.5 | 3.1 | 3.4 | 3.5 | 3.5 | 3.6 | 3.7 | 3.9 | 3.3 ^H | 3.3 | 3.5 | 3.4 | 3.3 | 3.3 | 3.3 | J | 3.3 | 3.3 | 3.3 | C | C | C | |
| 11 | S | S | 2.9 | 2.8 | S | J | 3.5 | 3.4 | 3.5 | 3.4 | 3.6 | 3.3 | 3.2 | 3.4 | 3.4 | 3.4 | 3.3 | 3.5 | 3.8 | J | J | 3.1 | 3.2 | 3.1 | |
| 12 | 2.9 | 2.9 | 2.7 | 2.6 | 2.9 | C | C | 3.4 | 3.8 | 3.4 | 3.3 | 3.3 | 3.3 | 3.1 | 3.1 | 3.2 | 3.6 | 3.2 | 3.3 | J | J | 3.0 | 2.8 | 2.7 | |
| 13 | J | 3.1 | 2.8 | 2.7 | 2.7 | 2.7 | 3.1 | 3.3 | 3.8 | C | C | C | C | C | C | C | C | 3.4 | 3.5 | 3.3 | 3.3 | 3.3 | 2.8 | 3.3 | |
| 14 | 3.0 | 3.0 | 2.9 | 3.0 | 3.2 | C | C | C | C | C | B | 3.3 | 3.4 | 3.5 | 3.6 | 3.5 | 3.7 | 3.6 | 3.6 | J | 3.6 | 3.5 | 2.9 | 3.5 | |
| 15 | 3.4 | 3.2 | 2.9 | 3.2 | 3.3 | (3.0) ^S | 3.7 | 3.7 | 4.0 | 3.7 | 3.7 | 3.6 | 3.7 | 3.7 | 3.7 | 3.6 | 3.5 | 3.3 ^H | 3.5 | 3.7 | J | 3.2 | J | 2.9 | |
| 16 | 3.1 | 3.1 | (3.1) ^C | 3.2 | 2.7 | 2.8 | 3.2 | 3.7 | 3.7 | 3.7 | 3.4 | 3.5 | 3.2 | 3.5 | 3.2 | (3.2) ^B | 3.4 | 3.5 | 3.4 | 3.3 | J | 3.5 | 3.0 | 2.9 | |
| 17 | 2.8 | 2.8 | 3.2 | 2.9 | 2.9 | 3.1 | 3.2 | 3.5 | 3.7 | 3.6 | 3.4 | 3.5 | 3.4 | 3.4 | 3.3 | 3.7 | 3.3 | 3.5 | 3.0 | 3.5 | S | 3.4 | 3.2 | 2.9 | |
| 18 | 3.4 | 3.3 | C | C | C | C | C | C | C | C | 3.7 | 3.6 | 3.6 | J | (3.4) | 3.6 | 3.7 | 3.7 | 3.8 | J | 3.7 | 3.7 | J | J | |
| 19 | 2.9 | 3.0 | 2.8 | 2.9 | 3.6 | 3.1 | 3.0 | 3.3 | 3.7 | (3.7) ^S | 3.8 | 3.7 | C | C | C | C | 3.6 | 3.1 | 3.2 | 3.2 | J | S | J | J | |
| 20 | S | S | S | J | J | (3.2) ^H | 2.8 | 3.4 | 3.5 | C | C | C | C | C | C | C | (3.7) ^S | 3.6 | 3.4 | 3.6 | 3.7 | 3.0 | 2.6 | 2.8 | |
| 21 | 2.7 | 2.8 | 2.6 | 2.6 | 3.0 | S | 2.8 | C | C | C | C | C | C | C | C | C | C | C | C | 3.2 | 2.7 | 3.0 | 3.1 | | |
| 22 | 2.9 | 2.8 | 2.7 | (2.7) ^S | 3.1 | 3.1 | 3.1 | 3.1 | (3.4) ^B | 3.5 | 3.5 | 3.5 | 3.3 | 3.1 | 3.3 | 3.4 | 3.4 | 3.5 | 3.3 | 3.5 | 3.6 | 3.2 | J | 3.0 | |
| 23 | (2.9) ^B | (3.0) ^S | 2.9 | 2.9 | 2.8 | 2.9 | 3.4 | 3.3 | 3.5 | 3.6 | 3.3 | 3.6 | 3.5 | 3.2 | 3.4 | 3.5 | 3.5 | 4.0 | J | (3.2) ^S | J | 3.6 | 3.3 | 2.8 | |
| 24 | 3.1 | 3.1 | 3.0 | 3.2 | 3.6 | 2.9 | 3.1 | 3.3 | (3.7) ^S | 3.5 | 3.4 | 3.4 | 3.2 | 3.4 | 3.4 ^H | J | 3.4 | (3.3) ^B | 3.3 | 3.5 | 3.3 | 3.6 | 3.4 | 3.0 | |
| 25 | 2.8 | 2.9 | 2.9 | 3.2 | 3.4 | 3.5 | 3.1 | 3.2 | 3.5 | 3.6 | 3.5 | (3.4) ^S | (3.1) ^S | 3.3 | 3.6 | 3.5 | 3.6 | 3.1 | (3.1) ^C | 3.2 | 3.4 | 3.5 | 2.8 | J | |
| 26 | J | 2.8 | 3.1 | 3.1 | 3.1 | 2.8 | 2.9 | 3.1 | 3.2 | 3.1 | 3.1 ^H | 3.5 | 3.3 | (3.3) ^S | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.2 | 3.5 | J | |
| 27 | 2.8 | 2.8 | S | 2.8 | 2.8 | 2.5 | 3.1 | 3.9 | 3.6 | C | C | C | C | C | C | C | C | C | 3.2 | 3.7 | S | AF | 3.0 | 2.7 | |
| 28 | 2.8 | 2.8 | 2.8 | 2.7 | 3.0 | 2.8 | 2.9 | 3.3 | J | C | C | 3.6 | J | (3.5) ^S | 3.4 | 3.7 | 3.6 | 3.4 | 3.5 | 3.6 | 3.7 | 3.2 | 3.3 | 3.0 | |
| 29 | 2.9 | 3.1 | 3.0 | 3.0 | 2.8 | 3.1 | 3.4 | 3.4 | 3.7 | 3.7 | 3.5 | 3.3 | 3.3 | 3.2 | 3.1 | (3.1) ^S | 3.6 | 3.4 | 3.3 | 2.8 ^F | 3.0 | S | AS | AS | |
| 30 | AS | A | 3.2 | 3.0 | 2.9 | J | 3.0 | 3.6 | 3.9 | 3.6 | 3.7 | 4.0 | 3.4 | 3.6 | 3.3 | 3.7 | 3.6 | A | J | J | J | A | 2.9 | 2.8 | |
| 31 | 2.8 | 2.8 | 2.7 | 2.9 | 3.0 | 2.9 | 3.4 | 3.3 | 3.7 | 3.6 | 3.5 | (3.5) ^S | 3.2 | 3.4 | 3.4 | 3.6 | 3.7 | 3.7 | 3.3 | J | 3.5 | 3.3 | 3.3 | J | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 2.9 | 3.0 | 2.9 | 2.9 | 3.0 | 3.0 | 3.1 | 3.5 | 3.7 | 3.6 | 3.5 | 3.5 | 3.4 | 3.4 | 3.4 | 3.5 | 3.6 | 3.5 | 3.4 | 3.4 | 3.4 | 3.3 | 3.0 | 3.0 | |
| Count | 25 | 28 | 28 | 27 | 28 | 25 | 27 | 27 | 25 | 22 | 24 | 26 | 24 | 24 | 25 | 24 | 27 | 29 | 27 | 22 | 20 | 24 | 24 | 22 | 22 |

(M3000)F2

Sweep 1.0 Mc to 15.0 Mc in 15 min

Manual Automatic

IONOSPHERIC DATA

Lat. 37° 57.0' N
Long. 139° 15.8' E

Shibata

Dec. 1946

fminF

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 1 | 1.3 | 1.4 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.9 | A | 3.1 | 3.4 | 3.5 | 3.5 | 3.5 | 3.2 | 3.1 | A | 2.0 | 1.3 | 1.8 | 1.5 | 1.7 | 3.4 | 3.1 | |
| 2 | A | 1.6 | 1.6 | E | E | 1.3 | 1.6 | 1.8 | A | 3.0 | 3.4 | 3.5 | 3.6 | 4.0 | 3.2 | 2.2 | 1.7 | 2.8 | 1.8 | 1.8 | 3.2 | 1.3 | 1.3 | 1.3 | |
| 3 | 1.2 | 1.1 | E | 1.2 | E | E | 1.4 | 1.9 | C | C | 3.6 | 3.8 | 3.5 | 3.4 | 3.1 | 3.2 | 2.3 | 1.5 | 1.5 | 1.3 | 1.2 | 1.4 | 1.2 | 1.2 | |
| 4 | 1.1 | 1.2 | 1.3 | 1.2 | 1.2 | 1.2 | 1.4 | 1.4 | 1.5 | 3.6 | 3.0 | 3.4 | 3.6 | 3.4 | 3.1 | 2.6 | 2.6 | 3.4 | 2.0 | 1.6 | 1.7 | 1.5 | 1.4 | 1.3 | |
| 5 | 1.3 | 1.2 | 1.2 | 1.2 | 1.1 | 1.4 | 1.2 | 2.1 | 2.9 | 3.2 | 3.5 | 3.4 | 3.6 | 3.6 | 3.2 | 2.9 | 1.9 | 1.7 | 1.5 | 1.4 | 1.4 | 1.3 | 1.3 | 1.2 | |
| 6 | 1.2 | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.7 | 2.6 | C | C | C | C | C | C | C | 3.0 | 1.5 | 1.5 | 1.4 | 1.5 | 1.2 | 1.4 | 1.2 | |
| 7 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.9 | 2.7 | 3.1 | 3.3 | 3.6 | 3.6 | 3.8 | 3.0 | 2.7 | 3.4 | 1.3 | 1.2 | 1.2 | 1.9 | 1.2 | 1.6 | 1.5 | |
| 8 | 1.2 | 1.2 | 1.2 | E | E | E | 1.3 | 2.0 | 2.6 | 3.4 | 3.6 | 3.6 | 3.6 | 3.6 | 3.2 | 3.0 | 2.6 | 1.7 | 1.4 | 1.6 | 1.5 | 1.6 | 1.5 | 1.5 | |
| 9 | 1.5 | 1.2 | 1.2 | 1.2 | 1.1 | 1.2 | 1.2 | 2.8 | 2.4 | 3.3 | 3.4 | 3.4 | 4.4 | 3.4 | 3.3 | 2.9 | 4.0 | 1.8 | 1.5 | 1.5 | 1.5 | 1.5 | 1.6 | E | |
| 10 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.3 | 1.2 | 2.7 | 2.5 | 3.2 | 3.6 | 3.8 | 3.7 | 3.6 | 3.4 | 3.4 | 2.5 | 1.2 | 1.5 | 1.7 | 1.6 | 1.7 | 1.4 | 1.2 | |
| 11 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | E | 1.2 | 1.4 | 2.9 | 3.2 | 3.8 | 3.8 | 3.8 | 3.5 | 3.2 | 3.0 | 2.6 | 1.2 | 1.7 | 1.9 | 2.7 | 1.6 | 1.5 | 1.3 | |
| 12 | 1.4 | 1.4 | 1.2 | 1.2 | 1.3 | 1.2 | C | 2.4 | 3.2 | 3.2 | 3.6 | 3.6 | 3.6 | 3.5 | 3.1 | 2.8 | 2.4 | 1.6 | 1.6 | 1.9 | 1.6 | 1.4 | 1.5 | 1.5 | |
| 13 | 1.2 | 1.2 | 1.1 | 1.2 | 1.2 | 1.4 | 1.3 | 2.0 | C | C | C | C | C | C | C | C | C | 1.6 | 1.5 | 1.4 | 1.2 | 1.1 | 1.1 | 1.1 | |
| 14 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | C | C | C | C | C | 3.4 | 3.4 | 3.5 | 3.6 | 3.1 | 3.0 | 2.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.3 | 1.5 | |
| 15 | 1.3 | 1.2 | 1.4 | 1.2 | 1.2 | 1.2 | 1.2 | 1.4 | 2.4 | 3.0 | 3.7 | 3.7 | 3.7 | 3.7 | 3.1 | 3.2 | 3.1 | 1.7 | 1.3 | 1.7 | 1.4 | 1.4 | 1.4 | 1.4 | |
| 16 | 1.2 | 1.2 | C | 1.1 | 1.2 | 1.2 | 1.2 | 1.7 | 3.0 | 3.1 | 3.7 | 4.0 | 3.9 | 3.5 | 3.2 | 3.0 | 2.1 | 1.3 | 1.4 | 1.3 | 1.4 | 1.4 | 1.5 | 1.4 | |
| 17 | 1.4 | 1.4 | 1.1 | E | E | E | 1.2 | 1.8 | 3.0 | 3.5 | 3.7 | 3.7 | 3.8 | 3.8 | 3.3 | 3.0 | 1.9 | 1.2 | 1.1 | 1.2 | 1.2 | 1.4 | 1.2 | 1.4 | |
| 18 | 1.2 | E | C | C | C | C | C | C | C | C | 3.5 | 3.8 | 4.1 | 3.7 | 4.9 | 3.2 | 3.1 | 1.3 | 1.4 | 1.2 | 1.3 | 1.2 | 1.5 | 1.3 | |
| 19 | 1.3 | 1.2 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 | 1.7 | 2.6 | 3.0 | 3.5 | 3.8 | C | C | C | C | 2.8 | 1.7 | 1.6 | 1.5 | 1.6 | 1.9 | 1.6 | 1.6 | |
| 20 | 1.2 | 1.5 | 1.2 | 1.2 | 1.2 | 1.6 | 1.5 | 1.6 | 2.9 | C | C | C | C | C | C | C | 2.4 | 1.2 | 1.5 | 1.2 | 1.3 | 1.7 | 1.8 | 1.6 | |
| 21 | 1.8 | 1.4 | 1.3 | 1.3 | 1.2 | 1.2 | 1.2 | 1.8 | 2.8 | 3.0 | 3.5 | 3.7 | 4.2 | 3.7 | 3.5 | 2.8 | 2.8 | 2.8 | 1.9 | 1.5 | 1.5 | 1.3 | 1.5 | 1.4 | |
| 22 | 1.5 | 1.2 | 1.3 | 1.3 | 1.2 | 1.2 | 1.2 | 1.9 | 2.8 | 3.2 | 3.4 | 3.7 | 3.6 | 3.5 | 4.6 | 2.9 | 2.8 | 1.7 | 1.4 | 1.5 | 1.3 | 1.3 | 1.5 | 1.4 | |
| 23 | 1.5 | 1.5 | 1.2 | 1.2 | 1.3 | 1.3 | 1.2 | 1.9 | 2.9 | 3.0 | 3.6 | 3.5 | 3.5 | 3.6 | 3.6 | 3.0 | 2.9 | 1.5 | 1.5 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | |
| 24 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.5 | 2.5 | 3.0 | 3.0 | 3.5 | 3.7 | 3.5 | 3.4 | 3.2 | 2.8 | 1.4 | 1.4 | 1.2 | 1.3 | 1.3 | 1.2 | 1.5 | |
| 25 | 1.4 | 1.4 | 2.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.7 | 2.7 | 3.0 | 3.4 | 3.5 | 3.6 | 3.4 | 3.1 | 3.2 | 2.9 | 1.2 | C | 1.4 | 1.3 | 1.7 | 1.3 | 1.2 | |
| 26 | 1.2 | 1.2 | 1.2 | 1.1 | 1.4 | 1.1 | 1.4 | 1.5 | 2.8 | 3.0 | 3.2 | 3.7 | 3.5 | 3.7 | 3.9 | 2.9 | 3.0 | 1.6 | 1.5 | 1.3 | 1.5 | 1.4 | 1.6 | 1.5 | |
| 27 | 1.4 | 1.4 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 | 1.9 | 2.8 | C | C | C | C | C | C | C | C | 1.6 | 1.7 | 1.8 | 1.5 | F | 2.0 | 1.5 | |
| 28 | 1.5 | 1.3 | 1.1 | 1.4 | 1.2 | 1.5 | 1.3 | 1.4 | 2.8 | C | C | 3.6 | 3.8 | 3.8 | 3.5 | 3.1 | 2.9 | 1.3 | 2.1 | 3.6 | 1.5 | 1.5 | 1.5 | 1.5 | |
| 29 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.6 | 2.9 | 3.0 | 3.6 | 4.3 | 4.3 | 3.8 | 3.7 | 3.2 | 2.8 | 1.3 | 1.2 | F | 1.5 | A | A | A | |
| 30 | A | A | 1.3 | 1.1 | E | E | 1.2 | 1.6 | 2.9 | 3.2 | 3.8 | 3.8 | 2.8 | 4.4 | 3.8 | 4.3 | 5.6 | A | 4.5 | 3.8 | 3.4 | A | 1.8 | 1.2 | |
| 31 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.1 | 1.2 | 1.4 | 3.6 | 3.8 | 4.1 | 4.7 | 4.8 | 4.0 | 4.1 | 3.8 | 3.4 | 1.5 | 1.5 | 1.7 | 1.5 | 1.2 | 1.5 | 1.4 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.8 | 2.8 | 3.1 | 3.5 | 3.7 | 3.6 | 3.6 | 3.3 | 3.0 | 2.8 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.5 | 1.4 | |
| Count | 2.9 | 3.0 | 2.9 | 3.0 | 3.0 | 2.9 | 2.8 | 2.9 | 2.5 | 2.3 | 2.6 | 2.7 | 2.6 | 2.6 | 2.6 | 2.6 | 2.8 | 3.0 | 3.0 | 3.0 | 3.1 | 2.8 | 3.0 | 3.0 | |

fminF

Swing 1.0 Mc to 1.5.0 Mc in 1.5 min

Manual Automatic

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

Lat. 37° 57.0' N
Long. 139° 15.8' E

Shibata

IONOSPHERIC DATA

fminE

135° E Mean Time

Dec. 1946

| 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 | 1.7 | 1.2 | 1.8 | 1.2 | 1.2 | 1.2 | E | 1.4 | 1.2 | 1.4 | 1.4 | 1.3 | 1.3 | 1.3 | 1.5 | 1.3 | 1.2 | 1.1 | 1.7 | 1.5 | 1.6 | 1.5 | 1.5 | 1.4 | |
| 2 | 1.3 | E | 1.2 | E | E | 1.3 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.1 | 1.8 | 1.7 | 1.4 | 1.4 | 1.2 | 1.2 | 1.2 | 1.4 | 1.6 | 1.9 | 1.3 | |
| 3 | 1.7 | E | 1.1 | 1.6 | E | 1.2 | 1.3 | C | C | C | 1.4 | 1.6 | 1.5 | 1.7 | 1.5 | 1.5 | 1.4 | 1.4 | 1.2 | 1.7 | 1.7 | 1.8 | E | E | |
| 4 | E | 1.2 | 1.7 | E | E | 1.8 | 1.8 | E | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 | 1.5 | 1.4 | 1.5 | 1.4 | 1.4 | 1.5 | 1.6 | 1.4 | E | E | E | |
| 5 | 1.6 | E | 1.5 | 1.6 | 1.2 | E | E | 1.4 | 1.1 | 1.2 | 1.3 | 1.2 | 1.4 | 1.3 | 1.2 | 1.2 | 1.3 | 1.4 | 1.6 | E | E | E | 1.8 | E | |
| 6 | E | E | E | E | 1.7 | E | E | 1.5 | 1.5 | C | C | C | C | C | C | C | 1.2 | E | E | 1.2 | 1.2 | 1.7 | 1.4 | E | |
| 7 | E | E | E | E | E | E | 1.8 | 1.3 | 1.5 | 1.7 | 1.7 | 1.7 | 1.7 | 2.7 | 1.7 | 1.4 | 1.6 | 1.3 | 1.2 | 1.3 | E | 1.2 | 1.5 | 1.5 | |
| 8 | 1.8 | E | E | E | E | E | E | 1.2 | 1.5 | 2.1 | B | B | B | B | 3.0 | B | 1.9 | 1.3 | 1.3 | 1.3 | 1.5 | 1.4 | E | E | |
| 9 | E | 1.2 | 1.2 | 1.7 | E | E | E | 1.2 | 1.2 | 1.5 | 1.5 | 1.4 | 1.4 | 1.5 | 1.5 | 1.3 | 1.5 | E | 1.2 | 1.2 | 1.3 | 1.5 | 1.8 | E | |
| 10 | 1.8 | E | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.5 | 1.6 | 1.8 | 1.5 | 2.1 | 1.8 | 2.0 | 1.7 | 1.5 | 1.4 | 1.2 | 1.2 | E | E | 1.5 | E | E | |
| 11 | 1.2 | E | E | E | E | E | E | 1.4 | 1.2 | 1.5 | 2.9 | 2.5 | B | 1.8 | 1.4 | 1.2 | 1.3 | 1.2 | 1.3 | 1.3 | 1.5 | 1.2 | E | E | |
| 12 | E | E | E | E | E | E | C | 1.4 | 1.3 | 1.4 | 1.6 | 1.7 | 1.6 | 2.4 | 1.4 | 1.5 | 1.3 | 1.1 | 1.5 | 1.3 | 1.4 | 1.4 | 1.5 | E | |
| 13 | 1.8 | E | E | E | E | E | E | 1.5 | C | C | C | C | C | C | C | C | C | 1.4 | E | E | E | E | E | 1.1 | |
| 14 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | C | C | C | C | C | 1.4 | 1.4 | 1.5 | 3.0 | 1.5 | 1.5 | 1.8 | E | E | E | E | E | 1.6 | E | |
| 15 | E | E | E | E | 1.2 | 1.2 | E | 1.4 | 1.4 | 1.2 | 2.9 | 1.4 | 1.7 | 1.6 | 1.5 | 1.5 | 1.2 | 1.2 | E | 1.3 | E | E | E | E | |
| 16 | E | E | C | E | E | E | E | 1.5 | 1.4 | 1.3 | 1.5 | 1.3 | 1.4 | 3.1 | 1.6 | 1.4 | 1.5 | E | E | E | E | E | E | E | |
| 17 | E | E | E | E | E | 1.1 | E | 1.4 | 1.6 | 2.9 | 2.0 | 1.4 | 1.5 | 2.2 | 1.8 | 1.6 | 1.3 | E | E | 1.2 | 1.6 | E | E | E | |
| 18 | E | E | C | C | C | C | C | C | C | C | 2.9 | 1.4 | 3.0 | 3.2 | 2.8 | B | 1.4 | E | E | E | E | E | E | E | |
| 19 | E | E | E | E | E | E | E | 1.2 | 1.2 | 1.6 | 1.6 | 1.7 | C | C | C | C | 1.3 | 1.5 | E | E | 1.6 | 1.6 | 1.7 | 1.6 | |
| 20 | E | E | E | E | 1.2 | E | E | 1.9 | E | 1.5 | C | C | C | C | C | C | 1.4 | E | E | E | 1.2 | 1.4 | E | 1.2 | |
| 21 | 1.2 | E | 1.9 | 1.5 | E | E | E | 1.2 | 1.2 | 1.5 | 1.6 | 2.9 | 2.3 | 3.0 | 2.1 | 1.5 | 1.5 | 1.5 | 1.2 | E | 1.7 | E | E | E | |
| 22 | 1.2 | 1.2 | 1.5 | E | E | E | E | 1.2 | 1.2 | 1.5 | 1.7 | 2.8 | 2.4 | 1.6 | B | 1.5 | 1.3 | 1.2 | E | E | 1.5 | E | E | E | |
| 23 | E | E | E | E | 1.8 | E | E | 1.2 | 1.4 | 1.5 | 2.9 | 3.0 | 2.8 | 2.0 | 1.8 | 1.5 | 1.5 | 1.4 | E | E | E | E | E | E | |
| 24 | 1.6 | 1.2 | 1.2 | E | E | E | E | E | 1.5 | 1.8 | 1.5 | 2.1 | 2.9 | 2.3 | 1.5 | 3.0 | 1.6 | E | E | E | E | E | E | E | |
| 25 | 1.2 | 1.3 | 1.2 | 1.2 | 1.2 | E | E | 1.4 | 1.3 | 1.4 | 1.5 | 2.0 | 3.0 | 2.8 | 1.3 | 1.5 | 1.4 | 1.1 | C | 1.7 | 1.7 | 2.1 | 1.6 | 1.9 | |
| 26 | 1.6 | E | E | E | E | E | 1.7 | 1.7 | 1.3 | 1.2 | 1.7 | 1.5 | 1.6 | 1.5 | 1.6 | 1.3 | 1.3 | 1.4 | E | E | E | E | E | E | |
| 27 | E | E | E | E | E | E | E | E | 1.5 | 1.3 | C | C | C | C | C | C | C | 1.2 | 1.3 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | |
| 28 | 1.5 | 1.2 | 1.1 | 1.4 | E | E | E | 1.2 | 1.5 | C | C | C | 2.9 | 1.6 | 1.4 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.5 | 1.5 | 1.6 | |
| 29 | E | E | E | E | E | E | E | 1.2 | 1.5 | 1.5 | 3.4 | 3.3 | 3.3 | 3.0 | 3.0 | 1.4 | 1.5 | E | E | 1.2 | 1.2 | 1.2 | 1.4 | 1.4 | |
| 30 | 1.3 | 1.3 | E | E | E | E | E | 1.7 | 1.5 | 1.4 | 1.7 | 1.7 | 2.0 | 3.3 | 3.0 | 2.9 | 1.8 | 1.4 | 1.5 | 1.3 | 1.3 | 1.2 | 1.5 | 1.2 | |
| 31 | 1.8 | 1.2 | E | E | E | E | E | E | B | B | B | B | B | B | B | B | B | 1.2 | 1.1 | 1.5 | 1.4 | 1.7 | 1.5 | 1.5 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 1.2 | E | E | E | E | E | 1.4 | 1.4 | 1.4 | 1.5 | 1.6 | 1.7 | 1.7 | 2.0 | 1.6 | 1.5 | 1.4 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | E | |
| Count | 31 | 31 | 29 | 30 | 30 | 29 | 28 | 29 | 26 | 22 | 24 | 25 | 23 | 24 | 24 | 23 | 28 | 31 | 30 | 31 | 31 | 31 | 31 | 31 | |

fminE

Sweep 1.0 Mc to 15.0 Mc in 1.5 min

Manual Automatic

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

IONOSPHERIC DATA

Kokubunji Tokyo

Lat. 35° 42.4' N
Long. 139° 28.3' E

Jan. 1946

foF2

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|--------|--------|--------|-------|--------|--------|--------|--------|-----|-------|--------|--------|--------|-------|-------|-----|-----|-------|--------|--------|--------|-------|--------|-------|-----|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | 6.8 | 8.1 | A | 9.0 | 8.2 | 6.4 | 5.8 | 5.8 | 4.3 | {3.7}C | 3.1 | 3.2 | 2.3 | 2.7 | 3.0 | |
| 3 | 3.2J | 3.7H | (4.3)F | 3.1F | 3.3JF | 3.1 | 2.5 | 4.9 | 6.1 | 7.0 | 6.8 | 6.4 | 7.1 | 7.9 | 6.7 | 7.8 | 6.3 | | | | | | | | |
| 4 | A | 3.1 | 2.6JF | 2.6JF | 2.8JF | 1.8JF | 1.9J | 4.5 | 6.5 | (6.3) | 8.0 | 8.3 | (7.1)C | 5.9 | 5.6 | 6.7 | 5.5 | 4.1 | 3.6 | 3.1F | (3.3)F | 3.0F | A | A | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | 7.0 | 7.8 | 7.4 | 7.8 | 7.0 | 5.8 | 6.8 | 5.3 | 4.2 | 2.9 | 2.5 | 3.1 | 3.3 | (3.2)F | 3.3 | |
| 8 | 2.9F | 3.0F | 3.1F | 3.1F | 2.8JF | 2.4JF | 2.5 | 4.4 | 4.9 | 6.9 | 7.0 | 8.5 | 8.3 | (7.2) | (8.3) | 5.8 | 5.4 | 3.4J | 4.7 | 4.6 | 2.5 | 2.5 | 2.2 | 3.5F | |
| 9 | 3.0JF | CF | CF | CF | CF | CF | 3.5F | 4.8 | 4.8 | 6.2J | 6.7 | 7.0 | 7.4 | 6.6 | 7.1 | 6.3 | 5.7 | 4.2J | 3.5 | 3.0 | 2.7 | 3.0 | 2.6 | 2.6 | |
| 10 | 2.6J | 2.8 | 2.8 | 2.8 | 2.6 | 2.4 | 2.5 | 3.7 | 5.1 | 5.7 | 10.0K | 6.7K | 6.3K | 6.0 | 7.5 | 7.8 | 5.9 | 4.4 | 4.4 | 4.4 | 4.1 | 2.4 | 2.3 | 2.4 | |
| 11 | 2.7 | 2.9 | 2.9 | 2.8 | 3.0 | 2.9 | 3.6 | 5.0 | 6.5 | 6.0 | 7.8 | 7.7 | 7.5 | 6.8 | 6.2 | 6.5 | 6.0 | 5.0 | 4.6J | 4.2 | 3.7 | 2.8 | 3.0 | 3.2 | |
| 12 | 2.8 | 3.5 | 3.3 | 3.0 | 2.6 | 2.4 | 2.7 | 4.9 | 5.6 | 6.9 | 7.1 | 7.4 | 8.1 | 6.7 | 6.4 | 6.8 | 5.9 | 5.0 | 5.8 | 4.2F | 3.2J | 2.4J | 2.4JF | A | |
| 13 | 2.6JF | A | A | A | A | A | 3.0 | 2.2 | 4.7 | 5.6 | 6.5 | 7.5 | 7.3 | 6.4 | 6.6 | 5.9 | 5.6 | 4.2 | 4.4 | 3.8 | 3.5 | F | F | F | |
| 14 | 3.5F | 3.5F | 3.5F | 2.8F | 2.4F | 2.7F | 2.5 | 5.0 | 5.8 | 6.7 | 8.1 | 7.9 | 6.8 | 6.2J | 6.6 | 6.8 | 5.6 | 4.7 | 4.2 | 3.4 | 2.5J | 2.9 | 3.4F | 3.2 | |
| 15 | 3.3 | 3.4 | 3.1F | 3.4F | 3.4 | 3.4J | (3.6)F | 4.7 | 6.1 | 6.7 | 8.5 | 8.2 | 6.6 | 6.0 | (7.4) | 6.4 | 5.3 | 4.2 | (5.0) | 3.3 | 2.7 | 2.6 | 2.9 | 2.8 | |
| 16 | 3.5 | 3.9 | 3.8 | 3.0 | 2.6 | 2.5JF | 2.4 | 4.0 | 5.0 | 7.3 | (9.2) | (7.4) | 7.0 | 7.2 | 7.3 | 6.3 | 5.8 | 5.6 | 3.5 | 3.2 | 3.5J | 4.1 | 3.8 | 3.4 | |
| 17 | 3.3 | 3.6 | 3.8 | 3.6 | 2.8 | 2.4 | 2.3 | (4.6)C | 6.9 | 8.8 | 8.7 | 6.7 | 5.9 | 6.8 | 6.6 | 6.1 | 6.0 | 5.1 | (5.2) | 4.6J | 3.8 | 5.1F | (4.0)F | 3.7JF | |
| 18 | (4.4)F | 3.8 | 3.3JF | 3.1JF | (3.5)F | 3.3JF | 3.3JF | 4.8 | 4.9 | 8.2 | 8.1 | (8.5) | 6.9 | 7.8 | 7.6 | 7.5 | 6.3 | 5.2 | 3.8 | (3.9) | 3.6 | 3.2' | 2.9 | 3.2 | |
| 19 | 2.7F | 3.3 | 3.2F | 3.0 | 3.2 | 3.5 | 3.1 | 4.3 | 6.8 | 10.5 | 10.5 | 9.3 | 8.1 | 7.5 | 8.0 | 7.1 | 6.2 | 5.4 | 5.1 | 4.7 | 4.3F | 3.6 | 4.3 | 4.1F | |
| 20 | (4.2)F | (3.9)F | 3.7 | 3.9 | 3.8 | 3.8 | 3.8 | 5.6 | 6.4 | 8.2 | 8.6 | 8.5 | 7.9 | 8.0 | 7.6 | 7.3 | 6.8 | 5.8 | 5.6 | 4.3 | 3.0 | 3.1JF | 3.4JF | 3.5 | |
| 21 | 3.5JF | 3.9F | 3.8 | 3.2J | 3.0 | 3.0 | 3.1 | (6.0) | 6.2 | 7.2 | 7.3 | 9.3 | (10.3) | 9.9 | 9.0 | 8.6 | 6.1 | 4.4 | 3.5J | (3.8) | 3.7 | 2.8JF | 2.5 | 2.6 | |
| 22 | 2.9 | 3.0 | 3.0F | 3.0 | 2.8F | 3.3 | 2.7 | 4.5 | 7.6 | 9.9 | 8.1 | 9.8 | 7.8 | 7.2 | 7.7 | 8.7 | 8.1 | 5.9 | 5.2 | 4.0 | 2.6 | 2.6 | 3.1 | 3.3 | |
| 23 | 3.5 | 4.0 | 3.9 | 3.2 | 2.6 | 2.7 | 2.4 | 5.8 | 8.1 | 9.7 | 9.6 | (10.5) | 9.3 | 9.2 | 7.6 | 7.2 | 5.6 | 5.2 | 5.0 | 3.8 | 2.9 | 3.0 | 2.9 | 2.7F | |
| 24 | 2.9F | 2.9F | 2.9JF | 2.8 | 3.0 | 3.0 | 3.1 | 5.1 | 5.9 | 8.0 | (10.8) | (10.2) | 8.2 | 7.5 | 7.3 | 7.6 | 7.8 | 6.4 | 4.6 | 3.8 | 3.9 | 2.5 | 3.1JF | 2.9JF | |
| 25 | 2.6JF | 3.5 | 3.5 | 3.7 | 3.8 | 2.6 | 2.2 | 3.4 | 8.8 | 11.0D | (10.2) | 7.5 | 8.3 | 8.3 | 8.1 | 6.5 | 5.7 | 4.1 | 3.7 | 3.9 | 3.4 | 2.5 | 2.6 | 2.9 | |
| 26 | (3.2)F | 3.7F | 3.0F | 2.7 | 3.1 | 2.4 | 4.9F | 6.1 | 7.6 | 9.2 | 9.1 | 8.5 | 6.8 | 7.0 | 6.5 | 5.0 | 4.8 | 3.9 | 3.6 | 3.0 | 2.7 | C | (4.1)F | | |
| 27 | (4.0)F | (3.6)F | 3.5 | 3.1 | 3.1 | 3.1 | 2.8 | 5.1 | 8.7 | 8.7 | 9.0 | (10.3) | 9.4 | 7.5 | 6.7 | 6.5 | 5.3 | 5.3 | 4.4 | 3.3 | 3.5 | 3.6 | 3.2 | 3.1 | |
| 28 | 2.8 | 2.7 | 2.8 | 2.8 | 3.0 | 3.1 | 3.0 | 5.4J | 5.7 | 5.2 | (7.4) | 8.0 | 7.8 | 7.0 | 7.0 | 6.6 | 7.0 | 4.8 | 4.2 | 3.0 | 2.4 | 2.4 | 2.4J | 2.8 | |
| 29 | 2.7 | 3.0 | 3.1 | 3.4 | 3.7 | 2.3' | 2.5 | 5.0 | 5.6 | 6.2 | 7.2 | 6.5 | 6.6 | 6.7 | 7.1 | 5.9 | 4.7 | 4.9JF | (5.0)F | 4.1J | 3.4 | 3.1 | 3.0 | 3.5 | |
| 30 | 3.1 | 3.5 | 3.6 | 3.9 | 3.1 | 3.1 | 3.0 | (5.4)J | 6.1 | 6.1 | 7.6 | 9.5 | 8.2 | 7.6 | 7.2 | 7.1 | 6.2 | 5.2 | (4.3) | 4.3 | 3.8 | 3.3 | 3.2 | 3.0JF | |
| 31 | 3.2 | 3.5J | 3.8 | 4.2 | 4.0 | (4.2)C | 4.4 | 6.4 | 6.3 | 6.9 | 7.5 | 7.6 | 8.2 | 8.5 | 6.7 | 7.2 | 7.2 | 5.7 | 4.5 | (4.2)C | 3.7 | 2.8 | 2.9 | 3.1 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 3.1 | 3.5 | 3.5 | 3.3 | 3.0 | 3.0 | 2.7 | 4.9 | 6.1 | 7.0 | 8.1 | 7.8 | 7.8 | 7.2 | 7.1 | 6.7 | 5.9 | 5.0 | 4.3 | 3.8 | 3.4 | 2.9 | 2.6 | 2.4 | 3.2 |
| Count | 2.5 | 2.4 | 2.4 | 2.4 | 2.5 | 2.5 | 2.6 | 2.6 | 2.9 | 2.9 | 2.9 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.6 | 2.4 | 2.4 |

foF2

Sweep 2.0 Mc to 15.0 Mc in 1.5 min

Manual Automatic

K 4

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

fEs

Jan. 1946

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|--------|-----|-----|--------|-----|--|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | 4.1 | 3.8 | 10.0 | 6.7 | 4.9 | 4.3 | 4.3 | 3.5 | 3.1 | 3.9 | 2.6 | 2.2 | 2.2 | 2.4 | 2.0 | |
| 3 | E | E | E | E | E | E | E | E | 2.5 | 2.9 | 2.9 | 2.9 | 2.8 | 2.7 | 3.2 | 4.0 | 2.7 | | | | | | | | |
| 4 | | | | | | | | | | 4.1 | 3.9 | 4.1 | 8.8 | 6.4 | 5.6 | 4.5 | 4.9 | 2.4 | 3.7 | 2.2 | E | 2.5 | 4.5 | 4.5 | |
| 5 | 3.7 | 2.4 | 2.3 | 2.9 | E | E | E | E | 2.5 | 2.9 | 3.7 | 3.7 | 3.9 | 4.4 | 3.3 | 2.9 | 3.1 | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | 2.9 | 3.4 | 3.0 | 3.9 | 3.7 | 3.1 | 3.5 | 3.0 | E | 3.0 | 2.5 | E | E | 2.0 | E | |
| 8 | E | E | E | E | E | E | E | E | 2.9 | 4.1 | 4.1 | 3.9 | 3.4 | 3.2 | 3.7 | 4.0 | 2.9 | E | E | 2.4 | E | E | E | E | |
| 9 | E | E | E | E | E | E | E | E | 2.5 | 3.2 | 4.1 | 4.2 | 3.7 | 3.8 | 3.9 | 2.9 | 4.1 | E | 2.9 | 3.0 | 4.3 | E | E | 2.5 | |
| 10 | E | E | E | E | E | E | E | E | E | 3.7 | 5.1 | 3.1 | 4.1 | 3.1 | 2.8 | 2.9 | 2.9 | 3.1 | 2.3 | 2.6 | 2.3 | 2.4 | 2.1 | E | |
| 11 | E | E | E | E | E | E | E | E | 2.8 | 5.8 | 3.8 | 3.4 | 3.4 | 4.1 | 3.9 | 2.5 | 4.1 | 4.2 | 6.0 | 6.5 | 5.0 | 2.6 | 2.1 | 3.7 | |
| 12 | 2.8 | 2.7 | 2.5 | 2.3 | 2.4 | 2.9 | 2.8 | 2.3 | 2.5 | 4.6 | 4.0 | 3.9 | 2.7 | 2.9 | 2.9 | 4.1 | 4.1 | 2.3 | 3.6 | 3.2 | 2.8 | 2.3 | 2.8 | 5.3 | |
| 13 | 4.6 | 4.4 | 3.1 | 2.8 | 2.5 | 4.3 | 4.6 | 4.4 | 3.2 | 3.1 | 3.9 | 4.0 | 4.0 | 3.2 | 3.4 | 3.1 | 2.9 | 2.5 | 2.6 | 2.5 | 2.3 | 2.3 | E | E | |
| 14 | E | E | E | E | E | E | E | E | 2.4 | 4.8 | 8.6 | 4.8 | 3.0 | 3.1 | 3.7 | 4.1 | 2.9 | 3.3 | 2.9 | 3.0 | 2.7 | 2.7 | 3.1 | 3.5 | |
| 15 | 3.9 | 2.9 | 4.0 | 2.3 | 2.7 | 2.2 | 2.3 | 2.4 | 4.1 | 3.0 | 3.7 | 3.9 | 4.0 | 2.9 | 4.0 | 3.6 | 3.0 | 3.5 | 2.7 | 2.2 | 2.9 | 3.0 | 3.0 | 2.6 | |
| 16 | 2.3 | 2.7 | 2.6 | 2.4 | 2.8 | 2.7 | E | E | 4.1 | 4.1 | 3.1 | 2.9 | 2.9 | 3.1 | 3.0 | 2.8 | 2.5 | 2.6 | E | E | E | 2.1 | E | 2.4 | |
| 17 | 2.8 | 2.1 | 2.6 | E | 2.4 | 2.1 | 2.1 | E | 2.7 | 2.8 | 4.1 | 4.1 | 4.1 | 2.9 | 4.1 | 3.9 | 3.1 | 4.0 | 3.4 | 2.3 | 3.0 | 2.7 | 2.4 | 2.3 | |
| 18 | 2.4 | 2.3 | 2.7 | 2.3 | 2.9 | 2.0 | E | 4.1 | 2.5 | 3.9 | 4.0 | 4.3 | 3.9 | 3.8 | 4.1 | 4.1 | 3.0 | 3.5 | 3.3 | 3.1 | 3.0 | E | E | 2.4 | |
| 19 | 2.6 | 2.9 | 2.2 | 2.2 | 2.5 | E | E | E | 3.2 | 2.4 | 3.6 | 3.0 | 3.5 | 3.7 | 3.6 | 3.4 | 3.1 | 3.1 | 3.8 | 4.2 | 3.7 | 2.9 | 2.9 | E | |
| 20 | E | E | E | E | E | E | E | E | 2.9 | 3.2 | 4.2 | 4.6 | 4.1 | 4.1 | 3.6 | 3.1 | 3.0 | 2.0 | 2.1 | E | E | E | E | E | |
| 21 | E | E | E | E | E | E | E | E | 3.5 | 3.4 | 3.5 | 3.3 | 3.2 | 2.9 | 2.9 | 4.0 | 3.5 | 5.8 | 8.8 | 3.2 | E | 2.9 | 3.3 | 2.7 | |
| 22 | 2.4 | 2.5 | E | E | 2.3 | E | E | E | 3.9 | 4.2 | 7.0 | 7.4 | 4.1 | 4.1 | 3.5 | 4.0 | 5.5 | E | 2.5 | 3.0 | 3.1 | 3.3 | 2.7 | 2.5 | |
| 23 | 2.9 | 2.9 | 3.1 | 3.4 | 3.0 | 2.0 | E | E | 5.6 | 4.4 | 5.4 | 6.2 | 4.2 | 4.6 | 4.6 | 4.4 | 3.4 | 3.2 | 3.0 | 2.8 | 2.7 | 2.2 | 2.6 | 2.4 | |
| 24 | 3.1 | 2.7 | 2.2 | E | E | E | E | E | 2.6 | 4.4 | 3.6 | 4.4 | 3.8 | 4.8 | 6.1 | 5.3 | 2.1 | E | 2.3 | 2.5 | 4.2 | 2.7 | 4.1 | 4.8 | |
| 25 | 3.3 | 2.5 | 2.2 | E | E | 2.1 | 2.2 | 2.4 | 2.6 | 4.4 | 6.9 | 4.3 | 4.4 | 6.0 | 4.1 | 4.4 | 3.0 | 2.9 | 2.5 | 2.9 | 2.9 | 2.0 | 2.1 | 2.2 | |
| 26 | 3.3 | 3.6 | 3.2 | 2.5 | 3.1 | 2.5 | 2.4 | 2.4 | 3.7 | 3.3 | 3.9 | 3.5 | 5.0 | 5.0 | 4.8 | 4.8 | 3.5 | 3.5 | 3.4 | 3.2 | 2.6 | 2.9 | {3.8}C | 4.5 | |
| 27 | 3.9 | 3.7 | 3.0 | E | E | E | E | E | 3.5 | 3.9 | 4.0 | 3.6 | 3.7 | 4.8 | 4.3 | 4.5 | 3.2 | 3.0 | 2.9 | 2.6 | 2.3 | E | E | E | |
| 28 | E | 2.5 | 3.1 | 2.9 | 2.9 | 3.1 | E | E | 2.1 | 3.2 | 4.1 | 3.5 | 4.1 | 4.1 | 4.1 | 3.5 | 2.0 | E | E | E | E | E | E | 2.6 | |
| 29 | 2.3 | 2.2 | E | E | E | E | E | E | 2.7 | 4.1 | 3.0 | 3.4 | 4.3 | 4.2 | 4.0 | 3.5 | 4.2 | 4.3 | 4.1 | 2.9 | E | E | E | E | |
| 30 | E | E | E | E | E | E | E | E | 2.5 | 4.1 | 3.7 | 3.9 | 3.8 | 3.9 | 4.1 | 3.5 | 4.6 | 3.4 | 3.1 | 2.6 | 3.0 | E | E | E | |
| 31 | F | E | E | E | E | E | E | E | 3.4 | 3.1 | 4.1 | 3.6 | 3.7 | 4.3 | 5.5 | 3.1 | 4.1 | 2.6 | 2.6 | {2.8}C | 2.5 | E | E | E | |
| Mean | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | | | | |
| Value | 2.4 | 2.4 | 2.2 | E | 2.2 | 2.0 | 2.0 | 2.4 | 2.4 | 3.4 | 3.9 | 3.9 | 3.8 | 3.8 | 3.9 | 3.6 | 3.0 | 3.0 | 2.9 | 2.6 | 2.6 | 2.3 | 2.1 | 2.4 | |
| Count | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.3 | 2.4 | 2.3 | 2.5 | 2.8 | 2.5 | 2.8 | 2.7 | 2.6 | 2.5 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | |

fEs

Sweep 2.0 Mc to 15.0 Mc in 1.5 min

Manual Automatic

K2

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

IONOSPHERIC DATA

Jan. 1946

Kokubunji Tokyo

Lat. 35° 42.4' N
Long. 139° 28.3' E

M3000 F2

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|--------|--------|-----|--------|--------|-----|--------|-------|--------|-----|--------|-------|-------|--------|--------|-------|-----|-----|--------|--------|--------|--------|--------|--------|-----|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | C | C | C | | | | 3.6 | 3.6 | 3.8 | 3.9 | 3.9 | 3.6 | 3.8 | 3.8 | 4.1 | 3.6 | 3.8 | 4.2 | (3.9)C | 3.6 | 3.9 | 3.3 | 3.3 | 2.5 |
| 3 | | | | | | | 3.2 | 3.6 | 3.8 | 3.9 | 3.8 | 3.8 | 3.8 | 3.8 | 3.2 | 3.8 | 3.8 | | | | | | | |
| 4 | | | | | | | C | C | A | C | 3.6 | C | A | C | 3.5 | 3.8 | 3.3 | 3.5 | 3.3 | 3.2 | (2.5) | 3.0 | A | A |
| 5 | A | 3.2 | C | C | C | C | 3.6 | 3.6 | 3.8 | (3.7) | 3.8 | 3.7 | (3.8)C | 3.9 | 3.8 | 4.2 | 4.2 | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 3.0 | 2.8 | 3.7 | 3.1 | C | C | 3.6 | 4.3 | 4.3 | 3.9 | 3.8 | 3.8 | 3.8 | 4.2 | 3.6 | 3.1 | 4.3 | 4.0 | 3.8 | 3.6 | 3.5 | 3.4 | {3.1}C | 2.8 |
| 9 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 10 | (2.6)C | 2.6 | 3.1 | 3.1 | 3.3 | 3.0 | 3.7 | 3.6 | 3.8 | 3.2 | 3.3 | 3.7 | 3.7 | 3.2 | 2.2 | 3.3 | 3.2 | 3.8 | 3.8 | 2.9 | 3.3 | 3.1 | 3.1 | 2.7 |
| 11 | 2.5 | 2.7 | 2.9 | 2.6 | 2.6 | 3.0 | 3.2 | 3.2 | 3.7 | 4.1 | 3.4 | 3.9 | 3.9 | 3.7 | 3.9 | 3.9 | 3.5 | 4.2 | 3.8 | 2.8 | 3.0 | 3.7 | 3.2 | 2.9 |
| 12 | 2.8 | 2.9 | 2.7 | 3.3 | 3.0 | 3.4 | 4.1 | 4.1 | 3.6 | 3.6 | 4.1 | 4.1 | 4.3 | 4.2 | 3.6 | 3.8 | 4.1 | 3.4 | 4.0 | {4.0}C | 3.7 | 3.5 | 3.2 | 2.9 |
| 13 | C | C | C | C | C | C | C | C | 3.4 | 3.3 | 4.1 | 3.8 | 3.7 | 3.4 | 2.6 | 3.9 | 3.7 | 3.6 | 3.3 | 3.3 | C | C | C | C |
| 14 | 3.1 | 3.0 | 3.3 | 3.1 | 2.9 | 2.6 | 3.0 | 3.5 | 4.2 | 3.6 | 4.1 | 4.0 | 4.0 | {3.3}C | 3.5 | 3.8 | 4.0 | 3.4 | 3.7 | 4.0 | {3.5}C | 2.9 | 2.9 | 2.8 |
| 15 | 3.4 | 2.9 | 3.1 | 3.4 | 2.7 | {2.8}C | (3.0) | 3.8 | 4.2 | 3.8 | 4.1 | 4.0 | 4.1 | 3.6 | (2.8) | 3.9 | 4.3 | 3.8 | (3.8) | 3.3 | 3.2 | 3.6 | 2.9 | 2.9 |
| 16 | 3.0 | 2.9 | 3.1 | 3.5 | 3.3 | {3.3}C | 3.4 | 3.6 | 4.0 | 3.6 | (3.8) | (3.5) | 3.4 | 3.7 | 3.5 | 3.8 | 3.7 | 3.9 | 3.2 | 3.8 | {3.7}C | 2.7 | 3.1 | 2.7 |
| 17 | 2.8 | 2.9 | 3.1 | 3.7 | 2.6 | 2.9 | 3.0 | {3.1}C | 3.2 | 3.4 | 4.0 | 4.2 | 3.7 | 3.5 | 3.6 | 3.5 | 3.9 | 3.6 | 3.7 | 3.7 | 3.7 | 3.2 | 2.9 | 2.9 |
| 18 | C | 3.2 | 3.2 | C | C | C | C | 4.0 | 4.2 | 3.8 | 3.8 | 3.3 | 3.9 | 3.1 | 3.7 | 3.7 | 4.3 | 3.2 | 3.2 | 3.6 | (2.9) | 3.3 | 3.0 | 3.0 |
| 19 | 3.1 | 2.9 | 2.9 | 3.1 | 3.2 | 3.3 | 3.3 | 3.3 | 3.5 | 3.6 | 3.7 | 3.7 | 3.7 | 3.9 | 3.3 | 3.8 | 3.9 | 3.6 | 3.5 | 3.6 | 3.1 | 3.5 | 3.1 | 2.8 |
| 20 | C | C | 3.2 | 3.2 | 3.2 | 3.2 | 3.5 | 3.9 | 3.5 | 3.4 | 3.6 | 3.7 | 3.8 | 3.6 | 3.1 | 3.8 | 3.9 | 3.7 | 3.9 | {3.5}C | 3.1 | C | C | 3.0 |
| 21 | {2.9}C | 2.8 | 3.3 | {3.2}C | 3.0 | 3.3 | 3.6 | (3.9) | 3.9 | 3.8 | 3.5 | 3.6 | (3.4) | 3.9 | 3.8 | 3.8 | 4.0 | 3.9 | 3.9 | {3.9}C | 3.8 | {3.9}C | 4.0 | 3.1 |
| 22 | 2.9 | 3.0 | 3.0 | 3.3 | 3.2 | 3.0 | 3.2 | 3.5 | 3.8 | 4.3 | 3.8 | 3.7 | 3.6 | 3.5 | 3.7 | 3.4 | 3.7 | 3.6 | 3.4 | 3.8 | 3.2 | 2.8 | 2.7 | 3.0 |
| 23 | 2.9 | 3.4 | 3.2 | 3.4 | 2.9 | 2.8 | 2.9 | 3.6 | 3.7 | 3.6 | 3.5 | (3.2) | 3.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.7 | 3.6 | 3.7 | 3.5 | 2.9 | 2.6 | 2.7 |
| 24 | 3.3 | 2.7 | {2.9}C | 3.0 | 2.8 | 3.1 | 3.4 | 3.5 | 3.6 | 3.0 | (3.7) | (3.8) | 4.0 | 3.9 | 3.5 | 3.1 | 3.5 | 3.4 | 3.7 | 2.9 | 3.5 | 3.2 | {2.9}C | 2.8 |
| 25 | {2.9}C | 3.1 | 3.0 | 2.9 | 3.2 | 3.5 | 3.0 | 3.2 | 3.7 | {3.7}D | (3.6) | 3.9 | 3.4 | 3.8 | 3.8 | 3.7 | 3.7 | 3.6 | 3.2 | 3.5 | 3.9 | 3.2 | 3.1 | 3.2 |
| 26 | C | C | 3.0 | 3.0 | 3.3 | 3.2 | 3.3 | 3.9 | 3.8 | 3.6 | 3.8 | 4.1 | 3.6 | 3.6 | 3.6 | 3.7 | 3.4 | 4.1 | 3.1 | 3.5 | 3.3 | 3.0 | C | C |
| 27 | C | C | 3.0 | 2.9 | 3.6 | 2.8 | 4.0 | 3.5 | 3.4 | 3.5 | 3.4 | (3.7) | 3.6 | 3.7 | 3.4 | 3.5 | 3.5 | 3.6 | 3.6 | 3.2 | 3.1 | 3.4 | 3.1 | 3.5 |
| 28 | 3.2 | 3.1 | 3.0 | 3.0 | 3.2 | 3.2 | 3.7 | {4.0}C | 4.1 | 4.3 | (3.4) | 3.9 | 4.2 | 3.7 | 3.4 | 3.8 | 3.9 | 4.0 | 3.6 | 3.8 | 3.7 | 3.5 | {3.3}C | 3.2 |
| 29 | 3.0 | 2.8 | 3.1 | 3.2 | 3.7 | 2.8 | 3.2 | 4.0 | 3.8 | 3.9 | 3.7 | 4.0 | 3.8 | 3.5 | 3.8 | 4.0 | 4.3 | {3.4}C | {3.5}C | 3.2 | 2.9 | C | C | C |
| 30 | 2.8 | 2.9 | 2.9 | 2.8 | 3.2 | 2.9 | 3.0 | {3.5}C | 3.9 | 3.5 | 3.3 | 3.5 | 3.5 | 3.4 | 3.3 | 3.8 | 3.6 | 3.4 | C | C | C | C | C | C |
| 31 | C | C | C | C | C | C | C | C | C | 3.7 | 3.5 | 3.4 | 3.6 | 3.5 | 3.7 | 3.3 | 3.9 | 3.4 | 3.3 | {3.5}C | 3.5 | 3.2 | 3.0 | 3.2 |
| Mean | | | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | | | |
| Value | 2.9 | 2.9 | 3.0 | 3.1 | 3.2 | 3.1 | 3.2 | 3.6 | 3.8 | 3.6 | 3.7 | 3.8 | 3.7 | 3.7 | 3.6 | 3.8 | 3.8 | 3.7 | 3.6 | 3.5 | 3.5 | 3.2 | 3.0 | 2.9 |
| Count | 17 | 19 | 20 | 20 | 19 | 20 | 21 | 24 | 24 | 27 | 27 | 26 | 26 | 26 | 28 | 28 | 28 | 26 | 25 | 25 | 24 | 22 | 18 | 19 |

M3000 F2

Sweep 2.0 Mc to 15.0 Mc in 1.5 min

Manual Automatic

K 3

Lat. 35° 42.4' N
Long. 138° 29.3' E

IONOSPHERIC DATA

Kokubunji Tokyo

Feb. 1946

foF2

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|--------|---------|---------|-------|-------|---------|-------|--------|------|--------|---------|---------|--------|--------|-------|---------|-------|--------|------|---------|---------|-------|--------|-------|----|
| 1 | 3.0 | 3.2 | 3.4 | 3.1 | 2.9 | 2.7 | 3.0 | 6.5 | 6.2 | 6.8 | 9.0 | 9.1 | 10.0 | 8.5 | 7.9 | 7.7 | 6.9 | {5.2}C | 3.9 | 3.9 | 3.8 | 3.0 | 3.0 | 2.9 | |
| 2 | 3.1 | 3.2 | 3.5 | 3.7 | 2.6 | 2.6 | 2.9 | 6.1 | 6.4 | 7.5 | {8.6}C | 9.0 | 8.5 | 8.1 | 8.3 | 7.2 | 8.1 | 5.6 | 4.3 | 4.6 | 4.3 | 3.9 | {3.9}C | 3.9 | |
| 3 | {3.9}C | 4.0 | 4.0 | 3.6 | 3.1 | 3.4 | 3.7 | 6.5 | 7.2 | 7.6 | 8.3 | 9.9 | 8.6 | B | B | 7.5 | 7.5 | 6.4 | 5.0 | 5.3 | 4.5 | 3.4 | 3.5 | 3.5 | |
| 4 | 3.4 | 3.6 | 3.5 | 3.4 | 3.5 | 3.0 | 2.8 | 5.9 | 8.3 | 9.2 | {11.0}D | {10.4} | 8.9 | 9.1 | 8.4 | 8.4 | 7.7 | 7.0 | 5.5 | 4.5 | 3.4 | 3.0 | 3.1 | 3.1 | |
| 5 | 3.3 | 3.3 | 4.0 | 3.8 | 2.8 | 2.8 | 4.4 | 7.2 | 7.5 | 8.3 | 9.3 | {10.3}B | 10.5 | 9.3 | 8.9 | 8.7 | 8.2 | 7.8 | 5.6 | 4.2 | 4.5 | 3.9 | 4.0 | 3.8 | |
| 6 | 3.6 | 3.7 | 3.6 | 3.8 | 3.2 | 3.1 | {5.0} | 7.8 | 7.1 | 8.2 | 9.4 | 11.0 | 9.8 | 9.8 | 9.8 | 9.4 | 8.3 | 7.5 | 5.9 | {5.5} | 3.7 | 2.5 | 2.7 | 2.8 | |
| 7 | 2.6 | 3.1 | 3.4 | 4.1 | 3.4 | 2.4 | 2.7 | 7.4 | 8.2 | 9.2 | 9.1 | B | {11.6} | B | 9.4 | 9.4 | 8.9 | 8.1 | 6.9 | 5.4 | {7.2}JK | FK | FK | FK | |
| 8 | FK | {4.8}JK | {3.3}JK | FK | FK | 4.2 | 2.9 | 5.0 | 7.3 | 6.8 | 10.5 | 7.3 | 9.6 | 8.3 | 9.2 | 8.2 | 8.7 | 8.5 | 5.4 | {6.0}JK | 6.2K | 5.3K | {4.6} | 3.5 | |
| 9 | 4.4 | 3.9 | 3.8 | 4.0 | 3.6 | 3.9 | 3.8 | 7.0 | 9.0 | {9.8} | 10.0K | {12.6}K | 10.5K | 10.5B | 9.2 | 9.1 | 9.6 | 8.5 | 5.2 | 4.2 | 5.0 | 5.0 | 4.1 | 3.5 | |
| 10 | 3.5 | 3.3 | 3.3 | 3.3 | 3.2 | 3.0 | 3.0 | 6.2 | 8.1 | 9.6 | {11.2}D | 9.8 | 9.2 | 9.5 | 9.2 | 8.9 | {9.5} | 7.5 | 6.1 | 6.0 | 4.4 | 2.7 | 3.2 | 3.3 | |
| 11 | 3.4 | 3.1 | 3.4 | 3.1 | 2.9 | 2.7 | 2.7 | 8.1 | 9.8 | {10.6} | {11.0} | 11.7 | 11.5 | 9.9 | 9.5 | 8.9 | 8.5 | 7.8 | 7.2 | 5.6 | 4.8 | 4.3 | 4.3 | 3.9 | |
| 12 | 3.4 | 3.0 | 3.1 | 3.2 | 3.2 | 3.4 | 3.3 | 6.2 | 9.4 | {10.1} | 9.0H | 9.7 | 11.1H | 10.5H | 9.8H | 9.6H | 8.9 | 7.8 | 5.9 | 5.1 | 4.4 | 3.8 | 4.2 | 4.1 | |
| 13 | 3.9 | 3.7 | 3.6 | 3.5 | 4.0 | 4.1 | 4.4 | 7.1 | 8.9 | {11.8} | 11.4H | 11.0H | 9.6 | 9.7 | 9.7 | 10.6 | 9.1 | 7.8 | 6.0 | 6.2 | 5.0 | 3.8 | 3.6 | 4.1 | |
| 14 | 3.8 | {3.4}C | 3.0 | 2.9 | 2.3 | 2.7 | 3.1 | 8.0 | 8.6 | 10.0 | 9.5H | 10.5 | 9.8H | 9.0 | 9.3 | {9.7} | 8.6 | 7.1 | 4.7 | 4.6 | 4.3 | 4.6 | 4.6 | 3.1K | |
| 15 | 3.8 | AK | AK | AK | 3.7 | 3.6 | 3.6 | 7.5 | 8.5 | 13.7H | 11.1H | {11.3} | 11.5H | {10.8} | 9.5 | 10.3 | 9.0 | 7.8 | 6.8 | 4.4 | 4.7 | 4.7 | 4.7 | 3.4F | |
| 16 | 3.8 | 3.9F | 3.8F | 4.0 | 3.6 | 3.4 | 4.0 | 7.6 | 9.2 | 11.0 | 9.6 | 11.0 | 12.7 | 10.3H | 9.9H | 9.1 | 8.8 | 7.2 | 6.8 | 4.5 | 4.2 | 3.9 | 3.8 | 3.8 | |
| 17 | 4.3 | 4.1 | 3.9 | 4.2 | 4.1 | {4.8}JK | 5.3 | 7.7 | 10.1 | 10.2 | 10.0 | 11.6 | 12.5H | B | B | {10.0} | 8.4 | 6.6 | 6.3H | 6.4 | 4.4 | 3.6 | 3.9 | 3.8 | |
| 18 | 3.8 | 3.9H | 4.7KH | 4.5KH | 5.1JK | 3.8 | 3.9 | 6.5 | 7.6 | 8.2 | 8.6 | 9.2 | 9.2 | C | C | 10.6 | C | 7.9 | 6.0 | 3.9 | 3.3 | 3.4 | 3.4 | 3.2 | |
| 19 | 3.4 | 3.5 | 3.7 | 4.1 | 3.8 | 4.1 | 3.9 | 6.1 | 7.2 | 9.1 | 9.7 | 10.5 | 11.7 | 10.1 | 9.0 | 8.8 | 17.5 | 6.8 | 5.5 | 5.0 | 5.0 | 4.8 | 4.4 | 4.4 | |
| 20 | 4.2 | 4.4 | 4.3 | 4.0 | 3.9 | 4.1 | 4.0 | 7.0 | 9.5 | 11.6 | 13.3 | 11.1H | {13.2} | 11.5 | 10.7 | {10.6}H | 8.9 | 7.5 | 5.6 | 4.7 | 4.2 | 4.3 | 4.1 | 4.3 | |
| 21 | 4.5 | 4.4 | 2.9 | 4.3 | 4.0 | 3.1 | 3.0 | 6.8 | 6.5 | 10.1H | 11.2 | 10.0 | 10.4 | 8.6 | 9.2 | 9.2 | 9.4 | {9.7} | 7.0 | 5.6 | 5.8 | 5.2 | 5.2 | 5.6 | |
| 22 | 6.2 | 4.5 | 4.4 | 3.9 | 4.1 | 4.3 | 5.2 | 7.6 | 9.3 | {9.7}C | {10.5}H | 13.1 | 10.2 | 9.5 | 8.0 | 8.1 | 8.5 | C | C | 3.4 | 4.2 | 4.0 | A | 3.8 | |
| 23 | {3.8}C | 3.8 | 3.5 | 3.7 | 3.3 | 3.3 | {4.2} | {6.2}C | 8.1 | 10.5 | 10.1 | 10.5 | 11.1 | 9.3 | 9.8 | 9.2 | 8.8 | 8.1 | 6.8 | 5.7 | 4.6 | 4.2 | 4.1 | 4.2 | |
| 24 | 4.2 | 3.7 | 3.6 | 3.7 | 3.7 | 3.7 | {4.5} | 8.7 | 8.7 | 8.5 | 10.1 | 11.3 | 12.3 | 10.6 | 10.8 | 8.5 | 8.4 | 8.9 | 7.0 | 5.2 | 4.6 | 4.5 | 3.9 | 3.7 | |
| 25 | 4.0 | 4.3 | 3.8 | 3.7 | 3.7 | 3.2 | 3.3 | 8.3 | 9.3 | 9.5 | 8.9 | 10.7H | 10.9 | 10.2 | 10.3 | {9.1} | {9.2} | 8.9 | 6.5 | 4.5 | 4.2 | 4.4 | 3.5 | 3.8 | |
| 26 | 4.5 | 4.4 | 3.5 | 3.7 | 3.4 | 3.3 | 3.6 | 7.7 | 10.1 | 10.4H | 11.1 | 11.1 | 10.9 | 9.8 | 9.5 | 8.9 | 8.8 | 8.2 | 6.6 | 5.1 | 5.1 | 4.9 | 4.5 | 4.3 | |
| 27 | 4.1 | 4.1 | 4.1 | 4.0 | 3.7 | 3.9 | 5.2 | 7.8 | 9.6 | 9.9 | 9.1H | 10.3H | 10.5 | 10.0 | 9.6 | 8.9 | 7.6 | 7.7 | 7.3 | 6.5 | 5.0 | {4.8} | 4.7 | {4.7} | |
| 28 | 4.4 | 4.4 | 4.6 | 4.7H | 4.2H | {3.7} | 4.6 | 8.3 | 8.3 | 8.0 | 9.1B | 10.0B | 11.1H | 11.1B | 10.4B | 9.6B | 8.6 | 8.1 | 7.9 | 6.8 | 5.3 | 4.6 | 4.8 | 4.8K | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 3.8 | 3.8 | 3.6 | 3.8 | 3.6 | 3.4 | 3.8 | 7.2 | 8.4 | 9.7 | 9.9 | 10.5 | 10.8 | 9.8 | 9.5 | 9.1 | 8.6 | 7.8 | 6.0 | 5.1 | 4.5 | 4.1 | 4.0 | 3.8 | |
| Count | 27 | 27 | 27 | 26 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | 27 | 26 | 25 | 26 | 28 | 27 | 27 | 27 | 27 | 28 | 27 | 26 | 25 | 27 |

foF2

Sheep 2.0 Mc to 15.0 Mc in 1.5 min

Manual Automatic

K 1

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

IONOSPHERIC DATA

Lat. 35° 42.4' N
Long. 139° 29.8' E

Kokubunji Tokyo

fEs

Feb. 1946

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|--------|-----|-----|-----|-----|-----|-----|--------|-----|--------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|----|
| 1 | E | E | E | E | E | E | E | 2.8 | 3.3 | 3.4 | 3.7 | 4.3 | 3.9 | E | 3.1 | 3.1 | 3.2 | C | 2.0 | E | E | E | E | E | |
| 2 | 2.1 | E | 2.0 | 2.5 | E | 2.8 | E | 2.8 | 2.4 | 3.4 | {3.1} | 4.4 | 4.2 | 4.1 | 4.1 | 3.6 | 3.1 | 2.9 | 2.4 | E | E | {E}C | E | E | |
| 3 | {E}C | E | E | E | E | 2.7 | 2.5 | 2.8 | 3.1 | 3.2 | 3.2 | E | 3.3 | B | B | 5.4 | 4.5 | 2.5 | 3.2 | E | E | E | E | E | |
| 4 | E | E | E | E | E | 2.6 | 2.9 | 3.2 | 3.3 | 4.0 | 4.3 | 3.4 | 4.2 | 4.2 | 4.2 | 3.1 | 4.2 | 2.6 | 3.4 | 3.6 | 3.0 | 3.0 | 2.6 | 3.2 | |
| 5 | 2.4 | 3.0 | 2.2 | 2.5 | 2.9 | 2.5 | 3.0 | 3.0 | 3.3 | 3.0 | 4.2 | B | 2.7 | E | 4.2 | 3.3 | 3.1 | E | E | 2.2 | E | E | 2.4 | E | |
| 6 | E | E | E | E | E | E | E | 2.4 | 2.7 | 3.7 | 4.0 | 4.2 | 4.2 | 3.2 | B | B | 4.2 | 2.5 | 2.9 | E | E | E | E | E | |
| 7 | E | E | E | 3.3 | E | E | E | 3.1 | 3.5 | 4.2 | 4.3 | B | B | 4.2 | 4.0 | 4.2 | 3.1 | 2.7 | 2.9 | 2.3 | E | E | E | E | |
| 8 | E | E | E | E | E | E | E | 2.6 | 4.2 | 4.2 | 2.6 | 4.3 | 4.2 | B | 7.8 | 6.1 | 4.2 | 4.2 | E | E | E | E | E | E | |
| 9 | E | 2.4 | 2.7 | E | E | E | E | 2.3 | 4.2 | 4.3 | 4.1 | 3.5 | B | B | 4.3 | 3.7 | 3.7 | 3.1 | 3.2 | 4.8 | 5.2 | 6.3 | 2.2 | 2.7 | |
| 10 | E | 3.1 | 2.3 | 2.7 | 2.9 | 3.6 | 2.9 | 2.1 | 2.7 | 4.0 | 3.9 | 3.9 | 4.2 | 4.4 | 4.2 | 3.2 | 2.7 | 3.0 | 2.9 | E | E | E | 3.7 | 2.5 | |
| 11 | 2.5 | 2.6 | 2.2 | E | E | 2.5 | 2.2 | 3.1 | 4.2 | 4.2 | 3.3 | 3.3 | 3.4 | 5.6 | 3.5 | 4.2 | 3.4 | 2.5 | E | E | E | E | 2.2 | 3.1 | |
| 12 | 2.7 | 2.6 | 2.6 | 2.9 | 2.0 | 2.6 | E | 2.6 | 2.8 | 3.9 | 4.2 | 4.3 | 4.5 | 4.2 | 4.0 | 3.8 | 3.9 | 3.4 | 3.3 | 3.1 | E | E | 2.7 | E | |
| 13 | E | E | E | E | 3.3 | 2.7 | E | E | 2.7 | 3.3 | 4.2 | 4.2 | 4.2 | 4.2 | B | 4.1 | 3.6 | 4.0 | 2.9 | 2.7 | 3.5 | 2.8 | 3.5 | 2.7 | |
| 14 | 3.0 | 3.5 | 3.1 | 2.4 | 2.7 | 2.4 | E | E | 3.3 | 3.8 | 4.3 | 4.3 | 4.4 | 3.9 | 4.2 | 5.6 | 4.1 | 4.1 | 4.1 | 3.4 | E | 4.7 | 4.5 | 5.3 | |
| 15 | 6.0 | 8.4 | 7.6 | 5.1 | 2.9 | 2.0 | 2.4 | 2.4 | 3.2 | 2.9 | 3.5 | 3.8 | 3.1 | 4.1 | 4.2 | 3.7 | 4.2 | 3.3 | 2.5 | 2.9 | 5.6 | 4.4 | 6.0 | 2.9 | |
| 16 | 3.4 | 3.1 | 3.0 | 2.5 | 2.7 | 2.3 | 2.8 | 4.2 | 4.2 | 3.1 | 4.2 | 4.3 | 4.3 | 4.2 | 3.9 | 3.6 | 3.4 | 3.1 | 3.4 | 2.3 | E | 3.0 | E | E | |
| 17 | E | E | E | E | E | E | 2.2 | E | 3.9 | 4.2 | 4.2 | 4.0 | 3.0 | B | B | 3.0 | 3.1 | 2.9 | E | E | E | E | E | E | |
| 18 | E | 2.7 | 2.4 | 2.8 | 2.9 | 2.4 | 2.4 | 2.2 | 2.8 | 3.3 | 3.8 | 3.7 | 4.3 | 2.5 | 4.2 | 3.7 | 3.2 | E | E | E | 2.3 | 2.7 | 2.5 | 2.4 | |
| 19 | 2.4 | E | E | E | E | E | E | E | 4.2 | 4.2 | 4.5 | 2.7 | 3.5 | 3.9 | 4.1 | 4.0 | 3.2 | 2.9 | 3.5 | 2.5 | 3.3 | 3.3 | 3.1 | 2.4 | |
| 20 | 2.3 | 2.2 | E | E | E | 2.5 | E | 4.2 | 4.2 | 4.2 | 2.8 | 3.9 | 4.3 | 4.4 | 5.5 | 5.2 | 3.7 | 2.9 | E | 2.5 | 2.4 | E | E | 3.0 | |
| 21 | E | E | E | E | E | E | E | 4.2 | 4.2 | 3.5 | 4.3 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 3.3 | 2.6 | 2.2 | E | E | E | E | 3.1 | |
| 22 | 2.5 | E | E | E | E | E | E | 2.4 | 2.9 | (3.4)C | 3.9 | 4.1 | 4.8 | 5.0 | 5.1 | 5.0 | 4.7 | C | C | E | E | 4.2 | 5.5 | 3.2 | |
| 23 | {3.1}C | 3.0 | 2.3 | 3.1 | 2.9 | E | E | {3.3}C | 3.4 | 3.8 | 5.8 | 6.2 | 4.5 | 5.8 | 5.2 | 5.8 | 3.9 | 3.3 | E | 2.5 | 3.1 | 2.8 | 6.0 | 5.5 | |
| 24 | 3.1 | 3.1 | 2.6 | E | 2.3 | E | E | E | 3.2 | 3.2 | 3.7 | 4.2 | 4.3 | 4.3 | 4.0 | 3.7 | 3.0 | 2.7 | E | 2.3 | 2.4 | 2.6 | 2.7 | 2.2 | |
| 25 | 2.9 | E | E | 2.8 | E | 2.5 | E | 2.7 | 4.2 | 4.1 | 4.2 | 4.4 | 4.6 | 4.8 | 4.1 | 5.2 | 4.0 | 3.0 | 2.5 | 2.2 | 2.4 | 2.0 | 2.0 | E | |
| 26 | 4.7 | 4.5 | 2.9 | 2.9 | 2.9 | 2.6 | 2.2 | 2.3 | 3.4 | 3.9 | 3.9 | 4.2 | 4.4 | 3.9 | 4.1 | 4.1 | 3.7 | 2.8 | E | E | E | E | 2.4 | E | |
| 27 | E | E | E | E | E | E | E | E | 4.4 | 4.2 | 4.1 | 4.4 | 3.6 | 4.2 | 4.3 | 4.0 | 4.3 | 2.8 | 2.5 | E | E | 2.3 | 2.4 | 2.2 | |
| 28 | E | E | E | E | E | E | E | E | 3.5 | 3.5 | 3.2 | 4.0 | 4.7 | 3.2 | 3.2 | B | 3.0 | 3.1 | 2.9 | 4.0 | 3.3 | 2.6 | E | 5.3 | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 2.0 | E | E | E | E | E | E | 2.4 | 2.9 | 3.4 | 3.9 | 4.0 | 4.1 | 4.1 | 4.0 | 3.7 | 3.3 | 2.9 | 2.5 | 2.3 | E | 2.2 | 2.2 | 2.3 | |
| Count | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 26 | 26 | 24 | 24 | 26 | 28 | 26 | 27 | 28 | 28 | 28 | 28 | 28 | 28 |

fEs

Sweep 2.0 Mc to 15.0 Mc in 1.5 min

Manual Automatic

K 2

Lat. 35° 42.4' N
Long. 139° 29.8' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

Feb. 1946

(M3000)F2

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|--------------|--------|-----|-----|-----|-----|--------|-------|--------|-----|--------|--------|--------|-------|--------|-----|-------|-------|--------|-------|--------|-----|-------|--------|--------|
| 1 | 3.2 | 3.2 | 3.5 | 3.6 | 2.9 | 3.1 | 3.1 | 3.5 | 4.0 | 3.7 | 3.6 | 3.4 | 3.7 | 3.9 | 3.5 | 3.9 | 3.7 | (3.7)C | 3.5 | 3.1 | 3.3 | 3.0 | 2.8 | 3.0 |
| 2 | 3.0 | 2.8 | 3.1 | 3.4 | 3.5 | 2.9 | 3.4 | 3.9 | 4.0 | 3.3 | (3.6)C | 3.7 | 3.5 | 3.5 | 3.6 | 3.9 | 3.5 | 3.7 | 3.5 | 3.4 | 3.4 | 3.1 | (2.9)C | 2.7 |
| 3 | (2.8)C | 2.9 | 3.1 | 3.1 | 2.8 | 2.9 | 3.2 | 3.7 | 3.9 | 3.5 | 3.4 | 3.3 | 3.6 | B | B | 3.2 | 3.6 | 4.0 | 3.4 | 3.2 | 3.5 | 2.9 | 2.9 | 2.7 |
| 4 | 2.8 | 2.9 | 2.9 | 2.9 | 3.4 | 3.1 | 3.0 | 3.4 | 3.6 | 3.6 | (3.7)C | (3.7) | (3.5) | 3.5 | 3.5 | 3.8 | 3.6 | 3.4 | 3.5 | 3.3 | 3.3 | 2.8 | 2.7 | 2.6 |
| 5 | 2.7 | 2.9 | 2.8 | 3.3 | 2.8 | (2.9)C | 3.5 | 4.0 | 3.7 | 3.4 | 3.4 | (3.5)B | 3.5 | 3.4 | 3.4 | 3.7 | 3.4 | 3.6 | 3.3 | 3.4 | 2.9 | 2.9 | 2.8 | 2.8 |
| 6 | 2.8 | 2.9 | 2.7 | 2.8 | 2.7 | 2.6 | 2.9 | 4.0 | 4.0 | 3.6 | 3.4 | 3.4 | 3.4 | 3.2 | 3.1 | 3.3 | 3.1 | 3.4 | 3.4 | 3.0 | 3.4 | 2.8 | 2.7 | 2.6 |
| 7 | 2.7 | 2.6 | 2.9 | 3.4 | 3.4 | 2.9 | 3.0 | 3.9 | 3.8 | 3.5 | 3.2 | B | B | 3.0 | 3.0 | 3.0 | 3.0 | 3.1 | 3.3 | 3.0 | K | K | K | K |
| 8 | K | K | K | K | K | 2.2 | 3.5 | 3.2 | 3.3 | 3.0 | D | 2.7 | 3.1 | 3.1 | 3.3 | 3.1 | 2.7 | 3.2 | 3.2 | (2.8)C | 2.8 | 3.0 | 2.5 | 2.8 |
| 9 | 2.8 | 2.5 | 2.6 | 2.8 | 2.6 | 2.6 | 2.5 | 2.9 | 3.7 | 3.4 | K | K | K | 3.4 | 3.5 | 3.4 | 3.6 | 3.4 | 3.5 | C | K | K | 2.9 | 2.9 |
| 10 | 2.7 | 2.5 | 2.3 | 2.5 | 3.0 | 2.8 | 2.9 | 3.5 | 3.3 | 3.3 | 3.0 | 3.4 | 3.2 | 3.0 | 3.2 | 2.9 | 3.3 | 3.4 | 3.4 | 3.4 | 3.3 | 2.6 | (2.8)C | 2.9 |
| 11 | 2.8 | 2.6 | 2.8 | 2.7 | 2.7 | 2.7 | 2.7 | 3.2 | 3.1 | (3.3)C | 3.3 | 3.3 | 3.1 | 3.2 | 3.2 | 3.4 | 3.3 | 3.2 | 3.3 | 3.0 | 3.1 | 3.0 | 3.1 | 3.1 |
| 12 | 3.0 | 2.7 | 2.6 | 2.8 | 2.8 | 2.6 | 3.0 | 3.5 | 3.5 | 3.2 | 4.0 | 3.8 | 3.3 | 3.6 | 3.5 | 3.8 | 3.1 | 3.1 | 2.9 | 3.0 | 3.1 | 2.6 | 2.5 | 2.6 |
| 13 | 2.5 | 2.4 | 2.3 | 2.3 | 2.4 | 2.3 | 2.8 | 3.2 | 3.1 | 2.9 | 3.1 | 3.0 | 3.0 | {3.0}C | 3.1 | 3.1 | 3.8 | 3.5 | 3.2 | 2.9 | 3.3 | 3.0 | 2.6 | 3.0 |
| 14 | 3.8 | 3.2 | 2.6 | 3.3 | 2.8 | 2.6 | 2.8 | 3.6 | 3.4 | 3.6 | 3.1 | 3.4 | 3.6 | 3.4 | 3.2 | 3.4 | 3.6 | 3.6 | 3.5 | 3.2 | 2.7 | 2.7 | 3.3 | 2.5 |
| 15 | A | A | A | A | 2.7 | 2.8 | 2.8 | 3.4 | 3.4 | 3.6 | 3.5 | 3.2 | 3.3 | 3.5 | 3.2 | 3.3 | 3.9 | 3.2 | 3.3 | 3.3 | A | A | A | 2.9 |
| 16 | 2.8 | 2.7 | 2.8 | 2.9 | 2.9 | 3.0 | 3.0 | 3.6 | 3.5 | 3.4 | 3.3 | 3.7 | 3.4 | 3.4 | 3.1 | 3.5 | 3.5 | 3.6 | 3.4 | 3.1 | 2.8 | 3.0 | 2.8 | 2.9 |
| 17 | 2.9 | 2.9 | 2.9 | 3.1 | 3.1 | C | C | 3.2 | 3.2 | 3.5 | 3.3 | 3.4 | 3.3 | B | B | 3.6 | 3.8 | 3.7 | 3.3 | 3.4 | 3.5 | 2.7 | 2.6 | 2.7 |
| 18 | 2.9 | 2.8 | 2.5 | C | C | 3.1 | 2.8 | 3.3 | 3.4 | 3.7 | 3.6 | 3.3 | C | C | 3.3 | 3.4 | C | C | 3.6 | 3.3 | 3.1 | 2.9 | 3.0 | 2.8 |
| 19 | 2.7 | 2.9 | 3.0 | 3.1 | 2.9 | 3.1 | 3.6 | 3.8 | 3.5 | 3.6 | 3.5 | 3.3 | 3.4 | 3.6 | 3.6 | 3.6 | 3.8 | 3.4 | 3.5 | 3.0 | 3.2 | 3.0 | 2.7 | 2.8 |
| 20 | 2.6 | 3.1 | 2.7 | 2.6 | 2.5 | 2.9 | 2.8 | 3.0 | 2.8 | 3.0 | 3.4 | 3.2 | (3.3) | 3.2 | 3.3 | (3.3) | 3.6 | 3.5 | 3.5 | 3.7 | 3.1 | 2.8 | 2.7 | 2.8 |
| 21 | 2.7 | 3.0 | 2.8 | 2.9 | 3.3 | 2.6 | 2.7 | 3.7 | 3.4 | 2.9 | 3.3 | 3.4 | 3.2 | 3.8 | 3.2 | 2.6 | 3.5 | (3.1) | 3.3 | 3.4 | 3.3 | 3.0 | 3.0 | 4.5 |
| 22 | 3.2 | 3.1 | 2.7 | 3.1 | 2.8 | 3.0 | 3.5 | 3.8 | 3.5 | (3.5)C | (3.5) | 3.4 | 3.8 | 3.5 | 3.8 | 3.3 | 3.4 | C | C | 2.9 | 2.8 | 3.0 | A | 3.0 |
| 23 | (3.7)C | 3.0 | 2.8 | 2.9 | 3.1 | 3.1 | (3.0) | (3.5)C | 3.5 | 3.6 | 3.6 | 3.4 | 3.4 | 3.5 | 3.3 | 3.9 | 3.5 | 3.6 | 3.4 | 3.2 | 3.1 | 2.9 | 2.8 | (2.9)C |
| 24 | 2.8 | 2.8 | 2.4 | 2.6 | 2.7 | 2.8 | (3.1) | 3.5 | 3.8 | 3.6 | 3.5 | 3.0 | 3.3 | 3.3 | 3.4 | 3.4 | (3.0) | 3.3 | 3.5 | 3.3 | 2.9 | 2.7 | 2.6 | 2.8 |
| 25 | 2.8 | 2.9 | 2.8 | 3.0 | 3.2 | 2.8 | 2.9 | 3.7 | 3.6 | 3.7 | 2.9 | 3.3 | 3.3 | 3.1 | 2.9 | (3.3) | 3.4 | 3.5 | 3.3 | 3.0 | 3.0 | 3.2 | 3.0 | 3.0 |
| 26 | 2.6 | 2.9 | 3.4 | 2.9 | 3.0 | 2.9 | 3.1 | 3.1 | 3.4 | 3.3 | 3.3 | 3.4 | 3.8 | 3.4 | 3.5 | (3.5) | 3.4 | 3.5 | 3.3 | 3.0 | 3.0 | 3.2 | 3.0 | 3.0 |
| 27 | 2.8 | 2.8 | 3.0 | 3.2 | 2.9 | 2.6 | 3.3 | 3.6 | 3.9 | 3.6 | 3.3 | 3.1 | 3.1 | 3.5 | 3.3 | 3.2 | 3.4 | (3.6) | (3.8) | 5 | 3.2 | (2.9) | 3.2 | (2.8) |
| 28 | 2.8 | 2.8 | 2.8 | 3.2 | 3.0 | 2.8 | 2.5 | 3.7 | 3.7 | 3.5 | 3.5 | 3.5 | 3.3 | 3.3 | 3.2 | 3.2 | 3.4 | 3.3 | 3.2 | 3.5 | 3.2 | (3.1) | 3.0 | 3.0 |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 2.8 | 2.9 | 2.8 | 2.9 | 2.9 | 2.8 | 3.0 | 3.5 | 3.5 | 3.5 | 3.4 | 3.4 | 3.3 | 3.4 | 3.3 | 3.4 | 3.5 | 3.4 | 3.4 | 3.2 | 3.2 | 3.0 | 2.8 | 2.8 |
| Count | 26 | 26 | 26 | 25 | 26 | 27 | 27 | 28 | 28 | 28 | 27 | 26 | 25 | 25 | 26 | 28 | 27 | 26 | 27 | 26 | 25 | 25 | 25 | 27 |

(M3000)F2

Sweep 2.0 Mc to 15.0 Mc in 1.5 min

Manual Automatic

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

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

Mar. 1946

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 | 3.8 | 3.4 | 4.4 | 4.6 | 4.3 | 3.8 | 4.8 | 7.9 | (9.4) | 10.9 | 11.3B | 11.6B | 10.2H | 9.7 | 11.1H | 10.7H | 10.2 | 7.1 | (4.8) | 5.8 | 5.9 | 6.0 | 6.1 | | |
| 2 | 5.2 | 4.9 | 4.8 | 4.7 | 4.7 | 4.4 | 6.1 | 10.1 | (11.3) | 10.6T | 11.3H | 11.3 | (11.6) | 11.5 | 10.2H | 9.2 | 10.2 | 10.1 | 8.6 | 6.6T | 5.3 | 5.9 | 5.8 | | |
| 3 | 5.8 | 5.2 | 4.7 | 4.6 | 4.7 | (4.6) | (5.7) | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | | |
| 4 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | | |
| 5 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | | |
| 6 | 5.6 | 5.6 | 5.2 | 5.2 | 5.2 | 4.6 | 5.7 | 9.0 | 12.4 | 12.9 | 13.3H | 13.6H | 12.9H | 12.4H | 10.5 | 11.6 | (10.9)S | 9.5 | 7.6 | 6.8 | 6.2 | 6.3 | 5.6 | | |
| 7 | 6.3H | 6.2 | 6.1 | 6.4 | 4.9 | 4.8 | 5.3 | 8.5 | 11.8 | (12.0) | (13.2)H | (13.8)H | (12.0)H | 12.7 | (12.4)S | 12.0 | 11.6 | 9.0 | 7.5 | 7.0 | 6.0 | 6.6 | 6.1 | | |
| 8 | 5.9 | 6.2 | 5.6 | 5.5 | 4.8 | 4.6 | 6.2 | 8.6 | 9.9 | 10.8 | (13.9) | (13.5) | (13.8) | 13.0H | 12.0 | 10.9 | 11.2H | 10.4H | 7.9 | 6.5 | 6.3 | 6.5 | 5.8 | | |
| 9 | 5.5 | 4.4 | 5.4 | 5.4 | 4.5 | 4.4 | (6.6)C | 9.0 | 10.9 | 10.6 | 12.0H | 12.5H | (12.2)H | (12.3)S | (12.4)H | 12.0H | 11.0 | 9.0 | 7.7H | 7.6 | 6.8H | 5.4 | 5.5 | | |
| 10 | 5.7 | 4.8 | 5.0 | 4.4 | 5.2 | 5.3 | 5.4 | 8.5 | 9.7 | 11.0 | 11.8 | 12.5 | 12.8 | 12.0 | 11.2 | 12.0 | 11.9H | 10.6 | 9.3 | 8.5 | 6.7 | 6.7 | 7.2 | 6.3 | |
| 11 | 6.0 | 5.7 | 5.5 | 6.0 | 5.4 | 4.9 | 5.8 | 8.6 | 11.1 | 11.8 | 13.1 | (14.9) | 12.7 | 12.5H | 11.3 | 10.1 | 10.7 | 10.6 | 9.6 | 7.4 | 6.7 | 5.8 | 4.8 | 4.8 | |
| 12 | 4.8 | 5.1 | 5.3 | 4.9 | 4.1 | 4.1 | 7.2 | 9.4 | 9.7 | 10.6 | 11.5H | 12.4 | 12.6H | 11.7H | 11.0 | 12.0 | 11.6H | 11.9 | 10.5 | 7.9 | 6.6 | 6.4 | 6.0 | 6.1 | |
| 13 | 5.5 | 5.7 | 5.2 | 5.0 | 4.9 | 4.7 | 6.1 | 8.2 | 9.2 | 9.5 | 10.1 | 12.0 | 11.6 | 12.3 | 12.5 | 11.4 | 11.2 | 11.7 | 9.5 | 8.0 | 7.3 | 6.7 | 5.9 | 5.8 | |
| 14 | 5.6 | 5.8 | 6.1 | 6.0 | 4.4 | 4.7 | 6.5 | 9.3 | 9.6 | 10.1 | 11.5 | 12.5 | 13.1 | 12.9 | 12.7 | 12.0H | 11.7 | 11.6 | (9.6) | 6.7 | 6.1 | 6.0 | 5.8 | 5.5 | |
| 15 | 5.0 | 5.4 | 5.0 | 5.7 | 4.9 | 4.4 | 6.0 | 8.1 | 9.2 | 8.9 | 10.1 | 11.5 | 12.0 | 11.4 | 11.7 | 12.0 | 11.5 | 10.8 | 11.1 | 9.2 | 8.1 | 7.7 | 6.9 | 6.6 | |
| 16 | 6.7 | 7.0 | 7.4 | 6.6 | 6.2 | 4.9 | 6.0 | 8.3 | 9.1 | 10.4 | 11.6 | 12.0 | 12.4H | 11.6B | 11.3 | 11.3H | 11.0 | 10.4H | 9.7 | 7.5 | 5.9 | 5.6 | 5.6 | (5.7) | |
| 17 | 5.3 | 5.3 | 5.2 | 5.1 | 4.4 | 4.2 | 5.1 | 7.8 | 9.2 | 10.0 | 10.1 | 11.5 | 12.0 | 12.8H | 11.2H | 11.8H | 11.5 | 11.5 | 10.7 | 6.8 | 6.3 | 5.5 | 5.3 | 4.9 | |
| 18 | 4.9 | 4.9 | 5.6 | 4.9 | 4.1H | 4.3 | 6.9 | 8.7 | 9.5 | 11.2 | 11.6 | 11.1 | 10.8 | 11.7 | 11.6 | 11.0 | 10.6 | 10.4 | 8.9 | 7.1 | 6.5 | 6.2 | 5.1 | 4.5 | |
| 19 | 4.6 | 4.9 | 5.2 | 4.2 | 4.0 | 4.0 | 7.3 | 10.1 | 9.7 | 10.0 | 10.8B | 10.6B | 12.4H | 11.4B | 10.8 | 10.8H | 9.7 | 9.4H | 8.8 | 6.5 | 6.5 | 7.0 | 6.9 | 6.2H | |
| 20 | 5.6H | 5.6 | 5.6 | 4.8 | 4.4 | 4.4 | 5.4 | (7.6)S | 9.7 | 10.0 | 10.7 | 11.2 | 11.9 | 11.3 | 10.7 | 10.4 | 10.2 | 9.8 | 9.9 | 7.8 | 7.3 | 7.2 | 6.8 | 6.5 | |
| 21 | 6.5 | 5.8 | 5.4 | 4.9 | 4.9 | 4.9 | 7.6 | 10.0 | 11.0 | 11.1 | 11.4 | 11.3H | 13.1 | 12.6 | 12.1 | 12.0 | 10.7 | 9.8 | 8.3 | 7.2 | 6.7 | 6.5 | 6.7 | 6.5 | |
| 22 | 6.6 | 6.4 | 6.1 | 4.8 | 4.7 | 4.7 | (6.7)C | 8.7 | 8.6 | 9.6 | 12.8H | 12.2H | (12.9)H | 11.6 | 10.7 | 11.0 | 11.0 | 10.4 | 8.5 | 7.7 | 7.9 | 7.7 | 6.7 | 6.3 | |
| 23 | 6.2 | 6.4 | 6.1 | 5.8 | 4.8 | 5.3 | 8.1 | 10.6 | 9.8 | 10.3 | 11.5 | 12.4 | 12.8 | 12.7 | 12.3H | 11.6H | 11.0 | (10.8) | 10.1 | 8.2 | 7.5 | 7.2 | 6.7 | 6.3 | |
| 24 | 6.5H | 6.5 | 6.4 | 6.3 | 5.7 | 5.7 | 8.3 | 9.5 | 10.7 | 10.7B | 11.5H | 11.9H | 12.2B | 11.8B | 12.1B | 11.8B | 10.9 | 9.5 | 8.4 | 8.4 | 8.6 | 9.0 | 9.0 | 7.7 | |
| 25 | 7.7 | 6.7 | 6.8 | 6.5 | 6.0H | 6.3 | 9.0 | 11.6 | 13.0 | 13.0 | 14.0 | 14.2 | 13.3H | 13.2 | 11.7H | 11.4H | 10.8H | 9.2 | 9.2 | 10.8K | 9.2K | 6.4HK | 6.2JC | | |
| 26 | 6.0 | 6.5 | (5.6) | 5.3 | 4.1 | 4.3 | 6.6 | 7.3K | 11.8K | 7.6HK | 7.6HK | 8.0H | 8.8K | 8.6K | 8.6K | 8.2K | 8.5K | 8.5K | 8.6K | 7.8K | 6.5H | 6.3H | 6.7B | | |
| 27 | 6.4 | 6.0 | 5.6 | 4.6 | 3.3H | 3.6 | 5.7 | 7.7 | (8.6)S | KSK | KBK | KBK | (11.0)B | 12.5K | 10.3K | (9.0)B | 9.3K | 9.3K | 8.9 | 6.8 | 5.6H | 5.5 | 5.6 | 5.7 | |
| 28 | 5.5 | 5.8 | (5.6) | (5.9) | 4.9 | 4.0H | 5.9 | 7.1 | 8.6 | 10.3B | 10.2H | 10.8 | (10.2)K | 9.4K | 9.2K | 11.1 | 11.6 | 10.9 | 9.5 | (6.8)H | (7.5)K | (8.1)S | A | A | |
| 29 | A | A | A | A | A | 2.8KH | 2.8KH | 2.8JK | G | G | G | B | B | G | (6.2)H | 7.2HK | (5.9)K | 5.9K | 6.5 | (4.7) | 5.4 | 4.9 | 4.8 | | |
| 30 | 4.8 | 4.4 | 4.8H | 4.0 | 3.2 | 3.2 | 4.9 | 6.5 | 7.9 | 8.2K | 9.2K | (9.5)K | 9.7K | 9.38K | 8.4TK | 8.1K | 8.2K | 8.3K | 7.4K | 6.7 | 6.5 | 6.3 | 6.4H | | |
| 31 | 6.4B | 6.3 | 6.0 | 5.8 | 4.8 | 4.7 | 6.8 | 7.3 | 8.1B | 9.0B | 10.7B | 10.9B | 11.5B | 11.2B | 11.4B | 10.5B | 9.4B | (9.3)B | (9.4) | 7.7 | 6.7 | 6.8 | 6.7 | 6.6 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 5.7 | 5.7 | 5.6 | 5.1 | 4.7 | 4.6 | 6.1 | 8.6 | 9.7 | 10.3 | 11.4 | 12.0 | 12.2 | 12.0 | 11.5 | 11.2 | 10.9 | 10.5 | 9.4 | 7.6 | 6.7 | 6.5 | 6.3 | 6.1 | |
| Count | 28 | 28 | 28 | 28 | 28 | 29 | 29 | 28 | 28 | 27 | 27 | 26 | 27 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | 29 | 28 | 28 | 28 | 28 |

foF2

Sweep 2.0 Mc to 15.0 Mc in 1.5 min

Manual

Automatic

K 1

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

Lat. 35° 42.4' N
Long. 139° 29.8' E

IONOSPHERIC DATA

Kokubunji Tokyo

Mar. 1946

fEs

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|------|------|------|------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|----|
| 1 | 3.1 | E | 3.0 | 3.2 | 3.4 | E | 3.1 | 3.3 | 2.8 | 4.1 | 4.1 | 3.4B | 3.1B | 4.2 | 3.9 | 4.0 | 4.1E | 4.1E | E | E | E | E | 2.2 | E | |
| 2 | E | E | E | E | E | E | E | 3.5 | 4.1 | 4.4 | 4.7 | 3.9 | 4.3 | 3.9 | 4.3 | 4.4 | 3.8 | 3.2 | 3.0 | 2.6 | 2.5 | C | E | E | |
| 3 | 3.2 | 2.8 | E | E | 2.5 | E | E | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 4 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 5 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 6 | E | E | E | E | E | E | E | 3.3 | 4.1E | 4.1E | 3.0 | 3.1 | 4.3 | 4.4 | 3.8 | 3.1 | 3.0 | 3.0 | E | E | E | E | E | E | |
| 7 | E | E | E | E | E | E | E | 2.8 | 2.8 | 3.1 | 3.5 | E | 4.1E | 3.2 | 4.3 | 4.9 | 5.6 | 4.1 | E | 3.2 | 3.3 | E | E | 3.2 | |
| 8 | 3.0 | 2.8 | 2.8 | E | E | E | E | 4.1E | 3.0 | 4.3 | 4.1E | 5.5 | B | B | B | 4.5 | 5.2 | 8.5 | 4.9 | 5.8 | 5.1 | E | E | E | |
| 9 | 2.4 | 3.5 | 2.8 | E | E | E | E | 4.1E | 3.9 | 4.1 | 4.4 | 3.8 | 4.2 | 3.9 | 4.2 | 4.3 | 3.7 | 3.8 | 3.3 | 2.4 | 5.1 | E | E | E | |
| 10 | E | E | E | E | E | E | E | 2.9 | 3.4 | 4.2 | 4.0 | 4.1E | 3.9 | 4.1 | 4.1 | 4.2 | 4.6 | 5.8 | 2.9 | 4.0 | 3.5 | 3.1 | 2.1 | E | |
| 11 | E | E | E | E | 5.6 | 2.8 | E | 3.1 | 4.1E | 3.7 | 3.5 | 4.1 | 3.8 | 5.4 | 4.3 | 4.2 | 3.5 | 2.8 | E | 2.8 | E | E | E | 2.9 | |
| 12 | 2.5 | 2.7 | 2.8 | 2.5 | E | E | E | 4.1E | 3.7 | 3.5 | 4.0 | 4.1 | 4.4 | 4.4 | 4.3 | 4.4 | 4.0 | 3.2 | 3.5 | 3.8 | E | E | 2.1 | 3.2 | |
| 13 | E | E | E | E | E | E | E | 3.4 | 3.3 | 3.4 | 3.6 | 4.7 | 4.1 | 4.9 | 3.8 | 3.7 | 3.7 | 3.1 | 3.2 | 2.3 | E | E | E | 2.9 | |
| 14 | E | E | E | E | E | E | E | 3.1 | 3.7 | 3.7 | 4.3 | 3.6 | 4.4 | 3.6 | 3.1 | 4.1 | 3.9 | 3.2 | E | 2.4 | 2.5 | 3.0 | 2.4 | E | |
| 15 | E | E | E | E | E | E | E | 2.7 | 2.9 | 3.9 | 4.6 | 3.2 | 3.9 | 4.3 | 3.1 | 3.9 | 3.0 | 3.0 | 2.9 | 2.8 | 5.0 | 4.0 | 4.1 | 4.1 | |
| 16 | E | E | E | E | E | E | E | 2.7 | 3.0 | 3.5 | 4.3 | 3.9 | 3.9 | 4.1 | 3.6 | 6.3 | 5.5 | 4.3 | 3.8 | 3.1 | 2.4 | 3.9 | 3.4 | E | |
| 17 | 2.7 | 2.5 | E | E | E | E | E | 2.6 | 3.4 | 3.9 | 4.1E | 4.6 | 3.8 | 4.4 | 4.2 | 4.2 | 3.8 | 3.9 | 3.5 | 2.5 | 2.9 | 2.6 | E | E | |
| 18 | 2.8 | 2.3 | E | E | E | E | E | 2.7 | 3.2 | 3.6 | 4.4 | 3.1 | 3.6 | 4.1 | 4.3 | 3.9 | 2.7 | 4.1E | 2.5 | 2.2 | E | E | E | E | |
| 19 | E | E | E | E | E | E | E | 2.6 | 2.9 | 3.1 | 3.6 | 4.3 | 3.9 | B | 3.9 | 4.2 | 3.7 | 3.2 | E | E | E | E | 2.5 | E | |
| 20 | E | E | E | E | E | E | E | 2.7 | 3.7 | 3.7 | 3.9 | 3.9 | 4.1 | 4.2 | 4.2 | 4.2 | 2.7 | 3.0 | 2.6 | 2.0 | E | E | E | E | |
| 21 | E | E | E | E | 2.8 | E | E | 2.0 | 4.1E | 3.2 | 4.2 | 3.6 | 3.9 | 3.4 | 3.5 | 3.3 | 3.3 | 2.9 | 2.9 | 2.8 | 2.8 | 2.6 | 3.6 | 2.9 | |
| 22 | 2.5 | 2.7 | 4.0F | 3.5F | 2.7 | E | E | 2.7 | 3.1 | 3.9 | 3.3 | 4.1E | S | 4.1E | 4.1E | 3.9 | 3.9 | 4.1E | 2.8 | 2.0 | 2.9 | E | E | 2.5 | |
| 23 | 2.7 | 2.6 | E | E | E | E | E | 3.1 | 3.4 | 3.5 | 3.6 | 3.2 | 3.3 | 3.2 | 3.1 | 3.3 | 3.4 | 3.4 | 3.5 | 3.5 | 3.3 | 3.3 | 3.0 | 3.1 | |
| 24 | 2.8 | 2.8 | 2.8 | 3.2 | 3.0 | 2.8 | 3.5 | 3.4 | 3.4 | 3.3 | 2.8 | 2.8 | 2.9 | 2.8 | 2.9 | 2.9 | 3.0 | 3.0 | 3.1 | 2.8 | E | E | E | E | |
| 25 | E | E | E | E | 2.9 | 2.9 | 3.1 | 2.7 | 4.5 | 4.5 | 6.0 | 4.9 | 5.0 | 6.7 | 3.8 | 3.1 | 3.4 | 3.1 | 2.3 | E | E | E | 2.5 | C | |
| 26 | 2.9F | 2.6F | 2.4F | 3.2F | 2.7 | 2.8 | 2.7 | 2.5 | 3.1 | 4.8 | 4.7 | 4.1 | 4.4 | 3.2 | 3.3 | 3.3 | 4.2 | 3.4 | 2.4 | 2.9 | 2.3 | 2.8 | 2.5 | E | |
| 27 | E | E | E | E | E | E | E | 2.3 | 2.8 | 4.0B | 4.0B | 3.0 | 4.1B | 3.0 | B | B | 4.1E | 2.8 | 3.0 | 3.5 | 2.5 | 3.0 | 2.5 | 2.9 | |
| 28 | 3.0F | 3.0 | 2.9 | 2.5 | E | E | 3.0 | 3.2 | 3.6 | 3.0 | 4.2 | 4.0 | 4.1 | 3.5 | 3.8 | 4.0 | 3.3 | 4.0 | 2.4 | K | 2.8 | 2.2 | 3.1 | 3.0 | |
| 29 | 3.0 | 4.1 | 4.3 | 4.4 | 5.0 | 3.0 | 3.0 | 2.9 | 3.5 | 3.1 | 2.9 | 3.6 | 2.6 | B | 4.0 | 4.1E | 4.1E | E | 2.9 | E | 2.4 | E | 2.8 | E | |
| 30 | E | F | 2.1 | E | 2.3 | 2.4 | 2.6 | 3.2 | 2.9 | 4.7 | 4.2 | 3.6B | 4.1B | 3.5B | 5.0 | 3.8 | 3.3 | 4.1E | 2.9 | 2.3 | E | E | 2.2 | E | |
| 31 | E | E | F | E | E | 4.7 | E | 2.5 | 2.9 | 4.1B | 4.3B | B | 4.1B | 2.9 | 4.8 | 2.4 | 2.9 | 2.9 | 2.8 | E | E | E | E | E | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | E | E | E | E | E | E | E | 2.9 | 3.3 | 3.7 | 4.1 | 3.6 | 4.1 | 3.9 | 3.9 | 4.0 | 3.5 | 3.1 | 2.9 | 2.5 | 2.4 | E | 2.1 | E | |
| Count | 29 | 29 | 29 | 29 | 29 | 29 | 27 | 28 | 28 | 28 | 28 | 27 | 26 | 25 | 26 | 27 | 28 | 28 | 28 | 28 | 28 | 29 | 29 | 29 | 28 |

Energy - Z... Mc to ... Mc in ... min

Manual Automatic

K2

fEs

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

Mar. 1946

(M3000)F2

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

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

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

Apr. 1946

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 | 6.5 | 6.8 | 6.8 | 5.3 | 4.7 | 4.7 | 7.0 | 8.3 | 8.8 | 10.0B | 11.2B | 12.1B | 12.8B | 11.9B | 11.7B | 11.6B | 11.5 | 10.7 | 10.2 | 9.1 | 7.7 | 6.8 | 6.4 | 5.8 | |
| 2 | 6.3 | 6.3 | 6.3 | 6.1 | 4.8 | 4.5 | 6.6 | 7.7 | 9.8 | 11.0B | 12.1 | 12.5B | 13.0B | 12.8B | 12.6B | 12.1B | 11.8 | 11.4 | 11.0 | (9.6) | 8.7 | 6.6 | 6.5H | 6.4 | |
| 3 | 6.7 | 6.4 | 6.7 | 6.3 | 6.0 | 5.2 | 6.8 | 8.3 | 10.5 | 10.8 | (2.0) | (2.7) | 12.0 | 11.5 | 11.0 | 12.1 | 11.1 | 9.5 | 10.2 | 8.3 | 6.2 | 6.2 | 5.7 | 6.2H | |
| 4 | 6.3 | 6.4 | 6.2 | 5.4 | 5.2 | 5.1 | 7.5 | 9.5 | 11.3B | 11.3B | 11.6H | 12.6B | 12.4 | 11.5B | (11.2)C | 10.9 | 11.0 | 10.5 | 10.0 | 8.3H | 7.1 | (7.4)C | 7.6 | (7.6)C | |
| 5 | 7.6 | 7.5 | 7.2 | 6.2 | 5.5 | 5.6 | 7.2 | 8.5 | 10.0 | 10.7 | 11.5B | (13.3)B | 13.0B | (12.5)B | 12.2B | 11.7B | (11.5)B | 10.4 | 9.0 | 8.0 | 7.6 | 7.5 | 7.4 | 7.1 | |
| 6 | 7.2 | 6.7 | 6.5 | 5.9 | 5.5 | 5.5 | 8.0 | 8.9 | 9.0H | 10.5B | 11.8 | 13.3B | (13.5)B | 13.4B | 12.7B | 11.8B | 10.6 | 9.8 | 9.2 | 9.1 | 8.3 | 7.7 | 7.8 | 8.0 | |
| 7 | 7.9 | 7.2H | 7.0 | 6.8 | 6.5H | 6.6 | 8.0H | 9.4 | 10.8 | 11.5 | 12.6 | 13.3 | (13.9) | 12.9 | 12.1B | 12.0 | 11.3 | 11.2 | 11.4 | 9.6 | 7.7 | 7.2 | 6.7 | 7.6 | |
| 8 | 7.1 | 7.2 | 7.8 | 7.8 | 5.6 | 5.0 | 5.8 | 8.0 | 9.7 | 12.0 | 12.1 | 12.0B | 11.9 | 12.3B | 12.8B | 11.9B | 11.6B | 10.7 | 10.3 | 9.8 | 8.1 | 7.8 | 7.6 | 7.5 | |
| 9 | 7.1 | 7.2 | 7.0 | 6.4 | 5.5 | 5.3 | 7.9 | 9.8 | 11.1 | 11.3H | 12.2 | 13.4H | 12.4 | (13.2) | (13.0) | 11.1 | 11.5 | 11.5 | 10.0 | 9.0 | 8.0 | 8.2 | 8.1 | 8.0 | |
| 10 | 7.9 | 7.2H | (6.5) | 6.9 | 7.4 | (7.8)H | 9.7 | 9.5 | 10.7H | (11.0)H | 12.0B | 13.0B | 10.5K | 10.0K | 8.7K | 8.1K | 8.8K | 9.1K | 9.6 | 8.9 | 7.6 | 6.1 | 6.4 | 6.4 | |
| 11 | 6.7 | 6.7 | 6.8 | 6.3 | 6.2 | 6.5 | 7.8 | 8.2 | 8.7 | 9.1 | 9.4 | 11.2 | 12.1 | 11.6 | 11.7 | 10.9 | 10.8 | 10.8 | 9.8 | 9.5 | 7.7 | 6.8 | 6.8 | 7.0 | |
| 12 | 7.0 | 6.9 | C | C | C | C | C | C | C | C | C | 10.3 | (12.3) | 12.0 | 11.2 | 10.2 | 10.3 | (10.0)C | 9.1 | 6.5H | 6.3H | 6.3H | 6.8H | 7.3 | |
| 13 | 6.6 | 8.3 | 7.0 | 6.5 | 6.1 | 6.1 | 7.3 | 8.7 | (9.3) | 10.9 | 12.6H | (14.0) | 13.8H | 12.7 | 12.4 | (12.3)H | 9.8J | (9.5) | 8.8 | 8.9 | (8.1)C | 7.3 | 7.7 | 7.8 | |
| 14 | 7.3 | 7.2 | 6.7 | 5.8 | 5.5 | 6.2 | 7.6 | 10.3 | 11.6 | 12.2H | (1.3)H | 12.4H | 13.2B | 11.9 | (11.0)C | 9.1H | 9.6H | 10.3H | 9.7 | 8.2 | 7.4 | 7.5 | 7.8 | 7.0 | |
| 15 | 6.6 | 6.2 | 6.2 | 5.9K | 4.3HK | 5.1K | 8.0 | 8.9 | 10.0 | 10.9 | 11.5H | 13.0H | (12.5) | 12.0H | 10.4 | 10.2 | 8.8 | 8.5 | 8.7 | 8.0 | 8.1 | 7.2 | 7.2 | 7.1 | |
| 16 | 6.3B | 6.3 | 7.0 | 5.6 | 4.3H | 4.6 | (7.8)C | 10.9H | 12.0 | 13.2 | (13.5)H | 14.0 | (13.3) | 12.4B | 11.8 | 11.8 | 10.3 | 10.2H | 10.1H | 9.6H | 8.4 | 7.5H | 7.5 | 7.3 | |
| 17 | 7.9H | 7.8 | 7.0 | 6.3JF | 6.0JF | 6.6F | 8.1 | 8.2 | 8.1 | 9.4B | 9.5J | 10.4H | 10.9H | 11.3H | 10.8H | 10.2H | 9.5H | 10.0 | 9.7 | 4.8 | 6.8 | 6.7 | 6.9 | 7.2 | |
| 18 | 7.1 | 7.4K | 7.1K | (4.1)K | 4.2 | 4.3 | (7.4) | 7.3 | 8.0H | 9.6H | 10.2H | 10.0 | (10.4) | 10.1H | 10.3H | 10.0 | 9.8 | 10.2 | 10.3K | 9.6K | 7.0 | 6.2 | 6.7 | 6.8 | |
| 19 | 7.4 | 6.6 | 6.5 | 5.9 | 5.8 | 6.2 | 8.5 | 7.7 | 8.4 | 4.5J | 10.0 | 10.8 | 10.9 | 10.7 | 9.8 | 10.2 | 10.5 | 10.2 | 10.3K | 9.6K | 7.4H | 7.3 | 7.3 | 7.4 | |
| 20 | 6.5 | 6.4 | 6.5 | (5.6) | 5.0 | 5.2 | 7.5 | 8.3 | 9.2K | 8.9KH | (9.3)H | 10.5 | 10.8 | 11.1B | 11.0B | 10.6 | 10.2 | 9.2 | (9.5) | (8.8) | 7.4H | 7.3 | 7.3 | 6.9 | |
| 21 | 7.2 | 7.2 | 7.3 | 6.4 | 6.3 | 6.8 | 8.2 | 8.8 | (10.3)K | 11.5K | 11.4K | 11.4K | 11.2K | 12.7 | 12.5B | 12.0 | 9.8 | 9.4 | 8.8 | 7.6 | 7.3 | 7.2 | 7.3 | 6.9 | |
| 22 | 6.8 | 6.8 | 6.5 | 6.4 | 6.1 | 6.8 | 7.5 | 7.9H | 9.8H | 10.3 | 10.0K | 10.7H | (12.0) | 11.2 | 11.5 | 10.7K | 9.0K | 8.8K | 9.4 | 8.8 | 7.7 | 7.6 | 7.4J | 7.6 | |
| 23 | 7.4 | 6.9 | 6.5H | 6.3H | 5.8H | 7.0K | 7.4KH | 7.0KH | 7.7KH | 8.2KH | 8.7KH | (8.8)K | 9.3K | 9.7K | 9.7H | 9.6K | 8.7K | 8.8K | (9.1)K | 8.1K | (7.1)K | (8.8)K | 8.5F | | |
| 24 | 8.5F | 7.9KH | 7.9KH | (5.9)K | 5.9K | 6.0KH | 8.1KH | 6.9KH | 5.0KH | 5.0KH | 5.0KH | (9) | 5.0KH | 5.0KH | 5.0KH | 5.0KH | 5.4K | 5.2K | 5.2K | 4.9K | (4.6)K | (4.9)K | 5.2K | (5.4)K | |
| 25 | 6.3HK | 5.5K | 5.3K | 5.0K | 2.9K | 3.3K | 4.0KH | 4.4K | 5.0K | 5.0K | 6.8K | 6.5K | 6.7K | 7.7K | 8.5K | 7.8K | 7.7K | 7.3K | 7.8K | 7.4K | (6.2)K | 6.0K | 6.2K | 5.9K | |
| 26 | 6.4FK | 5.9FK | 5.4K | 5.0K | 5.0K | 5.0K | 6.8 | 8.4 | 8.8 | 8.3 | 8.8 | 10.1J | 10.6 | 10.9 | 11.2 | 10.9 | (10.5)C | (10.0)H | (9.8) | 9.4 | 8.0J | 7.1 | 7.1 | 6.8 | |
| 27 | 6.8 | 6.6H | 7.0H | 6.2 | 4.3HK | 4.3K | 4.9K | 6.2KH | 6.8K | 7.1K | 6.4K | 6.9K | 7.6K | 8.0K | 7.5K | 6.9K | 6.4 | 6.4K | 6.2K | 6.4K | 6.3K | 5.8 | 5.6 | 5.8 | |
| 28 | 5.9JF | 5.5F | 5.6 | 5.7 | 5.2 | 6.2 | 7.0 | 6.8 | 7.3 | 8.2F | 8.1 | (8.3)C | (9.6) | 10.2 | 10.9 | 11.2 | 10.8 | 10.3 | 9.5 | 7.7 | 6.8 | 7.3F | 7.4 | 7.4 | |
| 29 | 7.2 | 7.1F | 7.2 | 6.2 | 5.8 | 6.1 | 6.8 | 6.8 | 7.2 | 8.5 | 8.8B | 10.1K | 10.4 | 10.5B | 10.0H | 10.7H | 9.7 | (10.2)H | (10.1) | 8.3 | 7.1 | 7.0 | 7.4 | 7.2 | |
| 30 | 7.4 | 7.4 | 6.9 | 6.6 | 6.6 | 7.2 | 8.6 | 7.8 | 8.1 | 8.7 | 8.8 | 9.1 | 9.8J | 10.6 | 10.7 | (11.2) | 10.1J | 9.7J | 9.7 | 9.7 | 9.3 | 7.8 | 8.0 | 7.8 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 7.1 | 6.9 | 6.8 | 6.2 | 5.5 | 5.6 | 7.5 | 8.3 | 9.3 | 10.4 | 11.2 | 11.3 | 12.0 | 11.5 | 11.1K | 10.9 | 10.3 | 10.0 | 9.7 | 8.8 | 7.6 | 7.2 | 7.3 | 7.2 | |
| Count | 30 | 30 | 29 | 29 | 29 | 29 | 29 | 29 | 28 | 28 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 29 | 29 | 29 | 29 | 29 | |

foF2

Group 2.0 Mc to 1.0 Mc in 1/5 min
 Manual Automatic

KJ

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

f_oF1

Apr. 1946

| 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 | L | L | L | 5.2 | L | 5.6 | 5.1 | L | L | L | L | L | | | | | | |
| 2 | | | | | | | L | L | L | L | (5.4) | L | L | 4.8 | 4.7J | L | L | L | L | | | | | | |
| 3 | | | | | | | L | L | L | L | L | 4.7 | L | L | L | L | L | L | L | | | | | | |
| 4 | | | | | | | L | L | L | L | L | L | (5.4) | L | L | L | L | L | L | | | | | | |
| 5 | | | | | | | L | L | L | L | L | L | L | L | L | L | L | L | L | | | | | | |
| 6 | | | | | | | L | L | L | (4.0)J | L | L | L | (4.4)J | L | L | L | L | L | L | | | | | |
| 7 | | | | | | | L | L | L | L | L | L | L | L | L | L | L | L | L | L | | | | | |
| 8 | | | | | | | L | L | L | L | L | L | L | L | (5.3) | (4.5) | B | 3.0 | L | L | | | | | |
| 9 | | | | | | | L | L | L | L | L | L | L | L | L | L | L | L | L | | | | | | |
| 10 | | | | | | | L | L | L | L | L | 5.1 | L | L | L | L | L | L | L | | | | | | |
| 11 | | | | | | | L | L | L | 4.1J | L | L | L | L | L | L | L | L | L | L | | | | | |
| 12 | | | | | | | C | C | C | C | C | L | 6.0 | L | L | L | L | L | L | L | | | | | |
| 13 | | | | | | | L | L | L | L | 4.0 | L | L | 5.2 | 5.1J | 4.6J | L | L | L | L | | | | | |
| 14 | | | | | | | L | L | L | (3.8) | L | L | L | L | C | L | L | L | L | L | | | | | |
| 15 | | | | | | | L | L | L | L | L | L | L | L | L | L | L | L | L | L | | | | | |
| 16 | | | | | | | L | L | L | L | L | 5.6 | L | L | L | L | L | L | L | L | | | | | |
| 17 | | | | | | | L | L | L | L | L | L | L | L | L | L | L | L | L | L | | | | | |
| 18 | | | | | | | L | L | L | 5.0 | 6.1 | L | 5.5 | L | 5.2 | 4.8 | 3.9 | A | A | L | | | | | |
| 19 | | | | | | | L | L | L | L | L | L | L | L | 4.9 | L | L | L | L | L | | | | | |
| 20 | | | | | | | L | L | L | L | L | L | (5.5) | L | L | L | L | L | L | L | | | | | |
| 21 | | | | | | | L | L | A | L | L | L | 5.3 | (5.4)J | B | L | L | L | L | L | | | | | |
| 22 | | | | | | | L | L | L | L | 4.9 | L | L | 4.9 | 4.8 | L | L | L | L | L | | | | | |
| 23 | | | | | | | L | L | L | 5.2 | 4.8 | L | 5.1 | 5.7 | 5.2 | 4.6 | L | L | L | L | | | | | |
| 24 | | | | | | | L | A | L | 4.0K | 4.4K | BK | (4.5)K | AK | 4.5K | A | 4.4 | A | A | A | | | | | |
| 25 | | | | | | | L | AK | AK | AK | 5.2K | 5.2K | 5.2K | 5.2K | 5.1K | (4.9) | 4.3 | L | L | L | | | | | |
| 26 | | | | | | | L | L | L | 5.0 | L | 5.6 | 5.2 | L | L | L | C | L | L | L | | | | | |
| 27 | | | | | | | L | L | L | 4.6J | (4.8)A | 5.2K | AK | 5.0K | (5.1)K | 5.0K | 4.8J | 4.7 | 3.9 | L | | | | | |
| 28 | | | | | | | L | L | L | L | L | C | 5.6 | 5.5 | 5.4 | 5.5 | 4.0 | L | L | L | | | | | |
| 29 | | | | | | | L | L | L | A | L | L | L | L | L | L | A | A | A | A | | | | | |
| 30 | | | | | | | L | L | L | L | L | 5.2 | 5.8 | 5.5 | 5.6 | 5.2 | L | L | L | L | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | L | L | L | 4.2 | 4.8 | 5.1 | 5.2 | 5.4 | 5.2 | 5.1 | 4.8 | 4.3 | 3.0 | L | | | | | |
| Count | | | | | | | | | 3 | 7 | 10 | 6 | 13 | 11 | 12 | 8 | 5 | 9 | 2 | | | | | | |

f_oF1

Group 2.0 Mc to 5.0 Mc in 0.5 min

Manual Automatic

K2

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

IONOSPHERIC DATA

Kokubunji Tokyo

Lat. 35° 42.4' N
Long. 139° 29.3' E

Apr. 1946

fEs

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|------|------|------|------|------|-----|-----|-----|-----|------|------|------|------|------|------|-----|------|------|------|-----|------|------|-----|-----|--|
| 1 | E | E | E | E | E | E | E | LfE | LfE | 3.9B | 3.0 | 4.1B | 3.7B | 2.7 | 4.0B | 2.9 | 3.0 | 3.6F | 3.6 | 2.4 | E | E | 3.0 | E | |
| 2 | E | E | E | E | E | E | E | LfE | LfE | 2.8 | 4.0B | 3.5B | 2.9B | 3.2B | 3.1B | 3.1 | 3.5 | 3.7 | E | E | E | E | E | E | |
| 3 | E | E | K | E | E | E | E | 3.8 | 3.8 | 3.9 | 3.8B | B | 3.6 | 3.7 | 4.7 | 4.1 | 4.5 | 4.8 | 3.0 | 3.0 | E | E | E | E | |
| 4 | E | E | E | E | E | E | E | 2.9 | 2.9 | 2.9 | 3.0 | 3.1B | B | B | 3.5B | 3.5 | 3.5 | 2.7 | 2.9 | 3.2 | E | E | 2.6 | C | |
| 5 | E | E | E | E | E | E | E | 3.0 | 3.1 | 3.3 | 3.2 | 3.0 | 3.2 | 2.8 | B | 2.9 | 2.2 | 3.2 | 2.7 | E | E | E | E | E | |
| 6 | E | E | E | E | E | E | E | LfE | LfE | 4.3B | 3.9 | 3.2 | 4.2B | 4.4B | 4.1B | B | 3.9 | 3.0 | 2.8 | E | 6.8 | 2.8 | E | E | |
| 7 | E | E | E | E | E | E | E | E | E | 3.5 | 4.2 | 3.7 | 4.4 | 4.2 | 3.4 | 4.2 | 3.7 | 3.6 | 4.6 | 2.9 | 2.9 | E | 2.9 | 2.9 | |
| 8 | E | E | E | E | E | E | E | E | E | 3.6 | 4.1 | 4.0 | 5.6B | 5.4B | 2.9 | 3.4 | 3.6 | 3.3 | 2.8 | 3.8 | 3.1 | E | E | E | |
| 9 | E | E | E | E | E | E | E | E | E | 3.9 | 4.1 | 3.9B | 4.1B | 4.0 | 7.2 | 6.3 | 4.7 | 4.9 | 4.7 | 4.3 | 2.6 | 2.5 | E | E | |
| 10 | E | E | E | E | E | E | E | E | E | 4.1 | 4.1B | 4.2B | 4.3B | 5.3 | 4.9 | 4.1 | 7.4 | 4.8 | 5.0 | 4.6 | 6.4 | 4.9 | 3.1 | 2.4 | |
| 11 | 2.8 | 2.2 | E | E | E | E | E | LfE | LfE | 4.1 | 3.8 | 4.5 | 4.2 | 4.1 | 6.0 | 4.6 | 5.1 | 5.8 | 4.6 | 4.1 | 4.1 | 2.8 | 4.1 | E | |
| 12 | E | 2.8 | C | C | C | C | C | C | C | C | C | B | 4.8 | 4.0 | 4.1 | 4.1 | 3.1 | 3.7 | 3.5 | 5.7 | 7.6 | 6.5 | 6.0 | 4.4 | |
| 13 | 5.4 | 3.0 | E | E | E | E | E | LfE | LfE | 3.7 | 4.4 | 4.4 | 3.4 | 3.0 | 3.9 | 3.1 | 3.0 | 3.1 | 2.9 | 2.3 | 3.1 | 2.5 | 3.4 | 2.9 | |
| 14 | 2.7 | 3.3 | 2.9 | 2.4 | E | 2.4 | 2.4 | 3.1 | 3.8 | 4.1 | 4.1 | 3.9B | 3.9B | 3.9B | 3.4B | 3.2 | 4.0 | 3.6 | 2.9 | 3.0 | 3.0 | 3.0 | E | E | |
| 15 | E | E | E | E | E | E | E | 3.2 | 3.9 | 3.7 | 3.2 | 3.5 | 3.9 | 4.0B | 4.1 | 4.2 | 3.8 | 3.4 | 2.5 | 3.0 | 2.8 | 2.5 | E | E | |
| 16 | 4.3F | 4.2 | 3.2 | 2.4 | E | 2.7 | 2.5 | C | 3.2 | 4.2 | 4.3 | 3.9 | 3.8 | 5.2 | LfE | 4.4 | 4.2 | 6.9 | 3.1B | 3.1 | 3.8 | 5.2 | 4.2 | 3.8 | |
| 17 | 3.0B | B | 4.0B | 4.0B | 3.2 | 3.1 | 2.4 | 3.3 | 4.3 | 5.2B | 4.7 | 3.8 | 3.8 | 3.9 | 3.3B | 3.3 | 3.9 | 3.1 | 3.0 | 2.9 | 2.9 | 2.9 | 2.8 | E | |
| 18 | E | E | E | E | E | E | E | 3.0 | 3.1 | 4.2 | LfE | 4.2 | LfE | 3.8 | 4.3 | 4.6 | LfE | 4.4 | 4.1 | 2.6 | E | E | E | E | |
| 19 | E | E | E | E | E | E | E | 2.5 | 3.0 | 3.1 | 6.7 | 5.1 | 4.1 | 4.1 | 3.8 | C | 4.0 | 3.1 | 4.5 | 5.7 | 5.0 | 5.3 | 5.2 | 3.3 | |
| 20 | 3.3 | 2.9 | E | E | E | E | E | 2.8 | 4.3 | 4.0 | 4.9 | 7.8 | 5.5 | 4.6 | LfE | 4.3 | 4.1 | 4.4 | 4.2 | 3.9 | 6.0 | 2.5 | 2.8 | E | |
| 21 | E | 4.0 | 4.0 | E | E | E | E | 3.2 | 4.8 | 5.2 | 4.9 | 4.2 | 4.4 | 5.6 | 3.3 | 4.2 | 3.3 | 4.0 | 4.8 | 3.1 | 2.7 | 2.6 | E | E | |
| 22 | E | 2.3 | 3.1 | 4.6 | 2.7 | E | 2.7 | 3.5 | 3.9 | 3.7 | 5.2 | 4.9 | 4.1 | 4.1 | 4.0 | 3.1 | 3.8 | 3.1 | 2.9 | 5.4 | 2.7 | 3.5 | 2.4 | 2.7 | |
| 23 | 2.6 | 2.9F | 2.5F | 3.1F | 2.5F | 2.5 | 3.6 | 4.0 | 4.4 | 4.6 | 4.8 | 4.1 | LfE | 5.5 | 4.2 | 4.5 | 4.6 | 5.6 | 2.8 | E | E | E | 2.8 | E | |
| 24 | E | 2.8 | 2.6 | 2.6 | 3.1 | 2.4 | 3.6 | 3.9 | 4.4 | 4.5 | 4.3 | 3.2 | 4.2 | 5.0 | 4.0 | 5.1 | 4.7 | 5.0 | 5.3 | 3.7 | 3.3 | 4.0 | 3.1 | E | |
| 25 | E | 2.6 | E | 2.4 | 2.5 | 2.5 | 2.5 | 3.6 | 4.5 | 3.8 | 4.2 | 4.4 | 5.0 | 5.2 | 4.0 | 3.6 | 4.1 | 3.9 | 4.2 | 3.2 | 3.7 | 2.4 | 4.6 | 5.6 | |
| 26 | 5.2F | 4.2F | 5.0F | 4.2F | 4.2F | 2.5 | 2.6 | 3.3 | 4.4 | 4.5 | 4.8 | 4.8 | 5.0 | 4.0 | 4.0 | 4.8 | C | 4.0 | 3.8 | 2.2 | 8.6F | 5.0F | E | E | |
| 27 | E | 3.3 | 4.2 | 3.0 | 2.3 | 2.3 | LfE | 4.2 | 5.0 | 4.6 | 6.6 | 6.8 | 5.5 | 4.1 | LfE | 4.3 | 3.6 | 4.5 | 4.8 | 3.2 | 2.6 | 2.0 | 2.8 | 2.8 | |
| 28 | 3.2 | 2.8 | E | E | E | E | E | 3.1 | 3.2 | 3.5 | 4.8 | C | 7.1 | 4.8 | 4.3 | 5.8 | 7.8F | 6.8 | 4.0 | 4.5 | 3.5 | 7.5 | 6.1 | E | |
| 29 | 2.2 | 5.0F | 3.2F | 5.0 | 4.0 | 2.1 | 3.2 | 4.0 | 4.4 | 8.0 | 3.9 | 5.1 | 4.8 | 3.2B | 5.2B | 5.2 | 6.4 | 4.3 | 8.1 | 3.5 | 5.3 | 4.4 | 3.2 | 3.0 | |
| 30 | E | E | E | E | E | E | E | 3.3 | 4.3 | 4.7 | 4.9 | 4.0 | 4.3 | 4.2 | 4.3 | 4.1 | 6.3 | 6.8 | 6.5 | 5.6 | 8.1 | 7.4 | 5.2 | 4.6 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | E | 2.2 | E | E | E | E | 2.9 | 3.3 | 3.9 | 4.1 | 4.1 | 4.2 | 4.2 | 4.1 | 4.0 | 4.2 | 3.9 | 4.0 | 3.7 | 3.2 | 3.1 | 2.6 | 2.8 | E | |

fEs

Sweep 2.0 Mc in / 5.0 Mc in / 5 min

Manual Automatic

K 3

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

Apr. 1946

M3000/F2

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

M3000/F2

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

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

foF2

May. 1946

| 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 | 7.7 | 8.5 | 8.7 | 7.1 | 6.2 | 7.0J | 8.5 | 8.4 | (9.8)H | 8.5 | 8.8H | 9.7 | 11.2 | 11.3 | 11.0K | 10.7K | 10.4J | 10.7H | 12.1K | 11.0K | 8.1K | 6.5K | 6.7K | 7.1K | |
| 2 | 6.9K | 7.4K | 7.9K | 7.0 | 7.0 | 7.5 | (9.6) | 8.9 | 8.0 | 8.2 | 8.5 | 9.2 | 9.9J | (10.6)H | 12.4 | 12.3 | 12.0 | 10.9H | 10.4 | 9.7 | 7.7K | (8.1)K | (9.5)K | (9.5)K | |
| 3 | 8.0K | 7.8 | 8.0 | 7.4 | 7.0 | 7.5 | 9.0 | 8.3 | 8.0 | 9.4 | 9.5H | 11.3 | 11.8 | 11.8 | 12.3 | 12.4 | 12.08 | (10.9)K | 9.8H | 9.5 | 8.7 | (9.5) | (9.5) | (9.5) | |
| 4 | 9.0 | 8.6 | 8.3 | 7.8 | 7.4 | 8.1 | 9.5 | 9.4 | 8.1B | 8.5B | 9.2 | (9.9) | (10.8)H | (11.5)H | (12.1)H | 12.6 | 11.0H | (10.6)H | 10.8 | (9.6) | A | (9.5) | (9.5) | 8.4F | |
| 5 | 7.9F | 7.8 | 7.3 | 7.3 | 7.2 | 8.2 | 9.5 | 9.7J | 8.7 | 9.3B | 9.4H | 10.9H | 11.5H | 11.1 | 11.2 | 10.1B | 10.4 | 10.0 | 10.8 | (10.5) | 7.8 | 7.4J | 7.5 | 7.3 | |
| 6 | 7.5 | 7.5 | 7.1 | 6.7 | (7.0) | 7.8 | 9.1 | 9.3 | 10.0 | 10.4 | 9.7J | 10.6J | 11.0 | 10.4J | 10.8 | (11.2) | 10.0 | (10.1)K | 10.5 | 11.2H | 7.2 | 6.5H | (6.5)H | 6.7H | |
| 7 | 6.9H | 6.7H | 5.8H | 5.1 | 4.9 | 6.2 | 7.3 | 6.5K | 5.5K | 8.6S | KB(9) | KB(9) | KB(9) | 5.8K | 5.8K | 6.1K | 5 | 7.1K | 6.6K | 4.7K | 7.5K | A | (6.5)K | | |
| 8 | (6.1)J | (5.7)K | 5.6J | 5.0K | (4.7)J | 5.2 | 7.0 | 7.9 | 9.1 | 9.3B | 9.4B | 10.7B | 10.9B | 10.7B | 11.3B | 12.2H | A | A | A | 8.8 | 7.2 | 7.0 | (7.0)H | 6.6FH | |
| 9 | 7.1HF | 6.4F | 5.7F | 4.7F | 4.9F | 6.1 | 8.3 | 9.1H | 9.3 | 9.0 | 10.4 | 10.4 | 11.2 | 10.7B | 10.3 | 9.1 | 9.0H | 9.0H | 9.0H | 10.5 | 7.3H | 7.7H | 7.5 | 7.3H | |
| 10 | 6.7H | 6.1H | 7.0H | (5.6)J | (4.4)J | 4.3K | 5.1HK | 5.3HK | 5.3JK | 6.4K | 6.2K | 6.9J | 7.6K | 7.5K | 8.3K | 8.1K | 7.1K | 6.9H | 8.6K | 8.8K | 7.9K | 6.9K | 7.1F | (7.3)K | |
| 11 | 7.4J | 7.0J | (6.5)K | 5.8K | (6.7)K | 6.8 | 7.0 | 7.3H | 8.6 | A | 9.9H | 9.9 | 11.6 | 11.2 | 10.5 | 10.7 | 11.0H | 10.6 | 10.6 | 8.8 | 8.8 | 8.7 | 8.7 | 7.9 | |
| 12 | 8.4 | 7.3 | 7.4 | 7.0 | 6.0 | 6.4 | 7.3 | 7.5H | 8.3H | 9.3 | 10.2 | 9.5 | 10.0 | 10.5 | 10.8 | 9.9 | (9.8) | 9.3J | 9.0 | 8.5 | 7.1 | (8.1)K | (9.0)K | 8.5K | |
| 13 | (8.2)K | 7.6K | 6.9K | 6.6 | 5.7 | 5.8 | 7.2 | 8.5 | (8.6) | 8.6H | 8.7 | 9.0 | (9.1) | 10.3 | 10.5 | 10.0 | 9.0 | 8.1 | 8.1 | 8.0 | 7.3 | 7.3 | 7.5 | 7.4 | |
| 14 | 7.1 | 6.5 | 6.2 | 6.0 | 6.0 | 6.3 | 7.1 | 8.0 | 8.2 | 8.5H | (9.4) | 10.7 | 10.9 | 11.2 | (11.3)K | 11.4 | 10.4H | 10.2H | 9.1H | 8.3 | 7.4 | 7.8H | 8.4 | 8.3 | |
| 15 | 7.9 | 7.7H | 7.0 | 6.6 | 6.3 | 6.5 | 8.3 | 8.9 | 9.0 | 7.9H | 8.6 | 9.3 | 10.2 | (10.3) | 10.5 | 10.2 | 10.0 | 9.8J | 9.5 | 8.8 | 7.9 | 7.1 | (7.6) | (7.3) | |
| 16 | 7.1 | (7.2) | 7.0 | 6.5 | 5.9 | 6.3 | 7.4H | 8.0H | 7.5 | 7.2 | 8.3 | 9.3 | 9.3H | 9.7 | 8.6 | 8.3H | 8.6 | 8.6 | 8.4 | (9.8) | 7.1 | 6.0K | AK | 9.5K | |
| 17 | 6.6J | (7.6)J | 6.4J | (6.3)J | (6.0)J | (6.3)K | 7.7 | 7.0H | 8.3H | A | A | A | A | 9.0 | 9.1H | 8.8 | 9.6 | 9.0H | 9.3 | 9.5 | (9.0)K | 8.4K | 6.8J | (5.0)K | |
| 18 | 6.0K | 7.1K | 6.2K | 6.1K | (5.3)K | 5.4K | 6.4K | 6.5 | 9.3H | AK | AK | 6.9K | 7.8K | 7.7K | 6.8K | 7.1K | 7.3K | 7.3K | 6.9K | 6.9K | (6.8)K | 7.4J | 7.4J | 6.5K | |
| 19 | 7.0J | 7.3J | 6.6J | (6.0)J | 5.4J | 6.2F | 7.9 | 7.5 | 7.5 | 7.4 | 7.9 | 9.5 | 9.8 | 9.5 | 9.5 | 9.2 | 8.6 | A | A | 8.4 | 7.2 | 8.0F | (7.7)H | 7.7H | |
| 20 | 7.3 | 7.0H | 5.9H | 6.5H | 6.3 | 7.2 | 7.5 | 7.5 | 7.4 | 7.1 | 7.0 | 7.8 | 8.7 | 9.2 | 10.4 | 11.3 | 10.4 | 9.0 | (8.6)F | 8.1 | 7.9J | 7.3J | 7.9J | 8.0J | |
| 21 | 7.8J | (7.8)J | 7.7J | 7.2J | 6.5K | 6.2 | 7.0 | 8.8 | 9.5 | 8.7K | 9.3 | 10.3 | 10.3 | 10.3 | 11.2 | 11.0 | 9.6 | 8.8K | 7.4K | AK | 8.4K | 8.2J | 8.8J | 8.5K | |
| 22 | (8.5)J | 7.2K | 7.6K | 6.8K | 5.9J | 6.0K | 5.6K | 8.2K | (8.4)J | (8.0)J | 6.7J | 8.1 | 9.1 | 9.2 | 9.0 | 8.5H | 8.2 | 10.0H | 9.5 | 8.9H | 7.0 | 7.4 | (7.2)K | 6.2K | |
| 23 | (8.4)K | 8.4K | 7.1K | 4.3K | 5.3K | 7.9K | 6.8K | 8.3K | 10.5K | AK | AK | AK | AK | AK | C | C | 6.1K | 6.0K | 6.1K | 7.1K | 7.8H | 7.5H | 7.7F | 7.7 | |
| 24 | 7.5 | 7.1 | 6.5F | 6.0F | 6.1F | 6.0F | 6.4 | 6.9 | 7.3 | 7.0H | 7.1H | 9.4 | 9.5H | 11.1H | 9.1 | 9.2 | 10.8 | 9.6J | 9.2 | 9.0 | 8.9 | 8.9 | 9.3 | (8.8)J | |
| 25 | 9.1J | 8.5 | 8.5 | 6.9 | 7.3 | 6.8 | 6.6 | 6.8 | 7.1 | 8.0 | 9.1S | 9.7 | 10.8 | 11.3 | 12.0 | 10.7 | 10.8 | 9.8 | 9.2 | 9.8H | 8.5 | 8.2 | 8.9H | 8.5H | |
| 26 | 8.7 | 8.1 | 8.5 | 8.2 | 7.8 | 6.6H | 8.5 | 8.0 | 7.4 | 7.9 | A | 8.4 | 9.3 | 9.3 | 9.3H | 10.2 | (9.9)K | 9.5 | 8.3 | 8.2 | 8.8 | 8.4H | 8.3 | 8.1 | |
| 27 | 7.8 | 8.4 | 7.2 | 6.8 | 6.7 | 7.9 | 9.0 | 9.2 | 8.2 | 8.5 | 9.1 | 9.4 | 10.7 | 10.1 | 11.1 | 11.2 | 10.4 | 9.3 | 9.3 | 8.9 | 9.4 | 8.8 | 9.0 | C | |
| 28 | C | C | C | C | C | C | C | C | 8.4 | (8.7)A | (9.1)K | 9.5 | (10.2)K | 10.8 | 12.0 | 11.7 | 11.1 | 11.2 | 9.2S | 11.1 | (9.7)J | 9.1 | 8.9 | 8.9J | |
| 29 | 9.6K | (8.6)K | 7.2F | 6.7F | 6.4 | 7.8 | 7.7 | 7.5 | 8.0 | 8.9 | 8.7 | 9.3 | 11.2 | 11.1 | 11.9 | (12.0) | 11.4 | 11.8J | 11.0 | 9.7S | 9.0J | 9.3K | 8.9K | (8.9)K | |
| 30 | 8.6K | 8.3K | 8.4J | 8.3J | 6.9 | 6.8 | (8.1)A | (9.3) | 7.3J | 8.2H | 8.4 | 9.5 | 8.8 | 9.2 | 9.1 | 9.0 | 9.8 | (9.7)H | (9.6)A | (9.5)F | (8.7)A | 8.0 | 7.9 | 8.4F | |
| 31 | 8.6F | 8.5F | 8.2 | 8.1K | 8.6FK | 9.2 | 8.3 | 8.3 | 9.1 | 8.4 | 8.3 | 8.6 | 9.7 | 10.1 | 9.5 | 9.3 | 9.5 | 9.6 | (10.9) | (9.8)A | 8.9S | 8.1 | 8.8 | 8.8 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 7.8 | 7.6 | 7.2 | 6.7 | 6.3 | 6.6 | 7.6 | 8.1 | 8.3 | 8.5 | 8.8 | 9.5 | 10.2 | 10.3 | 10.5 | 10.2 | 9.9 | 9.6 | 9.3 | 9.0 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| Count | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 31 | 27 | 26 | 29 | 29 | 30 | 30 | 30 | 30 | 29 | 29 | 30 | 30 | 30 | 27 | 29 | 29 |

foF2

Sweep 2.0 Mc to 15.0 Mc in 1.5 min

Manual Automatic

K 1

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

May, 1946

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 | 380 | 320 | 300 | 260 | 255 | 280 | 220 | 230 | 280 | 250 | 270 | 300 | 300 | 290 | 280 | 280 | 280 | 290 | (270) | A | 230 | 240 | 250 | 300 | |
| 2 | 300 | 320 | 290 | 270 | (260) | 280 | 220 | 220 | 230 | 250 | 270 | 340 | 320 | 330 | 330 | 270 | 280 | 250 | 250 | (230)A | A | (300)A | A | 280 | |
| 3 | 270 | 220 | 230 | 250 | 240 | 240 | 200 | 220 | 230 | 230 | 290 | 300 | 290 | 290 | 270 | 270 | (280) | (250) | 230 | 320 | 300 | 300 | 290 | 260 | |
| 4 | 250 | 260 | 275 | 250 | (240) | 250 | 210 | 220 | 210 | 280 | 310 | 280 | A | 350 | 320 | 310 | 300 | A | 250 | 250 | A | A | A | 240 | |
| 5 | (250) | 290 | 300 | 300 | 280 | 270 | 260 | 255 | 240 | 300 | 270 | 260 | 290 | 280 | 270 | (270) | A | 270 | 250 | 230 | 200 | 230 | 280 | 300 | |
| 6 | 320 | 300 | 290 | (250) | 300 | 280 | 230 | 220 | 260 | 250 | 270 | 230 | 270 | 290 | 290 | 250 | 240 | C | 270 | 240 | A | (220)A | A | (310)F | |
| 7 | 280 | 230 | 200 | (240) | 270 | 270 | 220 | 340 | (400) | 170 | B(4) | A(4) | A(4) | 530 | 530 | 470 | 4 | 310 | 300 | 210 | 300 | (280)A | A | A | |
| 8 | (310)F | (250) | A | 270 | (290)F | 270 | 240 | 260 | 250 | 260 | (340)A | 260 | 280 | 290 | 280 | (210)A | A | A | A | (210)F | (290)F | (300)F | 280 | (290)A | |
| 9 | 300 | 270 | 230 | 240 | 300 | A | A | 240 | 270 | A | A | 320 | 270 | 280 | 260 | 250 | 250 | (220)A | 230 | 300 | A | 300 | 300 | 280 | |
| 10 | 290 | 280 | A | A | A | 320 | 410 | 450 | 600 | 360 | 440 | A | 210 | 260 | 240 | (220)A | A | A | 260 | 250 | 190 | F | F | (330)F | |
| 11 | 300 | 280 | (230) | 250 | 240 | 200 | 220 | 220 | 240 | A | 250 | 270 | 290 | 280 | 270 | 330 | (270)F | 260 | 270 | (240) | 290 | 310 | (250) | F | |
| 12 | F | (300)F | (280)F | (260)F | 320 | (300)A | 230 | 230 | 230 | A | 300 | 300 | 330 | 320 | 290 | 290 | 300 | 260 | 260 | 250 | 250 | (390)A | (360)A | 300 | |
| 13 | 300 | (290) | 280 | 260 | 300 | 310 | 290 | 290 | 320 | 310 | 270 | 300 | 370 | 310 | 300 | 300 | 250 | 250 | 260 | 280 | 290 | 310 | 310 | 280 | |
| 14 | 260 | 300 | (360) | 320 | 280 | 290 | 270 | A | 340 | 300 | 340 | 350 | 310 | 310 | C | 310 | 290 | 280 | 280 | (280) | A | A | (360)F | 320 | |
| 15 | 310 | 310 | 280 | (270) | (270) | 290 | 280 | 280 | (280)A | 270 | (300)A | 330 | 310 | (330)A | 310 | 300 | 280 | 290 | 280 | 250 | 250 | 240 | 350 | 340 | |
| 16 | 320 | 330 | 310 | 280 | 280 | 280 | 280 | 280 | 270 | 260 | (300)A | 300 | 290 | 270 | 310 | 260 | 290 | 290 | 290 | 270 | (270) | 300 | 340 | (290) | |
| 17 | 320 | 300 | 300 | 250 | 320 | 250 | 210 | 250 | 250 | A | A | A | A | (320)A | 340 | 310 | 290 | 240 | 290 | 270 | (270) | 300 | 340 | (290) | |
| 18 | 310 | (320) | (300)A | A | (330) | A | 260 | A | 270 | A | A | A | A | 340 | A | 350 | 350 | 300 | (260)A | 270 | 250 | A | 330 | 340 | |
| 19 | 330 | 360 | 260 | A | (350) | 300 | 260 | 230 | A | A | 300 | 290 | 290 | 290 | 300 | 280 | 250 | A | A | A | 260 | 280 | (330) | A | |
| 20 | 340 | 320 | 310 | 300 | 310 | 300 | 310 | 260 | 260 | 250 | 410 | 390 | 370 | (350)A | 330 | A | A | 240 | F | (300)F | F | F | (340)F | | |
| 21 | 290 | (300) | 290 | 250 | 250 | 260 | 230 | 280 | 260 | A | 380 | 330 | 330 | 310 | 320 | 270 | 270 | A | A | A | 370 | 410 | 320 | 340 | |
| 22 | 310 | (350) | 380 | 330 | 310 | 320 | 380 | 260 | 250 | 240 | A | 360 | 340 | 350 | 310 | 250 | 350 | 330 | 300 | 250 | (250) | 280 | A | A | |
| 23 | A | 250 | 200 | (240) | A | 250 | 300 | (300)A | 210 | A | A | A | A | A | C | C | (350) | 360 | 380 | 320 | 320 | 350 | 340 | 370 | |
| 24 | 340 | (320) | (320) | (340) | 360 | 280 | 340 | 290 | (240)A | 280 | A | 310 | 280 | 260 | (280)A | (280)A | 260 | 220 | A | 280 | (290) | (300)F | (320)F | 330 | |
| 25 | 270 | 250 | 280 | 290 | 280 | 280 | 260 | 210 | (240)A | 280 | A | 310 | 310 | 280 | A | 300 | C | (250)A | A | 220 | 240 | 290 | (320)F | 290 | |
| 26 | 300 | 280 | 290 | 300 | 270 | 220 | 230 | 230 | A | 280 | A | 310 | 290 | 280 | 260 | 250 | 260 | 240 | C | (250)A | A | 240 | 230 | 280 | |
| 27 | (280) | 260 | 230 | 280 | 300 | 250 | 260 | 250 | C | A | 290 | C | (340)C | 320 | 320 | 330 | 350 | (270)A | (230)A | 220 | 230 | (210) | 260 | (320)A | |
| 28 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 29 | (340)A | 230 | 280 | 260 | 270 | 230 | 220 | 220 | (220)A | 230 | 230 | 280 | 280 | 290 | 300 | (250)A | 280 | 270 | 260 | (240)F | (280)A | (280)A | (280)A | (280)A | |
| 30 | 300 | 280 | 270 | 250 | 200 | 250 | (240)A | (220)A | 190 | (240)A | 280 | 270 | 260 | 270 | (280)F | 270 | 280 | A | A | A | A | A | 290 | 270 | |
| 31 | 280 | 270 | 250 | 250 | (230)F | (230)A | (230)A | 240 | 280 | 230 | (270)A | (290)A | 300 | 300 | (270)A | (320)A | 300 | (300)A | A | A | A | A | A | (300)A | 260 |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 300 | 290 | 260 | 280 | 280 | 280 | 250 | 250 | 260 | 260 | 300 | 300 | 290 | 290 | 290 | 280 | 280 | 270 | 260 | 250 | 260 | 260 | 290 | 300 | 300 |
| Count | 28 | 28 | 27 | 28 | 28 | 28 | 29 | 28 | 28 | 21 | 22 | 26 | 27 | 30 | 27 | 29 | 25 | 24 | 22 | 25 | 23 | 25 | 23 | 25 | 25 |

R'F2

Sweep 2.0 Mc to 4.0 Mc in /s min Manual Automatic

IONOSPHERIC DATA

Kokubunji Tokyo

Lat. 35° 42.4' N
Long. 139° 29.3' E

May. 1946

foF1

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|------------|----|----|----|----|------|-------|------|-------|------|------|--------|-------|--------|--------|--------|------|------|------|------|----|----|----|----|----|
| 1 | L | L | L | L | L | L | L | L | L | 4.8 | L | 5.2 | 5.5 | 5.6 | 5.4 | 5.5 | A | L | A | | | | | |
| 2 | | | | | 1.7J | L | L | L | L | 5.0 | L | A | A | L | L | 5.8B | L | A | 2.6J | | | | | |
| 3 | | | | | L | L | L | L | A | 5.0 | 6.5K | 5.8K | 5.9K | 6.2K | A | A | B | A | L | | | | | |
| 4 | | | | | L | L | L | L | B | L | 6.1 | A | L | C | 5.7 | 5.5 | 5.4 | A | A | | | | | |
| 5 | | | | | L | L | L | L | L | L | L | L | L | 5.5 | 5.8 | B | L | 3.5 | L | | | | | |
| 6 | | | | | L | (2.9) | 4.0 | L | L | A | L | 5.3 | L | L | 5.3 | 5.1 | 5.1 | C | A | | | | | |
| 7 | | | | | L | L | 4.4K | 4.5K | A | B | A | A | A | 4.8K | 4.9 | 4.6K | 4.2K | L | L | | | | | |
| 8 | | | | | L | L | 4.2 | L | L | L | A | A | A | 5.6B | L | A | A | A | A | | | | | |
| 9 | | | | | A | A | A | A | A | A | A | A | A | B | (5.7)J | B | L | A | A | | | | | |
| 10 | | | | | L | 4.0K | 4.0K | 4.8K | 5.0K | 5.0K | A | 5.8K | (5.3)J | 5.3J | A | A | A | A | A | | | | | |
| 11 | | | | | L | L | L | (4.5) | A | A | 5.4 | 5.5 | 5.5 | 5.3 | A | L | L | A | L | | | | | |
| 12 | | | | | L | L | L | L | A | 5.1 | L | 5.4 | L | L | L | A | A | A | A | | | | | |
| 13 | | | | | L | L | L | 4.6 | 5.1 | L | 5.0J | 5.2 | 5.6 | (5.1)B | 5.0 | 4.9B | A | A | A | | | | | |
| 14 | | | | | L | L | A | A | 5.0 | A | L | L | 5.2 | L | C | 5.3B | L | A | A | | | | | |
| 15 | | | | | L | L | A | A | A | A | A | 5.5 | A | A | A | 5.0 | 5.2 | 5.0H | A | A | | | | |
| 16 | | | | | L | L | A | A | 5.0 | 5.2 | A | A | 5.4H | 5.2 | 5.2 | L | L | A | F | | | | | |
| 17 | | | | | A | A | A | A | A | A | A | A | A | A | 5.2B | 4.8 | A | A | A | | | | | |
| 18 | | | | | A | A | A | A | A | A | A | A | A | 5.2H | A | 4.9H | 5.1H | A | A | | | | | |
| 19 | | | | | L | L | L | L | A | A | A | 5.4 | 5.6 | L | 5.2 | 5.2 | L | A | A | | | | | |
| 20 | | | | | L | L | L | A | L | 5.6 | 5.6 | 5.5 | 5.3B | A | A | A | A | A | A | | | | | |
| 21 | | | | | L | L | L | A | 5.0 | A | 6.3K | 5.6 | 5.6 | 5.4 | 5.4 | 5.4 | L | A | L | | | | | |
| 22 | | | | | A | 4.2 | L | L | L | A | A | 5.4 | 5.4B | 5.5 | 5.2 | L | 4.8 | L | 3.4 | | | | | |
| 23 | | | | | A | A | A | A | A | A | A | A | A | A | C | C | C | A | L | | | | | |
| 24 | | | | | L | 4.4 | A | 5.0 | L | L | (5.8)B | 5.5 | 5.4 | B | 5.1B | 5.0B | 4.5B | L | | | | | | |
| 25 | | | | | L | L | A | A | A | A | A | 6.2 | 5.7 | A | A | A | A | A | A | | | | | |
| 26 | | | | | L | L | A | A | A | 5.5 | A | 5.4 | 5.9 | A | A | 5.4 | C | A | A | | | | | |
| 27 | | | | | L | L | A | A | A | A | 6.2 | A | 6.0 | 5.8B | 5.7 | 5.4 | A | A | A | | | | | |
| 28 | | | | | C | C | C | A | A | A | C | 6.2 | C | B | 5.6B | B | A | A | A | | | | | |
| 29 | | | | | L | L | L | A | A | 5.1 | 5.5 | 6.2 | 5.7J | A | A | A | A | A | A | | | | | |
| 30 | | | | | L | A | A | A | A | L | 5.6 | L | L | A | A | A | A | A | A | | | | | |
| 31 | | | | | L | L | A | L | A | A | A | (5.7) | 5.6 | A | A | A | A | A | A | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | | | | | | | | | | | | | | | | | | | | | | | | |

foF1

Sweep 2.0 Mc to 1.5 Mc in 1.5 min

Manual Automatic

K 3

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

IONOSPHERIC DATA

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

May. 1946

R'F1

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|------------|----|----|----|----|----|-----|-----|--------|--------|--------|--------|--------|--------|-----|--------|-------|-----|-----|-----|----|----|----|----|----|
| 1 | | | | | | 270 | 220 | (220)A | A | 210 | 210 | 200 | 220 | 200 | (220)A | 250 | A | A | A | | | | | |
| 2 | | | | | | 280 | 220 | 220 | 210 | (210)A | A | A | A | A | A | 210 | 200 | A | A | | | | | |
| 3 | | | | | | 230 | F | 200 | A | 160 | 200 | 200 | A | A | A | A | B | A | A | | | | | |
| 4 | | | | | | 240 | A | A | B | (230)A | (230)A | A | A | 240 | (240)A | (250) | 260 | A | A | | | | | |
| 5 | | | | | | 250 | 230 | (230)A | 220 | 220 | 190 | B | (200) | 210 | A | B | A | 230 | A | | | | | |
| 6 | | | | | | 270 | 230 | A | A | A | 200 | (180) | (180) | 250 | 170 | 210 | 220 | A | A | | | | | |
| 7 | | | | | | 260 | 200 | 210 | A | A | A | A | B | 220 | (230)B | 260 | 370 | 260 | A | | | | | |
| 8 | | | | | | 260 | 230 | 220 | 210 | A | A | A | A | A | A | A | A | A | A | | | | | |
| 9 | | | | | | A | A | A | A | A | A | A | A | B | 210 | A | 180 | A | A | | | | | |
| 10 | | | | | | E | 270 | A | A | (210)A | A | A | 210 | A | A | A | A | A | A | | | | | |
| 11 | | | | | | A | 220 | 220 | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 12 | | | | | | A | 230 | 230 | 220 | A | 200 | 200 | 210 | A | A | A | A | 250 | A | | | | | |
| 13 | | | | | | 280 | 250 | 250 | (200) | 200 | 180 | 200 | A | 220 | 210 | (210) | A | A | A | | | | | |
| 14 | | | | | | A | 260 | A | 260 | A | A | A | A | 230 | A | 250 | A | A | A | | | | | |
| 15 | | | | | | 270 | 250 | 240 | A | A | A | A | A | A | (220)A | 160 | 220 | A | 270 | | | | | |
| 16 | | | | | | 260 | 250 | A | 210 | 210 | A | A | 210 | 220 | 200 | B | 210 | 200 | A | | | | | |
| 17 | | | | | | A | A | A | A | A | A | A | A | A | B | 200 | A | A | A | | | | | |
| 18 | | | | | | A | A | A | A | A | A | A | A | 260 | A | 210 | 230 | A | A | | | | | |
| 19 | | | | | | 260 | 250 | A | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 20 | | | | | | 280 | 230 | A | 240 | 250 | A | A | B | A | A | A | A | A | A | | | | | |
| 21 | | | | | | 240 | 230 | A | A | A | 200 | A | 200 | 210 | A | A | A | A | A | | | | | |
| 22 | | | | | | A | 270 | A | A | A | A | A | (240)A | 240 | 230 | A | 250 | 250 | 280 | | | | | |
| 23 | | | | | | A | A | A | A | A | A | C | C | C | C | C | C | C | A | | | | | |
| 24 | | | | | | 280 | 230 | A | 240 | A | A | A | A | A | (210)A | A | A | 240 | A | | | | | |
| 25 | | | | | | 260 | 220 | A | A | A | A | 190 | A | A | A | A | A | A | A | | | | | |
| 26 | | | | | | 220 | 230 | A | A | 200 | A | A | A | A | A | A | C | A | A | | | | | |
| 27 | | | | | | 230 | 230 | A | A | A | 170 | A | A | A | A | A | A | A | A | | | | | |
| 28 | | | | | | C | C | C | C | C | (210)A | C | C | A | A | A | A | A | A | | | | | |
| 29 | | | | | | 230 | A | 210 | (180)A | 150 | 180 | 200 | A | A | A | A | A | A | A | | | | | |
| 30 | | | | | | 220 | A | A | A | A | 170 | (190)A | A | A | A | A | A | A | A | | | | | |
| 31 | | | | | | A | A | A | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Value | | | | | | 260 | 230 | 220 | 220 | 210 | 200 | 200 | 210 | 220 | 220 | 210 | 220 | 240 | * | | | | | |
| Value | | | | | | 20 | 21 | 12 | 10 | 11 | 11 | 9 | 8 | 13 | 9 | 10 | 9 | 5 | 2 | | | | | |
| Count | | | | | | | | | | | | | | | | | | | | | | | | |

R'F1

Sheep 2-9 Mc to 1.5 Mc in 1.5 min

Manual

Automatic

K4

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

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

foE

May. 1946

| 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 | | | | | | 1.7J | 2.0J | 3.0 | A | A | (3.6) | A | (3.6) | (3.5) | (3.5) | (3.2) | A | (2.3)J | (1.5)J | | | | | |
| 2 | | | | | | E | A | A | A | A | A | A | A | A | A | B | B | (2.4)J | (1.8)J | | | | | |
| 3 | | | | | | E | (2.3) | 3.1 | 3.2 | 3.8 | 3.8 | 3.9 | A | A | A | A | B | A | A | | | | | |
| 4 | | | | | | 1.4J | 2.4 | A | B | A | (3.9) | A | A | A | A | A | 3.6 | A | A | | | | | |
| 5 | | | | | | 1.5J | 1.9J | A | A | A | A | B | B | A | A | 3.9 | B | (3.7) | A | A | | | | |
| 6 | | | | | | E | 1.7J | A | A | A | A | A | A | A | A | 3.5 | A | A | A | | | | | |
| 7 | | | | | | 1.7J | 2.1 | 3.0 | 3.5 | A | A | A | A | B | B | 2.9J | B | 1.9J | 1.9J | | | | | |
| 8 | | | | | | 1.7J | A | 2.9 | 3.3 | (3.6)B | A | B | B | B | B | 3.8K | A | A | A | | | | | |
| 9 | | | | | | A | A | 3.2 | 3.8K | A | A | A | A | B | 3.8 | 3.0J | AH | A | A | | | | | |
| 10 | | | | | | A | A | 3.0 | A | (3.6) | 3.8 | (3.9) | (3.9)H | B | A | A | A | 2.9 | 2.6 | | | | | |
| 11 | | | | | | A | 2.4JH | 2.8H | A | A | A | A | 3.9 | A | A | A | 2.8J | A | 2.4 | | | | | |
| 12 | | | | | | A | 2.5 | 3.1 | 3.5 | 3.7 | 3.8 | 3.7 | (3.9) | A | (3.4) | (3.2) | B | 2.4J | 2.4 | | | | | |
| 13 | | | | | | 1.6J | 2.4 | 2.9 | 3.2 | A | 3.9 | A | A | A | A | A | 2.6J | 2.2J | 1.6J | | | | | |
| 14 | | | | | | (1.6)J | 2.2 | A | 3.2 | A | A | A | A | 3.4 | C | 3.4 | A | A | A | | | | | |
| 15 | | | | | | 1.7J | 2.2 | 2.8 | 3.2 | A | A | A | A | A | A | 3.4 | 3.4 | 2.2 | A | | | | | |
| 16 | | | | | | 1.7J | 2.2J | 2.9 | 3.1 | 3.7 | A | A | 3.4 | 3.4 | 3.6 | A | 2.6 | A | A | | | | | |
| 17 | | | | | | A | A | A | 3.0 | A | 3.6 | 3.5 | A | 3.4 | B | 3.2J | A | A | A | | | | | |
| 18 | | | | | | A | A | 2.8 | 3.3 | 3.6 | A | A | 3.9 | 3.8 | 3.7 | 3.0 | | 2.4J | 1.8J | | | | | |
| 19 | | | | | | 1.4J | 2.2J | A | 3.3 | 3.6 | 3.8 | (3.8) | 3.9 | 3.6 | A | 3.2J | A | A | 1.7J | | | | | |
| 20 | | | | | | (1.8)J | 2.5 | A | 3.0 | 3.2 | 3.6J | 3.7 | (3.8) | (3.5) | 3.8 | 3.4 | A | A | A | | | | | |
| 21 | | | | | | 1.9J | 2.5 | A | 3.1 | A | 3.9 | 3.9J | 4.0 | 3.8 | A | A | A | 2.3J | A | | | | | |
| 22 | | | | | | A | 2.5 | 3.0 | 3.4 | 3.5 | A | A | B | 3.4B | 3.6B | A | 3.1J | 2.5 | 1.6J | | | | | |
| 23 | | | | | | A | 3.0J | 3.1 | 3.5 | A | C | C | C | C | C | C | C | 1.9J | A | | | | | |
| 24 | | | | | | 2.0 | 2.6 | 2.8 | 3.0 | 3.3 | AB | AB | AB | AB | B | B | B | B | 2.3J | A | | | | |
| 25 | | | | | | 1.9J | 2.3J | A | 3.5 | 3.7 | 3.8 | A | A | A | (3.5) | 2.9 | A | 2.7J | A | | | | | |
| 26 | | | | | | 2.2J | 2.6 | 3.1 | 3.2 | 3.4 | A | AB | B | A | AB | A | A | 2.2J | A | | | | | |
| 27 | | | | | | 2.0J | 2.4 | 3.0 | 3.4 | A | AB | AB | B | B | AB | A | A | A | A | | | | | |
| 28 | | | | | | C | C | C | 3.5 | B | C | 3.9B | C | A | 3.6B | A | 2.5J | 2.3J | A | | | | | |
| 29 | | | | | | 1.9J | A | 3.2 | 3.5 | 3.9 | 4.3J | 3.9J | B | B | B | A | A | A | A | | | | | |
| 30 | | | | | | A | 2.6 | A | 3.4 | A | 3.9 ^B | 3.5B | 3.9B | 3.9B | 3.5 | A | A | 2.4J | 1.7J | | | | | |
| 31 | | | | | | A | 2.6 | 2.8 | 3.3 | AB | (3.7)B | AB | AB | 3.6B | AB | A | A | 2.9 | 2.3 | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | 1.7 | 2.4 | 3.0 | 3.3 | 3.6 | 3.8 | 3.8 | 3.9 | 3.6 | 3.6 | 3.2 | 2.8 | 2.3 | 1.8 | | | | | |
| Count | | | | | | 17 | 22 | 19 | 2.4 | 14 | 14 | 11 | 10 | 11 | 12 | 12 | 9 | 17 | 12 | | | | | |

foE

Sweep 2.0 Mc to 5.0 Mc in 1.5 min

Manual Automatic

K 5

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

IONOSPHERIC DATA

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

135° E Mean Time

May. 1946

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 | | | | | | E | 120 | 120 | 110 | 110 | 110 | 110 | 110 | 120 | 110 | 120 | 110 | 120 | E | | | | | | |
| 2 | | | | | | E | 130 | 110 | 100 | 110 | 110 | 120 | 110 | 110 | 100 | 100 | 100 | 110 | E | | | | | | |
| 3 | | | | | | E | 100 | 110 | 110 | 100 | 110 | 110 | 100 | 100 | 100 | 100 | B | (110) | E | | | | | | |
| 4 | | | | | | E | (100) | 110 | 100 | 100 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | E | | | | | | |
| 5 | | | | | | E | (110) | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | E | | | | | | |
| 6 | | | | | | E | E | 110 | (100) | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 110 | C | E | | | | | | |
| 7 | | | | | | E | (90) | 100 | 100 | 90 | 100 | 110 | 120 | B | B | 110 | 120 | 120 | E | | | | | | |
| 8 | | | | | | E | 100 | 120 | 110 | 110 | 100 | (100)B | 100 | (100)B | 110 | 100 | 100 | 100 | E | | | | | | |
| 9 | | | | | | E | 100 | 110 | 110 | 100 | 100 | 100 | 100 | B | 110 | 110 | 110 | 110 | E | | | | | | |
| 10 | | | | | | E | E | (100) | 110 | 100 | 100 | 100 | 100 | (100)B | 90 | 100 | 100 | 110 | E | | | | | | |
| 11 | | | | | | E | E | 110 | (100)B | 100 | 100 | 100 | 100 | 100 | 100 | 120 | 110 | 110 | E | | | | | | |
| 12 | | | | | | E | 110 | 110 | 110 | 110 | 110 | 110 | 100 | 110 | 110 | 120 | B | 130 | E | | | | | | |
| 13 | | | | | | E | (130) | 120 | 120 | 110 | 110 | 110 | 110 | B | (110) | 100 | 110 | (110) | E | | | | | | |
| 14 | | | | | | E | (130) | (130) | 130 | 120 | 120 | 110 | 120 | 100 | 120 | 130 | 130 | 120 | E | | | | | | |
| 15 | | | | | | E | (40) | 110 | 110 | 110 | 120 | 110 | (110)B | 120 | 110 | 100 | 100 | 120 | E | | | | | | |
| 16 | | | | | | E | (40) | 120 | 110 | 110 | 100 | 100 | 110 | 100 | 100 | (120)B | 100 | 110 | E | | | | | | |
| 17 | | | | | | E | E | 120 | 110 | 110 | 110 | 110 | 100 | 110 | 120 | 110 | 110 | 110 | E | | | | | | |
| 18 | | | | | | E | 120 | 110 | 120 | 100 | 100 | 100 | 100 | 110 | 100 | 100 | 100 | 100 | E | | | | | | |
| 19 | | | | | | E | 120 | 120 | 120 | 110 | 100 | 100 | 100 | 100 | 100 | 110 | 110 | 120 | E | | | | | | |
| 20 | | | | | | E | 110 | 110 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 110 | E | | | | | | |
| 21 | | | | | | E | (110) | 110 | 110 | 110 | 100 | 100 | 100 | 100 | 100 | 110 | 90 | 100 | E | | | | | | |
| 22 | | | | | | E | E | 120 | 120 | 130 | 120 | 120 | 120 | 130 | 120 | 120 | 120 | 120 | E | | | | | | |
| 23 | | | | | | E | 120 | 120 | 120 | 100 | 110 | C | C | C | C | C | C | 120 | E | | | | | | |
| 24 | | | | | | E | 120 | 120 | 120 | 120 | (110)B | (120)B | (110)B | B | B | B | B | 110 | E | | | | | | |
| 25 | | | | | | E | E | 110 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 110 | 110 | E | | | | | | |
| 26 | | | | | | E | 120 | 110 | 100 | 100 | 100 | 100 | B | 100 | 100 | 100 | C | 100 | E | | | | | | |
| 27 | | | | | | E | 110 | 100 | 110 | 90 | 100 | 100 | B | B | 100 | 90 | 100 | 90 | E | | | | | | |
| 28 | | | | | | E | C | C | C | 110 | (110)C | 110 | (110)C | 100 | 110 | 100 | 110 | 120 | E | | | | | | |
| 29 | | | | | | E | 120 | 110 | 110 | 110 | 100 | 100 | (100)B | (100)B | (100)B | 100 | 100 | 100 | E | | | | | | |
| 30 | | | | | | E | 100 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 110 | E | | | | | | |
| 31 | | | | | | E | (110) | 110 | 100 | 110 | 100 | 100 | 100 | 110 | 110 | 100 | 100 | 120 | E | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | * | 110 | 110 | 110 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 110 | 110 | * | | | | | | |
| Count | | | | | | 0 | 30 | 30 | 30 | 31 | 31 | 30 | 28 | 25 | 28 | 29 | 26 | 30 | 0 | | | | | | |

f'E

Sweep 2.2 Mc to 2.6 Mc in 1 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

May. 1946

135° E Mean Time

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 | 4.0 | 3.6 | 2.8 | 3.1 | 2.3 | 2.4 | 2.9 | 4.3 | 3.6 | 5.0 | 4.2F | 4.3 | 4.0 | 4.5 | 4.7E | 4.7E | 5.3 | 5.2 | 6.5 | 11.3 | 4.2 | 3.6 | 2.4 | 2.4 | 2.4 | |
| 2 | E | E | E | 2.9 | E | 2.5 | 2.6 | 3.3 | 3.5 | 5.4 | 7.4 | 6.9 | 7.6 | 4.2E | 3.7 | 3.3 | 3.1 | 5.0 | 5.0 | 8.2 | 9.1 | 9.1F | 8.2F | 3.2F | 3.2F | |
| 3 | E | E | E | E | E | 3.2 | 3.3 | 5.0 | 5.6 | 5.6 | 5.0 | 5.4 | 7.2 | 6.9 | 5.8 | 7.8 | 6.2E | C | 3.8 | 4.6 | 6.0 | 4.6 | E | 2.2 | 2.2 | |
| 4 | 2.8 | E | 3.0 | 3.1 | 2.9 | 2.7 | 3.1 | 3.1 | 6.2E | 5.4E | 6.0 | 8.2 | 9.1 | C | 4.9 | 5.0 | 4.9 | 6.4 | 7.8 | 7.8 | 9.2F | 6.5F | 5.0 | 2.9 | 2.9 | |
| 5 | E | E | E | E | 2.8 | 2.3 | 3.1 | 4.1 | 5.2 | 4.2E | 4.2 | 3.2 | 3.8E | 4.1 | 4.0 | 3.0 | 5.5E | 3.4 | 4.8 | 2.6 | 5.3 | 2.4 | E | 2.4 | 2.4 | |
| 6 | 2.8 | 2.6 | E | E | 2.9 | 2.6 | 4.2 | 4.2 | 4.5 | 8.3 | 4.7 | 4.0 | 4.4 | 4.3 | 4.4 | 4.1 | 3.6 | C | 6.3 | 5.2 | 5.0 | 3.8 | 3.9 | 3.3 | 3.3 | |
| 7 | 3.2 | 3.3 | 3.1 | 2.7 | E | 2.7 | 4.4 | 3.8 | 4.4 | 7.3 | 4.0 | 6.2 | 6.3 | B | B | 4.7E | 4.7E | 3.5 | 3.2 | 2.7 | 2.8 | 7.1 | 6.4 | 7.7 | 7.7 | |
| 8 | 2.5 | 4.2 | 5.2 | 3.2 | 4.6 | 2.8 | 3.8 | 4.2 | 5.4 | 5.8 | 6.9 | 8.4E | 6.2E | 4.2E | 4.8E | 8.8 | 12.9 | 13.3 | 12.7 | 7.5F | 6.0F | 5.8F | 4.7F | 4.6F | 4.6F | |
| 9 | 5.2F | 6.5F | 3.3F | 3.3F | 2.8 | 4.8 | 5.2 | 5.5 | 6.9 | 8.8 | 12.1 | 4.2 | 11.2 | 5.5E | 4.2 | 6.2 | 6.2 | 8.4 | 9.4 | 4.5 | 5.0 | 5.1 | 7.2 | 6.9 | 6.9 | |
| 10 | 6.0 | 4.2 | 5.0 | 5.0 | 6.4 | 4.0 | 4.2 | 4.2 | 5.8 | 4.2E | 6.9E | 7.3E | 4.0 | 6.7E | 7.0E | 5.9 | 8.8 | 5.0E | 4.3 | 3.5 | 2.8E | 6.0 | 5.4 | 6.9 | 6.9 | |
| 11 | 4.4 | 5.8 | 4.8 | 2.8 | 4.8E | 4.3 | 6.4E | 5.0 | 6.0E | 4.2 | 9.8 | 7.7 | 6.7E | 10.4 | 5.2 | 5.7E | 6.6E | 4.4 | 3.2 | 3.8 | 3.0 | 3.0 | E | 5.4 | 5.4 | |
| 12 | 5.0 | 3.4 | 2.7 | E | 4.2 | 3.2 | 3.5 | 4.0 | 5.0 | 4.8 | 4.4E | 4.7E | 4.6 | 7.3 | 5.2 | 5.6 | 6.0E | 4.4 | 3.4 | 2.8 | 4.8 | 5.0 | 5.8 | 3.8 | 3.8 | |
| 13 | E | E | E | E | E | E | 3.3 | 4.7 | 4.8 | 4.8 | 4.3 | 4.6 | 4.8E | 4.1E | 4.0E | 3.1 | 4.6 | 6.4 | 5.6 | 6.4 | 5.5F | 3.2F | 2.4 | 2.2 | 2.2 | |
| 14 | E | E | E | E | E | E | 3.4 | 5.2 | 5.2 | 6.6 | 4.2 | 4.5 | 5.5 | 4.7E | C | 5.3E | 7.0 | 4.0 | 8.5 | 3.4 | 5.2 | 3.2 | 5.0 | 2.4 | 2.4 | |
| 15 | 2.2 | 2.1 | E | E | 2.6 | 2.8 | 3.8 | 4.7 | 5.8 | 6.0 | 6.0E | 5.2E | 6.2E | 6.4E | 5.2E | 5.4 | 5.6 | 5.6 | 5.2 | 3.4 | 3.4 | 5.2 | 2.7 | 4.8 | 5.3 | |
| 16 | 2.6 | 3.2 | 3.0 | 2.5 | E | 2.8 | 4.2 | 4.2 | 4.2 | 4.8 | 7.0 | 4.0E | 6.7 | 4.6 | 3.9 | 3.3E | 3.7 | 3.2 | 2.9 | 3.0 | 3.0 | 5.2 | 8.8F | 8.2F | 8.2F | |
| 17 | 3.2F | E | E | 5.2F | 3.4F | 4.2 | 5.2 | 5.4 | 7.8 | 11.7 | 12.4 | 12.1 | 12.1 | 9.1 | 6.7E | 7.6 | 6.2 | 7.6 | 8.7 | 7.3 | 8.2 | 7.2 | 4.7 | 4.1 | 4.1 | |
| 18 | 4.8 | 4.3 | 4.2 | 4.0 | 2.5 | 3.8 | 5.0 | 5.5 | 8.4 | 9.3 | 9.1 | 5.5 | 9.1F | 5.4 | 5.1 | 3.8 | 4.7E | 5.0 | 4.4 | 5.0 | 7.3 | 5.0 | 6.4 | 8.8 | 8.8 | |
| 19 | 6.2 | 4.6 | 2.5 | 4.6 | 4.0 | 2.5 | 3.8 | 5.5 | 6.5 | 5.8 | 7.7 | 5.4 | 7.3 | 7.8 | 6.2 | 4.7E | 6.5 | 11.0 | 10.2 | 8.7 | 6.7 | 7.1 | 7.8 | 6.9 | 6.9 | |
| 20 | 3.0 | 2.1 | 2.6 | 3.0 | 3.1 | 3.0 | 2.8 | 4.2 | 4.6 | 6.0 | 6.2 | 4.4 | 4.7E | 6.7E | 7.6 | 7.9 | 7.8 | 8.8 | 9.0 | 7.3 | 7.0 | 7.3 | 7.3 | 5.9 | 5.9 | |
| 21 | 4.2 | E | 4.0 | 3.2 | 4.2 | 2.2 | 4.0 | 6.0 | 6.2 | 7.8 | 4.4 | 4.7E | 4.7E | 4.9 | 3.9 | 3.6 | 5.3 | 8.3 | 3.2 | 2.8 | 2.3 | 2.7 | 7.8 | 5.9 | 5.9 | |
| 22 | E | E | 2.8 | 2.8 | 2.8 | 3.1F | 5.2F | 7.5 | 7.6 | 8.3 | 8.4 | 5.8 | 4.7E | 4.1 | 3.8 | 10.1 | 4.2 | 3.3 | 3.2 | 2.8 | 2.3 | 2.7 | 7.8 | 5.9 | 5.9 | |
| 23 | 5.4 | 4.2 | 3.8 | 3.1 | 4.2 | 8.3 | 5.6 | 6.4 | 9.3 | 13.7 | 12.7 | 8.2 | 6.9 | 7.6 | C | C | C | 7.6 | 3.5 | 4.2 | 4.2 | 6.3 | 5.9 | 4.4 | 4.4 | |
| 24 | 4.0 | C | C | E | 3.0 | 2.4 | 3.8 | 4.8 | 5.2 | 5.4 | 7.3 | 5.4 | 5.8 | 4.2 | B | 3.5 | 3.0 | 3.8 | 5.6 | 4.0 | 3.2 | 4.6 | 5.8 | 5.4 | 5.4 | |
| 25 | 2.9 | 3.0 | 4.2 | 3.7 | E | E | 3.0 | 4.2 | 5.4 | 5.4 | 8.3 | 6.4 | 6.4 | 6.4 | 8.3 | 7.6 | 5.2 | 8.6 | 9.3 | 3.3 | 3.5 | 7.6 | 7.8 | 3.6E | 3.6E | |
| 26 | 7.4 | 7.1 | 6.6 | 5.3 | 3.0 | 3.0 | 4.0 | 4.6 | 6.7 | 5.3 | 12.3 | 8.1 | 8.0E | 7.4 | 7.1E | 5.8 | C | 5.6 | 6.1 | 3.8 | 2.8 | 4.2 | 3.0 | 2.8 | 2.8 | |
| 27 | 2.2 | 4.6 | 2.8 | 2.2 | 2.0 | E | 3.8 | 5.6 | 6.5 | 8.4 | 7.8 | 8.8 | 7.0E | 4.6E | 5.2 | 8.1 | 6.3 | 7.1 | 8.6 | 4.2 | 4.6 | 4.0 | 5.0 | C | C | |
| 28 | C | C | C | C | C | C | C | C | 9.1 | 8.0E | C | 5.6 | C | 4.6 | 5.4E | 5.4E | 5.6 | 7.1 | 5.7 | 4.0 | 7.5 | 3.3 | 5.4 | 6.7 | 6.7 | |
| 29 | 6.8 | 3.1 | 5.6 | 3.1 | 2.8 | 2.8 | 4.0 | 5.0 | 6.4 | 5.2 | 4.3 | 5.6 | 4.4E | 6.9E | 9.2E | 6.7 | 5.8 | 5.4 | 7.3 | 4.3 | 4.3 | 8.9F | 8.0 | 7.8 | 7.8 | |
| 30 | 8.0 | 7.0 | 4.2 | 3.6 | 4.2 | 3.0 | 4.0 | 6.4 | 7.3 | 9.3 | 8.3E | 11.6E | 5.5E | 11.7E | 9.0 | 5.3 | 9.5 | 12.2 | 11.1 | 8.3 | 8.7 | 6.9 | 4.2 | 3.5 | 3.5 | |
| 31 | 4.4 | 3.5 | 3.2 | 4.0 | 3.6 | 3.3 | 4.8 | 5.0 | 7.6 | 7.8E | 6.7E | 10.4E | 7.3E | 7.6E | 8.1 | 8.1 | 5.5 | 7.8 | 10.4 | 14.6 | 10.2 | 8.0 | 6.3 | 3.6 | 3.6 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 3.2 | 3.2 | 3.0 | 3.1 | 2.9 | 2.8 | 4.0 | 4.8 | 5.8 | 6.0 | 6.9 | 5.6 | 6.3 | 5.5 | 5.2 | 5.4 | 5.6 | 5.6 | 5.7 | 4.6 | 5.2 | 5.1 | 5.4 | 4.3 | 4.3 | |
| Count | 30 | 29 | 29 | 30 | 30 | 30 | 30 | 30 | 31 | 31 | 30 | 31 | 30 | 29 | 27 | 30 | 29 | 29 | 31 | 31 | 31 | 31 | 31 | 31 | 30 | |

fEs

Sweep 2.0 Mc to 1.5 Mc in 1.5 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

May. 1946

(M3000)F2

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------------------|--------|--------|-------|--------|--------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| 1 | 2.5 | 2.8 | 2.6 | 3.1 | 2.9 | 2.9 | 3.4 | 3.1 | 3.2 | 3.3 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | {2.9}J | 2.9 | 3.2 | 3.4 | 3.2 | 2.8 | 2.8 | 2.8 | |
| 2 | 2.7 | 2.7 | 2.8 | 2.9 | 2.9 | 2.8 | {3.6} | 3.6 | 3.5 | 3.2 | 3.0 | 2.8 | {2.8}J | 2.8 | 2.9 | 3.0 | 3.3 | 3.4 | 3.3 | 3.3 | 2.9 | 2.8 | J | J | |
| 3 | J | 3.2 | 3.2 | 3.0 | 3.1 | 3.1 | 3.5 | 3.5 | 3.5 | 3.5 | 3.0 | 2.9 | 3.0 | 3.0 | 3.1 | 3.1 | 3.1 | {3.2}C | 3.4 | 2.9 | 2.9 | {2.7} | {2.8} | {2.9} | |
| 4 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 | 3.1 | 3.5 | 3.5 | 3.2 | 3.0 | 2.8 | {2.8} | 2.8 | {2.8}C | 2.8 | 2.7 | 2.9 | {2.9} | 3.2 | 3.2 | A | S | S | 3.0 | |
| 5 | 2.8 | 2.6 | 2.7 | 2.7 | 2.9 | 2.9 | 3.3 | {3.4}J | 3.5 | 3.0 | 3.2 | 3.0 | 3.1 | 3.1 | 3.2 | {3.0}J | 2.9 | 3.1 | 3.3 | {3.3} | 3.6 | 2.7 | 2.7 | 2.7 | |
| 6 | 2.7 | 2.8 | 2.8 | 2.8 | {2.6} | 2.8 | 3.2 | 3.0 | 3.3 | 3.2 | 3.1 | {3.1}S | 3.2 | 3.0 | 3.1 | {3.2} | 3.2 | {3.1}C | 3.1 | 3.3 | 2.8 | 2.8 | 2.6 | 2.6 | |
| 7 | 2.9 | 3.3 | 3.1 | 3.0 | 2.9 | 2.9 | 3.1 | 2.9 | 2.6 | S | G | G | G | 2.4 | 2.4 | 2.5 | G | 3.0 | 3.0 | 3.1 | 2.7 | 3.2 | A | {2.9} | |
| 8 | {2.9}J | {2.4} | A | 2.7 | {2.9}J | 3.1 | 3.5 | 3.3 | 3.1 | 3.0 | 2.8 | 3.1 | 3.0 | 3.0 | 3.2 | 3.3 | A | A | A | 3.2 | 2.8 | 2.8 | {2.7} | 2.8 | |
| 9 | 2.7 | 3.0 | 3.1 | 3.0 | 2.7 | 2.7 | 3.1 | 3.2 | 3.0 | 3.0 | A | 3.1 | 3.2 | 3.1 | 3.1 | 3.3 | 3.4 | 3.1 | 3.3 | 3.1 | 2.9 | 2.7 | 3.2 | 2.7 | |
| 10 | 3.0 | 3.0 | 2.9 | F | F | 2.5 | 2.5 | 2.5 | {2.7}J | 2.9 | 2.7 | {2.9}J | 3.4 | 3.4 | 3.6 | 3.6 | 3.3 | 3.2 | 2.9 | 3.0 | 3.0 | 3.2 | 2.6 | F | |
| 11 | F | F | {3.4} | 2.9 | {2.7} | 3.3 | 3.7 | 3.0 | 2.9 | A | 3.0 | 3.1 | 3.1 | 3.2 | 3.2 | 2.9 | 3.2 | 2.8 | 3.1 | 2.8 | 2.6 | 2.7 | 2.7 | 2.6 | |
| 12 | 3.0 | 2.6 | 2.7 | 2.8 | 2.7 | 2.8 | 2.7 | 3.1 | 2.8 | 2.9 | 3.0 | 2.8 | 2.8 | 3.0 | 3.1 | 3.1 | {3.0} | {3.1}J | 3.2 | 3.1 | 2.9 | F | F | F | |
| 13 | F | F | F | 2.8 | 2.7 | 2.8 | 2.7 | 3.1 | {2.8} | 2.8 | 3.1 | 2.9 | {2.7} | 2.9 | 2.9 | 3.1 | 3.1 | 3.1 | 3.1 | 2.9 | 2.7 | 2.5 | 2.6 | 2.7 | |
| 14 | 2.7 | 2.7 | 2.5 | 2.7 | 2.8 | 2.9 | 2.8 | 2.7 | 2.8 | 2.8 | {2.8} | 2.8 | 2.8 | 2.9 | {2.9}C | 3.0 | 3.2 | 3.1 | 2.9 | 2.8 | 2.7 | 2.6 | 2.5 | 2.7 | |
| 15 | 2.6 | 2.7 | 2.9 | 2.7 | 2.7 | 2.8 | 3.1 | 3.3 | 3.2 | 3.0 | 2.9 | 2.8 | 2.9 | {2.8} | 2.9 | 3.0 | 3.0 | 3.1 | 3.2 | 2.9 | 3.0 | 2.8 | {2.5} | {2.7} | |
| 16 | 2.7 | {2.5} | {2.7} | 2.7 | 2.8 | 2.8 | 3.1 | 3.2 | 3.3 | 3.1 | 2.9 | 3.1 | 3.0 | 3.3 | 3.1 | 2.9 | 3.1 | 3.3 | 3.0 | {3.2} | 3.2 | 2.6 | A | F | |
| 17 | F | F | F | F | F | J | J | 3.2 | 3.6 | A | A | A | A | A | 2.9 | 3.0 | 3.2 | 3.2 | 3.4 | 3.3 | {3.3}A | 3.3 | {3.0}S | {2.8} | |
| 18 | {2.7}S | 2.6 | 2.6 | 2.6 | {2.4} | 2.6 | 3.1 | 2.8 | 3.3 | {3.1}A | {3.1}A | 2.7 | 3.0 | 3.0 | 2.9 | 3.0 | 2.9 | 3.1 | 3.1 | 2.9 | {2.8} | {2.7}A | {2.6} | 2.6 | |
| 19 | F | F | F | F | F | 2.8 | 3.3 | 3.4 | 3.2 | 3.2 | 2.9 | 3.0 | 3.2 | 3.2 | 3.1 | 3.2 | 3.1 | {3.1} | {3.0} | 3.0 | 2.8 | 2.6 | {2.5} | 2.5 | |
| 20 | 2.5 | 2.6 | 2.7 | 2.5 | 2.7 | 3.0 | 3.3 | 3.2 | 3.4 | 3.0 | 2.6 | 2.7 | 2.8 | 2.9 | 2.9 | 3.1 | 3.2 | 3.2 | {3.1}J | 3.1 | F | F | F | F | |
| 21 | F | F | F | F | 2.9 | 2.9 | 3.2 | 2.9 | 3.3 | 2.4 | 2.7 | 2.8 | 2.8 | 2.8 | 3.0 | 3.4 | 3.2 | {2.9}J | 2.7 | {2.6}A | 2.5 | F | F | F | |
| 22 | F | F | F | 2.6 | {2.6}J | 2.6 | 2.6 | S | F | F | J | 2.9 | 3.0 | 3.0 | 3.0 | 3.5 | 2.9 | 2.9 | 2.9 | 3.0 | 2.7 | 2.7 | {2.4} | {2.4}E | |
| 23 | {2.5} | 2.9 | 3.2 | 2.6 | {2.9}S | 3.3 | 3.1 | 3.2 | 3.4 | A | A | A | A | A | C | C | 2.7 | 2.8 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | |
| 24 | 2.8 | 2.8 | 2.8 | 2.5 | 2.5 | 2.8 | 2.9 | 2.9 | 3.0 | 3.1 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 3.1 | 2.8 | {2.8}J | 2.8 | 2.7 | 2.6 | 2.6 | 2.6 | 2.6 | |
| 25 | {2.7}S | 2.9 | 2.7 | 2.8 | 2.8 | 2.9 | 3.3 | 3.3 | 3.4 | 3.4 | {3.1}S | 2.9 | 3.1 | 3.1 | 3.0 | 3.1 | 3.1 | 3.3 | 3.2 | 3.3 | 2.9 | 2.8 | 2.8 | 2.7 | |
| 26 | 2.8 | 3.0 | 2.8 | 2.7 | 3.1 | 3.1 | 3.4 | 3.6 | 3.2 | 3.4 | {3.2}A | 3.1 | 3.1 | 3.3 | 3.0 | 3.0 | {3.1}C | 3.3 | 3.2 | 3.0 | 3.0 | 2.9 | 2.9 | 2.9 | |
| 27 | 2.8 | 3.1 | 2.7 | 2.8 | 2.7 | 3.0 | 3.2 | 3.4 | 3.1 | 3.0 | 3.1 | 3.0 | 3.0 | 3.2 | 3.1 | 3.2 | 3.3 | 3.3 | 3.1 | 3.1 | 3.1 | 2.9 | 2.8 | C | |
| 28 | C | C | C | C | C | C | C | C | C | A | C | 2.8 | {2.8}C | 2.8 | 2.9 | 2.8 | 2.7 | 3.0 | {3.1}S | 3.3 | {3.3} | 2.9 | 2.9 | {2.8}E | |
| 29 | {2.8}S | {2.8}J | 2.8 | 2.7 | 2.9 | 3.4 | 3.5 | 3.3 | 3.3 | 3.1 | 3.2 | 2.9 | 3.1 | 3.0 | {3.1} | 3.0 | 3.0 | {3.0}J | 3.0 | {3.2}S | {3.2}J | 3.0 | 2.9 | {2.7} | |
| 30 | F | F | F | J | 3.2 | 3.1 | {3.0}A | {3.4} | {3.2}J | 3.2 | 3.2 | 3.3 | 3.2 | 3.4 | 3.1 | 3.1 | 3.3 | {3.3}A | {3.3}A | {3.5} | {3.1}A | 3.0 | 3.0 | 2.9 | |
| 31 | 2.4 | 2.9 | 3.0 | {3.0}F | 3.0 | 3.2 | 3.3 | 3.4 | 3.1 | 3.6 | 3.1 | 3.0 | 3.0 | 2.9 | 2.9 | 3.0 | 3.0 | 3.0 | {3.1} | {3.0}J | {3.0}S | 2.9 | 2.8 | 2.9 | |
| Mean Median Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | 2.7 | 2.8 | 2.3 | 2.5 | 2.7 | 2.9 | 3.0 | 2.9 | 3.2 | 3.0 | 3.0 | 2.9 | 3.0 | 3.0 | 3.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 2.9 | 2.8 | 2.7 | 2.7 | |

(M3000)F2

Sweep 2.0 Mc to 1.5 Mc in 1 min

Manual

Automatic

K8

(M3000)F2

Lat. 35° 42.4' N
Long. 139° 29.8' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

Jun. 1946

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 | 8.6 | 8.4 | 7.6 | (7.9) | 8.0F | 7.0 | 4.7 | 9.0 | 7.8HF | 8.6 | 8.6H | 4.6 | 4.8 | 10.7 | 10.0 | A | A | 11.65F | 12.05F | A | 8.55 | 8.2 | 8.0K5F | 8.7K5F | |
| 2 | 8.5K5F | (8.3)K | 7.9JF | 8.1K1F | 7.7 | 8.3H | 4.1 | 9.1 | 9.15F | 7.0 | 8.0 | 8.8 | 4.1B | 4.6 | 10.1 | 4.8 | 10.2J | 8.4 | (8.2)A | (8.1)A | 8.5 | 8.75K | 7.9JFK | 7.3FK | |
| 3 | 8.75FK | 8.2JFK | 8.45FK | 8.7JFK | 8.2JFK | 6.8JFK | (8.3)FK | 8.3F | 7.7 | 7.4 | 7.2 | 7.8 | 8.0 | 8.1J | 4.0 | (9.1) | 4.2 | 8.8 | 8.8 | 4.1 | 8.6H | 7.55K5F | 7.9JFK | 7.7 | |
| 4 | (7.8)FK | 8.45FK | (8.0)FK | 8.8JFK | 6.5JFK | 6.4 | 7.4 | 7.5 | 8.0 | 7.6K | 6.7K | 7.5K | 7.2B | C | (9.3) | 4.1H | 4.1H | (9.5) | 4.1 | 4.3H | 8.7 | 7.1H | 7.7JFK | 7.3JFK | |
| 5 | (7.6)FK | 7.0JFK | 6.7JFK | (8.0)FK | 7.8FK | 6.9 | 8.1K | 8.0 | 8.4 | 7.5H | 8.4 | 8.6 | (9.0)A | (8.7)A | 8.6 | 8.3 | 8.0 | (8.1)A | (8.3)A | 8.4 | (9.0)J | (8.8)A | 8.6JFK | (8.8)JFK | |
| 6 | 8.65FK | (8.4)FK | 7.8JFK | 7.85FK | 7.4JFK | 7.1 | 8.5 | 8.3 | 7.0 | 7.3 | 8.8 | 4.7 | (9.4) | 4.1 | 4.9B | 4.3 | C | C | (7.5)J | 8.2 | (8.9)H | 8.5K | 6.45K | 8.5FK5 | |
| 7 | 8.6JFK | (8.4)FK | 7.8JFK | 7.85FK | 7.4JFK | 7.1 | 8.5 | 8.3 | 7.0 | 6.2JK | 7.6K | 6.6K | 6.5K | 6.4K | A | A | C | C | C | C | C | 7.7H | 8.5FK | 7.65F | |
| 8 | 6.1J | 7.2 | 6.7J | (7.8)C | 7.3 | 7.0 | 7.3H | 6.8 | 5.8 | A | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 9 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 10 | 6.2 | (6.3)H | 5.3 | 5.4 | 6.0 | 5.1 | (7.5)FH | (8.0)F | 8.4B | A | A | A | C | 8.1 | 7.5 | 8.7K | (5.9)JK | (6.0)JK | 6.1JK | 6.4 | 6.4H | 6.6 | 6.9F | 6.5H | |
| 11 | (7.8)JF | (6.9)F | 5.6F | 5.6F | 5.6F | 6.1 | 6.9 | 7.6 | 6.2JH | 6.2J | 6.4 | (6.9)A | 7.5 | 7.1 | 7.3 | 7.0 | 7.3 | 7.8 | 8.1 | 8.6 | 7.4 | 7.0J | (8.1)JF | (7.9)JF | |
| 12 | (7.2)JF | (8.9)JF | 6.4 | 5.3 | 4.6 | 5.1 | 6.7H | 6.7 | 6.4 | (7.9) | 6.5 | 6.3 | 6.3 | 7.9 | (8.3)C | 8.7 | 8.3 | 4.2K | 8.4 | 7.4 | (8.3)A | 7.2H | 7.0 | 7.3J | |
| 13 | 7.2H | 7.2H | 6.7 | 6.4 | 6.7 | 7.2 | 6.9JF | 6.1J | A | A | A | A | A | A | A | 5.4JK | 5.4JK | A | A | A | A | A | A | (6.5) | 6.4H |
| 14 | 6.3H | 6.4H | 6.0H | 4.9J | 4.6 | 4.4 | 4.3H | 5.8 | 5.8 | A | A | (5.7)K | 5.8K | 5.9K | 6.4K | 6.6 | 6.6 | 6.8 | 6.5H | 6.3H | 6.1 | 6.6 | 7.0 | 6.6H | |
| 15 | 6.4 | 6.5F | (7.2)JF | (6.2)F | 6.1JF | 5.4JF | 6.2 | 6.1 | 6.0JFH | 5.8J | 6.3 | 6.5 | 5.8K | 6.5 | 6.4 | 6.6H | 6.6 | 6.6 | 6.6 | 6.4 | 6.9 | 6.8 | A | A | (6.8)JF |
| 16 | 6.95JF | (6.5)JF | 5.5 | (5.5)JF | (5.5)JF | 6.5 | 6.9 | 7.8 | 8.2 | 8.1 | 7.1 | 6.9H | 7.2 | 6.9 | 7.2 | 7.4 | 7.8 | 7.5 | 7.8 | 7.3 | 7.2 | (7.5)J | (7.6)JF | (7.8)JF | |
| 17 | 8.2F | (7.7)J | (7.1)J | 6.4 | 6.2F | 6.6F | 6.8H | 7.0H | 6.5H | 5.8J | 7.2K | 7.9K | 8.6K | 4.2K | 4.2H | 7.9 | 7.6 | 7.7 | 8.3 | 8.0 | 7.1 | 7.0H | 5.5FH | 6.9 | |
| 18 | 6.7 | 6.7 | 6.5 | 6.3 | 6.2 | 7.4 | 7.4 | 7.4 | 8.1J | 7.8 | (7.9)A | 7.9 | 8.4 | (8.9)AF | (9.4) | 8.2 | 8.2 | 8.1 | 8.2 | 8.6 | (8.4)C | 8.6 | (7.8)JF | 7.9JFK | |
| 19 | (8.6)JFK | 4.1JFK | 7.0JF | (7.1)H | 7.2JFH | 7.0H | 7.6 | 7.3 | 8.1 | 7.2 | 7.4 | 7.8 | 7.9 | 8.0 | 8.7 | 8.0H | 8.0H | 7.7 | 6.4 | 8.0 | (9.4)HJ | 8.6 | 8.3 | 7.5JH | |
| 20 | (8.7)FK | 4.0JFK | (8.2)JFK | (9.3)K5F | 8.7 | 7.6 | 7.9 | 7.9 | 8.7 | 7.3 | A | A | 7.7 | 8.0 | 8.7 | 8.0H | 8.0H | 7.7 | 6.4 | 8.0 | 8.2H | 7.6 | 7.6 | 7.4JFK | |
| 21 | (7.5)FK | 8.1FK | (7.2)FK | 7.4JFK | 6.4FK | 6.8 | 7.0 | 7.9 | 7.0 | 7.2 | 8.1 | 8.4 | 8.4 | 8.7 | 10.5 | 10.5 | (4.5)J | 8.7J | 8.9J | 4.2H | (8.1)H | 7.5J | 7.5H | (7.8)JFK | |
| 22 | 8.55FK | 9.25FK | 8.35FK | 8.25FK | (8.3)FK | 7.0 | 7.9 | 8.6 | 8.9 | 8.6 | 8.2 | 8.5 | 8.8 | 4.7 | 10.9 | 10.6 | 10.2 | (9.6) | 8.1 | 7.8 | 7.1 | 7.2 | 7.5JF | (7.5)JF | |
| 23 | 6.9JF | 6.7J | (6.9)F | 6.6J | (6.4) | 6.6H | 7.5H | 8.6 | 8.1 | (8.4) | 8.6 | 8.1 | AF | A | A | 8.6 | 8.5 | 8.2 | 8.0 | 7.4 | 7.7 | 7.9 | (9.0)JF | (8.5)JF | |
| 24 | 7.8 | 8.2 | 7.0 | (7.1)J | 7.1 | (7.8)F | 8.9 | 9.1 | 8.1 | 8.1 | 7.6 | 8.5 | 4.7 | 10.4 | (9.5) | 4.7 | 4.7 | 4.2 | 8.7 | 8.7 | 8.5 | 9.0 | (9.1) | (8.3)JF | |
| 25 | (8.4)J | (8.9)JF | (7.4)JF | 6.8JF | 6.8JF | 6.8 | 8.2 | 4.7 | 8.2 | 7.8 | 7.6 | 8.5 | 4.7 | 10.4 | (9.5) | 4.7 | 4.7 | 4.2 | 8.7 | 8.7 | 8.5 | 9.0 | (9.1) | (8.3)JF | |
| 26 | 8.8J | 8.8 | 7.3 | 7.1 | 6.6 | 7.4 | 10.3H | 11.0 | 8.0H | 8.1 | 8.8 | 4.2H | 4.8 | 4.7 | 10.2 | 4.7 | 8.8 | 4.0 | 4.1 | 8.7 | (8.6)JF | 8.95F | 8.85F | 8.75F | |
| 27 | 9.15J | 8.9JF | (8.5)JF | (8.5)JF | 4.3 | 4.15F | (11.3)JF | 4.3 | 6.4 | (6.3)A | 6.2 | 6.3 | 6.4 | 6.5 | 6.5 | 6.0 | 5.4 | 6.7 | 7.3 | 8.1 | 7.6 | 7.6 | 7.3 | 7.5 | |
| 28 | 7.3 | 7.4 | 7.1 | 6.3 | 6.3 | 7.2 | 7.3H | 8.6 | (8.7) | (8.3) | 7.5 | 7.2 | 7.5 | 7.4 | 7.0 | C | C | C | C | C | 6.4 | 6.9 | 6.8 | 6.7 | |
| 29 | (7.1)JF | 7.1JF | (7.2)JF | 7.45F | 6.2F | 6.7 | 8.5 | 8.6 | 7.2 | (6.4)A | 5.5 | 6.9 | 6.4 | 6.7 | 6.4 | 6.5 | 6.7 | 6.9 | 7.3 | 7.6 | 7.7 | 7.7 | 7.1F | (8.3)F | (8.9) |
| 30 | 8.2 | 7.6 | 6.9 | 5.7 | 5.4 | (6.4) | 5.6 | 5.3J | 6.7 | 6.7 | 7.4 | 7.1 | 7.2J | 8.6 | (7.9)B | 7.5 | 7.7 | 7.6 | 8.2 | 8.3 | (7.6) | (7.5)JF | (8.1)F | (8.6)F | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 7.8 | 8.1 | 7.1 | 6.8 | 6.6 | 6.9 | 7.5 | 7.9 | 7.8 | 7.4 | 7.5 | 7.8 | 7.9 | 8.4 | 8.7 | 8.2 | 8.0 | 8.1 | 8.2 | 8.1 | 7.7 | 7.6 | 7.8 | 7.6 | |
| Count | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 28 | 24 | 24 | 25 | 25 | 25 | 26 | 27 | 24 | 25 | 26 | 25 | 27 | 27 | 27 | 29 | |

foF2

Sweep 2.0 Mc to 5.0 Mc in 1.5 min
 Manual Automatic

K 1

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

IONOSPHERIC DATA

Jun. 1946

κ'F2

135° E Mean Time

Kokubunji Tokyo

Lat. 35° 48.4' N
Long. 139° 29.8' 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 | 280 | 260 | 280 | (260) | 250 | (210)A | 220 | 190 | 220 | 260 | (280)A | 290 | 290 | 260 | 250 | A | A | A | A | A | A | 250 | (250)A | 240 | |
| 2 | (240) | 270 | (270)A | 270 | 250 | 240 | 220 | A | A | A | (300)A | (300)A | (300)A | 300 | 310 | 290 | 250 | 240 | A | A | A | A | 220 | 290 | |
| 3 | (270) | (280) | (300)F | 300 | (280)F | (230)F | (230)F | 260 | 270 | 270 | 310 | 350 | (340)A | (320)A | 300 | C | A | 270 | 300 | (270)A | (230)A | (240)A | (240)F | 230 | |
| 4 | 250 | (310)A | 260 | 190 | 230 | 210 | 220 | 220 | 250 | (240)A | 270 | 300 | 250 | C | C | 280 | 280 | 290 | 280 | 240 | 260 | 230 | (250)F | (260)F | |
| 5 | 270 | (310)F | 280 | 280 | 260 | 230 | 240 | (240)A | 230 | 300 | 310 | 300 | 250 | (250)A | 250 | 250 | 250 | A | A | (300)A | 270 | (240)A | (300)F | (270)F | |
| 6 | 250 | 240 | 210 | 230 | 230 | 230 | 210 | (220)A | (230)A | 290 | (320)A | 300 | 270 | 250 | 270 | 250 | C | C | 270 | 250 | 260 | 250 | 330 | 310 | |
| 7 | 260 | 250 | 260 | 250 | 240 | 300 | 250 | 300 | 230 | (250)A | 270 | (300)A | 330 | A | A | A | C | C | C | C | C | (310) | 270 | (240)F | |
| 8 | (330) | 300 | (260) | (320) | 290 | 310 | 370 | 310 | 380 | A | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 9 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 10 | (270)F | 250 | 230 | 240 | 230 | 270 | 260 | 210 | 200 | A | A | A | C | C | 310 | 280 | 290 | 230 | 250 | 240 | 310 | 300 | (320)A | 240 | |
| 11 | 320 | (280)F | 250 | 250 | (250) | 220 | 190 | 240 | 260 | 350 | 350 | A | A | A | 270 | 290 | 290 | 300 | 270 | (300)A | (280)A | (300)F | 300 | 280 | |
| 12 | (290)F | (250)H | 210 | (260)F | 260 | 340 | 260 | 290 | 260 | A | (340)A | (440)A | (250)C | 250 | (250)C | 250 | 250 | 250 | 240 | 230 | 230 | (230)F | 350 | (310)F | (300)F |
| 13 | 250 | 230 | 230 | 220 | 270 | 260 | 300 | A | A | A | A | A | A | A | A | (310)A | A | A | A | A | A | A | A | A | C |
| 14 | (300)F | 280 | 250 | 220 | 260 | 230 | (250)A | 340 | (350)A | A | (440)A | 440 | 410 | 350 | 340 | 340 | 300 | 300 | 280 | 280 | 270 | 270 | (230)F | 300 | 280 |
| 15 | 310 | 300 | (290)F | (250)F | (280)F | 280 | 300 | 310 | 330 | A | 360 | 300 | 430 | 350 | 400 | 350 | 290 | 290 | 310 | 300 | 280 | 290 | 310 | 300 | 370 |
| 16 | 280 | 250 | 250 | 280 | 270 | 230 | 250 | 280 | 260 | 240 | 290 | 300 | 350 | 350 | 320 | 320 | 290 | 290 | 260 | 270 | 300 | 300 | 300 | 260 | 300 |
| 17 | 280 | 250 | 280 | 230 | 250 | 220 | 250 | 300 | 240 | A | 300 | 310 | 340 | 340 | 290 | 320 | 330 | (300)A | 260 | 230 | 280 | 280 | 340 | 330 | 330 |
| 18 | (300) | (290) | (280) | (310)A | (300) | 240 | (200)A | (260)A | (310)A | (320)A | A | A | A | A | A | A | A | A | 280 | 250 | (260)C | (270)A | (200)A | (310)A | |
| 19 | (310)A | A | A | (290)A | (300)A | 230 | (230)A | (310)A | (280)A | (360)A | (390)A | (320)A | (380)A | (380)A | (360)A | (330)A | (330)A | (330)A | (230)A | (270)A | (240)A | (230)F | (240)A | (280)A | |
| 20 | (330)A | (310)A | (300)A | (290)H | (260)F | 300 | (300)H | (310)A | (320)A | A | A | A | (400)A | (350)A | 280 | 310 | 340 | 270 | 200 | 290 | 260 | (270)A | 310 | (330)F | |
| 21 | (300)F | (360)F | (300)F | (290)F | (280)A | (230)A | 230 | 280 | 230 | 250 | 290 | 380 | 370 | (330)A | 310 | 300 | (320)A | 280 | 250 | (210)A | (260)A | (260)A | (260)A | (360)A | |
| 22 | (290)A | (290)F | (240)F | (230)F | (270)F | 260 | 250 | | (200)A | 340 | 360 | (360)A | (340)A | 320 | 290 | 300 | 290 | 290 | 250 | 240 | (240)A | 290 | (250)A | 290 | |
| 23 | 280 | 270 | (260)A | 270 | 260 | (220)A | 220 | 240 | (200)A | 240 | (300)A | 330 | (230)A | 330 | 300 | (280)A | 266 | 250 | (230)A | (230)A | 260 | 280 | 260 | 260 | |
| 24 | 250 | (210)A | 230 | 260 | (250)A | 220 | 220 | 230 | 220 | 320 | 270 | (330)A | A | A | A | (290)A | 300 | (240)A | (240)A | (230)A | (280)A | (280)A | 280 | (290)A | |
| 25 | (280)A | 270 | 220 | (290)A | 270 | 230 | 260 | 240 | 220 | A | A | 350 | 300 | 290 | 300 | 270 | 300 | (250)A | 240 | (250)A | 250 | 250 | 260 | 260 | |
| 26 | 250 | (200)F | 200 | 280 | 280 | 240 | 210 | 210 | 210 | 290 | 280 | 330 | 320 | 300 | 290 | 270 | 250 | 250 | 240 | 280 | 300 | 280 | 280 | (230)F | |
| 27 | (250)F | 230 | 250 | 260 | 260 | 270 | 260 | 230 | 230 | (320)A | 430 | 420 | (400)A | (370)A | 330 | 380 | 440 | 350 | 280 | 250 | 220 | 240 | (230)A | (250) | |
| 28 | 270 | 270 | 220 | 220 | 230 | 210 | 210 | (300)A | 300 | (300)H | 250 | (300)A | 330 | (330)A | 330 | 330 | C | C | C | C | 250 | (270)A | (280)A | 280 | |
| 29 | (280)A | 270 | (290)F | 280 | 270 | 220 | 200 | 240 | A | A | 360 | (360)A | 360 | 360 | 450 | 400 | 380 | 390 | 320 | 270 | (280)A | 280 | (260)A | (320)A | |
| 30 | (340)A | 290 | 280 | 270 | 280 | 260 | (310)A | (350)A | 390 | 320 | 340 | 360 | 350 | 280 | (320)A | 310 | 320 | 260 | 250 | 230 | (240)F | (250) | (310)A | (300) | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 280 | 270 | 260 | 260 | 260 | 230 | 230 | 240 | 250 | 300 | 300 | 330 | 340 | 320 | 300 | 300 | 300 | 280 | 260 | 250 | 260 | 280 | 280 | 290 | |
| Count | 29 | 28 | 28 | 29 | 29 | 29 | 29 | 27 | 26 | 18 | 20 | 23 | 23 | 22 | 25 | 26 | 22 | 22 | 23 | 24 | 24 | 26 | 28 | 28 | |

Sweep 2.0 Mc to 1.5 Mc in 1.5 min

κ'F2

Manual Automatic

K 2

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

Lat. 36° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

foF1

Jun. 1946

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|---------------|----|----|----|----|----|------|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|------|----|----|----|--|
| 1 | | | | | | A | A | L | 4.6 | 5.0 | A | 5.0 | 5.6 | 5.3 | 5.3 | A | A | A | A | A | | | | | |
| 2 | | | | | | L | A | A | A | A | A | A | B | 5.2 | A | A | 5.1 | A | A | A | A | | | | |
| 3 | | | | | | F | A | A | A | 5.1 | 5.2 | A | A | A | A | C | A | A | A | A | A | | | | |
| 4 | | | | | | L | L | A | L | A | 5.3J | L | B | C | C | 4.9 | 4.4 | 4.4 | L | A | A | | | | |
| 5 | | | | | | L | L | A | 4.5 | 5.0J | 5.5 | A | A | A | A | A | (4.3)J | A | A | A | A | | | | |
| 6 | | | | | | 2.2I | 3.2J | L | A | 5.0J | L | A | A | 5.3 | {5.1}B | {5.0}J | C | A | A | A | A | | | | |
| 7 | | | | | | A | A | A | A | 5.8 | A | 5.4A | A | A | A | A | C | C | C | C | C | | | | |
| 8 | | | | | | A | A | A | {4.5}K | 4.7K | C | C | C | C | C | C | A | A | A | A | A | | | | |
| 9 | | | | | | C | C | C | C | C | C | C | C | C | A | A | A | A | A | A | A | | | | |
| 10 | | | | | | L | A | A | A | A | A | A | C | A | A | A | A | A | A | A | A | | | | |
| 11 | | | | | | L | A | 4.4 | A | A | A | A | A | A | A | 5.0 | 4.8 | L | L | A | A | | | | |
| 12 | | | | | | 3.4K | 3.8K | 4.6JK | A | A | A | A | 4.8JK | A | C | 5.0J | 5.0J | A | A | A | A | | | | |
| 13 | | | | | | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | | | | |
| 14 | | | | | | 2.0 | A | A | A | A | A | A | 5.1 | 5.0 | 4.9 | 4.8 | 4.8 | 4.4 | 3.9 | L | L | | | | |
| 15 | | | | | | 2.8 | A | 3.9J | AK | 4.8J | 5.2 | 5.2 | 5.2 | 5.2 | {5.2}J | {5.2}J | 4.5 | 4.5 | 3.8 | L | L | | | | |
| 16 | | | | | | 2.2 | L | 4.4J | 5.0 | 5.2 | A | 5.5 | 5.3 | L | 5.3 | 5.1 | 4.8 | AF | AF | A | A | | | | |
| 17 | | | | | | L | L | L | 4.4J | A | A | 5.1 | A | A | A | 5.4J | 5.0 | A | L | L | L | | | | |
| 18 | | | | | | 2.0 | L | A | A | A | A | 6.4J | A | A | A | 5.4J | L | A | L | 2.4 | | | | | |
| 19 | | | | | | L | A | A | A | A | A | 5.4J | 6.0J | A | A | A | A | 4.8 | A | A | | | | | |
| 20 | | | | | | A | A | A | A | A | A | A | A | A | A | 5.7 | 4.8 | {4.4}L | 4.0J | A | 2.6J | | | | |
| 21 | | | | | | A | L | 5.0 | 4.8 | 5.4 | L | A | 5.8 | {5.9}A | 6.0J | A | A | A | A | A | | | | | |
| 22 | | | | | | L | L | A | A | 5.4 | 5.7 | A | A | 5.4 | 5.4 | 5.1 | 5.1 | A | L | A | | | | | |
| 23 | | | | | | A | L | 4.1J | A | 5.2 | {5.4}A | 5.6 | {5.6}A | 5.6 | 5.8J | {5.5}A | 5.2 | 4.6 | A | A | | | | | |
| 24 | | | | | | 2.0 | L | A | L | {5.4}B | 5.4 | A | A | A | A | A | A | A | 4.0J | L | A | | | | |
| 25 | | | | | | L | L | L | A | A | A | A | A | A | A | 5.7 | 5.6 | 5.0 | L | L | A | | | | |
| 26 | | | | | | L | L | L | L | L | L | 5.0 | 5.5 | 5.7 | 5.5 | 5.0 | A | A | A | A | | | | | |
| 27 | | | | | | A | A | A | A | A | 5.0 | {5.4} | 5.6J | 5.4J | 4.9 | 5.0 | 5.0 | {4.5}A | 4.0 | A | | | | | |
| 28 | | | | | | L | L | L | 5.0 | {5.1}A | 5.1 | {5.3}A | 5.5 | {5.4}A | 5.2 | 5.0 | C | C | C | C | | | | | |
| 29 | | | | | | E | A | A | A | A | A | 4.7 | {4.9}A | 5.0 | 5.0 | 4.8 | 4.8 | 4.4 | 4.0 | A | | | | | |
| 30 | | | | | | L | A | A | 4.7J | {5.2}A | 5.2 | 5.5 | 5.5 | A | B | 5.2 | 5.2 | A | L | L | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | | | | | | 2.1 | * | 4.4 | 4.7 | 5.1 | 5.3 | 5.4 | 5.5 | 5.4 | 5.3 | 5.0 | 5.0 | 4.4 | 4.0 | * | | | | | |
| | | | | | | 8 | 2 | 6 | 8 | 13 | 11 | 12 | 14 | 12 | 16 | 18 | 15 | 9 | 4 | 2 | | | | | |

K 3

Automatic

Manual

Sweep 2.0 Mc to 5.0 Mc in 0.5 min

foF1

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

Jun. 1946

R'F1

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|--------------|----|----|----|----|----|--------|--------|--------|--------|--------|--------|--------|--------|-----|--------|--------|--------|--------|--------|-----|----|----|----|----|
| 1 | | | | | | A | A | 180 | 200 | (200)A | (200)A | 190 | A | A | A | A | A | A | A | A | | | | |
| 2 | | | | | | 250 | 220 | A | A | A | A | A | A | A | A | A | 220 | 230 | A | A | | | | |
| 3 | | | | | | F | A | (250)A | (210)A | 160 | A | A | A | A | A | C | A | A | A | A | | | | |
| 4 | | | | | | 200 | (200)A | (250)A | 200 | (140)A | 180 | A | A | A | C | (190)A | 210 | (230)A | A | A | | | | |
| 5 | | | | | | 210 | (220)A | (210)A | 200 | A | A | A | A | A | A | A | A | A | A | A | | | | |
| 6 | | | | | | 210 | 210 | A | A | 200 | 200 | A | A | 200 | (170)A | A | C | C | C | C | | | | |
| 7 | | | | | | (240)A | A | A | A | A | (170)A | A | A | A | A | A | C | C | C | C | | | | |
| 8 | | | | | | A | A | A | A | A | C | C | C | C | C | C | C | C | C | C | | | | |
| 9 | | | | | | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | | | | |
| 10 | | | | | | A | A | A | A | A | A | A | C | A | A | A | A | A | A | A | | | | |
| 11 | | | | | | A | A | 200 | A | A | A | A | A | A | 160 | 160 | B | A | A | A | | | | |
| 12 | | | | | | 230 | 210 | (230)F | A | A | A | A | A | A | C | A | 210 | A | A | A | | | | |
| 13 | | | | | | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | | | | |
| 14 | | | | | | E | A | A | A | A | A | 170 | 160 | 180 | 190 | 190 | 200 | 220 | 200 | A | | | | |
| 15 | | | | | | 230 | A | (240)A | A | 200 | 180 | 180 | 230 | 190 | A | A | (200) | 200 | 200 | E | | | | |
| 16 | | | | | | E | 210 | 200 | 210 | 250 | A | A | (200) | 180 | 170 | 190 | 210 | A | A | A | | | | |
| 17 | | | | | | A | 190 | 180 | 210 | A | A | 220 | A | A | A | A | A | A | 220 | A | | | | |
| 18 | | | | | | 230 | 190 | A | A | A | A | A | A | A | A | A | A | A | A | 250 | A | | | |
| 19 | | | | | | A | A | A | A | A | A | A | A | A | A | A | A | A | (230)A | A | | | | |
| 20 | | | | | | (200)F | A | A | A | A | A | A | A | A | A | (280)A | (190)A | A | A | A | | | | |
| 21 | | | | | | A | 200 | (150)A | (200)A | (180)A | (230)A | (240)A | (250)A | A | A | A | A | A | A | A | | | | |
| 22 | | | | | | 200 | 200 | (150)A | A | A | A | A | A | A | A | A | A | A | A | A | | | | |
| 23 | | | | | | A | A | 210 | A | (180)A | A | A | A | A | A | A | 190 | A | A | A | | | | |
| 24 | | | | | | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | | | | |
| 25 | | | | | | A | (180)A | 210 | A | A | A | A | A | A | A | (180)A | 190 | A | A | A | | | | |
| 26 | | | | | | A | 210 | 200 | (200)A | (190)A | 280 | (150)A | A | A | A | A | A | A | A | A | | | | |
| 27 | | | | | | A | A | A | A | A | A | A | A | A | (190)A | 180 | (200)A | 230 | A | A | | | | |
| 28 | | | | | | 230 | 190 | (280)A | (230)A | A | A | A | A | A | A | (290)A | (180)A | C | C | C | | | | |
| 29 | | | | | | E | A | A | A | A | A | A | A | A | A | 200 | A | A | A | A | | | | |
| 30 | | | | | | A | A | A | 250 | (220)A | (180)A | A | A | A | A | A | A | A | A | A | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | 230 | 200 | 210 | 210 | 200 | 190 | 190 | 220 | 190 | 180 | 190 | 210 | 230 | 210 | * | | | | |
| Count | | | | | | 11 | 13 | 15 | 10 | 10 | 8 | 6 | 4 | 5 | 6 | 9 | 10 | 5 | 4 | 1 | | | | |

Energy 2.0 Mc to 1.50 Mc in 1.5 min

Manual

Automatic

R'F1

K4

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

foE

Jun. 1946

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|----|----|----|----|----|------|--------|--------|--------|------|--------|------|---------|--------|--------|--------|------|--------|-----|------|----|----|----|----|--|
| 1 | | | | | | A | A | 3.1 | 3.5 | 3.6 | 3.7 | 4.0 | B | 3.9B | B | AB | B | 2.9 | 2.4 | E | | | | | |
| 2 | | | | | | 1.6J | 2.6 | 3.0 | 3.6 | 3.7 | AB | B | B | B | B | A | 3.3 | 2.4J | A | E | | | | | |
| 3 | | | | | | E | A | A | 3.3 | 3.7 | L | 4.1 | B | B | C | C | AB | 3.0 | A | E | | | | | |
| 4 | | | | | | 1.6J | 2.5 | 3.0 | 3.5 | 3.8 | 4.1 | AB | 4.2B | C | C | A | A | 3.0 | A | E | | | | | |
| 5 | | | | | | 1.9J | A | A | 3.4 | 3.5 | 3.6 | A | AB | AB | B | A | A | 3.0 | A | E | | | | | |
| 6 | | | | | | A | 2.6 | {2.9}A | 3.2 | 3.6 | 3.7B | 3.7 | {4.0}AB | 4.2B | 4.0B | A | B | A | A | E | | | | | |
| 7 | | | | | | E | A | A | 3.4J | A | AB | B | B | 3.9 | 3.8 | 3.7 | C | C | C | E | | | | | |
| 8 | | | | | | E | A | 3.1 | A | A | C | C | C | C | C | C | C | C | C | C | E | | | | |
| 9 | | | | | | C | C | C | C | C | C | C | C | 4.0 | A | 3.6 | A | A | A | E | | | | | |
| 10 | | | | | | A | 2.4 | 2.8 | 3.2 | A | A | AB | AB | A | 3.6 | {3.4}A | 3.2 | 2.8 | 2.2 | E | | | | | |
| 11 | | | | | | E | 2.4 | 3.0J | 3.2 | A | A | A | A | A | B | 3.4 | 2.7 | 3.0 | 2.4 | E | | | | | |
| 12 | | | | | | E | 2.6 | 3.0 | 3.4 | A | A | A | A | A | C | C | 3.4 | 3.2 | A | E | | | | | |
| 13 | | | | | | E | A | A | A | A | A | A | A | 3.9B | 3.9B | A | A | 5.0 | A | E | | | | | |
| 14 | | | | | | E | 2.5 | 3.0 | 3.4 | A | A | A | A | A | A | 4.1B | 3.4 | 3.1 | 2.5 | E | | | | | |
| 15 | | | | | | E | 2.5 | 3.4J | 3.4 | 3.6 | 3.8 | 4.1 | 4.3 | 4.1 | 3.9 | 3.8 | 3.2 | 3.0 | 2.2 | E | | | | | |
| 16 | | | | | | E | 2.6 | 3.0 | 3.2J | 3.8 | 4.0 | 3.9 | 4.0 | B | (3.7) | B | 3.5J | 3.1 | 2.5 | E | | | | | |
| 17 | | | | | | E | A | A | 3.6 | 3.7 | 4.0 | 3.8 | 3.9 | 3.9 | A | A | A | A | A | E | | | | | |
| 18 | | | | | | E | 2.2J | 3.4 | 3.4 | 3.4 | 3.4B | AB | AB | AB | AB | AB | AB | 3.2 | A | E | | | | | |
| 19 | | | | | | E | E | 3.4B | 3.8 | 3.8B | 3.9 | 3.9B | AB | AB | AB | AB | A | A | A | E | | | | | |
| 20 | | | | | | A | A | A | A | A | A | AB | 3.9B | 3.9B | 3.9B | 3.8 | 3.6 | {2.9}A | 2.2 | E | | | | | |
| 21 | | | | | | E | 2.6 | 3.1 | 3.6 | 3.8 | 3.9 | 4.1B | 4.1B | 4.1B | A | AB | A | 3.1B | A | 1.7J | | | | | |
| 22 | | | | | | E | 2.3 | A | AB | 3.8 | A | AB | 3.6B | 3.6B | 3.9B | 3.7B | 3.4 | 3.0 | 2.4 | E | | | | | |
| 23 | | | | | | E | E | A | A | A | AB | 4.0B | 4.4B | (4.1)B | (3.8)B | AB | B | AB | A | E | | | | | |
| 24 | | | | | | E | 2.7 | 3.2 | (3.6)B | 4.0B | 4.1B | 4.1B | 3.9 | 3.8 | 3.9B | 3.8 | AB | A | A | E | | | | | |
| 25 | | | | | | E | A | A | A | 3.8 | (3.9)B | 4.0B | 4.1B | 3.8B | 3.8B | 3.3 | A | A | A | E | | | | | |
| 26 | | | | | | 2.0 | 2.5 | A | A | 3.5 | 3.7 | 3.9 | {4.0}B | 4.1 | 4.0 | 3.6 | A | A | A | E | | | | | |
| 27 | | | | | | A | 2.6 | 2.8 | 3.0 | 3.6 | 4.0 | 4.0B | (4.0)B | 4.1B | 4.0 | 3.8 | 3.7 | 3.3 | 2.5 | A | | | | | |
| 28 | | | | | | 1.9J | 2.3 | 3.1 | 3.6 | 3.5B | AB | AB | 3.9B | {3.9}B | 3.9 | A | C | C | C | E | | | | | |
| 29 | | | | | | 2.0J | {2.2}A | 2.4 | AB | 3.7B | 3.9B | 3.8B | 3.9B | 3.6B | AB | A | 3.6 | 3.1 | 2.4 | A | | | | | |
| 30 | | | | | | E | 2.2 | 2.6 | 3.0 | 3.6 | 3.8 | 3.8 | 3.9 | AB | B | AB | A | 3.1 | 2.6 | E | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | E | 2.5 | 3.0 | 3.4 | 3.7 | 3.9 | 4.0 | 4.0 | 3.9 | 3.9 | 3.7 | 3.4 | 3.0 | 2.4 | E | | | | | |
| Count | | | | | | 24 | 20 | 19 | 21 | 19 | 16 | 15 | 16 | 16 | 14 | 11 | 11 | 19 | 11 | 19 | | | | | |

foE

Sweep 2.0 Me to 4.5 Me in 1.5 min

Manual Automatic

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

Lat. 35° 42.4' N
Long. 139° 28.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

Jun. 1946

f'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 | | | | | E | 100 | 100 | 100 | 110 | 100 | 100 | 100 | B | B | B | 100 | (110)B | 110 | 130 | E | | | | | |
| 2 | | | | | E | 120 | 100 | 110 | (110) | 110 | 110 | B | B | B | B | 110 | 110 | 110 | A. | E | | | | | |
| 3 | | | | | E | 110 | 110 | 110 | 120 | 120 | 110 | B | B | B | B | C | 100 | 110 | A | E | | | | | |
| 4 | | | | | E | 100 | 100 | 100 | 100 | 100 | 100 | 110 | C | C | C | 100 | 110 | 110 | 100 | E | | | | | |
| 5 | | | | | E | 110 | 100 | 100 | 100 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | E | | | | | |
| 6 | | | | | E | 100 | 110 | 100 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | C | C | A | E | | | | | |
| 7 | | | | | E | 100 | 100 | 100 | 90 | 90 | 100 | B | B | 100 | 100 | 100 | C | C | C | E | | | | | |
| 8 | | | | | E | 110 | 100 | 100 | 120 | 120 | C | C | C | C | C | C | C | C | C | E | | | | | |
| 9 | | | | | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | E | | | | | |
| 10 | | | | | 120 | 120 | 100 | 100 | 100 | 90 | 100 | 100 | 110B | 100 | 100 | 100 | 100 | 100 | (130)E | E | | | | | |
| 11 | | | | | E | 90 | 100 | 100 | 100 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 110 | E | | | | | |
| 12 | | | | | E | 100 | 100 | 100 | 90 | 90 | 100 | 100 | 100 | C | C | 100 | 100 | 100 | 100 | E | | | | | |
| 13 | | | | | E | 100 | 100 | 100 | 100 | (100)C | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 90 | 90 | E | | | | | |
| 14 | | | | | E | 100 | 90 | 100 | 100 | 90 | 100 | 100 | 90 | 100 | 100 | 100 | 100 | 100 | 90 | E | | | | | |
| 15 | | | | | E | 100 | 100 | 90 | 100 | 100 | 90 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 110 | E | | | | | |
| 16 | | | | | E | 100 | 100 | 90 | 100 | 100 | 100 | 90 | 100 | 110 | 90 | 90 | 90 | 110 | 100 | E | | | | | |
| 17 | | | | | E | 90 | 100 | 100 | 100 | 90 | 100 | 100 | 90 | 90 | 90 | 100 | 100 | 80 | 90 | E | | | | | |
| 18 | | | | | E | 90 | 100 | 100 | 110 | 100 | 80 | 100 | 100 | 90 | 90 | 100 | 90 | 90 | 90 | E | | | | | |
| 19 | | | | | E | E | 100 | 100 | 100 | 90 | 100 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 90 | 100 | | | | | |
| 20 | | | | | 120 | 100 | 100 | 100 | 100 | 90 | 90 | 80 | 90 | 100 | 100 | 100 | 100 | 90 | 100 | E | | | | | |
| 21 | | | | | E | (90)A | 110 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 90 | 100 | (120)A | | | | | |
| 22 | | | | | E | 100 | 80 | 100 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | (100)A | E | | | | | |
| 23 | | | | | E | E | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | (100)A | 100 | 100 | 100 | 100 | | | | | |
| 24 | | | | | E | 100 | 100 | 110 | 100 | 100 | 100 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 90 | | | | | |
| 25 | | | | | E | 100 | 100 | 100 | 100 | 100 | 100 | (100)A | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | |
| 26 | | | | | E | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | |
| 27 | | | | | (100)A | 100 | 90 | 90 | 90 | 90 | 100 | 100 | 110 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | |
| 28 | | | | | (120) | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | C | C | C | E | | | | | |
| 29 | | | | | 100 | 100 | 100 | 100 | 120 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | |
| 30 | | | | | E | (120)A | 110 | 110 | 110 | 110 | 110 | 100 | 100 | (100)A | B | 110 | 110 | 110 | 120 | E | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | | | | | 5 | 27 | 29 | 29 | 29 | 29 | 28 | 25 | 24 | 25 | 23 | 28 | 26 | 26 | 24 | 4 | | | | | |

f'F₂

Sheep 2.0 Mc to 1.5 Mc in 1.5 min

Manual

Automatic

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

fEs

Jun. 1946

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|------|------|------|------|------|--|
| 1 | 3.8 | 3.0 | 4.2 | 3.2 | 2.8 | 3.6 | 4.3 | 5.4 | 4.6 | 5.2 | 6.7B | 4.8B | 5.1B | 7.1B | 5.4B | 10.2B | 10.2B | 10.6 | 11.6 | 10.7 | 8.7F | 8.3 | 7.0 | 8.7 | |
| 2 | 2.7 | 4.2 | 2.5 | 4.6F | 2.8F | 3.0F | 5.0 | 7.6 | 8.6 | 7.2 | 7.4 | 7.4 | 6.5B | 5.2B | 6.8B | 8.3 | 6.0 | 5.2 | 8.9 | 8.0 | 6.3 | 7.3 | 3.2 | 5.0 | |
| 3 | 7.0 | 6.6 | 6.7 | 7.6 | 7.7 | 4.9F | 6.2 | 6.7 | 5.6 | 5.7 | 4.8 | 6.5 | 9.0B | 12.9B | 5.5B | C | 7.2B | 7.8 | 7.4 | 7.5 | 7.9 | 8.2 | 8.0 | 3.0F | |
| 4 | 5.2F | 7.8 | 7.8F | 4.0 | E | E | 3.0 | 5.2 | 5.2 | 6.6 | 6.2 | 6.4B | 4.9B | C | C | 4.3 | 3.8 | 3.6 | 4.8 | 3.9 | 3.2 | 3.0 | 6.1 | 3.2F | |
| 5 | 3.0 | 3.5 | 2.6 | 2.8F | 2.8 | 2.6 | 4.0 | 5.4 | 5.2 | 6.4 | 8.8 | 12.6 | 12.2B | 10.2B | 8.1B | 7.3 | 4.9 | 10.7B | 11.6B | 9.1 | 9.1 | 10.0 | 4.4F | 8.0F | |
| 6 | 5.0F | 4.1F | 3.8 | E | E | 2.4 | 4.0 | 4.2 | 7.2 | 8.3 | 6.8 | 5.6 | 7.6B | 4.9B | 4.7B | 5.0 | 3.9B | C | 8.7 | 4.0 | 8.4 | 5.0 | 7.1F | 5.4 | |
| 7 | 2.8 | 2.7 | 6.5 | 4.6 | 3.0 | 2.8F | 6.1 | 6.5 | 6.2 | 7.7 | 5.0B | 7.1B | 6.6B | 7.8B | 9.5 | 9.7 | C | C | C | C | C | 2.8 | 8.6 | 4.6 | |
| 8 | 2.8 | 3.0 | 2.8 | 3.2 | 2.9 | 5.6 | 4.8F | 7.9 | 4.9 | 6.3 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 9 | C | C | C | C | C | C | C | C | C | C | C | C | C | 4.9 | 6.5B | 6.5 | 8.7 | 9.5 | 6.5 | 4.3 | 7.1 | 5.1 | 6.4 | 6.3 | |
| 10 | 5.1 | 4.0 | 2.2 | 2.8 | 3.6 | 4.6 | 4.4 | 7.8 | 7.8 | 8.6 | 11.0 | 8.9B | 6.2B | 8.0 | 7.1 | 7.9 | 8.2 | 8.2 | 8.4 | 8.0 | 8.7 | 9.1 | 9.3 | 7.6 | |
| 11 | 6.8 | 5.1 | 4.0 | 3.5 | 3.1 | E | 4.0 | 4.4 | 5.5 | 7.0B | 7.5 | 9.3B | 9.0B | 6.0B | 3.3B | 3.4B | 4.7E | 5.1 | 5.9 | 4.7 | 4.9 | 8.4 | 4.9 | 5.3 | |
| 12 | 4.7 | 3.9 | 4.7 | 5.4B | 3.2 | 3.4 | 4.0 | 5.1 | 7.5 | 8.3 | 6.8B | 7.7B | 8.1B | 8.8B | {6.3}C | 4.3 | 3.8 | 5.9 | 4.7 | 2.8 | 8.7 | 7.8 | 4.9 | 4.4 | |
| 13 | 4.0 | 2.4 | 2.9 | 2.6 | E | 3.8 | 4.9 | 7.8 | 7.5 | 8.5 | 8.7B | 9.2B | 7.0B | 7.0B | 7.3B | 7.6B | 13.7 | 12.9 | 13.3 | 12.3 | 9.3 | 7.4 | 7.4 | 7.3 | |
| 14 | 4.9 | 4.6 | 3.0 | 2.2 | 2.8 | 2.6B | 4.2B | 5.3 | 6.4 | 7.6 | 5.9 | 5.9B | 4.1B | 5.3B | 4.5B | 4.0B | 4.0 | 3.1 | 3.9 | 3.2 | 2.5 | E | 4.0 | 4.4 | |
| 15 | 6.5 | 8.2 | 4.9 | 5.4 | 4.0 | 3.0 | 4.3 | 4.0 | 6.4 | 6.5 | 4.9 | 5.6 | 5.1B | 5.2B | 5.6B | 5.9B | 4.3B | 4.7 | 3.8 | 2.2 | 4.1 | 8.2 | 8.0 | 7.0 | |
| 16 | 8.5 | 4.0 | 2.8 | 2.8 | 3.0 | 2.8 | 3.0 | 4.5 | 5.4 | 6.2 | 7.6B | 5.8B | 4.7E | 4.3B | 4.2B | 4.7E | 5.3B | 5.3 | 4.8 | 7.7 | 6.0 | 8.2 | 5.9 | 5.4 | |
| 17 | 5.4 | E | E | E | 3.8 | 4.6 | 6.4 | 5.0 | 5.0 | 7.9 | 9.1B | 7.7B | 7.4B | 7.6B | 4.8B | 7.3B | 7.0B | 5.8 | 4.9 | 3.8 | 7.7 | 7.9 | 7.8 | 4.8 | |
| 18 | 5.9 | 3.2 | 3.2 | 4.2 | 4.2B | 2.8B | 4.7 | 7.0B | 6.8 | 8.9B | 9.3 | 7.6B | 12.1B | 13.7B | 8.3B | 5.3B | 7.8B | 8.9 | 5.7 | 4.3 | C | 4.0 | 5.1 | 6.8 | |
| 19 | 7.1 | 9.1 | 7.4 | 7.8 | 7.8 | 4.0 | 5.5 | 5.0 | 7.4 | 7.7B | 7.6 | 10.8B | 8.7B | 6.9B | 9.1B | 9.8B | 7.3 | 6.4 | 5.2 | 5.4 | 4.8 | 2.6 | 6.7 | 6.7 | |
| 20 | 6.0 | 6.4 | 5.4 | 4.7 | 2.3 | 3.5 | 5.0 | 6.3 | 9.2B | 10.2 | 12.1 | 8.2B | 7.0B | 6.6B | 4.7B | 4.8 | 5.2B | 4.5 | 3.6 | 3.0 | 3.0 | 3.0 | 5.1 | 5.4F | |
| 21 | 8.5F | 8.5F | 6.8F | 5.1F | 4.5 | 4.6 | 3.4 | 4.9 | 5.4 | 7.0 | 10.5 | 10.0B | 7.0B | 6.8B | 6.4B | 5.7B | 10.7 | 7.6B | 6.4 | 4.7 | 4.5 | 2.0 | 2.9 | 6.4 | |
| 22 | 7.2 | 9.0 | 3.6 | 2.8 | 2.2 | 3.4 | 4.2 | 4.8 | 5.5 | 5.3 | 5.2 | 8.4B | 7.8B | 5.2B | 4.9B | 4.9B | 6.2 | 5.9 | 3.4 | 3.3 | 6.3 | 5.9 | 6.9 | 5.3 | |
| 23 | 5.9F | 4.2 | 4.0 | 3.6 | E | 3.0 | 3.2 | 4.6 | 4.9 | 4.9 | 5.1B | 5.0B | 4.7E | 5.1B | 6.5B | 8.8B | 6.8B | 4.4B | 4.0 | 4.6 | 4.6 | 4.0 | 2.8 | 2.2 | |
| 24 | 2.8 | 4.2 | 3.8 | 3.2 | 2.6 | 2.5 | 3.2 | 5.2 | 5.1B | 5.3B | 6.8B | 7.8B | 14.1B | 14.2B | 14.0B | 7.3B | 5.9B | 5.4 | 4.4 | 5.3 | 4.8 | 3.8 | 8.2 | 6.3 | |
| 25 | 5.1 | 5.3 | 3.2 | 5.5 | 3.5 | 3.2 | 4.4 | 4.4 | 7.8 | 7.5 | 8.0B | 6.4B | 6.6B | 7.5B | 11.5B | 7.3B | 4.4B | 5.2 | 8.8 | 8.9 | 6.4 | 6.5 | 5.9 | 8.3 | |
| 26 | 3.6 | 2.8 | 2.6 | 2.8 | 3.0 | 2.7 | 3.2 | 4.0 | 5.9 | 5.1 | 5.7 | 5.4 | 5.6B | 4.7E | 6.3 | 5.8B | 6.1B | 5.2 | 5.4F | 3.2 | 8.5 | 7.6F | 8.9 | 8.7 | |
| 27 | 8.2F | 5.4 | 4.2 | 4.0 | E | 3.8 | 5.3 | 8.2 | 6.5 | 7.6 | 4.8 | 5.4B | 9.2B | 4.7E | 4.7E | 4.3 | 5.8 | 6.1 | 8.9 | 3.7 | 3.2 | 2.5 | 2.3 | 2.2 | |
| 28 | 2.1 | 2.1 | 2.5 | 2.4 | 2.9 | 2.9 | 4.4 | 8.2 | 6.8 | 8.0B | 5.9B | 7.9B | 7.5B | 8.9B | 5.3 | 4.3 | C | C | C | C | 2.8 | 3.2 | 5.0 | 3.0 | |
| 29 | 3.2 | 7.6 | 5.2 | 6.4 | 4.8 | 3.5 | 7.2 | 5.4 | 8.6B | 11.8B | 11.4B | 10.8B | 13.0B | 9.3B | 7.2B | 4.8 | 4.7E | 4.7 | 4.2 | 3.8 | 9.3 | 5.0 | 5.4 | 7.0 | |
| 30 | 6.6 | 3.4 | 4.3 | 3.2 | 2.6 | 3.2 | 5.0 | 4.2 | 4.2 | 5.2 | 5.0 | 5.5 | 5.0 | 5.4B | (4.8)B | 4.2B | 4.2 | 4.8 | 5.2 | 6.4 | 4.0 | 5.8 | 5.4 | 7.1 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mode | 5.1 | 4.2 | 3.8 | 3.5 | 2.9 | 3.2 | 4.4 | 5.3 | 6.2 | 7.2 | 6.8 | 7.7 | 7.2 | 6.9 | 6.4 | 5.8 | 5.9 | 5.6 | 5.4 | 4.6 | 6.3 | 5.9 | 6.1 | 5.4 | |
| Count | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 28 | 28 | 28 | 28 | 28 | 28 | 27 | 26 | 26 | 27 | 27 | 28 | 29 | 29 | |

fEs

Group 2.0 Mc to 1.5.0 Mc in 1.5 min

Manual Automatic

IONOSPHERIC DATA

135° E Mean Time

Jun. 1946

(M3000)F2

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|--------|-------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|--------|--------|--------|--------|--------|--------|--------|--|
| 1 | 2.8 | 3.0 | 2.8 | (2.7) | 2.9 | 3.1 | 3.3 | 3.3 | 3.3 | 3.3 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | A | A | S | S | A | S | 3.1 | (3.0)S | (2.9)S | |
| 2 | (2.8)S | (2.7) | F | F | 3.0 | 3.3 | 3.5 | 3.5 | {3.1}S | 2.9 | 3.0 | 3.1 | 2.9 | 3.0 | 3.0 | 3.1 | 3.2 | 3.4 | {3.3}A | {3.2}A | 2.8 | (2.8)S | {3.0}F | 2.7 | |
| 3 | F | F | F | F | F | F | (3.0) | 3.2 | 3.2 | 3.1 | 3.0 | 2.8 | 3.0 | {2.9}J | 3.0 | C | 3.3 | 3.2 | 3.2 | 3.0 | {2.9}J | {2.9}F | {2.9}F | 3.1 | |
| 4 | F | F | F | F | F | F | 3.4 | 3.4 | 3.6 | 3.5 | 3.3 | 3.0 | 3.0 | C | C | (3.0) | 3.1 | (3.0) | 3.2 | 3.1 | 3.4 | 3.0 | F | F | |
| 5 | F | F | F | F | F | F | 3.4 | 3.5 | 3.2 | 3.3 | 3.0 | 3.3 | {3.3}A | {3.2}A | 3.2 | 3.3 | 3.4 | {3.4}A | {3.4}A | 3.5 | J | A | F | F | |
| 6 | F | F | F | F | 2.9 | 3.3 | 3.8 | 3.0 | (2.9) | 3.3 | 2.9 | 3.0 | (2.7) | 3.1 | 3.2 | 3.5 | C | C | (3.2) | 3.1 | (3.1) | 3.4 | S | F | |
| 7 | F | F | F | F | F | 2.8 | 3.1 | 3.1 | 3.5 | {3.2}A | 3.4 | 2.9 | 3.2 | {3.2}A | A | A | C | C | C | C | C | C | (2.9)F | (2.8)F | |
| 8 | {3.0}J | 3.2 | {3.0}J | {2.8}J | 2.7 | 2.8 | 2.7 | 3.2 | 2.8 | A | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 9 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 10 | 2.9 | (2.8) | 3.1 | 3.0 | 3.2 | 2.9 | (2.5) | F | B | A | A | A | C | A | A | 3.0 | 3.3 | 3.4 | {3.3}J | 3.3 | 2.9 | 2.9 | 2.9 | 3.0 | |
| 11 | J | (2.8) | 2.9 | 2.8 | 2.8 | 3.4 | 4.0 | 3.4 | J | J | 2.9 | {3.0}A | 3.1 | 3.1 | 3.3 | 3.3 | 3.1 | 3.3 | 3.2 | 3.4 | 3.3 | J | J | J | |
| 12 | J | J | 3.4 | 3.1 | 2.8 | 2.9 | 3.3 | 3.3 | 3.3 | (3.7) | 2.7 | 2.9 | 2.8 | 3.2 | {3.3}C | 3.5 | 3.6 | 3.5 | 3.7 | 3.3 | A | C | C | C | |
| 13 | 3.1 | 3.2 | 3.1 | 3.2 | 3.0 | 3.1 | J | J | A | A | A | A | A | A | J | J | A | A | A | A | A | A | A | 2.8 | |
| 14 | 2.9 | 3.2 | 3.1 | 3.0 | 3.2 | 3.3 | 3.4 | 3.0 | 3.1 | A | A | 2.8 | 2.9 | 2.9 | 3.0 | 3.1 | 3.3 | 3.1 | 3.2 | 3.1 | 3.0 | 2.8 | 3.0 | 2.8 | |
| 15 | 2.8 | 2.8 | {2.9}J | 3.1 | J | J | 3.1 | 3.2 | J | A | 2.6 | 3.4 | 2.8 | 3.1 | 3.1 | 3.2 | 3.1 | 3.1 | 3.1 | 3.1 | 3.0 | 2.8 | A | J | |
| 16 | J | J | 2.9 | J | J | 3.3 | 3.3 | 3.3 | 3.3 | 3.6 | 3.4 | 3.1 | 3.1 | 3.1 | 3.1 | 3.2 | 3.2 | 3.3 | 3.2 | 3.2 | 3.0 | J | J | J | |
| 17 | 2.9 | 2.8 | {2.9}J | 3.0 | 2.9 | 3.2 | 3.6 | 3.2 | 3.5 | {3.4}J | 3.3 | 3.2 | 3.0 | 3.3 | 3.1 | 2.9 | 3.1 | 2.9 | 3.2 | 3.1 | 2.9 | 2.8 | 2.8 | 2.6 | |
| 18 | 2.8 | 2.7 | 2.9 | 2.8 | 2.8 | 3.2 | 3.2 | 3.1 | {3.0}J | 3.0 | {3.0}A | 3.0 | 2.8 | {2.9}A | (3.1) | 3.1 | 3.2 | 3.1 | 3.1 | 3.0 | (2.9)C | 2.8 | J | J | |
| 19 | J | J | J | 2.5 | 2.5 | 2.9 | 3.3 | 3.2 | 3.1 | 2.9 | 2.8 | 3.1 | 2.8 | 2.8 | 2.7 | {2.7}S | 2.8 | 2.8 | (2.9) | 3.1 | (2.9) | 2.9 | 3.0 | J | |
| 20 | F | F | F | F | 2.9 | 2.8 | 2.9 | 3.0 | 3.1 | A | A | A | 2.7 | 2.9 | 3.2 | 3.1 | 2.9 | 3.2 | 3.1 | 2.8 | 2.9 | 2.8 | 2.8 | J | |
| 21 | J | J | J | J | 2.7 | 3.1 | 3.3 | 3.3 | 3.4 | 3.3 | 2.9 | 2.9 | 2.8 | 2.8 | 3.1 | 3.1 | J | S | S | 3.4 | 3.1 | (3.0)J | 2.9 | J | |
| 22 | F | F | F | F | F | 3.0 | 3.2 | 3.5 | 3.3 | 3.0 | 3.0 | 2.9 | 3.0 | 3.0 | 3.2 | 3.1 | 3.4 | 3.3 | 3.2 | 3.1 | 2.9 | 2.9 | F | F | |
| 23 | F | F | (2.9) | {2.9}F | (3.0) | 3.3 | 3.1 | 3.3 | 3.1 | 3.2 | 2.8 | 2.9 | 3.3 | 2.9 | 3.0 | 3.1 | 3.3 | (3.3) | 3.1 | 3.0 | 2.9 | 3.0 | 3.0 | 3.0 | |
| 24 | 3.0 | 3.2 | 2.9 | {2.9}S | 3.0 | 3.2 | 3.3 | 3.4 | 3.1 | 3.0 | 2.9 | 3.0 | A | A | A | 3.3 | 3.3 | 3.2 | 3.2 | 3.2 | 2.8 | 2.9 | F | F | |
| 25 | J | F | F | F | F | 3.0 | 3.1 | 3.4 | 3.8 | 3.1 | 2.8 | 3.0 | 2.9 | 3.0 | (3.1) | 3.0 | 2.9 | 3.0 | 3.2 | 3.0 | 2.8 | 2.9 | 2.7 | F | |
| 26 | J | 3.3 | 3.1 | 2.9 | 2.9 | 2.8 | 3.2 | 3.5 | 3.7 | 2.9 | 2.8 | 3.0 | 3.0 | 3.2 | 3.1 | 3.4 | 3.2 | 3.1 | 3.1 | 3.0 | F | F | F | F | |
| 27 | F | F | F | F | F | F | F | 3.0 | 3.1 | {2.9}A | 2.8 | 2.8 | 2.8 | 2.9 | 3.1 | 3.0 | 2.8 | 2.9 | 3.0 | 3.1 | 3.0 | 2.9 | 3.0 | 2.9 | |
| 28 | 2.9 | 3.0 | 3.1 | 3.2 | 3.2 | 3.6 | 2.9 | 2.9 | (2.8) | (3.0) | 3.0 | 2.9 | 3.0 | 3.1 | 3.1 | 3.1 | C | C | C | C | 2.9 | 2.9 | 2.9 | 2.8 | |
| 29 | F | F | F | F | 2.9 | 3.0 | 3.3 | 3.1 | 2.7 | {2.6}A | 2.6 | 2.9 | 2.7 | 3.1 | 2.7 | 2.7 | 2.9 | 2.9 | 3.0 | 3.0 | 2.7 | 2.7 | 2.6 | 2.6 | |
| 30 | 2.8 | 2.8 | 3.0 | 2.9 | 2.9 | (2.9) | 2.9 | {2.8}J | 2.7 | 3.1 | 3.0 | 3.0 | {3.0}J | 3.1 | (3.1) | 3.1 | 3.0 | 3.2 | 3.2 | 3.2 | 3.0 | F | 2.9 | 2.9 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 3.1 | 3.2 | 3.2 | 3.1 | 3.1 | 2.9 | 3.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.2 | 3.2 | 3.2 | 3.1 | 2.9 | 2.9 | 2.9 | 2.8 | |
| Count | 12 | 14 | 16 | 16 | 20 | 26 | 27 | 27 | 25 | 22 | 24 | 25 | 25 | 25 | 25 | 26 | 22 | 22 | 23 | 24 | 23 | 21 | 18 | 14 | |

(M3000)F2

Sweep _____ Mc to _____ Mc in _____ min
 Manual Automatic

Lat. 35° 42.4' N
Long. 139° 28.8' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

foF2

Jul 1946

| 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 | (8.4)F | 7.3F | 7.4F | 7.6 | 6.6 | 8.1 | 8.7 | 9.4 | 8.9J | A | C | 8.9 | (8.9) | 10.1 | 10.1 | 9.4 | 8.3 | (8.0)C | 7.7 | 7.4 | 7.3 | 7.3 | C | C | |
| 2 | 7.5 | 7.8F | 7.6F | 7.0 | 6.7F | 7.2 | 8.6 | 8.6 | 7.7 | 7.2 | 7.1 | 7.3 | 7.1 | 7.1 | 8.1 | 7.9 | 7.6 | 8.1J | (7.7)J | 7.3J | (7.0)S | 6.7 | 7.3 | 6.1 | |
| 3 | C | C | C | C | C | 6.4 | 7.4 | 7.0 | 7.1 | 7.3 | 6.4 | 7.2 | 7.4 | (8.1)C | 8.8 | 8.5 | 7.4 | 4.3 | 8.2 | 8.5 | 8.1 | 8.0 | 7.6 | 7.3 | |
| 4 | 7.5 | 6.8J | 7.4 | 7.5F | 7.5F | 8.4 | 8.1 | 6.3 | C | C | C | C | C | C | C | C | 7.7J | 7.5 | 7.5 | 6.9J | 6.7 | 6.9 | 6.9 | (7.5)F | |
| 5 | (7.9)F | (8.3)F | 6.7F | 6.0J | 5.6 | 5.8 | 7.9H | 5.8 | 8.0 | 6.8 | 6.5 | 7.4 | 7.7 | 8.7 | 9.6 | 8.2 | 7.2 | 7.2 | 7.5 | (7.6)A | 7.7 | 8.0 | 7.8 | 7.5 | |
| 6 | 7.2 | 7.3 | 7.2 | 7.1 | 7.1 | 7.5 | 7.7 | (6.8)C | C | C | C | C | C | C | C | C | 8.2H | 9.1 | (8.6)C | 7.9 | 7.6 | 7.9 | 8.1 | 8.0 | |
| 7 | 7.4 | 7.5 | 7.1 | 6.7 | 6.6 | 7.4 | 8.6 | C | C | C | C | C | C | C | C | 8.3 | 8.7 | 4.5 | (8.9)A | 8.3 | 6.5H | 7.5 | 7.2 | 7.4 | |
| 8 | 7.2 | 7.3 | 7.0 | 6.2F | 5.6 | 6.0H | 4.8 | 6.9 | 6.8B | 6.8 | 7.4 | 7.4 | 7.8 | 8.1 | 7.3 | 6.5 | (6.7)A | 6.7 | 7.1 | 7.0 | 6.9 | 6.8J | 6.8 | 6.5 | |
| 9 | 6.1F | 5.8 | 6.4 | 5.7F | 5.4F | 5.2 | 6.3 | 6.9 | 7.1 | 7.3 | 7.9 | 9.1 | 9.5 | (9.4)C | 9.2 | 8.5 | (7.5)C | 6.7 | 6.4 | 7.2 | 6.9 | 7.6 | 7.6 | 7.9 | |
| 10 | 7.5 | 6.8 | 6.3 | (6.3) | 6.2 | 6.1 | 7.0 | 6.1 | 7.2 | A | A | 7.4 | 8.2 | 8.6 | 8.2 | 7.7 | 7.4 | (7.9)C | 8.4 | (8.4)C | 8.5 | 8.0 | 7.8 | 7.9 | |
| 11 | 7.4 | 7.7 | 7.1 | 6.9 | 6.3 | 6.6 | 7.8 | 8.3 | 8.4 | 7.8 | 7.7 | 9.0 | C | C | C | C | C | C | 9.3 | 7.5 | 7.2 | 7.6 | 7.9 | (7.5) | |
| 12 | (7.6)F | 7.6 | 7.2 | 6.6 | 6.5 | 7.0 | 8.5 | 7.3 | 6.5J | 7.3 | 7.2 | 7.7K | 6.2K | 7.0K | (7.0) | C | C | 7.0 | 6.5 | 6.5 | 5.8J | 6.3 | 6.4 | (6.5) | |
| 13 | (6.2)F | 6.0F | 5.8 | 5.6 | 5.5 | 5.3 | 7.0 | 9.4S | 7.8 | 7.1 | 7.9 | 7.8 | 8.3 | 8.7 | 9.1 | 8.6 | 8.0 | 8.4 | 7.7 | 7.3 | 6.8 | (7.9)F | 8.1K | 8.1 | |
| 14 | 7.3 | 6.9 | 7.2 | 6.2 | 6.2 | 6.5 | 7.4 | 7.0 | 7.3K | 6.7K | 7.4 | 7.3 | C | C | C | C | C | 7.8 | 8.3 | 8.6 | 7.7 | 8.3 | 8.3 | 7.5 | |
| 15 | 7.7 | 7.4 | 7.6 | 6.2 | 6.9 | 7.1 | 6.9 | 7.0 | 7.1 | 7.1 | C | C | C | C | 5.9K | 5.2K | 5.7K | (6.1)C | 6.5 | 6.2 | (6.5) | 6.7 | 6.8 | 7.4F | |
| 16 | 7.0 | 6.7 | 6.4 | 6.2 | 5.6 | 5.8 | 8.3H | 8.2 | 8.0 | 8.3 | 9.1 | 9.4 | (9.2)C | 8.9 | C | C | C | C | C | C | (9.0) | (9.3)J | (9.0)J | | |
| 17 | 8.3F | (8.3)J | 7.2 | 6.6F | (6.7)F | 6.4 | 7.0 | 7.4 | C | C | C | 6.9 | 7.5 | 8.5 | 8.8 | 8.8 | 8.4J | 8.0 | 8.7 | 8.8 | 7.6 | 7.5 | 7.4 | 7.6 | |
| 18 | 8.2 | 7.9H | 8.3F | 7.4F | 6.6 | 6.0 | 6.9H | 7.6 | 8.3J | (4.0) | 9.1 | 8.7 | 8.5 | 8.2 | 7.5 | 7.6 | 8.3 | 8.9 | 9.3 | 9.2H | 8.7H | 8.6 | 8.7 | 8.3 | |
| 19 | 7.7F | 8.5 | 7.5H | (6.4) | 6.0F | 5.5 | 5.7J | 6.7F | 7.7J | 7.6H | 7.4 | 8.2 | 8.9J | 9.0 | 9.4 | 10.3 | 9.6 | 8.2 | 8.2 | 7.5 | 8.0 | 8.2 | 7.9F | 7.9F | |
| 20 | (9.2)F | (8.8)F | (7.9)F | (8.2)F | C | C | 8.6 | 8.0 | (6.8)C | 5.9K | A | C | C | C | C | C | 6.3 | 6.1 | 5.6 | 5.6 | 6.5 | 6.5F | 6.5F | 6.3S | |
| 21 | 6.6 | 6.5 | 5.8 | 5.4 | 5.3 | 5.6 | 7.0 | 8.1 | 7.2 | 7.6 | 8.1K | 8.1K | 8.5H | 8.5 | 7.8 | 7.8 | 7.1 | 5.0S | 7.1H | 7.6 | 8.0 | 7.8 | 7.6 | 7.6 | |
| 22 | 7.6H | 7.7 | 7.3 | (6.9) | 6.8F | 7.4 | 8.5H | 8.9H | 9.0 | 8.7 | 8.5 | 8.9 | 9.3 | 11.0 | 9.3 | 8.5 | 8.1 | (8.7)C | 9.3 | 9.3 | 8.6F | C | C | C | |
| 23 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | 8.6 | 8.4 | 7.7 | 6.7H | 7.1 | 7.2 | 7.4 | |
| 24 | 7.4 | 7.4 | 6.3 | 6.1 | 6.2 | 6.0H | 6.8 | 7.3H | 7.3H | 7.9B | 7.4 | 7.9 | 8.4 | 9.3 | 9.3 | 9.0 | 7.5H | 8.2 | 8.9 | 8.5A | 8.4 | 8.4 | 8.3 | 7.4B | |
| 25 | 7.3B | FK | 7.2JF | (7.8)F | 6.2F | 6.9 | 7.6F | 9.2B | 8.7J | 8.1 | 8.9 | (9.1)K | (9.4) | 9.0B | 8.1 | 8.8 | 8.7 | 9.2 | 8.7 | 8.5 | 8.4 | 9.1 | 8.6 | 8.2H | |
| 26 | 7.5B | 7.5 | 6.8 | 6.3 | 6.2 | 6.8H | 8.2 | 8.6 | 8.6B | 8.8K | 8.0K | (9.3)K | C | C | (9.5) | 9.0H | 8.5B | 8.5B | 8.7 | 8.6 | 7.6 | (7.6)F | 7.8F | 7.6 | |
| 27 | 7.5 | 6.8 | (6.9) | 6.4 | 6.3 | 6.2H | 6.9H | 6.3 | AK | 8.9 | 8.1 | ABK | 8.7K | 9.6K | 9.1 | 8.3 | 8.6 | 7.8H | 6.8H | 6.3H | 6.3 | 5.9 | 5.8J | 6.0 | |
| 28 | 6.4 | 6.6 | 6.3 | 6.4B | 6.3 | 6.5 | 8.4 | 9.3B | 9.6 | 9.4 | 8.6 | 8.3 | A | 8.5 | 7.9 | A | 7.9 | B | 8.8 | 8.6 | 8.5F | 8.3F | 7.6 | 8.1 | |
| 29 | (8.1)FK | 8.8FK | 8.6FK | (8.3)FK | 7.0 | 6.7 | 6.7 | 8.0 | 7.8 | 7.7 | 7.4 | 9.0J | 9.6 | 8.9 | 9.5 | 9.9 | 8.7 | 8.9 | 9.5 | (9.5) | 8.4 | (7.9)FK | 8.2 | 8.3 | |
| 30 | 7.8 | 7.8 | 7.6 | 6.6 | 5.6 | 6.2 | 8.6 | 9.6 | 9.0 | 9.2 | (9.2)C | 9.3 | 9.6K | 10.1 | 9.9 | 9.6 | 8.3 | 8.2 | 7.6 | 7.2 | 6.8 | 7.4 | 6.4S | 7.6 | |
| 31 | 7.4 | 6.8F | (6.6) | 6.0 | 5.7 | (5.2) | 6.4 | 7.8 | 8.4 | 7.8 | 8.7 | 8.9 | 9.7 | 9.6 | 8.7 | 8.3 | A | A | (7.9) | 7.9 | 7.9 | 8.2 | 8.0 | 7.7 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 7.5 | 7.4 | 7.2 | 6.4 | 6.3 | 6.4 | 7.7 | 7.6 | 7.8 | 7.7 | 7.9 | 8.3 | 8.5 | 8.8 | 8.8 | 8.5 | 8.1 | 8.0 | 8.2 | 7.8 | 7.6 | 7.7 | 7.6 | 7.6 | 7.6 |
| Count | 2.9 | 2.8 | 2.9 | 2.9 | 2.8 | 2.9 | 3.0 | 2.9 | 2.5 | 2.3 | 2.2 | 2.4 | 2.1 | 2.2 | 2.3 | 2.2 | 2.5 | 2.7 | 3.0 | 3.0 | 3.1 | 3.0 | 2.9 | 2.9 | 2.9 |

foF2

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

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

IONOSPHERIC DATA

135° E Mean Time

Jul 1946 **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 | (250)F | 280 | 290 | 290 | 270 | 260 | {270}A | 280 | A | A | C | 300 | 300 | 300 | 270 | 260 | 300 | {270}C | 230 | 230 | 240 | 260 | C | C | |
| 2 | 270 | (270) | 260 | 250 | 270 | 210 | 240 | 240 | 260 | 300 | (320) | 320 | 360 | 360 | 330 | 300 | 340 | A | A | S | A | A | 320 | A | |
| 3 | C | C | C | C | C | (270)A | 320 | 330 | 340 | (280) | 280 | 340 | 350 | {330}C | 310 | 300 | 340 | 360 | 280 | 250 | 290 | A | A | 310 | |
| 4 | 280 | 260 | 300 | (300)A | 250 | 250 | (270)A | 280 | C | C | C | C | C | C | C | C | A | 270 | 270 | {260}A | 250 | {300}A | 300 | 270 | |
| 5 | 280 | 270 | 220 | {260}A | 280 | (240)A | 230 | 270 | 240 | (240)A | (280) | 350 | 320 | 310 | 280 | 270 | (290)A | 260 | A | A | A | (270)A | (270)A | 250 | |
| 6 | 240 | 240 | {260}A | 290 | 250 | 230 | 230 | 210 | C | C | C | C | C | C | C | C | 300 | 290 | {250}C | 230 | 260 | 300 | 280 | 270 | |
| 7 | 260 | 240 | 240 | 240 | 260 | 260 | 220 | 240 | C | C | C | C | C | C | C | 340 | 330 | 310 | {280}A | 220 | 220 | 300 | {300}A | {310}A | |
| 8 | 280 | 280 | (260)A | 270 | (340)A | 290 | 330 | {340}A | 240 | 400 | 330 | 330 | 310 | 320 | 320 | 310 | {320}A | 320 | 290 | 260 | 250 | {280}A | 270 | 250 | |
| 9 | 280 | 310 | A | A | 290 | 250 | 330 | 340 | 310 | 320 | 340 | 300 | 300 | {300}C | 300 | 280 | 270 | {270}C | 250 | 260 | 280 | {300}A | 310 | 300 | |
| 10 | 280 | 280 | 290 | 290 | 270 | 250 | 270 | 210 | A | A | 330 | 330 | 320 | 300 | 290 | 300 | 290 | {270}C | 260 | 240 | 230 | 250 | 270 | 250 | |
| 11 | 260 | 260 | 250 | 270 | 280 | 260 | 250 | {250}A | 270 | {300}A | 400 | 330 | C | C | C | C | C | C | 240 | 240 | 250 | 280 | 280 | 260 | |
| 12 | 290 | {260}A | 230 | 240 | {210}A | 240 | 270 | 290 | {310}A | 300 | 290 | 290 | 450 | 350 | 360 | C | C | 280 | 250 | 230 | 210 | 250 | 260 | 240 | |
| 13 | {240}A | 250 | 260 | 240 | 240 | 250 | 240 | 220 | 230 | 260 | {330}A | 280 | 280 | 280 | 280 | 290 | 290 | 280 | 220 | 220 | 210 | 290 | 270 | 260 | |
| 14 | 220 | 240 | 240 | 210 | 230 | 240 | 240 | {260}A | 250 | 300 | 300 | A | C | C | C | C | C | 270 | 240 | 220 | 240 | 260 | 230 | 250 | |
| 15 | {270}A | 260 | 200 | 260 | 280 | 240 | {280}A | 320 | 290 | C | C | C | C | C | 380 | 410 | 400 | {310}C | 260 | 240 | (230) | {260}A | 260 | {270}A | |
| 16 | (280)A | 240 | {240}A | 240 | 240 | 240 | (230)A | 230 | (230)B | (310)A | 270 | (270)C | (270)A | 270 | 280 | C | C | C | C | C | 230 | 190 | 210 | 230 | |
| 17 | 240 | 230 | 220 | 270 | 280 | 250 | 230 | 270 | C | C | C | C | 370 | 370 | 300 | 300 | 260 | 280 | 260 | 220 | 210 | 240 | 250 | 290 | |
| 18 | 270 | 260 | 250 | 230 | 220 | 230 | 260 | 280 | 280 | 260 | 280 | 300 | 320 | (290)A | 320 | 320 | 310 | 265 | 240 | 220 | 220 | 230 | 250 | (270) | |
| 19 | (270) | 230 | 220 | 280 | 280 | 240 | 220 | A | 280 | (280)A | 370 | 335 | A | 310 | 310 | 280 | 250 | 260 | 270 | 230 | (280) | 280 | (300) | 280 | |
| 20 | 260 | 240 | 240 | 260 | C | C | 290 | 290 | C | (400)K | A | C | C | C | C | C | 300 | 260 | 250 | 310 | 310 | 310 | 270 | 310 | |
| 21 | 300 | 300 | 250 | (280) | 300 | 260 | 220 | 290 | 260 | 380 | 320 | 320 | 320 | 330 | (310)A | 300 | 290 | 230 | 320 | 270 | 240 | 270 | 270 | 300 | |
| 22 | 300 | 300 | 280 | (260)A | 330 | 260 | 230 | 240 | 250 | 290 | 300 | 350 | 320 | 310 | 290 | 300 | 330 | C | 270 | 260 | 280 | C | C | C | |
| 23 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | 280 | 260 | 230 | 230 | 290 | 290 | |
| 24 | 280 | 250 | 240 | 300 | 270 | 240 | 230 | 230 | 210 | 280 | 250 | 310 | 320 | 310 | 290 | 280 | 230 | 260 | (260)A | A | 250 | A | (290)A | (270)A | |
| 25 | A | 300K | 300 | 260 | 240 | 240 | (220)B | 250 | 220 | 350 | 290 | BK | 300 | B | 310 | 300 | 300 | 260 | 250 | 230 | 250 | 280 | 250 | 240 | |
| 26 | 250 | 250 | 240 | 260 | 300 | 260 | 280 | 280 | (320)B | BK | BK | BK | C | C | 270 | (270)B | (240)B | 250 | 250 | 230 | (230)A | 300 | (300)A | 280 | |
| 27 | 250 | 250 | 270 | 260 | A | A | A | A | ABK | 340 | 440 | ABK | 340K | (250)K | (300)A | 390 | 320 | 350 | 310 | 300 | 240 | 250 | A | (300) | |
| 28 | 340 | 260 | 290 | 320 | 250 | 220 | 220 | B | 260 | (250)A | 260 | (310)A | A | (370)A | (380)A | A | 320 | B | (270)A | 230 | AK | AK | (250)A | (300)A | |
| 29 | 290K | 280K | 250K | 250K | 250 | 220 | 220 | 250 | 280 | 350 | 240 | 360 | 320 | 310 | 310 | 270 | 260 | 290 | 250 | 230 | 210 | AK | AK | 300 | A |
| 30 | 290 | 260 | 250 | 250 | 330 | 350 | 290 | (270)A | A | A | C | 400 | (420)B | 390 | 320 | 300 | 290 | 280 | 260 | 250 | 300 | 300 | 300 | A | |
| 31 | (300)A | 300 | 280 | (270)A | 270 | 280 | 220 | 300 | 280 | A | (350)A | 300 | 340 | 310 | 310 | 320 | A | A | A | 260 | 240 | 260 | 240 | 240 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 280 | 260 | 250 | 260 | 270 | 250 | 240 | 270 | 260 | 300 | 300 | 320 | 320 | 310 | 310 | 300 | 300 | 270 | 260 | 230 | 240 | 280 | 270 | 270 | |
| Count | 28 | 29 | 28 | 28 | 28 | 29 | 29 | 27 | 21 | 20 | 20 | 21 | 20 | 21 | 24 | 22 | 24 | 25 | 27 | 27 | 28 | 25 | 27 | 26 | |

R'F2

Sweep 2.0 Mc to 1.50 Mc in 1.5 min Manual Automatic

K2

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

Lat. 35° 42.4' N
Long. 139° 28.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

f_oF1

Jul. 1946

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 | L | A | A | A | C | 5.4 | {5.5}A | 5.5B | 5.2 | 5.3 | C | A | L | | | | | | |
| 2 | | | | | 2.3 | A | 3.4 | 4.6 | {4.8}A | 4.9 | L | 5.2 | 5.5 | 5.2 | L | A | A | A | L | | | | | | |
| 3 | | | | | A | A | A | A | A | A | 4.4 | 5.5 | C | C | A | 5.1 | 5.0 | 4.8 | L | L | | | | | |
| 4 | | | | | A | A | A | 4.5 | C | C | C | C | C | C | C | C | A | A | L | L | | | | | |
| 5 | | | | | A | A | L | 4.4 | 4.7 | A | L | 5.7J | A | 5.2 | 5.3 | 5.1B | {4.8}A | 4.5 | A | L | | | | | |
| 6 | | | | | A | A | A | A | C | C | C | C | C | C | C | C | A | 4.5 | C | L | | | | | |
| 7 | | | | | 2.2J | L | L | L | C | C | C | C | C | C | C | {5.0}A | L | 4.9J | A | L | | | | | |
| 8 | | | | | A | A | A | A | A | 5.3 | 5.5 | 5.6 | 5.2 | 5.4 | 5.1B | 5.0J | A | L | 4.2 | L | | | | | |
| 9 | | | | | E | 4.0 | 4.6 | L | A | A | L | 4.9 | 5.2 | {5.2}C | {5.1}C | 5.1 | {4.8} | C | L | A | | | | | |
| 10 | | | | | L | L | L | A | A | A | A | 5.2 | 5.2 | 5.5 | 5.4 | A | 4.9 | C | L | C | | | | | |
| 11 | | | | | L | A | A | A | A | L | 5.7 | 5.1 | C | C | C | C | C | C | L | L | | | | | |
| 12 | | | | | L | L | L | A | {5.0}A | 5.0 | {5.1} | 5.5 | B | {5.4}B | 5.6 | C | C | {4.4} | L | L | | | | | |
| 13 | | | | | L | L | L | L | B | B | A | L | 5.2 | 5.2 | 5.2 | 5.5 | 5.0 | LH | L | 2.4 | | | | | |
| 14 | | | | | L | L | L | {4.6}J | 5.1 | L | 5.2 | A | C | C | C | C | C | 4.6 | A | L | | | | | |
| 15 | | | | | L | A | A | {4.6}A | A | C | C | C | C | C | 5.0 | L | 4.5B | {4.2}C | 3.8 | A | | | | | |
| 16 | | | | | E | A | A | A | B | A | {5.1} | C | A | A | 5.2 | C | C | C | C | | | | | | |
| 17 | | | | | L | L | L | 4.8 | C | C | C | 5.3 | 5.1 | 5.3 | {5.2} | 5.3 | {4.6} | 4.5 | {4.1} | | | | | | |
| 18 | | | | | E | A | A | {4.6} | 4.8 | {5.1}A | 5.4 | 5.9 | {5.4}J | {5.4}A | 5.4 | A | 4.8 | 4.7 | A | | | | | | |
| 19 | | | | | A | A | A | A | 5.0 | {4.9}A | 4.8 | 5.5 | {5.6}A | 5.6 | 5.5 | 5.2 | {4.7} | A | A | | | | | | |
| 20 | | | | | A | A | A | A | A | 5.0J | A | C | C | C | C | C | 4.7 | 4.8 | A | A | | | | | |
| 21 | | | | | {3.9}J | {4.9}J | 5.7 | 4.3B | 6.0B | B | B | B | B | B | 5.5K | 5.4 | L | A | A | | | | | | |
| 22 | | | | | 2.0 | 3.7 | 4.2 | {4.8}A | 5.4 | 5.4 | 5.6J | 5.5 | 5.3 | {5.4} | 5.0 | C | 4.9 | C | A | L | 2.6 | | | | |
| 23 | | | | | C | C | C | C | C | C | C | C | C | C | C | C | C | 4.6 | L | L | | | | | |
| 24 | | | | | E | A | A | 3.7 | L | B | 5.5B | B | 6.0K | 5.5K | 5.5B | 5.4 | L | A | A | | | | | | |
| 25 | | | | | | | | 4.8J | B | 6.1 | 5.2 | BK- | 5.6 | B | 4.8K | {5.4}B | 5.4 | 4.5 | A | A | | | | | |
| 26 | | | | | | | | A | B | B | BK | BK | C | C | BK | B | 4.4 | L | 3.6 | | | | | | |
| 27 | | | | | | | | A | A | A | 6.2J | 5.7 | AB | ABK | AK | A | 5.0 | L | A | | | | | | |
| 28 | | | | | | | | A | B | A | A | 5.5 | A | A | A | A | {5.0} | 5.0J | A | | | | | | |
| 29 | | | | | | | | A | L | 5.5 | 5.9 | 6.1B | 6.0B | 5.6 | 5.6 | A | 5.2 | {4.6} | AE | E | | | | | |
| 30 | | | | | | | | L | L | A | A | C | 5.9 | BK | 6.0K | 5.7K | 5.5K | 4.9 | 3.7 | A | | | | | |
| 31 | | | | | | | | 3.1 | 4.5 | 5.2 | A | 5.6 | 6.0 | 5.6B | 5.4 | 5.7 | A | A | A | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | | | | | | | | | | | | | | | | | | | | | | | | | |

f_oF1

Sweep 2.0 Mc in 5.0 Mc in min

Manual Automatic

K 3

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

IONOSPHERIC DATA

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

JUL 1946

f'F1

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|--------------|----|----|----|----|----|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|----|----|
| 1 | | | | | | A | A | A | A | A | C | A | A | A | B | 220 | 210 | {210}C | 210 | 220 | | | | |
| 2 | | | | | | 190 | {210}A | 200 | A | A | A | (200) | {280}A | A | (200)A | A | A | A | A | A | A | | | |
| 3 | | | | | | A | A | A | A | A | A | 180 | A | C | A | A | (190)A | 220 | A | A | A | | | |
| 4 | | | | | | A | A | 220 | C | C | C | C | C | C | C | C | A | A | A | A | A | | | |
| 5 | | | | | | A | 230 | 210 | 190 | A | (200)B | A | A | (250)A | (200)A | 200 | A | A | A | A | A | | | |
| 6 | | | | | | A | A | A | C | C | C | C | C | C | C | C | A | A | A | A | A | | | |
| 7 | | | | | | | 190 | 230 | C | C | C | C | C | C | C | 240 | {210}A | A | A | A | A | | | |
| 8 | | | | | | A | A | A | {200}A | 190 | 220 | 200 | {270}A | 250 | A | A | A | A | A | A | A | 240 | | |
| 9 | | | | | | E | 210 | 210 | {200}A | (180)A | (190)A | {220}A | 210 | C | C | 190 | (200)A | C | 220 | A | A | | | |
| 10 | | | | | | 240 | 230 | A | A | A | A | 190 | 180 | {190}A | 240 | {220}A | (200)A | {210}C | (210)A | C | | | | |
| 11 | | | | | | 250 | A | A | A | 200 | {180}A | (180)A | C | C | C | C | C | C | C | 200 | 230 | | | |
| 12 | | | | | | A | 230 | {220}A | {210}A | 200 | 180 | A | B | A | A | C | C | A | (210)A | 220 | | | | |
| 13 | | | | | | 230 | 190 | A | B | B | A | A | A | (200)A | 180 | 190 | 190 | 200 | 210 | 230 | | | | |
| 14 | | | | | | 210 | {200}A | {190}A | 170 | 180 | A | A | C | C | C | C | C | (180)A | {210}A | 240 | | | | |
| 15 | | | | | | 240 | A | A | A | C | C | C | C | C | C | 170 | (160)B | {180}C | 210 | A | | | | |
| 16 | | | | | | E | A | A | B | A | A | C | A | A | A | C | C | C | C | C | | | | |
| 17 | | | | | | 250 | 210 | (190)B | C | C | C | C | A | A | A | A | 190 | 208 | 200 | | | | | |
| 18 | | | | | | E | A | 200 | A | A | 200 | (200)A | A | A | (220) | A | (250) | 205 | A | | | | | |
| 19 | | | | | | | A | A | A | A | 200 | (200)A | A | A | A | 210 | 200 | A | A | | | | | |
| 20 | | | | | | | A | A | A | A | A | C | C | C | C | C | 220 | A | | | | | | |
| 21 | | | | | | | 250 | 210 | (180)B | B | B | B | B | B | A | B | 220 | 230 | 230 | 250 | | | | |
| 22 | | | | | | 230 | 200 | A | A | 190 | 200 | A | A | A | (210)A | 230 | 210 | C | A | | | | | |
| 23 | | | | | | C | C | C | C | C | C | C | C | C | C | C | C | 220 | 230 | 240 | | | | |
| 24 | | | | | | E | 220 | 200 | A | 180 | 240 | BK | (250)B | BK | 250 | 210 | (220)A | A | A | A | | | | |
| 25 | | | | | | | 230 | B | B | 210 | 200 | B | B | B | BK | (220)B | A | (220)A | A | A | | | | |
| 26 | | | | | | | A | B | B | BK | BK | BK | C | C | BK | B | 200 | (200)A | 220 | | | | | |
| 27 | | | | | | | A | A | A | A | A | AB | ABK | AK | A | A | A | A | A | A | | | | |
| 28 | | | | | | | A | B | A | A | (220)A | A | A | A | A | A | 230 | A | A | | | | | |
| 29 | | | | | | | A | (210)A | 190 | 180 | 220 | B | B | B | 240 | A | (180)A | 240 | AF | E | | | | |
| 30 | | | | | | 260 | 210 | A | A | A | C | 230 | BK | BK | BK | 250K | 220K | 240 | 240 | A | | | | |
| 31 | | | | | | | 200 | (200)A | 200 | A | A | 220 | A | (220)B | 250 | (220)A | A | A | A | A | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | 240 | 210 | 210 | 200 | 190 | 200 | 200 | 250 | 220 | 220 | 220 | 210 | 210 | 210 | 210 | 240 | | | |
| Count | | | | | | 8 | 13 | 15 | 8 | 10 | 13 | 10 | 5 | 5 | 10 | 13 | 18 | 14 | 14 | 8 | | | | |

f'F1

Sweep 2.0 Mc to 1.5 Mc in 1.5 min

Manual

Automatic

K4

55

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

f_oE

Jul. 1946

| 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 | 2.4 | (2.9)A | 3.4 | C | AB | B | AB | AB | B | A | A | C | A | E | | | | | |
| 2 | | | | | | E | A | A | AB | AB | AB | AB | AB | 3.9B | 3.7B | AB | AB | A | A | E | | | | | |
| 3 | | | | | | E | A | A | A | 3.5 | (3.8)A | 4.0J | AB | C | AB | AB | AB | 3.0B | 2.5 | E | | | | | |
| 4 | | | | | | 1.6J | 2.5 | 3.0 | C | C | C | C | C | C | C | C | AB | A | A | E | | | | | |
| 5 | | | | | | E | 2.5 | 3.0 | 3.3 | 3.6 | (3.8)A | 3.9 | AB | AB | AB | 3.5 | A | A | A | E | | | | | |
| 6 | | | | | | E | A | A | C | C | C | C | C | C | C | C | A | A | C | E | | | | | |
| 7 | | | | | | E | 2.4 | A | C | C | C | C | C | C | C | A | A | A | 2.6 | E | | | | | |
| 8 | | | | | | E | A | 3.0J | (3.2)A | 3.3 | 3.7 | 3.7B | 3.8B | 3.9B | (3.6)B | 3.4 | (3.2)A | 2.9 | (2.4)A | 1.8J | | | | | |
| 9 | | | | | | E | 2.5 | 3.4 | (3.6)A | (3.8)A | A | A | 3.8 | C | C | B | AB | C | A | E | | | | | |
| 10 | | | | | | 1.8J | 2.7 | (3.2)A | 3.6 | 3.6B | 3.8B | 3.9B | 3.9B | 3.9B | 3.8B | 3.7B | A | C | A | C | | | | | |
| 11 | | | | | | 1.8J | 2.4 | A | A | (3.6)A | (3.8)A | 4.2B | C | C | C | C | C | C | A | (2.0) | | | | | |
| 12 | | | | | | E | (2.4) | (3.0)A | 3.8 | 3.8J | (3.9) | 3.8B | B | 3.6 | 3.8B | C | C | C | 3.0 | 2.2 | E | | | | |
| 13 | | | | | | 1.9J | 2.6 | A | B | B | AB | AB | AB | AB | 3.5B | 3.8B | 3.3B | 2.9 | 2.6 | E | | | | | |
| 14 | | | | | | 1.8J | 2.6 | (3.1)A | 3.6 | (3.7)A | A | B | C | C | C | C | C | A | A | E | | | | | |
| 15 | | | | | | E | 2.3 | 3.9 | 3.2 | C | C | C | C | C | (3.7)B | A | A | (3.1)C | 2.6 | E | | | | | |
| 16 | | | | | | E | A | 2.6 | 3.2 | 3.4 | 3.7B | (3.5)B | (3.3)B | A | C | C | C | C | C | C | | | | | |
| 17 | | | | | | (1.4) | 2.6 | B | C | C | C | B | B | 4.0 | B | AB | AB | 3.1 | A | E | | | | | |
| 18 | | | | | | E | A | 3.0 | A | AB | AB | AB | AB | (3.5)B | 4.1 | 3.8 | 3.3 | 3.1 | A | A | | | | | |
| 19 | | | | | | E | 2.5 | 3.0 | AB | AB | 4.0B | 4.0 | B | AB | (3.7)B | 3.8B | A | A | B | E | | | | | |
| 20 | | | | | | C | A | (3.1) | (3.6) | AB | AB | C | C | C | C | C | 3.5 | A | A | A | | | | | |
| 21 | | | | | | A | A | (3.1) | (3.6) | 3.8 | B | B | B | B | AB | AB | 3.3B | 3.2B | A | E | | | | | |
| 22 | | | | | | A | A | AB | A | (3.6) | A | A | 4.2B | (3.8)B | (3.7)B | 3.7 | 3.7 | 3.5 | A | E | | | | | |
| 23 | | | | | | C | C | C | C | C | C | C | C | C | C | C | C | C | B | A | E | | | | |
| 24 | | | | | | E | A | 3.1 | A | 4.2 | B | BK | B | B | BK | 3.9 | 3.5 | 3.2 | 2.4 | E | | | | | |
| 25 | | | | | | E | A | 3.0 | B | B | B | B | B | B | BK | B | B | 3.2 | 2.4 | E | | | | | |
| 26 | | | | | | 1.7J | AB | B | B | BK | BK | BK | C | C | BK | B | 3.7B | 3.3B | 2.7 | E | | | | | |
| 27 | | | | | | E | A | 2.9 | 3.3 | 3.8B | 4.0B | B | BK | BK | B | B | AB | 2.6 | A | E | | | | | |
| 28 | | | | | | E | B | A | A | A | 3.8B | AB | B | AB | 3.5B | 4.0B | 3.5 | 3.2 | 2.5 | E | | | | | |
| 29 | | | | | | 2.0J | A | A | A | AB | AB | B | B | B | B | 3.8B | 3.8B | AB | B | E | | | | | |
| 30 | | | | | | E | A | A | A | B | C | BK | BK | BK | BK | AB | B | A | 2.7 | E | | | | | |
| 31 | | | | | | E | 2.7 | 3.4B | 3.4J | 3.4B | AB | AB | B | AB | 4.2B | 3.8B | B | 3.2 | A | E | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | E | 2.5 | 3.0 | 3.4 | 3.6 | 3.8 | 3.9 | 3.8 | 3.9 | 3.7 | 3.8 | 3.5 | 3.1 | 2.5 | E | | | | | |
| Count | | | | | | 27 | 14 | 18 | 13 | 15 | 10 | 8 | 5 | 7 | 11 | 11 | 10 | 15 | 11 | 27 | | | | | |

f_oE

Sweep 2.0 Mc to 1.5. Mc in 1.5 min

Manual Automatic

K 5

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

Lat. 35° 42.4' N
Long. 139° 29.8' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

f_oF₂

Jul. 1946

| 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 110 | A | 100 | 100 | C | B | B | A | A | B | A | A | C | A | E | | | | |
| 2 | | | | | | E A | A | A | A | A | A | A | A | 100 | 100 | A | A | A | A | E | | | | |
| 3 | | | | | | E A | A | A | 100 | A | 100 | A | A | C | A | A | A | 110 | 100 | E | | | | |
| 4 | | | | | | E (110) | 100 | C | C | C | C | C | C | C | C | C | A | A | A | E | | | | |
| 5 | | | | | | E 110 | 100 | 110 | 100 | B | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A | E | | | | |
| 6 | | | | | | E A | A | C | C | C | C | C | C | C | C | C | A | 100 | {100}C | E | | | | |
| 7 | | | | | | E (100)A | 100 | C | C | C | C | C | C | C | C | A | A | A | 100 | E | | | | |
| 8 | | | | | | E A | 100 | A | 100 | 100 | 100 | 100 | 100 | 100 | {100}A | 100 | {100}A | 100 | A | E | | | | |
| 9 | | | | | | E (100) | 110 | A | A | A | A | 100 | C | C | C | B | A | C | A | E | | | | |
| 10 | | | | | | E 100 | {100}A | 100 | 100 | 110 | 110 | 110 | 110 | {110}B | 100 | 100 | A | C | A | E | | | | |
| 11 | | | | | | E 110 | {100}A | {100}A | {100}A | 100 | 100 | C | C | C | C | C | C | C | A | E | | | | |
| 12 | | | | | | E 110 | {110}A | 100 | {100}A | 100 | 100 | B | 100 | B | C | C | C | 100 | 100 | E | | | | |
| 13 | | | | | | E 100 | A | B | A | A | A | A | A | A | 100 | 100 | 100 | 100 | 100 | E | | | | |
| 14 | | | | | | E 100 | {100}A | 100 | 100 | C | C | C | C | C | C | C | C | A | A | E | | | | |
| 15 | | | | | | E (100) | 100 | 100 | C | C | C | C | C | C | 90 | A | A | {100}C | 100 | E | | | | |
| 16 | | | | | | E 100 | 100 | 100 | 100 | 100 | {100}C | 100 | 100 | A | C | C | C | C | C | E | | | | |
| 17 | | | | | | E 110 | 100 | C | C | C | B | B | B | {100}B | {100}B | A | A | 104 | A | E | | | | |
| 18 | | | | | | E A | 110 | A | 90 | A | A | A | A | 100 | 100 | 100 | 100 | 100 | A | E | | | | |
| 19 | | | | | | E 100 | 100 | A | A | 100 | 100 | B | 100 | 100 | 100 | 100 | 100 | 100 | 100 | E | | | | |
| 20 | | | | | | C 120 | 110 | 110 | A | AB | C | C | C | C | C | C | 100 | A | A | E | | | | |
| 21 | | | | | | E A | A | A | 120 | 110 | B | B | B | B | AB | A | 100 | 110 | A | E | | | | |
| 22 | | | | | | A A | A | A | A | 100 | A | A | 100 | 110 | 100 | 110 | 100 | C | A | E | | | | |
| 23 | | | | | | C C | C | C | C | C | C | C | C | C | C | C | C | C | A | E | | | | |
| 24 | | | | | | E A | 100 | A | A | B | BK | B | B | B | BK | 100 | 100 | A | 100 | E | | | | |
| 25 | | | | | | E A | 100 | B | B | B | B | B | B | B | BK | B | B | 110 | 120 | E | | | | |
| 26 | | | | | | E A | B | B | BK | BK | C | C | C | C | BK | B | B | 90 | 100 | E | | | | |
| 27 | | | | | | E A | 100 | 100 | B | 100 | B | BK | BK | B | B | B | A | 100 | A | E | | | | |
| 28 | | | | | | E B | A | A | A | 110 | A | B | B | B | 100 | 100 | 110 | 90 | 100 | E | | | | |
| 29 | | | | | | E A | A | A | A | A | A | B | B | B | B | 100 | A | A | B | E | | | | |
| 30 | | | | | | E A | A | A | B | C | BK | BK | BK | BK | BK | AB | B | A | 110 | E | | | | |
| 31 | | | | | | E 110 | 100 | 100 | 100 | AB | AB | B | AB | 90 | 100 | B | 100 | A | E | | | | | |
| MEAN | | | | | | | | | | | | | | | | | | | | | | | | |
| VALUE | | | | | | | | | | | | | | | | | | | | | | | | |
| MEDIAN | | | | | | 1* | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | * | | | | |
| VALUE | | | | | | 0 | 16 | 19 | 12 | 12 | 9 | 8 | 6 | 10 | 12 | 10 | 11 | 15 | 12 | 0 | | | | |
| COUNT | | | | | | | | | | | | | | | | | | | | | | | | |

Sweep 2.0 Mc to 1.5 Mc in 1.5 min

Manual Automatic

K6

f_oF₂

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

Jul 1946

fEs

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------|------|------|-----|------|------|------|-------|------|-------|-------|------|------|-------|------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1 | 6.0 | 8.9F | 4.5 | 4.3 | 3.8F | 8.4F | 10.1F | 8.2F | 14.0D | 9.2E | C | 8.2B | 8.1B | 7.3B | 5.7B | 5.6B | 6.7 | C | 3.6 | E | 3.2 | 5.0 | C | C | |
| 2 | 3.8 | 3.8 | E | 2.4 | 2.2 | 2.2 | 6.9F | 5.2 | 4.2B | 5.1B | 5.1B | 6.4B | 5.3B | 4.7E | 7.0B | 5.7B | 6.0B | 8.6 | 5.4 | 7.9 | 3.6 | 6.6 | 5.2 | 6.4 | |
| 3 | C | C | C | C | C | 4.8 | 8.4 | 8.4 | 9.0 | 4.4 | 4.8B | 4.7E | C | C | 7.4B | 5.0B | 4.1B | 4.1 | 6.4 | 5.1 | 8.8 | 8.6 | 8.0 | 6.0 | |
| 4 | 3.0 | 4.8 | 6.0 | 5.6F | 4.2 | 5.0F | 5.8 | 6.2 | 4.7E | C | C | C | C | C | C | C | 9.3E | 6.2F | 6.6 | 7.2 | 6.7 | 3.6F | 3.0 | 8.0 | |
| 5 | 4.0 | 4.2 | 2.4 | 10.1 | 7.5F | 4.0 | 3.8 | 3.2 | 4.7E | 7.2 | 7.5B | 7.0 | 9.0B | 4.8B | 4.4 | 4.3 | 6.4 | 5.7 | 6.0 | 10.2 | 4.2 | 4.6 | 4.5 | 4.0 | |
| 6 | 3.4 | 2.6 | 5.4 | 3.4 | 3.2 | 5.6 | 4.8 | 3.2 | C | C | C | C | C | C | C | C | 7.3 | 5.2 | C | 8.3 | 6.0 | 4.2 | 4.2 | 3.0 | |
| 7 | 2.2 | 3.2 | 2.4 | 2.7 | 2.2 | 2.8 | 3.2 | 2.8 | C | C | C | C | C | C | C | 4.4 | 7.0 | 5.6 | 10.1 | 5.4 | 3.0 | 4.0 | 4.0 | 4.2 | |
| 8 | 4.0 | 5.4 | 5.4 | 2.8 | 4.4 | 2.8 | 3.4 | 5.0 | 4.2 | 4.2 | 7.2 | 6.6B | 5.4B | 4.7B | 5.3B | 6.0B | 8.0 | 7.2 | 4.2 | 3.8 | 8.0 | 5.2 | 2.2 | 2.4 | |
| 9 | 5.8 | 5.2 | 7.0 | 7.6 | 3.4 | 3.4 | 3.4 | 4.2 | 5.2 | 5.0 | 4.4 | 5.2 | 4.8 | C | 8.5 | 4.3B | 3.8 | C | 4.3 | 5.2F | 5.2 | 4.6 | 6.0 | 5.4 | |
| 10 | 4.2 | 4.0 | 4.0 | 2.2 | 3.0 | E | 3.8 | 4.2 | 4.4 | 10.3B | 4.6B | 4.9B | 4.7E | 5.3B | 5.0B | 8.5B | 7.0 | C | 4.2 | C | 4.0 | 3.6 | 3.5 | 2.7 | |
| 11 | 2.8 | E | 2.8 | 3.2 | E | 3.2 | 7.8 | 6.8 | 4.8 | 6.3 | 4.8 | 5.3 | C | C | C | C | C | C | 3.8 | 3.4 | 2.8 | 2.4 | E | 2.2 | |
| 12 | 4.8 | 6.4 | 3.4 | 7.4 | 4.2 | 4.2 | 3.2 | 6.8 | 8.5 | 7.2 | 4.1 | 4.4B | B | B | 5.1B | C | C | 4.0 | 3.2 | 3.4 | 2.6 | 3.2 | 4.6 | 6.7 | |
| 13 | 6.2 | 6.0 | 4.9 | 3.8 | 2.8 | 2.6 | 3.3 | 5.4 | 4.0B | 5.1B | 7.5B | 5.1B | 5.4B | 5.0B | 5.0B | 5.7B | 4.1B | 3.5 | 3.4 | 3.2 | 7.8 | 5.2 | 7.4 | 6.0 | |
| 14 | 3.0 | 2.6 | 4.4 | 2.7 | 2.3 | 2.4 | 3.7 | 5.4 | 4.0 | 4.0 | 5.2 | 8.4B | C | C | C | C | C | 5.4 | 7.0 | 7.0F | 7.8F | 7.0 | 4.6 | 4.2 | |
| 15 | 3.6 | 3.2F | 2.6 | 2.9 | 2.1 | 3.0 | 5.2 | 5.4 | 5.6 | C | C | C | C | C | 4.7E | 4.7E | 4.7E | C | 3.2 | 3.2 | 3.2 | 5.6 | 2.3 | 3.5 | |
| 16 | 4.0 | 4.0F | 3.8 | 2.6 | E | 2.8 | 4.8 | 4.6 | 4.2B | 8.0 | 4.7B | C | 7.9 | 7.4 | C | C | C | C | C | C | 7.2 | 6.8 | E | 8.0 | |
| 17 | 5.0 | E | 3.2 | 2.6 | 2.6 | 2.2 | 3.8 | 4.0B | C | C | C | 4.9B | 5.1B | 6.8B | 6.4B | 5.3B | 8.9B | 6.4 | 5.2 | E | 2.2 | 2.8 | 4.0 | 6.4 | |
| 18 | 4.0 | 3.2 | 4.2 | 4.2 | 4.2 | 3.6 | 5.4 | 4.0 | 4.2 | 5.2B | 4.9B | 6.0B | 6.4B | 7.1B | 4.9B | 6.5 | 5.0 | 4.0 | 6.0 | 4.2 | 4.4 | 2.6 | 4.2 | 8.6 | |
| 19 | 8.6 | 3.4 | 2.6 | 2.9 | 3.0 | 3.2 | 4.3 | 7.2 | 5.4B | 6.1B | 8.2B | 7.2 | 4.0B | 6.7B | 5.2B | 4.8B | 5.2 | 5.4 | 6.6B | 4.2 | 9.0 | 4.2 | 5.8 | 6.2 | |
| 20 | 4.4 | 4.2 | 4.2 | 3.2 | 3.0 | C | 4.2 | 5.6 | 6.8 | 6.4B | 6.7B | C | C | C | C | C | 5.2 | 6.3 | 6.3 | 4.0 | E | E | E | E | |
| 21 | 3.2B | 4.2 | 4.0 | 2.9 | 2.5 | 2.6 | 3.6 | 3.4 | 5.2 | 4.4 | 3.3B | 8.4B | 8.4B | 8.4B | 6.7B | 4.6B | 3.9 | 3.2B | 4.0 | 2.7 | 4.0 | 3.2 | 2.6 | 2.8 | |
| 22 | 2.1 | 4.2 | 3.2 | 4.0 | 3.2 | 4.0 | 4.6 | 7.4B | 6.0 | 4.0 | 4.6 | 6.2 | 6.7B | 7.8B | 6.5B | 7.4 | 6.8 | C | 7.2 | 8.2 | 8.7 | C | C | C | |
| 23 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | 4.2 | 4.7E | 4.4 | 6.0 | 8.0 | 6.0 | 6.5 | 5.2 | 3.4B |
| 24 | 2.2 | 2.2 | 2.8 | 3.2 | E | 2.7 | 3.5 | 3.8 | 4.7 | 4.0B | B | B | B | B | B | 4.2 | 4.7E | 6.4 | 6.0 | 8.0 | 6.0 | 6.5 | 5.2 | 3.4B | |
| 25 | 4.0 | 3.5 | 2.4 | 2.2 | 2.2 | 2.6 | 5.2 | 3.2 | 4.2B | 5.8B | 6.4B | B | B | B | B | B | 4.8B | 4.4 | 5.4 | 6.6 | 3.2 | 3.0 | 4.2 | 3.0 | |
| 26 | B | A | 2.2 | 2.4 | 3.2 | 2.3 | 5.0B | 4.3B | B | 8.0B | B | 6.4B | C | C | B | 4.7B | B | 4.0B | 2.8B | 2.7 | 6.3 | 8.0 | 5.8 | 2.8 | |
| 27 | 2.8 | E | E | 4.2 | 2.8 | 3.6 | 4.8F | 6.8 | 5.6B | 8.7B | 6.4B | 8.2B | 7.9B | 7.0B | 7.0B | 5.6B | 4.5B | 5.4 | 4.0 | 3.0B | 5.2 | 3.8 | 5.6 | 3.0 | |
| 28 | 5.6 | 3.2 | 4.2 | 4.2 | 2.4 | 3.0 | 4.0 | 4.2 | 7.0 | 6.8 | 6.2B | 7.0B | 10.0B | 8.8B | 13.5B | 5.4B | 5.4B | 7.1 | 8.4 | 8.0 | 7.4 | 8.6 | 5.0 | 3.4 | |
| 29 | 2.8 | 3.0 | 2.2 | 2.8 | 2.0 | 2.8 | 4.2 | 7.4 | 6.7 | 5.7 | 4.5B | 3.2B | B | 7.0B | 9.3B | 10.0B | 5.5B | 6.5B | 5.6B | 2.9 | 3.2 | 7.9F | 4.8F | 7.0F | |
| 30 | 5.4 | 3.3 | 4.4 | 3.2 | 2.4 | 3.6 | 4.4 | 5.6 | 7.2B | 4.6B | C | 6.4B | 4.9B | B | 4.2B | 4.1B | 3.0B | 4.6 | 4.7E | 3.6 | 3.0 | 4.4 | 6.4 | 6.6 | |
| 31 | 4.2 | 2.8 | 4.2 | 4.0 | 4.0 | E | 2.5 | 4.4B | 5.2 | 8.4B | 4.2B | 7.8B | 10.2B | 5.3B | 5.0B | 4.3B | 13.3B | 14.5 | 13.5 | 8.3 | 8.7 | 5.5 | 2.8 | E | |
| Mean | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | | | | |
| Value | 4.0 | 3.5 | 3.8 | 3.2 | 2.8 | 3.0 | 4.3 | 5.1 | 5.2 | 6.1 | 5.2 | 6.4 | 7.9 | 6.8 | 5.6 | 5.6 | 6.0 | 5.4 | 5.4 | 4.2 | 5.2 | 4.9 | 4.2 | 4.0 | |
| Count | 2.8 | 2.8 | 2.9 | 2.9 | 2.8 | 2.9 | 3.0 | 3.0 | 2.5 | 2.5 | 2.1 | 2.1 | 1.7 | 1.6 | 2.0 | 2.2 | 2.5 | 2.3 | 2.9 | 2.9 | 3.1 | 3.0 | 2.9 | 2.9 | |

fEs

Manual Automatic

Sweep 2.0 Mc to 15.0 Mc in 1.5 min

K7

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

Lat. 35° 42.4' N
Long. 139° 39.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

(M3000)F2

Jul 1946

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|--------|--------|-------|--------|-----|-------|------|--------|--------|-------|--------|-------|--------|--------|-------|--------|--------|--------|--------|--------|------|--------|--------|------|--|
| 1 | (3.0)F | 3.1 | 2.8 | 2.6 | 3.1 | 3.2 | 3.3 | 3.3 | J | A | C | 3.2 | 3.1 | 3.2 | 3.3 | 3.2 | 3.1 | (3.2)C | 3.4 | 3.2 | 3.0 | C | C | C | |
| 2 | 3.1 | (3.0)F | 3.0 | 3.0 | 2.8 | 3.0 | 3.4 | 3.4 | 3.3 | 3.1 | 3.1 | 3.1 | 3.0 | 3.0 | 3.0 | 3.1 | 3.0 | J | J | J | S | 2.7 | 2.7 | 3.0 | |
| 3 | C | C | C | C | C | 2.9 | 2.8 | 2.6 | 3.0 | 3.0 | 3.1 | 3.0 | 2.9 | (3.0)C | 3.1 | 3.1 | 3.0 | 3.0 | 3.1 | 2.9 | 3.0 | 2.8 | 2.8 | 2.8 | |
| 4 | 2.9 | (2.8)J | 2.8 | (2.4)J | 3.1 | 3.0 | 3.0 | 3.0 | C | C | C | C | C | C | C | C | J | (3.2)J | 3.4 | (3.2)J | 3.0 | 2.9 | 2.9 | 2.7 | |
| 5 | J | J | 3.1 | (3.0)J | 3.0 | 2.8 | 3.2H | 3.2 | 3.5 | 3.2 | 3.1 | 2.9 | 3.0 | 3.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.1 | (3.0)A | 2.9 | 2.9 | 2.9 | 3.1 | |
| 6 | 3.1 | 2.9 | 2.9 | 3.0 | 3.0 | 3.3 | 3.2 | 3.4 | C | C | C | C | C | C | C | C | 3.1H | 2.9 | (3.0)C | 3.2 | 2.9 | 2.9 | 2.9 | 2.9 | |
| 7 | 3.1 | 3.1 | 3.0 | 3.0 | 2.9 | 3.0 | 3.1 | C | C | C | C | C | C | C | C | 2.9 | 2.8 | 3.0 | (3.2)A | 3.3 | 2.7H | 2.8 | 2.8 | 2.7 | |
| 8 | 2.8 | 3.1 | F | F | 2.6 | 3.0H | 3.1 | 2.9 | 3.2 | 2.8 | 3.1 | 3.1 | 3.1 | 3.2 | 3.2 | 3.3 | (3.1)A | 3.0 | 3.1 | 3.0 | 2.9 | 2.9 | 2.9 | 3.0 | |
| 9 | 2.9 | 2.8 | 2.9 | (2.8)J | 2.8 | 3.0 | 2.7 | 2.9 | 3.1 | 3.1 | 2.9 | 3.0 | 3.2 | (3.2)C | 3.2 | 3.2 | 3.2 | (3.2)C | 3.3 | 3.0 | 3.0 | 2.8 | 2.8 | 2.8 | |
| 10 | 2.9 | 3.0 | 2.8 | (2.9) | 2.9 | 3.1 | 3.4 | 3.2 | 3.3 | A | A | 3.0 | 3.0 | 3.2 | 3.2 | 3.1 | 3.1 | (3.1)C | 3.2 | 3.0 | 3.0 | 2.8 | 2.8 | 2.8 | |
| 11 | 3.0 | 3.1 | 3.0 | 2.8 | 2.9 | 2.9 | 3.2 | 3.0 | 3.3 | 3.1 | 2.7 | 3.0 | C | C | C | C | C | C | 3.3 | 3.2 | 3.0 | 3.0 | 3.0 | 2.8 | |
| 12 | (2.8)F | 3.0 | 3.1 | 2.9 | 2.7 | 2.9 | 3.1 | (3.2) | (3.1)J | 3.3 | 3.3 | 3.4 | 2.7 | 3.0 | (2.9) | C | C | C | 3.3 | 3.4 | 3.3 | (3.2)J | 3.1 | 3.1 | |
| 13 | (2.9)F | (2.9)F | 3.1 | 3.0 | 3.1 | 3.1 | 3.1 | (3.0)S | 3.5 | 3.4 | 3.2 | 3.3 | 3.3 | 3.3 | 3.2 | 3.2 | 3.1 | 3.1 | 3.2 | 3.3 | 3.4 | 3.1 | F | F | |
| 14 | 3.2 | 3.0 | 3.1 | 3.1 | 3.1 | 3.5 | 3.5 | 3.6 | 3.4 | 3.3 | 3.2 | 3.2 | C | C | C | C | C | C | 3.3 | 3.1 | 3.4 | 3.0 | 3.1 | 3.0 | |
| 15 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 3.1 | 2.8 | 3.0 | 3.3 | C | C | C | C | C | 3.1 | (3.0)J | 2.9 | (3.0)C | 3.2 | 3.3 | 3.0 | 3.0 | 3.0 | 2.7 | |
| 16 | 3.1 | 3.2 | 3.1 | 3.0 | 2.9 | 3.0 | 3.1H | 3.2 | 3.1 | 2.9 | 3.1 | 3.3 | 3.3 | (3.3)C | 3.4 | C | C | C | C | C | J | J | J | J | |
| 17 | F | J | (3.2) | F | F | 3.0 | 3.4 | 3.3 | C | C | C | 2.9 | 2.9 | 3.1 | 3.1 | 3.2 | (3.1)J | 3.1 | 3.2 | 3.0 | 3.3 | 3.0 | 3.0 | 2.9 | |
| 18 | 4.0 | 3.0H | 3.4H | 3.4 | 3.1 | 3.1 | 3.1H | 3.3 | (3.3)J | 3.4 | 3.3 | 3.2 | 3.1 | 3.1 | 3.1 | 2.9 | 3.1 | 3.2 | 3.3 | 3.3H | 3.2H | 3.0 | 3.0 | 3.0 | |
| 19 | 3.3 | 3.2 | 3.1H | (2.8) | 3.0 | 3.1 | 3.1J | (3.2)K | 3.3J | 3.1H | 2.9 | 3.0 | (3.0)J | 3.0 | 3.1 | 3.0 | 3.4 | 3.3 | 3.1 | 3.1 | 2.8 | (2.8)F | (2.8)F | S | |
| 20 | FK | FK | FK | (3.2) | C | C | 2.8 | 3.0 | C | K | A | C | C | C | C | C | 3.1 | 2.8 | 2.9 | 2.9 | 2.8 | 2.8 | 2.8 | 3.2 | |
| 21 | 2.9 | 2.9 | 3.2 | 2.9 | 2.8 | 3.0 | 3.1 | 3.3 | 3.5 | 2.9 | 3.1 | 3.2 | 3.1 | 3.0H | 3.0 | 3.1 | 3.2 | (3.0)S | 2.9H | 2.9 | 3.0 | 2.8 | 2.8 | 2.8 | |
| 22 | 2.8H | 2.9 | 2.9 | 3.0 | 2.8 | 2.8 | 3.1H | 3.3H | 3.1 | 3.2 | 2.8 | 2.9 | 3.1 | 3.0 | 3.2 | 3.3 | 3.4 | (3.2)C | 3.1 | 3.1 | 2.9 | C | C | C | |
| 23 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | 2.9 | 3.4 | 3.0 | 2.8 | 2.8 | 2.8 | |
| 24 | 2.7 | 2.9 | 3.0 | 2.8 | 2.8 | 3.3H | 3.2 | 3.3H | 3.1 | 3.1 | 3.5 | (3.0) | 3.2 | 3.1 | 3.1 | 3.3 | 3.4 | 3.2 | 3.2 | 3.3 | 3.1 | 2.8 | 2.8 | 3.0 | |
| 25 | 2.9 | FK | F | F | F | 2.8 | B | 3.3 | J | 3.0 | 3.2 | BK | (3.1) | 2.9 | 2.9 | 3.2 | 3.2 | 3.2 | 3.1 | 3.1 | 2.9 | 3.0 | 3.0 | 3.0H | |
| 26 | 2.9 | 3.1 | 2.9 | 2.9 | 3.0 | 2.8H | 2.9 | 3.2 | 3.0 | JK | 2.9K | BK | C | C | (3.3) | 3.2H | 3.2 | 3.2 | 3.2 | 3.3 | 3.0 | F | F | 3.0 | |
| 27 | 3.0 | 3.0 | (2.9) | 3.1 | 3.0 | 3.4H | 2.4K | J | BK | 3.0 | 2.5 | BK | 2.5K | 3.0K | 2.7 | 2.6 | 2.8 | 2.7H | 2.5H | 2.8H | 2.7 | J | J | 2.5 | |
| 28 | 2.6 | 2.9 | 2.7 | 3.1 | 3.0 | 3.3 | 3.5 | 3.2 | 3.5 | 3.1 | 3.3 | 3.1 | A | 2.9 | 2.9 | A | 3.0 | A | 2.9 | 3.2 | 2.8K | 2.9 | 2.9 | 2.7 | |
| 29 | (2.8)K | JK | JK | JK | JK | 3.0 | 3.1 | 3.3 | 3.4 | 3.0 | 3.4 | 2.9 | 3.0 | 3.1 | 3.1 | 3.3 | 3.3 | 3.1 | 3.3 | (3.3) | 3.1 | 2.7 | 2.7 | 2.7 | |
| 30 | 2.9 | 2.8 | 2.7 | 3.0 | 2.5 | 2.6 | 2.7 | 3.2 | 3.0 | (2.8) | (2.8)C | 2.7 | 2.6K | 2.6 | 2.9 | 3.1 | 3.0 | 3.2 | 3.0 | 3.0 | 2.8 | S | S | 2.8 | |
| 31 | 2.7 | 2.7 | (3.0) | 2.6 | 2.8 | (2.9) | 3.1 | 3.0 | 3.2 | 3.0 | 2.9 | 2.9 | 2.9 | 3.0 | 2.9 | 3.1 | A | A | (3.2) | 3.0 | 2.9 | 3.0 | 3.0 | 2.9 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 2.9 | 3.0 | 3.0 | 3.0 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.1 | 3.1 | 3.0 | 3.0 | 3.0 | 3.1 | 3.2 | 3.1 | 3.2 | 3.2 | 3.1 | 3.0 | 2.9 | 2.9 | 2.9 | |
| Count | 26 | 24 | 25 | 25 | 26 | 29 | 29 | 28 | 22 | 21 | 22 | 22 | 21 | 22 | 23 | 23 | 24 | 26 | 29 | 29 | 29 | 24 | 24 | 27 | |

(M3000)F2

Lat. 35° 42.4' N
Long. 139° 29.3' E

IONOSPHERIC DATA

Kokubunji Tokyo

f_oF₂

Aug. 1946

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 | 7.8 | 7.1 | 7.0 | 6.6 | 6.3 | 6.0 | C | C | C | 4.5 | 4.5 | 10.0 | 10.6 | 11.2 | 11.1 | (4.5) | 8.9 | 8.8 | (8.2)C | 7.8 | 7.6 | 7.8 | (7.7) | 8.4 | |
| 2 | 7.8 | 7.9 | 7.0 | 6.9 | 6.8FK | 7.6 | 4.0 | 8.8 | 7.7 | 4.1 | 4.4 | 4.5 | 4.7 | 4.9 | 4.6 | 4.5 | 4.3 | 4.4 | (4.9) | (4.4) | 4.7 | 4.6 | (4.9)S | 4.7 | |
| 3 | 4.1 | 4.1 | 8.6 | 8.0 | 7.5 | 7.1 | 7.1 | 8.2 | 7.9 | 4.4 | 4.2 | 4.0 | 8.0 | A | A | A | 7.5 | 7.8 | 7.2 | 7.2 | 7.1 | 8.3 | 8.1 | 4.0 | |
| 4 | 8.7 | 8.7 | 8.4 | 7.8 | 6.8 | 6.9 | 7.6 | 8.3 | 8.5 | 8.3 | 8.3 | 8.6 | 4.0 | 10.0 | 10.0 | 4.2 | 4.0 | 8.3J | 8.0J | 8.9J | 8.8 | 4.3 | 4.0 | 8.8F | |
| 5 | 4.0 | 4.4 | 8.3 | 7.8 | 7.2 | 7.4 | 8.5 | (4.0)C | 4.5 | 4.4 | 4.4 | 4.6 | 10.0 | 10.6 | 10.8 | 4.5 | 8.4 | 8.4 | 8.6 | 8.8 | 8.0 | 7.7 | 7.6 | 6.3 | |
| 6 | 6.5S | 7.0 | 7.3 | 7.3 | 6.5 | 6.0 | 7.6 | 8.9 | 8.6 | 4.0 | 4.4H | 8.6 | 8.8 | 4.2 | 8.7 | 8.4 | 8.6 | 8.8 | 8.2 | 8.1 | 8.0 | 7.2S | 7.9 | 8.1 | |
| 7 | 7.5 | 7.4 | 7.4 | (7.4) | 6.6 | 6.4 | 7.6 | 4.4 | 4.5 | 10.0 | 4.5H | (4.7) | 8.4 | 4.1 | 8.6 | 8.9 | 4.4 | 4.6 | 8.8 | 8.4 | 8.1 | 7.8 | 7.6 | (8.5) | |
| 8 | 7.6 | 8.0F | 6.8 | 6.3 | 6.5 | 6.1 | 5.1K | 7.9H | B | 4.3 | 4.2 | 8.9 | 8.1 | 8.2 | 8.3 | 7.6 | 7.5 | 7.4 | 8.2 | 8.4 | 8.4H | 8.3 | (7.3)F | 7.4 | |
| 9 | 7.4 | 7.2 | 7.0 | 6.4 | 5.7 | 5.7 | 6.8 | 8.6 | 4.8 | 8.6 | 8.5H | 8.5 | 8.3 | 7.9 | 7.6 | 8.1 | 8.7H | 4.9 | (4.0) | 8.5 | 7.8 | 6.6 | 6.9 | 7.1 | |
| 10 | 7.1 | 6.7 | 6.4 | 6.1 | 5.7 | 5.6H | 7.8 | 4.2 | 4.0 | 8.6 | 7.9 | 8.4 | 8.4H | 8.5 | 8.3 | C | C | C | C | C | C | C | C | C | |
| 11 | C | C | C | C | C | C | 7.4 | 8.9 | 8.8 | 8.8 | 4.0 | 4.8 | 10.1 | 8.9H | 4.2 | 8.8 | 8.8 | 4.2 | 4.5 | (7.2)A | 7.0 | 6.4 | 6.4 | 6.4 | |
| 12 | 6.3 | 5.8 | 5.9 | 6.2 | 5.7H | 5.5F | 8.1 | 4.2 | 4.0H | (4.2)C | 4.6 | 10.2J | 10.8H | 10.6 | 10.8 | 4.9H | 4.3 | AK | (7.3)F | 8.0 | 8.0 | 8.0F | (7.9)F | 7.5 | |
| 13 | 8.3 | 7.1H | 6.4 | 6.3 | 6.1 | 6.3 | 6.8H | (4.6)S | 8.6 | 8.2 | 8.3 | 7.4 | 8.6 | 4.0 | 8.8 | 8.5 | 8.9 | 4.1 | 10.1 | (4.6) | 7.5 | 6.7F | 7.4F | 7.5 | |
| 14 | 7.5 | 6.5F | 7.2 | 6.7 | 4.9K | 5.2 | 6.5 | 7.7 | 4.0 | (8.9)C | 8.7H | 4.2 | 4.5 | 10.0 | 4.5 | 8.9 | 8.2 | 8.4 | 7.7 | 4.2 | 4.0 | 4.0 | 8.7 | 8.1 | |
| 15 | 8.4 | 8.0 | 7.4 | (6.5) | 5.8 | 5.0 | 6.0 | 6.3K | 5.9K | 6.9K | 6.5K | 6.4K | 6.3K | 6.3K | 6.7K | 7.4K | 7.3 | 6.1 | A | A | 6.3 | A | A | F | |
| 16 | 6.7F | 6.0 | 5.8 | 5.7 | 5.5F | 5.5 | 7.1 | 7.4 | 8.2 | 8.6 | 4.5 | 4.4 | 10.1 | 10.2 | 4.6 | 4.3 | 4.4 | 8.4 | 8.0 | 7.6 | 7.3F | (7.5)F | (7.6)F | (7.1) | |
| 17 | 7.0 | 6.6 | 6.2 | 5.6 | 5.6 | 5.5 | 7.2 | 4.1 | 4.7 | 8.4 | 8.2 | 8.8 | 10.5 | 10.3 | 4.4 | 8.7 | 8.6 | 7.9 | 7.5 | 8.1 | A | 8.0 | 8.5 | 7.8 | |
| 18 | 8.0 | 6.7 | 6.7 | 7.0 | 6.6 | 6.0 | 6.7 | 8.7 | 10.0 | 4.2K | 4.7H | 10.0 | 4.2 | 8.6 | 4.3 | 4.4 | 4.1 | 8.7J | 4.2 | 8.5 | 7.4 | 7.5 | 7.6 | 7.6 | |
| 19 | 7.3 | (7.1)J | 7.1 | 6.6 | 6.2 | 6.0 | 7.9 | 4.2 | 8.4 | 7.5H | 8.2 | 8.5H | 8.4 | 4.5 | 10.0 | 8.6 | 7.8 | 7.1 | 7.1 | 7.8 | 8.4 | 7.9 | 7.4 | 7.3 | |
| 20 | 6.6 | 6.2 | (7.1)F | 7.0 | 6.3 | 6.4 | 4.3 | 8.9 | 7.3 | 7.7 | 8.2 | 8.3H | 4.3 | 4.3 | 4.8 | 4.1H | 4.3 | 4.1 | 4.1 | 4.3 | 7.4 | 7.3 | 7.7 | 7.4 | |
| 21 | 7.4H | 7.4 | 7.3 | 7.2 | 6.7 | (7.3)S | 4.8 | 10.1 | 8.2 | 7.9 | 8.4 | 8.4 | 8.5 | 8.5 | 4.9 | 10.6 | 10.4 | 10.2 | 4.3 | 4.7J | 8.1 | 7.7 | (7.8) | 7.8 | |
| 22 | 8.0 | 8.7 | 8.3 | 7.0 | 6.0 | 5.8 | 7.5 | 8.5 | 8.3 | 8.5 | 8.6 | 4.3 | 4.4 | 10.9 | 11.3 | 11.0 | 10.3 | 10.1 | 10.8 | 10.1 | 4.3 | 8.9 | 8.7 | 8.5 | |
| 23 | 8.5 | 8.4 | 7.9 | 7.4 | 6.2 | 6.2 | 8.6 | 8.9 | 8.2 | 8.5 | 8.6 | 4.3 | 4.4 | 4.9 | 10.2J | 10.8 | 10.2 | (4.6)S | 4.2 | 4.1H | 8.7H | 4.1H | 4.1H | 8.2H | |
| 24 | 7.7 | 7.5H | 7.2 | 7.2 | 6.5 | 7.2 | 8.1 | 8.5 | 8.4 | 8.8 | 8.1 | 7.9 | 8.3 | 4.4 | 4.9 | (10.7)C | 10.3 | 4.8 | 4.2 | 4.0 | 4.0 | (8.8)C | 8.5 | 8.0 | |
| 25 | 7.8 | 7.5 | 7.5 | 7.4 | 7.3 | 7.5 | 8.4 | 8.7 | 8.5 | 4.2 | 8.5H | 4.1 | 4.2H | 8.9H | 4.0 | 4.3 | 4.3 | 4.3 | (4.6) | 4.2 | 8.6 | 8.6 | 8.1 | 7.6 | |
| 26 | 7.1 | 7.0 | 6.8 | 6.7 | 6.7 | 6.5 | 7.5 | 7.6 | 7.4 | 7.4 | 7.2 | 8.0 | 8.4 | 8.9 | 4.3 | 4.6H | 4.2 | 4.0 | (4.4)S | 8.9 | 8.1 | 7.3H | 7.4 | 7.4 | |
| 27 | 6.8 | 6.8 | 6.5 | 6.3 | 6.2 | 6.9 | 4.2 | 10.0 | 4.0 | 8.4 | 4.2 | 4.4 | 4.1 | 4.2 | 4.6 | 10.0 | 10.0 | (4.5)S | 4.5 | 10.5J | (4.3) | 8.5 | 8.2 | 8.0 | |
| 28 | 8.0 | 7.5 | 6.6 | 6.0 | 5.8 | 6.0 | 4.1 | 10.4 | 4.7 | 4.2H | 4.2 | 10.5 | 10.6 | 10.3 | 10.1 | 10.3 | 10.0 | 4.7 | (4.8)S | 4.2 | 8.1 | 8.1JF | 7.9 | 7.5 | |
| 29 | 7.0 | 6.5 | 6.9 | 6.5 | 5.4 | 5.5 | 8.4 | 10.8 | 10.5 | 10.7 | 10.5 | 11.2 | 10.5 | 11.0 | 10.5 | 4.8 | 4.5 | 4.2 | 8.9 | 8.2 | A | 8.7 | 8.1 | 8.1 | |
| 30 | F | 6.7F | 6.7F | 6.2 | 5.6F | 5.9 | 8.3 | 10.7 | 10.6 | 10.4 | 11.2 | 10.6 | 10.2 | 4.9 | 4.9 | 4.5H | 4.4 | 4.2 | 4.0 | 4.3 | 4.2 | 8.8 | 8.4 | 7.7 | |
| 31 | 7.6 | 7.5 | 6.5 | 6.4 | 6.6 | 6.6 | 8.7 | 10.5 | 10.4 | 4.9 | 10.1 | 10.2 | 10.4 | 11.3 | (11.3)8 | 10.6H | 11.9 | 13.0 | 4.4 | 7.7 | 7.0 | 7.1 | (7.1) | 7.7 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 7.6 | 7.2 | 7.0 | 6.7 | 6.3 | 6.1 | 7.7 | 8.9 | 8.6 | 8.8 | 4.0 | 4.2 | 4.3 | 4.5 | 4.6 | 4.4 | 4.3 | 4.1 | 4.0 | 8.9 | 8.1 | 8.0 | 7.9 | 7.8 | |
| Count | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 29 | 30 | 31 | 31 | 31 | 30 | 30 | 29 | 30 | 29 | 29 | 29 | 29 | 28 | 29 | 29 | |

f_oF₂

Group 2.0 Mc to 5.0 Mc in 1/5 min

Manual Automatic

K 1

IONOSPHERIC DATA

135° E Mean Time

Aug. 1946

K'F2

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|------------------|------------------|--------|--------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------|------------------|------------------|------------------|------------------|------------------|------------------|-----|
| 1 | 240 | 270 | 250 | 240 | 260 | 240 | C | C | C | C | 350 | 350 | 340 | 330 | 320 | 300 | 300 | 280 | 250 | 260 | 140 | (300)A | 280 | (300)A | |
| 2 | (250)A | 280 | 250 | 250 | 250 ^K | 250 | 230 | 230 | (220)A | 300 | 240 | 260 | 300 | 310 | 310 | 310 | 280 | 290 | 260 | 250 | (280)A | 300 | A | A | 240 |
| 3 | 260 | 260 | 240 | 240 | 220 | 210 | 200 | 220 | (250)B | 320 | 310 | 340 | 330 | A | A | A | 320 | 280 | 260 | 240 | (280)A | 300 | 300 | 300 | 260 |
| 4 | 250 | 260 | (240)A | 240 | 250 | 280 | 230 | 240 | 220 | 280 | 350 | (380)A | (360)A | A | 320 | 330 | 310 | A | A | A | A | 250 | (230) | 260 | |
| 5 | 260 | 250 | (220)A | 230 | 220 | 250 | 220 | (240)C | 250 | 280 | 320 | 300 | 300 | 310 | 280 | 260 | 260 | 260 | 230 | 240 | 220 | 230 | 240 | 240 | 260 |
| 6 | 280 | (310)A | 260 | 240 | 230 | 230 | 240 | 270 | 300 | 320 | 320 | 300 | 330 | 300 | 300 | 240 | 280 | 280 | 240 | 240 | 240 | 270 | 280 | 270 | |
| 7 | 240 | 290 | 260 | 260 | 250 | 290 | 240 | 300 | 280 | 300 | 260 | 280 | 290 | (310)B | 320 | 310 | 320 | (280)A | 250 | 250 | 280 | 280 | 310 | 320 | |
| 8 | 240 | (320)A | 320 | 310 | (310) | 280 | 240 ^K | 280 ^H | B | 320 | 310 | 320 | 320 | 310 | 300 | 300 | 240 | 280 | 270 | 250 | 260 ^H | 290 | (240)A | 360 | |
| 9 | 300 | 290 | 270 | 260 | 250 | (260) | 240 | 300 | 290 | 250 | 280 ^H | 320 | 300 | 340 | (350)A | 330 | 300 ^H | 290 | 260 | 240 | 220 | 220 | 290 | 300 | |
| 10 | 290 | 280 | 300 | 270 | 320 | 300 ^H | 290 | 240 | 250 | 280 | B | 280 | 340 ^H | 290 | 290 | C | C | C | C | C | C | C | C | C | |
| 11 | C | C | C | C | C | C | 210 | 230 | 240 | 300 | 340 | 280 | 270 | 270 ^H | 300 | 300 | 300 | (280)A | 260 | 340 | A | A | A | A | |
| 12 | 250 | 280 | (280) | 280 | 240 ^H | 280 | (280)A | (240)A | 240 ^H | (280)C | 270 | 340 | 320 ^H | 300 | 290 | 260 | 270 | AK | AK | AK | AF | AF | AF | AF | |
| 13 | A | A | 250 | (300)A | 300 | 250 | 210 ^H | 250 | 230 | 240 | 290 | 230 | 290 | 300 | 300 | 290 | 250 | 250 | 250 | 220 | (280)A | (270)A | A | 240 | |
| 14 | 250 | 260 | 260 | 240 | 220 ^H | 260 | 210 | 240 | 260 | (280)C | 300 ^H | 280 | 290 | 300 | A | 290 | A | A | 270 | A | (270)A | 300 | 270 | 280 | |
| 15 | 260 | 290 | 220 | 260 | A | A | A | 280 ^K | 230 ^K | 470 ^K | 360 ^K | 390 ^K | 410 ^K | (440)A | 390 ^K | AK | 280 | A | A | A | A | A | A | A | |
| 16 | 330 | 290 | 290 | 270 | 310 | 280 | 210 | 230 | 250 | (280)A | 320 | 270 | B | 310 | A | 300 | 260 | 260 | 250 | 230 | 240 | (320)A | 290 | 270 | |
| 17 | 260 | 250 | 240 | 230 | 260 | 230 | 240 | 240 | 220 | 210 | 220 | 310 | 280 | 270 | 280 | 260 | 260 | 260 | 270 | A | A | 280 | 280 | 270 | |
| 18 | 260 | 230 | 300 | 260 | 260 | 230 | 220 | 240 | 240 | 220 | 240 ^H | 240 | 250 | 270 | 290 | 270 | 260 | A | (240)F | (220)F | AF | 260 | 270 | 260 | |
| 19 | 300 | (290)A | 250 | 270 | 270 | 300 | 220 | 230 | 240 | 230 ^H | A | 260 ^H | (320)B | 340 | 220 | (240)A | 250 | A | 230 | 260 | A | A | (240)A | 260 | |
| 20 | 250 | 300 | A | 270 | 270 | 250 | 230 | 230 | 230 | 290 | 270 | 270 ^H | 300 | 340 | 310 | 300 ^H | 300 | 280 | 280 | 260 | 220 | 260 | 270 | 270 | |
| 21 | 280 ^H | 280 | 260 | 260 | 270 | 260 | 240 | 250 | 220 | 230 | 240 | 280 | 300 | 310 | 310 | 270 | 260 | 270 | 230 | (250)A | A | 280 | 310 | A | |
| 22 | 320 | 290 | 250 | 230 | 240 | 250 | 240 | 250 | 270 | 290 | 280 | 320 | 340 | 310 | 290 | 260 | 250 | 290 | 260 | 260 | 250 | 240 | 270 | 300 | |
| 23 | 290 | 280 | 260 | 240 | 240 | 240 | 240 | 240 | 230 | 260 | 310 | 330 | 320 | (340)A | A | (240)A | 280 | 260 | 250 ^H | 250 ^H | 250 ^H | 300 ^H | 240 ^H | 270 ^H | |
| 24 | 280 | 300 ^H | 290 | 280 | 280 | 270 | 240 | 250 | 250 | 250 | 270 | 310 | 350 | 340 | (310)C | 270 | 250 | 250 | 260 | 250 | (250)C | 250 | 220 | 220 | |
| 25 | 260 | 250 | 250 | 250 | 220 | 210 | 180 | 180 | A | (230)A | 250 ^H | 300 | 310 ^H | 310 ^H | 320 | 320 | 260 | 260 | 250 | 250 | A | A | 260 | 260 | |
| 26 | 260 | 260 | 300 | 300 | 250 | 730 | 220 | 230 | 240 | 250 | 260 | 290 | 340 | 340 | 320 | 320 ^H | 290 | 270 | 270 | (270)A | 240 | 240 | 280 ^H | 260 | |
| 27 | 280 | 300 | 270 | 270 | 250 | 250 | 240 | 230 | 220 | 230 | 300 | 270 | 270 | 320 | 320 | 290 | 280 | 270 | 250 | 240 | 230 | 260 | A | A | |
| 28 | 280 | 250 | 240 | 250 | 300 | 290 | 250 | 220 | 220 | 230 ^H | 240 | 280 | 280 | 310 | 300 | 260 | 250 | 260 | 250 | 220 | 250 | 260 | A | (300)A | |
| 29 | 290 | 310 | 300 | 260 | 270 | 320 | 240 | 230 | 220 | 250 | 290 | 270 | 280 | 290 | 270 | 270 | 260 | 240 | 260 | 250 | A | A | A | 240 | |
| 30 | 280 | 290 | 280 | 280 | 290 | 280 | 240 | 250 | 230 | 230 | 270 | 260 | 280 | 320 | 310 | 280 ^H | 260 | 260 | 250 | 240 | 240 | 250 | 250 | A | |
| 31 | 240 | 260 | 260 | 280 | 270 | 260 | 220 | 230 | (250)A | 250 | 240 | 290 | 310 | 350 | 340 | 320 ^H | 320 | A | A | (240)A | 290 | 320 | 350 | 320 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 280 | 280 | 260 | 260 | 260 | 240 | 240 | 240 | 240 | 270 | 280 | 290 | 310 | 310 | 310 | 290 | 280 | 270 | 250 | 250 | 250 | 270 | 280 | 270 | |
| Count | 29 | 29 | 29 | 30 | 29 | 29 | 29 | 30 | 28 | 30 | 29 | 31 | 30 | 29 | 27 | 27 | 29 | 24 | 25 | 25 | 20 | 23 | 23 | 25 | |

K'F2

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

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

IONOSPHERIC DATA

foF1

135° E Mean Time

Aug. 1946

| 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 | C | C | C | C | L | 6.2 | 6.5 | 5.7J | (5.5A) | 5.4 | L | L | L | | | | | | |
| 2 | | | | | | L | L | L | L | 5.5 | A | (5.6A) | 5.8 | 5.9 | (5.5) | 5.7 | L | 5.0 | A | A | | | | | |
| 3 | | | | | | | L | L | A | 5.4 | 5.2 | A | 5.4 | A | A | B | 5.2 | A | A | A | | | | | |
| 4 | | | | | | L | 4.0 | (4.5) | 4.7 | L | 5.7 | A | A | A | A | 5.4J | (5.4A) | A | A | A | | | | | |
| 5 | | | | | | 3.4 | C | A | A | 4.8 | 5.9 | 5.5H | 5.7 | 5.6 | 5.4H | 5.3 | 5.0 | L | A | A | | | | | |
| 6 | | | | | | A | L | L | L | A | A | A | 5.6 | 5.6 | 5.5 | 5.3 | 5.1 | L | L | L | | | | | |
| 7 | | | | | | | L | L | 5.1 | L | A | 5.0J | 5.5 | B | 5.6 | 5.3 | A | A | A | | | | | | |
| 8 | | | | | | 3.5K | 4.0K | 5.9 | L | L | L | 5.2 | 5.6 | 5.2 | 5.2 | L | L | L | L | L | | | | | |
| 9 | | | | | | L | B | A | 5.2 | L | L | 5.5 | 5.2 | L | 5.3J | 5.0J | L | 4.7 | A | L | | | | | |
| 10 | | | | | | L | L | L | L | L | B | 5.2 | (5.3)H | B | 5.0 | C | C | C | C | C | | | | | |
| 11 | | | | | | C | A | A | A | 5.5 | 5.4J | 5.7 | 5.7 | 4.9K | 5.2 | 5.2 | 4.7 | A | 3.2J | A | | | | | |
| 12 | | | | | | A | A | A | 4.8 | (5.1) | 5.4 | 6.2 | 5.5 | 5.1 | 5.3 | 5.2H | 5.0H | A | A | A | | | | | |
| 13 | | | | | | L | L | L | L | A | 5.6 | L | L | L | 5.8 | 4.9J | 5.0 | L | L | L | | | | | |
| 14 | | | | | | 2.8J | L | 4.8 | V | L | L | 5.6 | 5.3 | A | A | 5.2 | A | A | A | A | | | | | |
| 15 | | | | | | A | 4.5 | 4.2J | 4.8 | A | 5.0 | 5.2 | 5.2 | 5.2 | 5.3 | A | 4.7 | A | A | A | | | | | |
| 16 | | | | | | L | L | L | A | A | 5.6 | 5.2 | B | 5.5 | A | 5.1 | 4.8J | L | A | A | | | | | |
| 17 | | | | | | L | L | L | A | A | 5.7 | 5.4 | 5.4 | 6.0 | 5.5H | 5.1 | A | 3.9 | A | A | | | | | |
| 18 | | | | | | A | L | L | L | L | 5.2 | 5.4 | 5.4 | 5.4 | 5.3 | A | A | A | A | A | | | | | |
| 19 | | | | | | A | A | A | A | A | 5.5 | B | B | 5.4 | A | L | L | A | A | A | | | | | |
| 20 | | | | | | L | LH | 4.5 | LH | LH | 5.2 | 5.5 | 5.6H | 5.5 | 5.5 | L | L | L | L | 3.6 | A | | | | |
| 21 | | | | | | L | LH | L | L | L | 5.7 | 5.7 | 5.7 | 5.7 | 5.6 | 5.2H | 5.0H | L | L | A | | | | | |
| 22 | | | | | | A | L | L | L | 5.3 | 5.5 | L | 5.7 | 5.4 | 5.3 | 5.1H | LH | L | A | L | | | | | |
| 23 | | | | | | L | LH | LH | LH | LH | 5.8 | 5.9 | 5.9 | A | A | A | A | L | L | L | | | | | |
| 24 | | | | | | B | L | 4.5 | 5.0H | 5.2 | LH | 5.7H | 5.5H | 5.5H | 5.5H | (5.2C) | 4.9 | 4.4H | LH | A | | | | | |
| 25 | | | | | | A | A | A | A | A | L | 5.5 | 5.6 | 5.7H | L | L | A | A | A | A | | | | | |
| 26 | | | | | | L | 4.4 | 4.6 | 5.2 | 5.2 | 5.6H | 6.0H | 5.4 | 5.4 | 5.5 | 5.3H | A | L | L | A | | | | | |
| 27 | | | | | | L | L | A | 5.0 | 5.8 | 4.9 | LH | LH | 5.6 | 5.5H | 5.2 | 4.7 | L | L | L | | | | | |
| 28 | | | | | | L | A | 4.8J | 4.9 | 5.2 | L | 5.7 | 5.5 | 5.5 | 5.5 | 5.0 | 4.6 | L | L | L | | | | | |
| 29 | | | | | | L | A | L | L | L | 5.2 | 5.6 | 5.4 | 5.5 | 5.8 | 5.2 | 4.8 | 4.1 | L | 3.6J | | | | | |
| 30 | | | | | | L | 4.7 | 4.5H | 5.0 | 5.5 | LH | L | 5.3 | 5.5H | 5.2 | 5.6 | L | L | 2.3 | A | | | | | |
| 31 | | | | | | L | L | A | 4.8 | B | 5.5 | 5.5 | 5.5 | 5.8 | 5.6 | A | 5.0 | A | A | A | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Value | | | | | | | | | 4.7 | 5.1 | 5.5 | 5.5 | 5.6 | 5.5 | 5.5 | 5.2 | 5.0 | 4.4 | 3.2 | * | | | | | |
| Count | | | | | | 1 | 4 | 5 | 11 | 14 | 15 | 23 | 2.5 | 23 | 2.4 | 2.1 | 1.6 | 5 | 3 | 1 | | | | | |

foF1

Sweep 2.0 Mc to 15.0 Mc in 1/E min

Manual Automatic

K 3

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

Lat. $36^{\circ}42.4'N$
Long. $139^{\circ}29.3'E$

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

Aug. 1946

R'F1

| 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 | | | | | | 250 | C | C | C | C | A | B | B | B | A | A | 210 | 220 | 220 | | | | | |
| 2 | | | | | | 230 | (180)A | A | (240)A | B | A | A | A | (230)A | B | (230)A | A | A | A | A | A | | | |
| 3 | | | | | | 210 | B | (220)A | (210)A | A | A | A | A | A | A | B | A | A | A | A | A | | | |
| 4 | | | | | | 260 | A | 180 | 200 | A | A | A | A | A | A | A | A | A | A | A | A | | | |
| 5 | | | | | | 200 | C | A | 190 | (200)A | HB | B | B | 230H | B | 220 | 200 | (220)A | A | A | A | | | |
| 6 | | | | | | AK | 200K | (210)A | A | A | A | A | A | A | 190 | 190 | 200 | 220 | 220 | | | | | |
| 7 | | | | | | | 240 | 210 | A | A | A | A | B | B | B | B | A | A | A | A | | | | |
| 8 | | | | | | A | A | 220 | 240 | A | 240 | B | B | B | B | B | A | 250 | 250 | | | | | |
| 9 | | | | | | 1 | 220 | B | A | A | 190 | 200 | 170 | 210 | A | A | A | A | 240 | A | 240 | | | |
| 10 | | | | | | (220)A | 230 | (220)A | 210 | B | B | B | 200H | B | A | C | C | C | C | C | C | | | |
| 11 | | | | | | C | A | A | A | (250)A | A | A | A | 200K | 210 | 250 | A | A | A | A | A | | | |
| 12 | | | | | | A | A | A | 210 | C | A | 310 | A | 210 | A | 200H | (200)H | A | A | A | A | | | |
| 13 | | | | | | A | A | A | A | (230)A | A | A | A | B | B | (190)A | 220 | 210 | 220 | | | | | |
| 14 | | | | | | A | 230 | A | A | A | A | 210 | A | A | A | A | A | A | A | A | A | | | |
| 15 | | | | | | A | 210 | 210 | 200 | 190 | 180 | 180 | 210 | A | A | A | A | A | A | A | A | | | |
| 16 | | | | | | A | A | A | A | A | 220 | A | B | A | A | (250)A | 250 | (250)A | A | A | A | | | |
| 17 | | | | | | A | A | A | A | A | A | A | 200 | (190) | 180H | A | A | A | A | A | A | | | |
| 18 | | | | | | A | A | A | A | A | 190 | 170 | (190)A | (200)A | 210 | A | A | A | A | A | A | | | |
| 19 | | | | | | A | A | A | A | A | A | 230 | B | A | A | A | (220)A | A | A | A | A | | | |
| 20 | | | | | | 220 | A | 220 | 180H | 200H | A | A | (200)B | B | B | 240 | 240 | 260 | 250 | A | A | | | |
| 21 | | | | | | 230 | 240H | 200 | 190 | 190 | A | A | A | A | 170 | 200H | A | 210 | 240 | A | A | | | |
| 22 | | | | | | A | 230 | 230 | 200 | 220 | A | A | A | A | (220)A | A | 200H | A | A | A | 240 | | | |
| 23 | | | | | | 220 | 220H | 200H | 190H | A | (210)A | (250)A | A | A | A | A | A | (230)A | A | A | A | | | |
| 24 | | | | | | 240 | 240 | 220 | 190H | 180 | (180)A | 190H | (200)A | 190H | (200)A | 240H | (230)C | 220 | 230H | 230H | A | | | |
| 25 | | | | | | A | A | A | A | A | 220 | 180 | A | 200H | 210 | A | A | A | A | A | A | | | |
| 26 | | | | | | 210 | A | 180 | A | A | (170)H | A | 170H | A | 200 | 220H | A | A | A | A | A | | | |
| 27 | | | | | | 240 | 220 | A | 180 | 200 | 180 | A | A | (210)A | 190H | 210 | 200 | (210)A | (230)A | A | A | | | |
| 28 | | | | | | 220 | A | A | 180 | A | A | A | (190)A | (200)A | A | 210 | 210 | 240 | | | | | | |
| 29 | | | | | | 210 | A | 200 | (190)A | A | 180 | B | A | 210 | 210 | 210 | 200 | 250 | 220 | | | | | |
| 30 | | | | | | 230 | 210 | A | 190 | A | 190H | (200)A | 210 | 210H | 220 | 210 | 200 | E | | | | | | |
| 31 | | | | | | 230 | 210 | A | 210 | 190 | B | 240 | A | 230 | A | 250 | A | A | A | A | A | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | * | 220 | 220 | 210 | 190 | 200 | 180 | 200 | 200 | 210 | 220 | 210 | 220 | 240 | 240 | 240 | | | |
| Count | | | | | | 2 | 14 | 16 | 15 | 15 | 16 | 13 | 12 | 12 | 14 | 15 | 16 | 15 | 15 | 10 | 3 | | | |

Sweep 2.0 Mc to 1.5 Mc in 1.5 min

Manual Automatic

R'F1

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

f_oE

Aug. 1946

| 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 | | | | | | 1.8J | C | C | C | C | A | B | B | B | A | A | A | A | A | E | | | | |
| 2 | | | | | | E | A | A | 3.6 | 3.6 | 4.0 | A | A | A | B | B | A | A | A | E | | | | |
| 3 | | | | | | 1.9J | 2.3 | 3.1 | 3.2 | B | 3.4 | 3.5 | 3.9 | B | B | B | A | A | A | E | | | | |
| 4 | | | | | | 1.8J | 2.4 | 3.2 | 3.5 | A | A | A | A | A | A | A | A | A | 2.6J | 2.4 | E | | | |
| 5 | | | | | | E | A | C | A | 3.4 | A | 3.8 | B | B | B | B | (3.4) | A | A | E | | | | |
| 6 | | | | | | 1.8J | A | 3.0 | A | A | A | A | A | A | 4.1 | 3.8J | 3.7 | 3.5 | 3.1 | 2.3 | 1.9J | | | |
| 7 | | | | | | E | 2.4 | 2.9 | 3.5 | 3.8 | A | A | A | A | 3.4 | A | B | A | 3.0 | A | E | | | |
| 8 | | | | | | E | A | 3.0 | A | 3.4 | A | B | B | B | B | A | 3.5 | A | A | E | | | | |
| 9 | | | | | | 1.8J | A | A | A | A | A | A | 4.0 | B | 4.0 | 3.8 | A | 3.1 | A | 1.4J | | | | |
| 10 | | | | | | E | A | 3.0 | 3.1 | 3.4 | B | A | 3.9 | B | 3.6 | C | C | C | C | C | | | | |
| 11 | | | | | | C | A | 2.7 | 2.9 | A | A | A | A | A | A | (3.7) | A | A | A | E | | | | |
| 12 | | | | | | E | A | A | A | C | 3.7 | A | 3.5 | A | A | B | 3.3 | 3.0 | A | E | | | | |
| 13 | | | | | | E | 2.0 | A | A | 3.2 | A | A | A | A | 3.8 | B | 3.5 | 3.0 | 2.4 | E | | | | |
| 14 | | | | | | E | A | 2.9 | B | C | A | 3.9 | A | A | A | A | A | A | A | E | | | | |
| 15 | | | | | | E | A | A | 3.1 | A | A | A | A | A | 3.9 | 3.8 | 3.6 | 3.2 | A | E | | | | |
| 16 | | | | | | E | A | 2.8 | 3.2 | 3.4 | 3.8 | 3.8 | B | A | A | A | 3.5 | A | A | E | | | | |
| 17 | | | | | | E | A | 2.8 | 3.2 | 3.4 | A | A | A | A | A | A | 3.5 | 3.0 | 2.2 | E | | | | |
| 18 | | | | | | E | 2.2J | 2.1J | 3.2 | 3.3 | 3.6 | (4.0) | 3.8 | A | 3.9 | 3.7 | 3.3 | 2.9 | A | E | | | | |
| 19 | | | | | | E | A | A | A | A | A | B | A | A | A | A | A | A | A | E | | | | |
| 20 | | | | | | E | A | 2.8 | 3.0 | 3.6 | A | A | 4.1 | B | B | 3.9 | 3.5 | A | A | E | | | | |
| 21 | | | | | | E | 2.2 | 3.0 | B | 3.8 | 3.8 | A | 3.8 | 3.7 | 3.6 | A | 3.4 | 2.6 | 2.4 | E | | | | |
| 22 | | | | | | E | A | 2.8 | 3.3 | A | 3.9 | 3.8 | A | A | A | A | A | A | A | E | | | | |
| 23 | | | | | | E | 2.2 | 2.9 | 3.4 | 3.6 | 3.8 | 3.9 | 3.9 | A | A | A | A | A | A | E | | | | |
| 24 | | | | | | E | B | B | 3.2 | 3.8 | A | A | A | A | A | C | 3.3 | A | A | E | | | | |
| 25 | | | | | | E | A | A | A | A | A | 4.0 | A | A | 3.9 | 3.7 | A | 2.4 | A | E | | | | |
| 26 | | | | | | E | A | 2.8 | 3.0 | A | A | A | 4.0 | 3.9 | 3.8 | A | 3.4 | 2.8 | 2.6 | E | | | | |
| 27 | | | | | | E | A | A | A | (3.8) | A | 4.1 | A | A | A | 3.3 | 3.2 | A | A | E | | | | |
| 28 | | | | | | E | 2.2 | 2.7 | 3.0 | A | A | A | A | A | A | A | A | A | E | | | | | |
| 29 | | | | | | E | A | A | (2.9) | A | A | 4.0 | A | A | (4.0) | (3.6) | A | A | A | E | | | | |
| 30 | | | | | | E | A | A | 3.1 | (3.6) | A | (3.8) | A | (4.2) | A | 3.5 | (3.4) | A | E | | | | | |
| 31 | | | | | | E | E | (2.6) | A | A | 3.5 | B | 4.1 | A | 3.8 | A | A | A | A | E | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | E | 2.2 | 2.9 | 3.2 | 3.6 | 3.8 | 3.9 | 3.9 | 3.9 | 3.8 | 3.7 | 3.4 | 3.0 | 2.4 | E | | | | |
| Count | | | | | | 30 | 9 | 18 | 18 | 15 | 9 | 11 | 10 | 8 | 12 | 12 | 14 | 12 | 10 | 30 | | | | |

f_oE

Sweep 2.0 Mc to 1.5 Mc in 1.5 min

Manual

Automatic

K 5

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

Aug. 1946

f_oF₂

| 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 | C | C | C | C | A | B | B | B | A | A | A | A | A | E | | | | | |
| 2 | | | | | | E | A | A | 100 | 100 | 90 | A | A | A | B | B | B | B | A | A | E | | | | |
| 3 | | | | | | E | (100) | B | B | 100 | 100 | 100 | 100 | B | A | B | A | A | A | E | | | | | |
| 4 | | | | | | E | A | A | 100 | A | A | A | A | A | A | A | A | A | 100 | 100 | E | | | | |
| 5 | | | | | | E | A | C | A | 100 | A | 90 | B | A | B | B | 100 | A | A | E | | | | | |
| 6 | | | | | | E | A | 100 | A | A | A | A | A | 100 | 100 | 100 | 100 | 100 | 100 | E | | | | | |
| 7 | | | | | | E | 110 | 110 | 110 | 100 | A | A | A | 100 | A | B | A | 110 | A | E | | | | | |
| 8 | | | | | | E | A | 100 | A | 100 | A | B | B | B | A | A | 100 | A | A | E | | | | | |
| 9 | | | | | | E | A | A | A | A | A | A | 110 | B | 110 | 110 | A | 110 | A | E | | | | | |
| 10 | | | | | | E | A | A | 100 | 100 | A | A | A | A | 100 | C | C | C | C | E | | | | | |
| 11 | | | | | | C | A | 100 | A | A | A | A | A | A | A | A | A | A | A | E | | | | | |
| 12 | | | | | | E | A | A | A | C | 100 | A | 100 | A | A | B | 110 | 110 | A | E | | | | | |
| 13 | | | | | | E | E | A | A | 100 | A | A | A | A | 100 | B | 100 | 100 | 100 | E | | | | | |
| 14 | | | | | | E | A | 110 | B | C | A | 100 | A | A | A | A | A | A | 100 | E | | | | | |
| 15 | | | | | | E | A | A | 100 | A | A | A | A | A | 100 | 100 | 100 | 100 | A | E | | | | | |
| 16 | | | | | | E | A | 100 | 100 | 100 | 100 | 100 | B | A | A | 100 | A | A | A | E | | | | | |
| 17 | | | | | | E | A | 100 | 100 | 100 | A | A | A | A | A | A | A | 100 | A | E | | | | | |
| 18 | | | | | | E | 120 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | A | 100 | 100 | 100 | A | E | | | | | |
| 19 | | | | | | E | A | A | A | A | A | B | A | A | A | A | A | A | A | E | | | | | |
| 20 | | | | | | E | A | 100 | 100 | A | A | A | A | A | B | 100 | 100 | 100 | A | E | | | | | |
| 21 | | | | | | E | E | 120 | B | A | A | A | 100 | 100 | 100 | A | 100 | A | A | E | | | | | |
| 22 | | | | | | E | A | 120 | 110 | A | A | 100 | A | A | 110 | A | A | A | A | E | | | | | |
| 23 | | | | | | E | (130) | 110 | 100 | 100 | 110 | 110 | 100 | A | A | A | A | A | A | E | | | | | |
| 24 | | | | | | E | B | B | 110 | A | A | A | A | A | A | C | 100 | A | A | E | | | | | |
| 25 | | | | | | E | A | A | A | A | A | 100 | A | 100 | (110) | 110 | A | 100 | A | E | | | | | |
| 26 | | | | | | E | A | 100 | 100 | A | A | A | 100 | A | A | A | 100 | 110 | 110 | E | | | | | |
| 27 | | | | | | E | A | A | A | A | A | A | A | A | 100 | 100 | 100 | 100 | A | E | | | | | |
| 28 | | | | | | E | A | 100 | 100 | A | A | A | A | A | A | A | A | A | A | E | | | | | |
| 29 | | | | | | E | A | A | A | A | A | 90 | A | A | A | A | A | A | A | E | | | | | |
| 30 | | | | | | E | A | A | 100 | A | A | A | A | A | A | 110 | A | A | A | E | | | | | |
| 31 | | | | | | E | E | A | A | A | 100 | B | 110 | A | A | A | A | A | A | E | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | 0 | 120 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Count | | | | | | 0 | 4 | 15 | 16 | 10 | 7 | 9 | 8 | 6 | 9 | 10 | 12 | 11 | 5 | 0 | | | | | |

f_oF₂

Sweep 2.0 Mc to 15.0 Mc in 15 min

Manual Automatic

K6

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

fEs

Aug. 1946

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 | 3.4 | 4.2 | 4.2 | 3.4 | 3.6 | C | C | C | C | 5.4 | 4.6 | 7.2 | 4.0 | 7.0 | 6.0 | 5.1 | 4.8 | 4.2 | 3.4 | 3.0 | 3.0 | 2.6 | 4.4 | |
| 2 | 3.0 | 3.0 | 5.0 | 3.4 | 4.0 | 5.8F | 5.0 | 4.8 | 4.2 | 6.0 | 6.9 | 7.6 | 8.0 | 7.4 | 4.4 | 5.6 | 8.0 | 7.8 | 8.0 | 8.0 | 7.6 | 9.4 | 6.6 | 3.2 | |
| 3 | 5.0 | 5.6 | 3.0 | 4.0 | 3.0 | 2.8 | 2.6 | 4.2 | 5.0 | 5.8 | 5.6 | 11.5 | 5.4 | 10.2 | 10.6 | 12.0 | 5.0 | 4.0 | 8.8F | 4.8 | 5.6 | 5.0 | 5.8 | 4.4 | |
| 4 | E | 3.2 | 4.4 | 4.2 | 3.2 | 2.8 | 4.2 | 4.1 | 4.2 | 4.8 | 5.4 | 7.8 | 4.4 | 4.0 | 4.4 | 7.4 | 4.6 | 4.4 | 4.4 | 11.0 | 10.6 | 6.6 | 8.2 | 6.7 | |
| 5 | 5.2 | 4.6 | 5.0 | 4.0 | 3.4 | 3.0 | 3.2 | C | 4.2 | 5.2 | 6.6 | 4.2 | B | B | 6.2 | 3.5 | 4.2 | 3.7 | 2.2 | 2.2 | 2.1 | E | 2.4 | 2.9 | |
| 6 | 4.3 | 5.0 | 2.4 | E | 3.4 | 2.6 | 4.3 | 4.0 | 4.2 | 11.0 | 8.2 | 7.0 | 5.2 | 4.7E | 4.7E | 4.7E | 4.7E | 3.2 | 3.4 | 2.8 | E | E | 2.8 | 3.2 | |
| 7 | 4.2 | 4.4 | 4.2 | 2.4 | 2.6 | 2.7 | 2.8 | 4.2 | 5.6 | 4.8 | 5.2 | 5.2 | 4.2 | 6.0 | 3.3 | 3.3 | 7.0 | 8.0 | 4.4 | E | 5.4 | 3.4 | 3.2 | 4.0 | |
| 8 | 4.4 | 2.6 | 3.2 | 6.3 | 3.8 | 3.8 | 3.3 | 4.1 | 6.3 | 4.6 | 4.2 | B | 4.2 | B | B | 3.8 | 4.4 | 5.0 | 5.0 | 4.0 | 6.4 | 6.2 | 6.0F | 5.2 | |
| 9 | 2.6 | 2.8 | 2.5 | 2.7 | E | 2.2 | 3.2 | 4.0 | 5.0 | 4.2 | 4.6 | 4.8 | 4.2 | 4.7E | 4.2 | 6.8 | 11.6 | 4.0 | 5.6 | 5.8 | 4.2 | E | E | E | |
| 10 | E | 8E | E | 3.0 | E | 2.6 | 3.8 | 4.2 | 5.2 | 5.2 | B | 4.2 | 4.2 | 4.2 | 4.0 | C | C | C | C | C | C | C | C | C | |
| 11 | C | C | C | C | C | C | 4.3 | 6.0 | 8.5 | 5.5 | 6.0 | 3.3 | 4.2 | 5.2 | 3.3 | 5.0 | 7.0 | 8.0 | 5.9 | 4.7 | 9.2F | 4.7F | 2.8 | 3.8 | |
| 12 | 5.0 | 3.2 | 3.2 | 2.2 | 3.0 | 3.4 | 5.6 | 6.0 | 6.0 | C | 4.8 | 6.4 | 6.8 | 6.8 | 4.6 | 6.0 | 4.7 | 6.3 | 6.5 | 8.6 | 6.0F | 7.0F | 6.3F | 5.5F | |
| 13 | 5.0 | 4.4 | 3.2 | 3.5 | 3.4 | E | 4.5 | 5.2 | 5.6 | 7.6 | 4.9 | 4.9 | 6.0 | B | B | 3.9 | 3.5 | 4.0 | 2.8 | 2.4 | 6.2 | 8.6 | 6.8F | 6.6 | |
| 14 | 3.0 | 3.2 | 4.0 | 2.8 | 3.2 | 2.8 | 3.4 | 4.2 | 5.3 | C | 6.2 | 7.0 | 6.0 | 10.5 | 9.2 | 4.8 | 7.0 | 6.2 | 8.8 | 8.4 | 5.4 | 4.8 | 3.4 | 2.8 | |
| 15 | 4.0 | 2.0 | 2.4 | 2.2 | 3.5 | 4.0 | 3.6 | 3.7 | 4.2 | 5.1 | 5.4 | 4.5 | 4.2 | 6.4 | 7.0 | 8.8 | 8.5 | 5.0 | 9.5 | 9.5 | 6.5 | 4.0 | 6.2F | 5.0 | |
| 16 | 4.4 | E | E | 2.8 | E | 2.0 | 3.4F | 4.2 | 6.2 | 7.0 | 5.2 | 4.2 | 6.4 | 12.0F | 7.8 | 5.5 | 5.6 | 6.2 | 4.0 | 2.9 | 2.8 | 5.2 | 4.2 | 5.2 | |
| 17 | 3.4 | 3.2 | E | 3.0 | E | E | 3.2 | 4.4 | 5.2 | 5.8 | 4.6 | 7.1 | 4.2 | 8.3 | 6.3F | 4.8 | 5.5 | 4.8 | 5.5 | 4.8 | 9.2 | 5.2 | 4.2 | 3.2 | |
| 18 | 2.4 | 2.4 | 2.2 | 2.7 | 4.2 | E | 3.4 | 4.2 | 4.6 | 4.8 | 5.0 | B | 4.8 | 4.3 | 4.7E | 7.0 | 6.2 | 10.1 | 7.7 | 8.5 | 8.1 | 6.7F | 7.5F | 2.6 | |
| 19 | 7.5F | 7.6 | 2.6 | E | E | E | 4.4 | 7.0 | 8.7 | 7.2 | 8.2 | B | 4.2 | 5.4 | 10.0 | 8.5 | 4.7 | 8.2 | 4.6F | 6.2 | 6.2 | 4.6 | 6.0F | 5.8 | |
| 20 | 3.8 | E | 8.3 | 4.2 | 2.4 | E | 3.2 | 3.7 | 4.1 | 4.0 | 4.0 | 4.9 | 4.2 | 5.1 | 4.8 | 4.7E | 4.0 | 4.8 | 3.4 | 4.6 | 3.2 | 3.8 | 3.0 | 2.1 | |
| 21 | 4.0 | 4.0 | 3.2 | 3.0 | 2.8 | 3.2 | 3.1 | 4.7E | 3.5 | 4.0 | 4.2 | 4.3 | 6.0 | 4.9 | 4.6 | 4.7E | 5.8 | 6.6 | 9.8 | 7.8 | 7.2 | 5.4 | 6.2 | 8.0 | |
| 22 | 5.4 | 4.6 | 4.4 | 3.4 | 6.4 | 5.6 | 5.2F | 3.1 | 4.7E | 4.7 | 5.0 | 6.1 | 6.4 | 5.8 | 7.0 | 5.1 | 5.0 | 4.6 | 4.8 | 4.6 | 4.2 | 3.8 | 3.2 | 3.2 | |
| 23 | 3.0 | 5.4 | 3.2 | 2.8 | 3.2 | 3.0 | 2.7 | 3.2 | 4.8 | 3.7 | 4.7 | 4.9 | 5.5 | 6.2 | 12.4 | 12.4F | 8.4F | 6.0F | 4.3F | 4.2 | 3.8 | 4.0 | 3.3 | 4.0 | |
| 24 | 3.2 | 3.1 | 3.2 | 2.6 | 2.9 | 3.0 | B | 4.3 | 4.1 | 4.5 | 4.9 | 4.8 | 4.9 | 5.2 | 4.7 | C | 3.8 | 3.4 | 2.4 | 4.2 | 2.2 | C | 3.2 | E | |
| 25 | E | E | E | E | E | 2.6 | 4.2 | 5.4 | 9.2 | 7.0 | 4.8 | 4.7E | 5.3 | 5.1 | 5.1 | 4.8 | 5.0 | 5.4 | 5.6 | 7.2 | 5.8 | 5.6 | 5.4 | 4.2 | |
| 26 | 2.8 | 3.2 | 3.0 | E | E | E | 4.2 | 5.2 | 4.1 | 4.2 | 4.3 | 4.3 | 5.0 | 5.6 | 4.2 | 4.2 | 5.8 | 4.8 | 3.3 | 8.1 | 3.9 | 5.8 | 3.2 | 4.1F | |
| 27 | 3.3 | 3.0 | 3.2 | 2.4 | E | 2.3 | 3.2 | 4.7 | 4.7 | 4.4 | 4.1 | 4.1 | 4.3 | 4.7 | 4.1 | 4.7 | 3.3 | 8.2 | 4.2 | 3.8 | 4.8 | 4.0 | 7.2 | 5.6 | |
| 28 | 3.4 | 3.6 | 3.2F | E | E | E | 2.7 | 5.2 | 6.0 | 4.7 | 7.3 | 8.0 | 5.8 | 5.1 | 6.0 | 4.0 | 4.2 | 4.2 | 3.6 | 5.2 | 8.3 | 7.4 | 6.2 | 4.6 | |
| 29 | 3.2 | 3.2 | 2.6 | 2.8 | 3.0 | 2.6 | 5.0 | 7.4 | 4.8 | 4.2 | 4.2 | 4.7E | 4.0 | 4.2 | 5.4 | 4.0 | 5.4 | 4.4 | 3.2 | 4.0 | 8.0 | 7.7 | 5.4 | 5.0 | |
| 30 | 3.4 | 2.9 | 3.3 | 2.4 | 2.4 | E | 3.2 | 4.0 | 4.9 | 4.6 | 4.7 | 5.3 | 6.0 | 5.4 | 4.7 | 5.4 | 4.4 | 4.2 | 3.0 | 3.2 | 2.2 | E | 6.2 | 5.4F | |
| 31 | 2.8 | E | 2.2 | 2.4 | E | 2.0 | 3.6 | 5.4 | 6.4 | 4.2 | 4.1 | 3.7 | 4.1 | 4.6 | 4.2 | 4.2 | 4.4 | 7.2 | 8.6 | 7.6 | 4.8F | 4.4 | 3.2 | 5.0F | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 3.4 | 3.2 | 3.2 | 2.8 | 3.0 | 2.6 | 3.4 | 4.2 | 5.0 | 4.8 | 5.8 | 4.9 | 5.1 | 5.3 | 4.8 | 4.8 | 5.1 | 5.5 | 4.7 | 4.8 | 4.8 | 5.6 | 5.0 | 5.4 | 4.4 |
| Count | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.9 | 3.0 | 2.8 | 3.0 | 2.8 | 3.0 | 2.8 | 2.9 | 2.8 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 3.0 | 3.0 |

fEs

Sweep $\frac{3.0}{2.0}$ Mc to $\frac{5.0}{2.5}$ Mc in $\frac{1}{2}$ min Manual Automatic

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

Lat. 35° 42.4' N
Long. 139° 29.3' E

IONOSPHERIC DATA

Kokubunji Tokyo

Aug. 1946 (M3000)F2

135° E Mean Time

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

(M3000)F2

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

Sep. 1946

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 | 6.9 | 6.0 | 6.2 | 6.2 | 6.6 | 8.3 | 7.1 | 10.6 | 11.4 | 11.1 | 12.1 | 12.0 | 11.6 | 4.7 | 8.4 | 8.1 | 7.9 | 7.9 | 7.6 | 7.6 | 7.7 | 7.8 | 8.1 |
| 2 | 7.8 | (6.5) | 6.1 | 5.8 | 5.6 | 5.7 | 7.2 | 9.0 | 10.0 | 10.8 | 10.8 | 11.1H | 11.0 | 11.3 | 10.8 | 10.0 | 8.9 | 8.3 | 8.0 | 8.4 | 7.5 | 7.0 | 7.0 | 7.0 |
| 3 | 6.6 | 6.5 | 6.3 | 6.3 | 5.7 | 5.6 | 6.8 | 7.9 | 9.6 | 10.2 | 9.6 | 10.6 | 11.8 | 11.3 | 11.8 | 11.3 | 10.0 | (9.4) | (9.5) | 8.7 | 6.4 | 6.4 | 6.5 | 6.3 |
| 4 | 8.5H | 6.4 | 6.2 | 5.9 | 5.8 | 6.3 | 8.3 | 8.3 | 9.2 | 10.2 | 10.5 | 10.8 | 10.6H | 10.2H | 10.0 | 10.2 | 9.3 | 9.0 | 8.8 | 9.2 | 8.4 | 7.2 | A | (7.0) |
| 5 | 7.0 | 6.7H | 5.8H | 5.6 | 5.3 | 5.3 | 6.3 | 6.0K | AK | 6.1K | 6.1K | 6.4 | 7.1 | 7.6 | 7.6 | 7.2 | 7.2 | 7.0 | 6.3 | 5.6 | 5.5 | 5.4 | 5.6 | 5.6 |
| 6 | 5.6 | 5.4 | 5.4 | 5.1 | (5.0) | 4.4 | 7.1 | 7.9 | 8.7 | 8.5 | 9.0 | 8.5 | 8.4 | 9.3 | 9.2 | 8.9 | 8.4 | 8.3 | 8.0 | 7.1 | 5.5 | 6.1 | 5.9 | 6.0 |
| 7 | 6.1 | 6.1 | 5.8 | 5.7 | 5.3 | 5.4 | 7.3 | 7.4 | 7.5 | 8.1 | 8.1 | 8.9 | 9.6 | 9.1 | 9.4 | 9.5 | 9.1 | 9.0 | 8.8 | 8.5 | 6.4 | 5.3 | 6.6 | 6.4 |
| 8 | 5.8 | 6.1 | 6.4 | 6.5 | 4.1 | 4.3 | 6.3 | 8.5 | 10.5 | 10.1 | 9.2 | 8.3 | 9.0 | 9.1 | 9.2 | 9.1 | 9.2 | (9.3) | 8.6 | 7.2 | 6.5 | (5.4) | 5.6 | 5.5 |
| 9 | 5.4 | 5.5 | 5.8 | 5.3 | 4.3 | (4.2) | 6.5 | (9.3) | 9.3 | 8.2 | 8.1 | 3.8 | 9.2 | 8.7 | 8.4 | 8.9 | 8.6 | 8.7 | 8.5 | 8.0 | 6.3 | 6.1 | 6.5 | 5.9 |
| 10 | 5.8 | 5.8 | 5.3 | 5.2 | 5.1 | 5.1 | 7.7 | 8.2 | 6.6 | 6.4 | 7.1 | 8.2 | 8.5 | 8.6 | 8.7 | 8.2 | 8.4 | 8.2 | 8.3 | 7.0 | 6.3 | 6.1 | 6.5 | 5.9 |
| 11 | C | C | C | C | C | C | C | C | C | C | C | 8.9 | 9.2 | 9.2H | 8.9H | 9.0H | 8.9 | 9.1 | (9.5) | 8.2 | 6.3 | 6.5 | 5.9 | 6.1 |
| 12 | 6.5 | 5.9 | 5.6 | 5.3 | 5.5 | 6.0 | (7.2) | 8.3 | 8.6 | 8.6 | 8.9 | 9.1 | 10.1 | 10.2 | 10.0 | 10.0 | 9.7 | 8.8 | 9.2 | 8.5 | 6.8 | 6.3H | 5.5 | 5.5 |
| 13 | 5.2 | 5.3 | 5.5 | 5.7 | 4.9 | 4.8 | 6.7 | 9.5 | 9.2 | 9.1 | 8.5 | 10.0 | 10.7H | 10.1H | 9.9 | 10.3H | 10.0 | 9.3 | 10.2 | 8.7 | 5.9 | 5.6 | 5.9 | 6.0 |
| 14 | 5.9 | 5.7 | 5.6 | 5.6 | 5.5 | 5.3 | 7.6 | 10.0J | (9.9) | 9.1 | 9.2 | 9.7 | 10.4 | 10.9 | 11.6 | 10.2 | 10.4 | 10.7 | 9.8J | 7.7 | 6.3 | 6.5 | 6.4 | 6.0 |
| 15 | 6.1 | 6.1 | 5.8 | 5.4 | 5.2 | 5.2 | 8.0 | 10.3 | 9.3 | 9.4 | 9.3 | 9.3 | 11.1 | 10.8 | 8K | 11.7 | 12.0 | 10.8 | 10.3 | 7.3 | 4 | 6.3 | 6.3 | 6.2 |
| 16 | 6.1 | 6.1 | 5.9 | 5.6 | 5.2 | 5.4 | 7.3 | 9.5 | 10.6 | 9.5 | 9.3 | 10.3H | 10.6 | 10.5 | 10.9 | 10.6 | 10.8 | 11.3 | 11.0 | 8.8 | 6.7 | 6.6 | 6.7 | 7.1 |
| 17 | 6.6 | 6.7 | 6.2 | 5.6 | 5.2 | 5.4 | 9.0 | (9.8) | 8.9 | 7.7 | 10.8 | 11.9 | 10.6 | 11.9 | 12.2 | 10.8 | 10.2 | (9.5) | 10.3 | 8.4 | 7.3 | 7.3 | 7.4 | 7.8 |
| 18 | 7.6 | 7.5 | 7.4 | 7.3 | 7.2 | 6.6 | 8.3 | 9.4 | 9.6 | 10.2 | 10.7 | 10.9 | 11.9 | 11.5 | 13.1 | 11.8 | 12.7 | 11.5 | 10.2 | 8.0 | 7.5 | 7.3 | 8.5H | 7.1 |
| 19 | 6.1 | 7.2 | 7.7 | 5.5 | 5.8 | 6.1 | 10.3 | 10.0H | 11.5H | 12.2 | 12.7 | 13.0 | 12.0 | 13.0 | 12.0 | 11.8 | 9.7F | 8.9 | 8.6F | 8.4 | 7.5 | 7.7 | 7.6 | 6.6K |
| 20 | 7.2K | 6.0K | 6.2K | (6.3)K | 5.6K | 5.3 | 6.5 | 8.2 | 8.9 | 11.9 | 12.1 | 10.6 | 10.2 | 10.3 | 9.7 | 9.6 | 9.3 | 9.3 | 9.6 | 7.7 | 7.3 | 6.6 | 6.8 | 6.8 |
| 21 | 6.5 | 6.3 | 5.8 | 5.3 | 4.9 | 4.9 | 7.0 | 7.6 | 8.9 | 10.2 | 11.0 | 12.2 | 12.2 | 11.9H | 11.5 | 11.0 | 9.9 | 9.0 | 8.8 | 6.7 | 7.5 | 7.3 | 6.7 | 6.7 |
| 22 | 6.5 | 6.0 | 5.9 | 5.6 | 5.4 | 5.0 | 6.5 | 8.8 | 9.1 | 9.2 | 10.3 | 11.6 | 10.5 | 10.1 | 10.5 | 10.8 | 11.3 | 11.8 | 11.2 | 9.4 | 7.3 | 7.6K | 3.8K | 5.6K |
| 23 | 5.0K | 2.7K | AK | AK | 4.7K | 4.3K | 4.2K | (4.1)K | 4K | 4K | 4K | 4K | 5.9K | 7.1K | 8.6K | 8.8K | 7.6K | 9.2 | 9.3 | 7.7 | 7.1 | 7.8 | 7.8 | 7.2 |
| 24 | 6.2 | 6.3 | 5.9 | 6.6F | 5.8F | 6.1F | 8.5H | 12.0F | 10.3F | 13.6 | 11.5 | 13.4H | 12.4 | 10.9 | 10.5 | 11.4 | 10.8 | 10.4 | (10.1) | 7.8 | 7.7 | 7.8 | 8.3 | 8.1 |
| 25 | 7.0 | 6.8 | 6.1 | 5.7 | 5.2 | 5.1 | 7.2 | 8.9 | 9.0 | 10.9 | 10.4 | 10.6 | 12.0 | 11.5 | 11.5 | (11.2) | 10.8 | 9.6 | 9.0 | 7.3 | 6.7 | 7.0 | 7.2 | 7.5 |
| 26 | 6.6 | 5.6 | 5.5 | 5.6 | 5.3 | 4.8 | 6.8 | 9.2 | 10.7 | 10.4 | 10.3 | 10.2 | 11.3 | 11.4 | 11.1 | 11.1 | 11.1 | 10.8 | 9.3 | 7.0F | 6.9 | 6.7 | 6.5 | 6.3 |
| 27 | 6.2 | 6.0 | 5.8 | 5.9 | 5.8 | 5.2 | 7.2 | 10.0 | 9.8 | 10.8 | 11.6 | 11.3H | 11.6H | 11.9 | 11.9 | 11.5 | 11.0 | 10.5 | 9.0 | 7.9 | 7.5 | 6.7 | 6.5 | 5.9 |
| 28 | 5.7 | 5.4 | 5.4 | 5.1 | 4.6 | 4.5 | 5.4 | 6.5 | 6.7 | 6.7 | 8.2 | 9.1 | 9.4 | 9.2 | 9.2 | 9.2 | 9.3 | 8.4 | 7.1 | 6.4 | 6.5 | 6.3 | 6.3 | 6.0 |
| 29 | 5.8 | 5.3 | 4.9 | 4.0 | 4.1 | 3.8 | 6.0H | 6.8 | 6.2 | 7.9 | 8.7H | 9.2H | 9.6 | 10.3 | 9.0 | 8.1 | 8.1 | 8.4 | 7.9 | 6.4 | 6.0 | 5.8 | 5.7 | 5.8 |
| 30 | 5.5 | 5.4 | 5.5 | 4.6 | 4.6 | 4.6 | 7.1H | 7.6 | 9.0 | 9.9 | 10.3 | 10.1H | 12.7 | 11.5 | 10.8 | 10.8 | 10.2 | 10.2 | 8.8 | 6.8 | 5.9 | 5.9 | 5.9 | 6.3 |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean | | | | | | | | | | | | | | | | | | | | | | | | |
| Use | | | | | | | | | | | | | | | | | | | | | | | | |
| Value | 6.2 | 6.1 | 5.8 | 5.6 | 5.3 | 5.2 | 7.2 | 8.8 | 9.0 | 9.5 | 10.3 | 10.3 | 10.6 | 10.4 | 10.3 | 10.2 | 9.7 | 9.3 | 9.0 | 7.8 | 6.8 | 6.6 | 6.5 | 6.3 |
| Count | 29 | 29 | 28 | 28 | 24 | 24 | 29 | 29 | 28 | 29 | 29 | 30 | 30 | 30 | 29 | 30 | 30 | 30 | 30 | 29 | 28 | 29 | 28 | 29 |

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Sweep Manual Automatic

K

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

κ'F2

Sep. 1946

| 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 | 2.80 | 2.80 | 2.50 | 3.00 | 3.10 | 3.00 | 2.50 | 2.40 | 3.10 | 2.90 | 2.50 | 3.10 | 2.70 | 3.00 | 2.70 | 2.50 | 2.50 | 2.60 | 2.50 | 2.60 | 2.90 | 3.10 | 2.80 | 2.60 | |
| 2 | 2.60 | 2.60 | 2.70 | 2.80 | 2.80 | 2.80 | 2.70 | 2.40 | 2.40 | (2.50)A | 2.80 | (2.70)H | 2.80 | 2.90 | 3.00 | (2.40)H | 2.40 | 2.30 | 2.60 | 2.50 | 2.50 | 2.40 | 3.10 | 3.00 | |
| 3 | 2.80 | 2.90 | 2.70 | 2.80 | 2.80 | 2.80 | 2.20 | 2.10 | A | 2.50 | 2.50 | 3.10 | 3.20 | 3.00 | 2.50 | 2.70 | 2.40 | 2.50 | 2.50 | 2.40 | (2.30)A | 3.00 | 3.00 | 3.20 | |
| 4 | 3.40H | 3.10 | 2.70 | 2.90 | 3.00 | 2.60 | 2.20 | 2.20 | 2.50 | 2.50 | 2.80 | 2.80H | 2.90H | 2.80 | 2.80 | 2.80 | 2.30 | 2.60 | 2.60 | 2.50 | (2.30)H | 2.80 | A | 3.10 | |
| 5 | 3.40 | 3.00H | 3.00H | A | A | A | 3.00 | AK | AK | 2.80K | 3.00K | 3.40 | 3.70 | 3.10 | 2.80 | 3.10 | 2.70 | 2.50 | 2.70 | 2.80 | 3.10 | 3.20 | 3.30 | 3.20 | |
| 6 | 3.20 | 3.10 | 3.10 | 3.20 | 3.30 | 3.40 | 2.60 | 2.90 | 2.30 | 2.60 | 2.90 | 3.10 | 3.50 | 3.10 | 2.90 | 2.50 | 2.60 | 2.60 | 2.50 | 2.10 | 2.20 | (3.00)A | 3.00 | 3.00 | |
| 7 | 2.90 | 2.60 | 2.50 | 2.70 | 2.60 | 2.60 | 2.40 | 2.50 | 2.50 | 2.70 | 2.80 | 2.90 | 3.00 | 2.60 | 2.80 | 2.80 | 2.60 | 2.60 | 2.50 | 2.50 | 2.50 | 2.80 | 3.20 | (2.80)A | |
| 8 | 3.30 | 3.40 | 2.80 | 2.30 | 2.50 | 3.10 | 2.40 | 2.60 | 2.50 | 2.50 | 2.60 | 2.60 | 2.80 | 2.70 | 2.80 | 2.80 | 2.60 | 2.70 | 2.40 | 2.30 | 2.40 | 2.50 | (2.80)A | 3.00 | |
| 9 | 3.30 | 3.10 | 2.60 | 2.20 | 2.20 | 3.10 | 2.30 | 2.30 | 2.30 | 2.50 | 2.30 | 2.60 | 2.90 | 3.00 | 2.60 | 2.60 | 2.40 | 2.60 | 2.50 | 2.30 | 2.40 | 2.50 | 2.60 | 3.10 | |
| 10 | 3.00 | 2.80 | 3.00 | 2.70 | 2.80 | 3.30 | 2.00 | 2.00 | 2.10 | 2.20 | 2.70 | 2.90 | 2.70 | 2.50 | 2.60 | 2.40 | 2.30 | 2.30 | (2.20)A | C | C | C | C | C | |
| 11 | C | C | C | C | C | C | C | C | C | C | C | 3.00 | 2.70 | 2.60H | 3.00H | 2.60H | 2.50 | 2.50 | 2.40 | 2.30 | 2.30 | 2.60 | 2.80 | 3.40 | |
| 12 | 2.70 | 3.00 | 3.00 | 3.10 | 2.80 | 2.60 | (2.50)C | 2.20 | 2.30 | 2.30 | 2.30 | 2.40 | 2.80 | 2.50 | 2.60 | 2.60 | 2.50 | 2.50 | 2.50 | 2.40 | 2.30 | 2.40H | 2.90 | 3.30 | |
| 13 | 3.30 | 3.40 | 3.00 | 2.60 | 2.50 | 2.90 | 2.30 | 2.30 | 2.40 | 2.20 | 2.20 | 2.50 | 2.50H | 2.60H | 2.90 | 2.50H | 2.50 | 2.40 | 2.30 | 2.30 | 2.00 | 2.80 | 3.00 | 2.90 | |
| 14 | 2.90 | 2.80 | 3.00 | 2.80 | 2.70 | 2.60 | 2.30 | 2.40 | 2.30 | 2.10 | 2.40 | 2.50 | 2.80 | 3.00 | 2.70 | 2.50 | 2.70 | 2.60 | 2.30 | 2.30 | 2.40 | 2.90 | 2.80 | 3.00 | |
| 15 | 3.10 | 3.20 | 2.80 | 2.60 | 2.70 | 2.90 | 2.20 | 2.20 | 2.20 | 2.30 | 2.20 | 2.60 | 3.00 | 2.50 | BK | 3.00 | 2.70 | 2.30 | 2.40 | 2.30 | A | 2.90 | 3.00 | 3.00 | |
| 16 | 3.20 | 2.90 | 2.60 | 2.70 | 2.50 | 2.50 | 2.20 | 2.20 | 2.40 | 2.20 | 2.10 | 2.80 | 3.30 | 3.30 | 3.00 | 2.80 | 2.60 | 2.50 | 2.30 | 2.10 | 2.00 | 2.50 | 2.70 | 2.90 | |
| 17 | 2.70 | 2.60 | 2.80 | 2.70 | 3.50 | 3.80 | 2.30 | 2.30 | 2.10 | 2.30 | 2.60 | 3.00 | 2.90 | 3.10 | 2.70 | 2.00 | 2.40 | 2.50 | 2.30 | 2.00 | 2.30 | 2.60 | 2.80 | 2.80 | |
| 18 | 2.80 | 2.70 | 2.60 | 2.50 | 2.30 | 2.50 | 2.00 | 2.00 | 2.10 | 2.20 | 2.50 | 2.60 | 3.20 | 3.50 | 3.00 | 2.50 | 2.60 | 2.40 | 2.50 | 2.20 | 2.30 | 2.80 | 2.70H | 2.60 | |
| 19 | 3.50 | 3.20 | 2.90 | A | 3.60 | 3.30 | 2.50 | 2.20H | 2.60H | A | 2.50 | 2.70 | 3.00 | 3.10 | 2.60 | 2.40 | (2.40)A | (2.40)A | (2.50)F | A | (2.60)A | A | A | 2.80K | |
| 20 | 3.50K | 4.00 | 3.20K | 3.30K | 3.00K | 2.70 | 2.30 | 2.30 | 2.10 | 2.60 | 2.50 | 2.40 | 2.50 | 2.60 | 2.30 | 2.30 | 2.20 | 2.20 | 2.30 | (2.00)A | (2.40)H | 2.50 | (3.00)A | 2.70 | |
| 21 | 2.60 | 2.60 | 2.60 | 2.60 | 2.70 | 2.60 | 2.10 | 2.00 | 2.00 | 2.40 | 2.50 | 2.50 | 2.50 | 2.10 | 2.50 | 2.60 | 2.40 | 2.40 | 2.20 | 2.20 | 2.70 | 2.50 | 2.70 | 3.00 | |
| 22 | 2.90 | 3.20 | 3.20 | 2.80 | 2.90 | 3.40 | 2.60 | 2.50 | 2.20 | 2.50 | 2.60 | 2.10 | 2.60 | 3.00 | 2.90 | 2.50 | 3.00 | 2.80 | 2.60 | 2.40 | 2.40 | 3.70K | 5.00K | 4.90K | |
| 23 | 3.20K | 5.80K | AK | AK | 2.40K | 4.00K | AK | 3.30K | GK | GK | GK | GK | 4.40K | 4.10K | 2.90K | 2.60K | 2.40K | 2.90 | 2.50 | 2.50 | A | 3.20 | 3.00 | 3.10 | |
| 24 | 3.30 | 3.50 | 3.00 | 2.70F | 2.40F | 2.50 | 2.20F | 2.30F | F | 2.50 | 2.40 | 2.50H | 2.60 | 2.80 | 2.80 | 2.60 | 2.50 | 2.50 | 2.50 | (2.50)F | A | A | 2.80 | 2.50 | |
| 25 | 2.50 | 2.70 | 2.60 | 2.60 | 2.60 | 2.80 | 2.20H | 2.20 | 2.20 | 2.50 | 2.40 | 2.50 | 2.60 | 2.60 | 2.60 | (2.60)C | 2.50 | 2.20 | 2.10 | 2.10 | 2.30 | 2.70 | 2.70 | 2.60 | |
| 26 | 2.80 | 2.60 | 3.10 | 2.80 | 2.50 | 2.90 | 2.20 | 2.00 | 2.00 | 2.00 | 2.20 | 2.60 | 2.80 | 2.60 | 2.40 | 2.70 | 2.10 | 2.10 | 2.00 | (2.10)F | 2.40 | 2.60 | 2.50 | 2.50 | |
| 27 | 2.80 | 2.80 | 2.90 | 2.60 | 2.10 | 2.30 | 2.00 | 2.00 | 2.00 | 2.20 | 2.40 | 2.10 | 2.20H | 2.90 | 2.30 | 2.20 | 2.10 | 2.40 | 2.30 | (2.50)A | A | 2.50 | 2.30 | A | |
| 28 | (3.40)H | A | 3.70 | 3.20 | A | 3.80 | 3.10 | 3.40 | 2.60 | 3.90 | 3.20 | 2.80 | 2.60 | 2.50 | 2.30 | 2.30 | 2.20 | 2.10 | 2.10 | 3.00 | 3.50 | 2.70 | (3.00)A | 3.50 | |
| 29 | 2.80 | 2.90 | 2.80 | 2.30 | 3.70 | (3.80)E | 3.00H | 2.40 | 2.00 | 2.80 | 2.60 | 2.40H | 2.60H | 2.60 | 2.40 | 2.30 | 2.20 | 2.20 | 2.10 | 2.10 | 2.50 | 2.60 | 3.00 | 2.80 | |
| 30 | 3.00 | 3.30 | 3.00 | 2.60 | 3.20 | 3.00 | 3.40H | 2.10 | 2.30 | 2.10 | 2.30 | 2.10H | 2.60 | 2.10 | 2.10 | 2.40 | 2.00 | 2.10 | 2.00 | 2.00 | (3.00)A | 2.80 | 2.90 | 2.80 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 3.00 | 2.90 | 2.90 | 2.70 | 2.70 | 2.90 | 2.30 | 2.30 | 2.30 | 2.50 | 2.50 | 2.60 | 2.80 | 2.90 | 2.70 | 2.60 | 2.50 | 2.50 | 2.50 | 2.40 | 2.30 | 2.40 | 2.70 | 2.90 | 3.00 |
| Count | 2.9 | 2.8 | 2.8 | 2.6 | 2.7 | 2.8 | 2.8 | 2.8 | 2.6 | 2.8 | 2.9 | 3.0 | 3.0 | 3.0 | 2.9 | 3.0 | 3.0 | 3.0 | 3.0 | 2.8 | 2.5 | 2.7 | 2.7 | 2.8 | |

κ'F2

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

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

IONOSPHERIC DATA

foF1

Sep. 1946

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 | | | | | | | | L | L | 5.4 | L | 5.8 | A | 6.4 | 5.3 | L | L | L | | | | | | | |
| 2 | | | | | | | L | L | L | A | A | A | A | A | A | A | A | A | A | | | | | | |
| 3 | | | | | | | | A | A | A | A | A | A | 5.4 | A | 5.2 | A | L | L | | | | | | |
| 4 | | | | | | | L | L | L | L | 5.0 | 5.4 | (4.5)B | L | L | L | L | L | L | | | | | | |
| 5 | | | | | | | A | A | A | 5.0 | A | 5.1 | 5.1 | 5.4 | 5.0 | 5.1 | A | A | L | | | | | | |
| 6 | | | | | | | L | L | 4.1 | S | 5.4 | 5.7 | 5.7 | 5.4 | 5.6 | 4.2 | 4.3 | L | | | | | | | |
| 7 | | | | | | | L | L | L | L | L | 5.2 | 5.6 | 5.0 | 5.0 | 4.9 | 4.4 | L | | | | | | | |
| 8 | | | | | | | L | L | 4.5 | (3.6)B | 5.2 | B | 4.9 | 4.9 | 5.0 | (4.6)S | 3.8 | L | | | | | | | |
| 9 | | | | | | | L | L | L | 4.7 | A | 5.0 | 5.7 | 5.8 | 4.3 | B | 4.2 | A | | | | | | | |
| 10 | | | | | | | L | L | A | 4.5 | 5.1 | 5.4 | 5.1 | 5.1 | 5.0 | 4.5 | 4.5 | A | | | | | | | |
| 11 | | | | | | | C | C | C | C | C | 5.6 | 4.8 | 4.5 | B | 4.2 | 3.0J | 3.4 | A | | | | | | |
| 12 | | | | | | | B | 4.4 | 4.8 | A | 4.9 | 5.7 | L | L | 5.0 | 4.8 | 4.5 | L | | | | | | | |
| 13 | | | | | | | 4.4 | L | 4.7 | 4.8 | 5.0 | 4.9 | 5.4 | L | L | 5.0 | 4.5 | 3.8 | | | | | | | |
| 14 | | | | | | | L | L | L | L | 5.0 | 5.0 | 5.7 | 6.0 | 5.8 | L | L | L | | | | | | | |
| 15 | | | | | | | B | L | L | L | 4.4 | 5.2 | A | BK | BK | BK | BK | | | | | | | | |
| 16 | | | | | | | B | 4.8 | LH | L | L | 4.2 | L | L | L | L | A | A | | | | | | | |
| 17 | | | | | | | L | A | L | L | 5.0 | L | 5.7 | L | A | L | L | | | | | | | | |
| 18 | | | | | | | | 4.7 | L | L | 5.2 | 5.0 | LH | LH | 5.5H | L | L | A | A | | | | | | |
| 19 | | | | | | | | A | A | A | 5.0 | 5.7 | LH | L | L | 5.0 | A | A | A | | | | | | |
| 20 | | | | | | | | A | 5.4J | A | 5.9 | L | 5.4 | (4.4)A | A | A | A | A | A | | | | | | |
| 21 | | | | | | | | L | 4.8 | L | L | 5.5 | L | L | 6.0 | L | LH | L | | | | | | | |
| 22 | | | | | | | 3.9 | A | L | L | L | L | L | L | 5.4H | 4.8 | L | 4.8 | | | | | | | |
| 23 | | | | | | | A | 3.4 | 4.0 | 4.2 | 4.4H | 4.7 | L | L | 5.2 | L | A | L | A | | | | | | |
| 24 | | | | | | | | F | F | A | A | L | 5.8H | L | 5.7 | 4.6 | A | A | A | | | | | | |
| 25 | | | | | | | | L | 4.8 | L | 4.9 | 5.2 | LH | LH | 5.3 | C | L | L | | | | | | | |
| 26 | | | | | | | L | L | A | L | 4.4 | L | 5.8 | B | B | 5.5 | A | L | A | | | | | | |
| 27 | | | | | | | | C | L | L | 4.9 | B | 5.4 | L | B | L | 3.5 | | | | | | | | |
| 28 | | | | | | | 4.7 | A | L | L | 5.3 | 5.4 | 5.5 | L | L | L | L | 3.2 | 2.4 | | | | | | |
| 29 | | | | | | | | | 5.2 | L | A | L | L | L | L | 4.6 | 4.4 | | | | | | | | |
| 30 | | | | | | | | L | L | L | 5.0 | L | 6.4 | LH | L | L | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | | 4.2 | 4.5 | 4.8 | 5.0 | 5.2 | 5.6 | 5.4 | 5.3 | 4.8 | 4.4 | 3.6 | * | | | | | | |
| Count | | | | | | | | 4 | 7 | 11 | 16 | 20 | 16 | 14 | 16 | 14 | 10 | 4 | 1 | | | | | | |

foF1

Swamp 5.0 Mc to 1.5 Mc in 1/5 min

Manual Automatic

K 3

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

IONOSPHERIC DATA

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

Sep. 1946

R'F1

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 | | | | | | | | 230 | 210 | A | A | A | A | A | A | 200 | A | A | | | | | | | |
| 2 | | | | | | | 210 | 210 | 180 | 200 | A | A | A | A | A | A | A | A | 220 | 250 | | | | | |
| 3 | | | | | | | | 200 | 190 | A | 190 | 180 | B | 230 | A | (200)A | 240 | 240 | A | | | | | | |
| 4 | | | | | | | A | A | A | A | (200)A | 200 | 210 | 200 | 200 | 220 | A | A | 250 | | | | | | |
| 5 | | | | | | | 200 | 230 | A | 180 | 190 | B | B | B | B | 190 | 210 | 240 | | | | | | | |
| 6 | | | | | | | 230 | 210 | 210 | 200 | 190 | 190 | 180 | B | 190 | 210 | 220 | 240 | | | | | | | |
| 7 | | | | | | | | 230 | 210 | (190)A | B | B | 200 | 230 | 200 | 200 | 200 | 240 | | | | | | | |
| 8 | | | | | | | | | 200 | 200 | 210 | A | 210 | B | 190 | A | 210 | A | | | | | | | |
| 9 | | | | | | | | 200 | A | 180 | 170 | A | 190 | 180 | 200 | 200 | 210 | A | A | | | | | | |
| 10 | | | | | | | | | C | C | C | C | 220 | 190 | 190 | (210)A | 200 | 220 | 220 | A | | | | | |
| 11 | | | | | | | | | | | | | 210 | 210 | A | B | 180 | 200 | 230 | | | | | | |
| 12 | | | | | | | | 230 | 220 | 200 | B | B | 190 | (220)B | 210 | A | A | 240 | | | | | | | |
| 13 | | | | | | | | 230 | 220 | 200 | 200 | 180 | (190)B | 200 | B | 230 | 240 | 240 | | | | | | | |
| 14 | | | | | | | | | | B | B | 200 | 210 | A | BK | BK | | | | | | | | | |
| 15 | | | | | | | | | | B | 220 | B | 180 | 170 | B | B | 220 | A | 230 | | | | | | |
| 16 | | | | | | | | | | 210 | A | 210 | 200 | B | (220)B | 220 | 210 | A | 210 | | | | | | |
| 17 | | | | | | | | | | | | | | | 200 | 200 | 240 | 230 | A | | | | | | |
| 18 | | | | | | | | | | | | | | | 190 | (190)H | 240 | 230H | A | | | | | | |
| 19 | | | | | | | | | | A | A | 200 | A | 220H | A | A | 230 | A | A | F | | | | | |
| 20 | | | | | | | | | | A | 220 | A | 220 | A | 210 | A | A | 210 | A | | | | | | |
| 21 | | | | | | | | | | 180 | 190 | 190 | B | 190 | B | A | 210 | A | 250 | | | | | | |
| 22 | | | | | | | | (210)A | A | 220 | (210)A | 210 | 200 | 200 | 200H | 230 | 240 | (250)A | | | | | | | |
| 23 | | | | | | | A | 200 | 240 | A | 210H | 220 | 220 | 230 | 230 | 220 | A | 260 | A | | | | | | |
| 24 | | | | | | | | 220F | 220F | A | (200)B | (200)H | (200)A | (200)A | (200)A | 200 | 210 | A | A | | | | | | |
| 25 | | | | | | | | 210 | 210 | 190 | 190 | 190 | B | 200H | B | 200H | 210 | 210 | 220 | 220 | | | | | |
| 26 | | | | | | | 230 | 210 | A | 180 | 180 | 200 | B | B | B | 210 | A | 220 | A | | | | | | |
| 27 | | | | | | | | | C | 180 | 190 | 190 | 190 | 200 | B | 190 | 210 | | | | | | | | |
| 28 | | | | | | | | 250 | A | A | 190 | A | 180 | 200 | 190 | 210 | 210 | A | A | | | | | | |
| 29 | | | | | | | | | 190 | 190 | A | A | 190 | 210 | 200 | 220 | 230 | | | | | | | | |
| 30 | | | | | | | | | 210 | 190 | 180 | 200 | 180 | 170H | 200 | 200 | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | | 220 | 210 | 210 | 200 | 190 | 200 | 190 | 200 | 200 | 210 | 210 | 240 | 250 | | | | | |
| Count | | | | | | | | 4 | 18 | 16 | 19 | 20 | 16 | 22 | 17 | 19 | 22 | 16 | 17 | 3 | | | | | |

R'F1

Sweep 4.0 Mc to 1.5 Mc in 1.5 min

Manual Automatic

K4

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

f_oE

Sep. 1946

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 | | | | | | | 1.6J | A | 2.9 | 3.4 | A | A | 3.7 | A | A | A | A | A | A | | | | | |
| 2 | | | | | | | 2.2 | 2.9 | A | 3.4 | 3.7 | 3.7 | 3.7 | 3.7 | A | 3.2 | 3.1 | 2.4 | E | | | | | |
| 3 | | | | | | | E | 2.7H | 3.3 | 3.6 | 3.8 | A | B | (4.1)B | 3.9 | A | A | A | A | | | | | |
| 4 | | | | | | | B | 2.9 | 3.4 | 3.3 | 3.8 | B | (3.8)B | B | 3.7H | 3.5H | 2.9H | A | A | | | | | |
| 5 | | | | | | | A | 2.4 | 3.0 | 3.3 | B | 3.7 | B | 3.8 | 3.7 | 3.4 | (3.1)A | A | A | | | | | |
| 6 | | | | | | | E | 3.1 | 3.2 | 3.5 | 3.5 | B | B | B | B | 3.3 | 3.1 | A | A | | | | | |
| 7 | | | | | | | 2.2 | (2.6)A | A | 3.3 | 3.3 | A | A | B | A | 3.2 | 2.9 | 2.3 | 2.0 | | | | | |
| 8 | | | | | | | E | 2.6 | 3.0 | 3.3 | (3.5)B | 4.0 | 3.8 | 3.5 | 3.5 | 3.5 | 3.0 | 2.6J | E | | | | | |
| 9 | | | | | | | E | A | A | 3.3 | 3.3 | 3.5 | 3.5 | 3.7 | 3.4 | A | 3.0 | A | 2.8 | | | | | |
| 10 | | | | | | | 2.1 | 2.8 | 2.9 | 3.1J | A | 3.6 | 3.6 | 3.7 | 3.7 | 3.3 | 3.0 | A | A | | | | | |
| 11 | | | | | | | C | C | C | C | C | A | 3.7 | 3.6 | (3.6)B | 3.4 | 2.6J | 2.4 | E | | | | | |
| 12 | | | | | | | C | 2.3 | 3.0 | 3.4 | A | B | 3.8 | B | 3.8 | 3.6 | 3.2 | 3.5 | A | | | | | |
| 13 | | | | | | | E | A | 3.0 | 3.1 | B | B | 3.8 | 3.5 | B | 3.5 | 3.1 | 2.4 | A | | | | | |
| 14 | | | | | | | E | 3.8H | (3.3)M | (2.5)B | (3.8)B | B | B | B | B | (3.5)B | 3.1 | 2.6 | A | | | | | |
| 15 | | | | | | | A | 2.7 | B | B | 3.6 | B | A | BK | BK | BK | BK | (2.8)A | (2.4)A | | | | | |
| 16 | | | | | | | (2.0) | 2.7 | 3.0 | B | 3.7 | (3.8)B | B | B | (3.8)B | (3.7)B | 3.2 | 2.5 | E | | | | | |
| 17 | | | | | | | 2.1 | 2.7 | 3.0 | 3.4 | 3.8 | B | B | 3.8 | B | A | 3.0 | AH | E | | | | | |
| 18 | | | | | | | E | 2.6 | A | 3.2 | B | B | 3.8 | (3.8)B | 3.5 | 3.4 | 3.0 | 2.4 | E | | | | | |
| 19 | | | | | | | E | 2.7 | 3.2 | 3.4 | 3.7 | B | 3.9 | (4.0)B | 3.8 | 3.3 | 3.0 | 2.5 | E | | | | | |
| 20 | | | | | | | E | 2.8 | 3.2 | 3.7 | 3.6H | (3.9)B | (3.9)B | (3.8)B | (3.7)B | 3.4 | 3.1 | 2.5 | E | | | | | |
| 21 | | | | | | | E | 2.4 | (3.3)A | 3.2 | (3.8)B | B | A | B | A | A | A | 2.5 | E | | | | | |
| 22 | | | | | | | E | (2.6)A | 3.0 | A | 3.5 | 3.5 | A | B | 3.4 | 3.2 | 3.0 | A | E | | | | | |
| 23 | | | | | | | E | 2.4 | A | 3.4 | 3.5 | 3.8 | 3.8 | 3.7H | 3.5H | 3.3 | 2.9H | 2.1 | E | | | | | |
| 24 | | | | | | | E | A | A | 3.1 | 3.4 | B | 3.4 | A | 3.8 | A | A | E | | | | | | |
| 25 | | | | | | | E | A | 3.0 | (3.6)A | 3.8 | (4.0)B | B | (4.0)B | 3.7 | 3.5 | 3.0 | 2.6 | E | | | | | |
| 26 | | | | | | | E | 2.7H | AH | 3.4 | 3.4J | 4.0 | B | B | B | 3.4 | A | 2.3 | E | | | | | |
| 27 | | | | | | | E | 2.7 | (3.2)C | (3.6)A | 3.7 | B | 3.9 | 3.6J | B | 3.4 | 3.0F | 2.5 | E | | | | | |
| 28 | | | | | | | E | A | A | A | 3.5 | A | 4.0 | 4.0 | 3.6 | 3.5 | 2.9 | 2.6 | E | | | | | |
| 29 | | | | | | | E | 2.4 | (2.8)B | 3.3 | 3.5 | A | A | 3.5H | 3.7 | A | 2.9 | A | E | | | | | |
| 30 | | | | | | | E | 2.5 | 3.1 | 3.4 | 3.5 | B | 3.8 | 3.8 | (3.5)B | 3.2 | A | 2.1 | E | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | | | | | | | | | | | | | | | | | | | | | | | | |

f_oE

Sweep 2.0 Mc to 15.0 Mc in 1.5 min Manual Automatic

K 5

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

Sep. 1946

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 | A | 110 | 100 | A | A | 100 | A | A | A | A | A | A | | | | | | |
| 2 | | | | | | | E | 100 | A | 100 | A | 100 | 100 | 100 | A | 100 | 110 | 100 | E | | | | | | |
| 3 | | | | | | | E | 100H | 100 | 100 | 100 | A | B | B | 100 | A | A | A | A | | | | | | |
| 4 | | | | | | | B | 100 | 100 | (100)B | 100 | 100 | 100 | 100 | 100H | 100H | 100H | A | A | | | | | | |
| 5 | | | | | | | A | 120 | 110 | 110 | B | 110 | 110 | 110 | 100 | 110 | A | A | A | | | | | | |
| 6 | | | | | | | E | 110 | 100 | 110 | 100 | B | B | B | B | 100 | 100 | A | A | | | | | | |
| 7 | | | | | | | E | A | A | 100 | 110 | A | A | A | A | 100 | 100 | 100 | E | | | | | | |
| 8 | | | | | | | E | 120 | 110 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 110 | 100 | E | | | | | | |
| 9 | | | | | | | E | A | A | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A | A | 100 | | | | | | |
| 10 | | | | | | | E | 100 | 100 | 100 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | A | A | | | | | | |
| 11 | | | | | | | C | C | C | C | C | A | 100 | 100 | 100 | 100 | 110 | 110 | E | | | | | | |
| 12 | | | | | | | C | 110 | 100 | 100 | A | B | 100 | B | 110 | 110 | 110 | 110 | A | | | | | | |
| 13 | | | | | | | E | A | 110 | 110 | B | B | 100 | 100 | B | 110 | 110 | 110 | A | | | | | | |
| 14 | | | | | | | E | 110H | 110 | 110 | B | B | B | 100 | B | 100 | A | 120 | A | | | | | | |
| 15 | | | | | | | A | 110 | B | B | 110 | B | A | BK | BK | BK | BK | A | A | | | | | | |
| 16 | | | | | | | E | 100 | 100 | B | 100 | A | B | B | 100 | 110 | 110 | 110 | E | | | | | | |
| 17 | | | | | | | E | 100 | 100 | 110 | 110 | B | 100 | 110 | 100 | A | 100 | A | E | | | | | | |
| 18 | | | | | | | E | 110 | A | 100 | 110 | 100 | 110 | 110 | 100 | 110 | 100 | 110 | E | | | | | | |
| 19 | | | | | | | E | 120 | 110 | 100 | 100 | B | 100 | B | 100 | 100 | 100 | (110)A | E | | | | | | |
| 20 | | | | | | | E | 110 | 100 | 110 | 110H | 100H | 100 | 110H | 100H | 100 | 100 | 100 | E | | | | | | |
| 21 | | | | | | | E | 100 | 100 | 100 | B | B | A | B | A | A | A | (120)A | E | | | | | | |
| 22 | | | | | | | E | A | 110 | A | 110 | 100 | A | B | 100 | 100 | 100 | A | E | | | | | | |
| 23 | | | | | | | E | 120 | A | 100 | 110 | 110 | 100 | 110H | 100H | 100 | 110H | A | E | | | | | | |
| 24 | | | | | | | E | A | A | 110 | 110 | 100 | 100 | A | 110 | A | A | A | E | | | | | | |
| 25 | | | | | | | E | A | 100 | 110 | 110 | 100 | 100 | 110 | 100 | 110 | 110 | 110 | E | | | | | | |
| 26 | | | | | | | E | 100H | AH | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A | 110 | E | | | | | | |
| 27 | | | | | | | E | 100H | AH | C | 100 | B | 90 | 100 | 90 | 90 | 100 | F | E | | | | | | |
| 28 | | | | | | | E | A | A | A | 100 | A | 90 | 90 | 90 | 100 | 100 | 110 | E | | | | | | |
| 29 | | | | | | | E | 100 | 100 | 100 | 100 | A | A | 100H | A | A | 110 | A | E | | | | | | |
| 30 | | | | | | | E | 100 | 110 | 100 | 90 | 100 | 90 | 90 | 90 | 110 | A | 110 | E | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | | | | | | | 0 | 21 | 19 | 24 | 22 | 14 | 21 | 19 | 21 | 23 | 20 | 16 | 1 | | | | | | |

Sweep $\frac{2.0}{1.5}$ Mc to $\frac{1.5}{1.5}$ Mc in $\frac{1}{1}$ min Manual Automatic

135° E

K6

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

Sep. 1946

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 | 3.3 | 2.6 | 3.2 | 2.6 | 2.8 | 2.1 | 3.4 | 4.2 | 4.0 | 4.2 | 4.2 | 5.2 | 5.6 | 5.4 | 4.2 | 4.2 | 3.0 | 4.3 | 5.0 | 4.4 | 4.2 | 2.6 | 2.7 | 2.4 | |
| 2 | 3.4 | 2.6 | 2.4 | E | E | E | 3.1 | 4.0 | 4.0 | 7.4 | 6.1 | 9.2 | 6.2 | 7.0 | 8.5 | 7.6 | 5.4 | 4.2 | 2.8 | 2.0 | 7.7 | 8.5 | 4.6 | 2.8 | |
| 3 | E | 3.0 | E | E | E | E | E | LfE | 8.0 | 5.8 | 7.4 | 10.2 | 8.6 | B | 7.3 | 5.2 | 3.8 | 3.2 | 3.2 | 3.2 | 2.6 | 2.6 | 2.2 | E | |
| 4 | E | 2.2 | 2.6 | 2.6 | 2.6 | E | E | 3.2 | LfE | 3.8 | 4.0 | 4.0 | LfE | LfE | LfE | LfE | LfE | 4.2 | 3.4 | 5.8 | 5.8 | 5.0 | 9.3 | 8.0 | |
| 5 | 3.4 | 4.0 | 4.2 | 4.2 | 3.2 | 5.8 | 8.0 | 5.4 | 6.4 | 5.9 | 5.0 | 4.1 | LfE | 4.7 | 4.1 | 4.8 | 6.2 | 5.2 | 4.0 | 3.2 | 3.5 | 3.2 | 3.0 | 2.6 | |
| 6 | 2.3 | 2.6 | E | E | E | E | E | LfE | 3.7 | 3.4 | 3.6 | 4.1 | B | B | B | 4.0 | LfE | 3.2 | 2.6 | E | E | 3.0 | 2.8 | 2.6 | |
| 7 | 2.4 | E | E | E | E | 2.6 | 2.8 | 3.4 | 3.8 | 4.2 | 4.1 | 4.3 | 4.3 | 4.3 | 4.1 | LfE | LfE | 2.7 | E | 2.4 | 2.1 | 2.5 | 2.3 | 2.9 | |
| 8 | 2.5 | 2.8 | 2.2 | E | E | E | 2.8 | 3.4 | 3.8 | 5.0 | 4.2 | 4.8 | 4.0 | LfE | LfE | LfE | 3.3 | 3.6 | 3.0 | E | 3.6F | 3.2 | 3.4 | 2.6 | |
| 9 | E | E | E | E | E | E | 2.8 | 3.8 | 4.6 | 5.0 | 7.2 | 5.4 | 4.7 | 5.5 | 3.1 | 3.3 | 4.2 | 6.6 | 3.4 | 3.2 | 4.0 | 2.6 | 2.2 | 2.8 | |
| 10 | 2.5 | E | E | E | E | E | E | 3.0 | 4.7 | 4.2 | 5.0 | 5.2 | 4.1 | 3.9 | 4.7 | 4.0 | 4.6 | 4.8 | 7.6 | C | C | C | C | C | |
| 11 | C | C | C | C | C | C | C | C | C | C | C | 4.5 | 5.0 | 4.2 | 4.2 | LfE | 3.4 | 3.6 | E | 5.8F | 4.2 | 2.8F | 4.2 | 4.2 | |
| 12 | 3.0 | E | 2.6 | 2.4 | E | E | E | 3.9F | 4.0 | 4.8 | 5.0 | B | 3.9 | B | LfE | 3.4 | 3.4 | 3.5 | 4.2 | 3.2 | 2.6 | 2.2 | 3.2 | 2.8 | |
| 13 | 2.2 | E | E | 4.4 | E | E | E | 3.4 | 4.2 | 4.8 | 3.2 | B | 4.3 | 3.8 | B | 4.1 | LfE | 3.6 | 2.5 | 4.2 | E | 2.4 | E | E | |
| 14 | E | E | E | E | E | E | E | 2.7 | 4.0 | LfE | B | B | B | 4.2 | B | 3.8 | 3.4 | 4.4 | 3.8 | 4.0 | E | 2.6 | 2.0 | 3.0 | |
| 15 | 2.6 | 2.8 | E | E | E | E | 3.2 | 4.0 | 3.6 | 4.8 | 4.0 | 4.2 | 4.8 | B | B | B | 8.3 | 4.0 | 4.0 | 9.4 | 7.4 | 2.8 | 3.2 | E | |
| 16 | E | E | E | E | E | E | E | 2.8 | 3.9 | B | LfE | 4.1 | 3.3 | B | LfE | 4.2 | 5.4 | 7.0 | 3.2 | 2.8 | 2.8 | 2.0 | 3.2 | E | |
| 17 | E | E | E | E | E | E | 2.2 | 2.8 | 3.5 | 5.4 | 4.3 | B | LfE | LfE | LfE | 3.2 | 3.3 | 3.0 | 2.4 | 2.0 | E | 2.4 | 3.4 | 3.2 | |
| 18 | 2.2 | E | E | E | E | E | E | 3.9 | 4.0 | 4.2 | LfE | LfE | LfE | LfE | 3.6 | 4.3 | 3.8 | 4.5 | 4.8 | 8.0 | 4.0 | 4.6 | 2.2 | E | |
| 19 | E | 3.2 | 2.1 | 4.0 | E | E | 4.0 | 2.6 | 2.7 | 4.9 | 11.3 | 5.2 | 4.3 | 6.2 | 5.8 | 5.0 | 9.2 | 5.0 | 5.8F | 13.0F | 5.0 | 5.4 | 3.0 | 2.2 | |
| 20 | E | 2.2 | E | E | E | E | E | 4.0 | 4.4 | 4.1 | 4.7 | LfE | 5.1 | 10.0 | 3.9 | 5.4 | 8.2 | 4.7 | 4.2 | 5.2 | 6.6 | 3.2 | 4.1 | 3.2 | |
| 21 | 2.2 | E | E | E | E | E | 2.8 | 3.4 | 3.4 | 4.2 | 4.1 | 3.5 | 3.6 | B | 5.2 | 4.0 | 4.0 | 2.6 | 2.2 | 3.5 | E | 4.7 | E | 4.0 | |
| 22 | E | E | E | E | E | E | 2.8 | 3.4 | 4.7 | 4.8 | 5.0 | 5.0 | 4.2 | 4.0 | LfE | 3.5 | 3.2 | 2.8 | 3.0 | 3.4 | 2.6 | 2.2 | 2.8 | 3.2 | |
| 23 | E | 2.2 | 2.7 | 4.2 | 3.2 | 4.2 | 4.7 | 3.4 | 4.0 | 5.1 | 4.9 | 5.1 | LfE | LfE | LfE | 4.0 | 3.4 | 2.1 | 3.2 | 3.4 | 5.4 | 3.0 | 2.0 | 3.4 | |
| 24 | 2.4 | E | E | 2.6 | 3.2 | 2.8 | 3.2 | 4.2F | 6.7 | 6.2 | 5.2 | LfE | 3.8 | 4.8 | 4.3 | 4.0 | 5.4 | 8.2 | 5.0 | 5.0 | 4.0 | 4.6 | 4.2 | 2.6 | |
| 25 | 3.2 | 3.2 | 2.2 | 2.0 | E | E | 2.0 | 3.1 | 3.8 | 4.8 | 5.0 | LfE | LfE | LfE | LfE | C | LfE | LfE | E | E | E | E | E | E | |
| 26 | E | 2.3 | E | E | E | E | E | 3.4 | 3.0 | 4.7 | 4.3 | LfE | LfE | LfE | LfE | LfE | 4.8 | 3.3 | 3.2 | 4.8 | 4.0 | 4.2 | 4.0 | 2.8 | |
| 27 | 2.8 | 2.2 | 2.6 | E | E | E | E | 3.0 | 3.4 | C | 4.3 | 4.5 | 3.3 | LfE | 5.1 | 4.2 | 4.3F | 3.0F | 4.2F | 6.6F | 7.2F | 4.4F | 4.2F | 4.7F | |
| 28 | 5.4 | 5.8F | 5.3F | 4.2F | 3.2 | E | E | 5.4 | 5.4 | 7.3 | 4.2 | 6.3 | 5.7 | 5.0 | 4.3 | LfE | LfE | LfE | 3.4 | 4.2 | 4.2 | 4.2F | 4.2 | 2.6 | |
| 29 | 3.0 | 2.6 | 2.2 | 2.1 | E | 2.4 | 3.3 | 2.6 | 3.2 | 6.2F | 7.1 | 5.1F | 5.3 | 4.8 | 4.8 | 5.2 | 4.2 | 4.6 | 4.0 | 3.2 | 5.3 | 2.2 | 2.0 | 2.0 | |
| 30 | E | 2.0 | 2.2 | E | 2.4 | 3.0 | 3.2 | 3.0 | 4.2 | 5.4 | 4.8 | 4.2 | LfE | 5.1 | 4.0 | 4.3 | 3.0 | 3.2 | 2.2 | 3.0 | 4.2 | E | 2.2 | E | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | 2.2 | 2.2 | F | E | E | 2.0 | 2.8 | 3.4 | 4.0 | 4.8 | 4.4 | 4.2 | 4.1 | 4.5 | 4.1 | 4.0 | 3.6 | 3.6 | 3.3 | 3.4 | 4.0 | 2.8 | 3.0 | 2.6 | |
| | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.8 | 2.8 | 2.8 | 2.5 | 2.8 | 2.4 | 2.6 | 2.8 | 3.0 | 3.0 | 3.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | |

K

Manual Automatic

Sweep 2.0 Mc to 1.5 Mc in 1.5 min

fEs

IONOSPHERIC DATA

Kokubunji Tokyo

Sep. 1946

(M3000)F2

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|--------|------|-------|------|--------|-------|------|--------|--------|-------|------|------|------|------|------|------|--------|-----|-------|--------|-----|-----|-------|-----|-------|
| 1 | 2.9 | 2.8 | 2.6 | 2.7 | 2.5 | 2.8 | 3.1 | 2.9 | 3.0 | 3.1 | 2.9 | 2.9 | 3.0 | 3.1 | 3.4 | 3.2 | 3.3 | 3.2 | 3.0 | 2.8 | 2.8 | 2.6 | 2.8 | 3.0 |
| 2 | 3.0 | (2.8) | 2.6 | 2.7 | 2.7 | 2.8 | 2.9 | 3.2 | 3.2 | 3.0 | 3.1 | 3.0H | 3.0 | 3.0 | 3.1 | 3.2 | 3.3 | 3.2 | 2.9 | 2.9 | 2.8 | 2.6 | 2.6 | 2.7 |
| 3 | 2.7 | 2.8 | 2.8 | 2.9 | 2.9 | 2.8 | 3.5 | 3.4 | 3.3 | 3.2 | 2.9 | 3.1 | 3.0 | 3.0 | 3.0 | 3.1 | 3.1 | (3.2) | 3.1 | 3.3 | 2.9 | 2.6 | 2.6 | 2.6 |
| 4 | 2.5H | 2.6 | 2.4 | 2.8 | 2.8 | 2.9 | 3.5 | 3.5 | 3.3 | 3.1 | 3.1 | 3.0 | 3.1H | 3.0H | 3.0 | 3.1 | 3.1 | 3.1 | 2.9 | 3.0 | 3.0 | 2.9 | A | (2.4) |
| 5 | 2.6 | 2.8H | 2.6H | 2.5 | 2.6 | 2.6 | 2.9 | 3.0K | AK | 2.8K | 2.8K | 2.8 | 2.8 | 2.8 | 3.0 | 3.2 | 3.1 | 3.2 | 3.2 | 2.8 | 2.5 | 2.5 | 2.5 | 2.6 |
| 6 | 2.5 | 2.7 | 2.6 | 2.6 | (2.6) | 2.5 | 3.1 | 3.1 | 3.2 | 3.2 | 3.2 | 3.2 | 2.4 | 3.0 | 3.2 | 3.2 | 3.3 | 3.2 | 3.1 | 3.2 | 2.7 | (2.5) | 2.7 | 2.8 |
| 7 | 2.8 | 3.0 | 2.9 | 2.9 | 2.9 | 3.1 | 3.4 | 3.3 | 3.2 | 3.2 | 3.3 | 3.1 | 3.2 | 3.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.0 | 3.1 | 2.7 | 2.6 | 2.5 | 2.6 |
| 8 | 2.4 | 2.5 | 2.7 | 3.1 | 2.9 | 2.9 | 3.1 | 3.1 | 3.2 | 3.4 | 3.4 | 3.0 | 3.0 | 3.2 | 3.2 | 3.1 | 3.1 | (3.2) | 3.2 | 3.1 | 3.1 | (3.0) | 2.7 | 2.7 |
| 9 | 2.6 | 2.8 | 3.0 | 3.4 | 3.1 | 2.7 | 3.1 | (3.3)S | 3.6 | 3.4 | 3.2 | 3.2 | 3.2 | 3.1 | 3.1 | 3.1 | 3.3 | 3.2 | 3.2 | 3.1 | 2.9 | 2.8 | 2.8 | 2.7 |
| 10 | 2.8 | 2.8 | 2.8 | 2.7 | 2.7 | 2.6 | 3.7 | 4.0 | 3.6 | 3.4 | 3.1 | 3.1 | 3.2 | 3.3 | 3.4 | 3.4 | 3.4 | 3.5 | 3.4 | C | C | C | C | C |
| 11 | C | C | C | C | C | C | C | C | C | C | C | C | 3.1 | 3.2H | 3.1H | 3.2H | 3.2 | 3.3 | (3.3)S | 3.5 | 3.0 | 2.8 | 2.7 | 2.7 |
| 12 | 2.7 | 2.7 | 2.7 | 2.6 | 2.8 | 2.9 | (3.1)C | 3.4 | 3.6 | 3.4 | 3.4 | 3.1 | 3.1 | 3.2 | 3.2 | 3.3 | 3.5 | 3.4 | 3.2 | 3.2 | 2.8 | 2.9H | 2.7 | 2.7 |
| 13 | 2.5 | 2.5 | 2.7 | 3.0 | 3.0 | 2.8 | 3.2 | 3.6 | 3.6 | 3.4 | 3.3 | 3.2 | 3.2H | 3.2H | 3.1 | 3.1H | 3.3 | 3.4 | 3.3 | 3.4 | 3.1 | 2.7 | 2.7 | 2.8 |
| 14 | 2.8 | 2.8 | 2.7 | 2.8 | 2.9 | 2.9 | 3.3 | J | (3.7) | 3.5 | 3.3 | 3.0 | 3.0 | 3.0 | 2.9 | 3.1 | 3.1 | 3.2 | J | 3.0 | 2.9 | 2.8 | 2.8 | 2.7 |
| 15 | 2.7 | 2.7 | 2.8 | 2.8 | 2.8 | 2.9 | 3.5 | 3.6 | 3.6 | 3.5 | 3.2 | 3.2 | 3.0 | 2.9 | BK | 3.0 | 3.0 | 3.2 | 3.2 | 3.3 | A | 2.1 | 2.6 | 2.7 |
| 16 | 2.7 | 2.8 | 2.8 | 2.7 | 2.8 | 2.8 | 3.2 | 3.5 | 3.4 | 3.6 | 3.2 | 3.2 | 3.0 | 2.8 | 3.0 | 3.0 | 3.1 | 3.2 | 3.3 | 3.3 | 2.8 | 2.9 | 2.8 | 2.8 |
| 17 | 2.8 | 2.9 | 2.7 | 2.8 | 2.3 | 2.3 | 3.6 | (3.5) | 3.4 | 3.2 | 2.9 | 2.4 | 3.2 | 2.8 | 2.9 | 3.1 | 3.1 | (3.2) | 3.1 | 3.3 | 2.7 | 2.8 | 2.7 | 2.8 |
| 18 | 2.8 | 2.8 | 2.8 | 3.0 | 3.1 | 2.9 | 3.6 | 3.2 | 3.0 | 3.1 | 3.1 | 3.0 | 2.8 | 2.6 | 2.8 | 3.2 | 3.1 | 3.1 | 2.9 | 3.0 | 2.9 | 2.7 | 2.6 | 2.8 |
| 19 | 2.3 | 2.6 | 2.9 | A | 2.5 | 2.6 | 2.8 | 3.5H | 2.9H | 3.0 | 3.0 | 3.1 | 2.8 | 2.8 | 3.0 | 3.2 | 3.2 | 3.1 | 3.1 | 2.8 | 2.7 | 2.6 | 2.8 | 2.7K |
| 20 | 2.5K | 2.3K | 2.5K | (2.5)K | 2.7K | 2.9 | 3.1 | 3.4 | 3.0 | 3.0 | 3.2 | 3.6 | 3.1 | 3.1 | 3.2 | 3.6 | 3.6 | 3.3 | 3.3 | 3.2 | 3.0 | 2.8 | 2.7 | 2.9 |
| 21 | 2.9 | 2.8 | 2.9 | 2.8 | 2.9 | 2.8 | 3.6 | 3.8 | 3.5 | 3.4 | 3.4 | 3.4 | 3.5 | 3.4H | 3.5 | 3.3 | 3.3 | 3.1 | 3.3 | 3.0 | 2.9 | 2.3K | 3K | 2.1K |
| 22 | 2.7 | 2.7 | 2.6 | 2.7 | 2.6 | 2.5 | 2.8 | 3.0 | 3.3 | 3.2 | 3.0 | 3.0 | 3.2 | 3.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.5 | 2.3K | 3K | 2.1K |
| 23 | JK | 2.6K | AK | AK | FK | FK | FK | 3.1K | 4K | 4K | 4K | 4K | 2.6K | 2.6K | 2.6K | 3.0 | 3.2 | 2.9 | 3.0 | 2.7 | 2.6 | 2.5 | 2.5 | 2.6 |
| 24 | 2.5 | 2.4 | 2.6 | 2.7F | 2.6F | 3.0F | 3.2H | 3.4 | 3.3 | 3.3 | 3.1 | 3.1H | 3.0 | 2.9 | 3.3 | 3.4 | 3.1 | 3.1 | (3.2) | 3.1 | 2.8 | 2.9 | 2.7 | 3.0 |
| 25 | 2.9 | 2.7 | 2.8 | 2.9 | 2.9 | 2.8 | 3.5 | 3.6 | 3.3 | 3.4 | 3.2 | 3.1 | 3.2 | 3.3 | 3.1 | (3.2)C | 3.3 | 3.3 | 3.4 | 3.3 | 2.8 | 2.8 | 2.8 | 3.1 |
| 26 | 3.2 | 2.8 | 2.7 | 2.9 | 2.9 | 2.7 | 3.2 | 3.7 | 3.3 | 3.5 | 3.5 | 3.1 | 3.0 | 3.1 | 3.0 | 3.1 | 3.2 | 3.4 | 3.5 | 3.1 | 2.9 | 3.1 | 2.9 | 2.9 |
| 27 | 2.9 | 2.7 | 2.8 | 2.9 | 3.3 | 3.1 | 3.3 | 3.5 | 3.4 | 3.2 | 3.4 | 3.1H | 3.1H | 3.0 | 3.1 | 3.2 | 3.2 | 3.3 | 3.3 | 2.9 | 2.7 | 3.2 | 3.0 | 2.7 |
| 28 | 2.7 | 2.5 | 2.7* | 2.7 | 2.5 | 2.4 | 2.6 | 2.9 | 3.3 | 2.7 | 2.9 | 3.0 | 3.2 | 3.1 | 3.2 | 3.3 | 3.4 | 3.2 | 3.2 | 2.7 | 2.6 | 2.7 | 2.6 | 2.4 |
| 29 | 2.6 | 2.6 | 2.8 | 2.5 | 2.4 | 2.3 | 2.8H | 2.9 | 3.1 | 3.2 | 3.3 | 3.0H | 3.3H | 3.0 | 3.3 | 3.4 | 3.2 | 3.2 | 3.3 | 3.1 | 2.8 | 2.8 | 2.8 | 2.9 |
| 30 | 2.7 | 2.7 | 2.7 | 2.9 | 2.6 | 2.8 | 3.1H | 3.3 | 3.3 | 3.5 | 3.6 | 3.3H | 3.3 | 3.2 | 3.2 | 3.2 | 3.3 | 3.2 | 3.4 | 3.1 | 2.7 | 2.7 | 2.7 | 2.9 |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean | | | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | 2.7 | 2.7 | 2.7 | 2.8 | 2.8 | 2.8 | 3.2 | 3.3 | 3.3 | 3.2 | 3.2 | 3.1 | 3.0 | 3.0 | 3.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.1 | 2.8 | 2.8 | 2.7 | 2.7 |
| | 2.8 | 2.9 | 2.8 | 2.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 3.0 | 3.0 | 3.0 | 2.9 | 3.0 | 3.0 | 3.0 | 2.9 | 2.9 | 2.8 | 2.8 | 2.7 | 2.9 |

(M3000)F2

IONOSPHERIC DATA

Kokubunji Tokyo

Lat. 35° 42.4' N
Long. 139° 29.3' E

foF2

Oct 1946

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 | 6.2 | 5.5 | 5.0 | 4.9 | 4.6 | 4.6H | 6.0 | 8.1H | 8.6H | 8.7 | 8.7H | 8.9 | 9.1 | 9.8H | 10.2H | 9.3 | 8.8 | 9.1 | 8.6H | 6.3F | 5.3 | 5.4 | 5.4 | 5.5 | |
| 2 | 5.2 | 5.1 | 5.0 | 5.0 | 4.4 | 3.7 | 6.6 | 4.2 | 4.3 | 4.8H | 11.1 | 11.0 | 11.8 | 11.7 | 11.2H | 10.9 | 10.3 | 9.4 | 7.5F | 5.6 | 6.5 | 6.0 | 5.6 | 5.6 | |
| 3 | 5.1 | 5.0 | (5.1) | 5.0 | 4.7 | 4.9 | 7.2 | 4.9 | 11.4 | 11.3 | 11.9 | 11.9H | 12.0H | 12.8H | C | C | 10.7 | 11.1 | (9.7)S | 7.4 | 6.7 | 6.4 | 6.3 | 6.3 | |
| 4 | 6.0 | 5.5 | 5.5 | 5.3 | 5.4 | 5.2 | 6.9 | 4.1 | 4.4 | 11.1 | 13.4 | 13.4 | 13.4H | 12.9H | 12.1 | 11.3 | 12.0 | 12.5F | 10.5 | 7.9F | 7.1 | 5.7 | 5.6 | 5.7 | |
| 5 | 5.5 | 5.5 | 5.1 | 4.6 | 4.8 | 5.1 | 7.7 | 9.7 | 10.6H | 10.9 | 12.0 | 13.1 | 11.9H | 10.9 | 11.1H | 11.0 | 10.7 | 11.0 | 9.6J | 7.2 | 6.4 | 6.0 | 5.6 | 5.1 | |
| 6 | 5.3 | 4.7 | 4.6 | 4.8J | 4.7 | 4.9 | 7.0 | 8.8 | 10.9 | 11.3 | 12.6 | 13.3H | 12.5 | 13.0 | 13.0 | 12.7 | 12.0 | 11.2 | 8.8F | 5.4 | (5.0)J | 5.2 | 5.2 | 5.5 | |
| 7 | 5.0 | 4.6 | 4.6 | 4.6 | (4.7) | 4.6 | 6.6 | 4.0 | 10.7 | 10.6 | 10.7 | 12.0 | 12.2 | 12.2 | 11.9H | 11.4 | 10.1F | 9.5 | 7.8F | 6.7F | 6.8 | 6.4 | 5.5 | 5.1F | |
| 8 | 4.7 | 4.9 | 4.7 | 4.7 | 4.8 | 4.9 | 7.4 | 4.3 | 12.7 | 12.2 | 12.5 | 12.8 | 12.1 | 12.0 | 11.6 | 10.6 | 8.8 | 9.1 | 8.9 | 6.5 | 5.7 | 6.0 | 5.7 | 5.8 | |
| 9 | 5.9 | 5.4 | 5.3 | 5.4 | 4.9 | 4.9 | 6.7 | 4.2 | 10.5 | 11.0 | 10.5 | 11.8 | 12.7 | 11.4 | 11.3 | 12.3H | 11.0 | 10.6 | 10.7 | 9.4 | 7.1 | 6.5 | 6.4 | 6.3 | |
| 10 | 6.0 | 5.5 | 5.8 | 5.7 | 5.5 | 5.6 | 7.4 | 11.6 | 12.5 | 12.3 | C | C | C | C | 12.1 | 11.9 | 11.0 | 10.9J | 7.3 | 7.1 | 6.7 | 5.4 | 5.2 | 5.2 | |
| 11 | 5.3 | 5.5 | 5.7 | 5.4 | 4.7 | 4.3 | 6.9 | 4.3F | 4.7 | 11.1 | 13.0 | (12.0)C | C | C | 11.9 | 12.5 | 10.8 | 8.9 | 7.8 | 6.7 | 6.2 | 5.5 | 5.1 | 4.9 | |
| 12 | 5.0 | 5.0 | 5.2 | 5.3 | 4.8 | 3.4 | 5.9 | 8.8 | 10.5 | 11.2 | 13.2 | 12.9 | 12.9 | 11.1 | 12.2 | 12.3 | 11.6 | 10.4 | 7.6 | 5.7 | 5.4 | 4.7 | 5.2 | 5.4 | |
| 13 | 5.6 | 5.5 | 5.3 | 5.2 | 4.6 | 4.4 | 6.1 | 8.0 | 10.4 | 10.3 | 11.5 | 13.6 | 13.2 | 12.1 | 12.8 | 11.8 | 10.6 | 10.7 | 8.6 | 5.9 | 5.7 | 5.2 | 5.4 | 5.2 | |
| 14 | 5.3 | 5.4 | 5.5 | 5.7 | 4.6 | 4.3 | 6.6 | 8.7 | 10.0 | 10.7 | C | C | C | C | C | C | 10.7 | 10.0J | 8.1 | 6.0 | 6.3 | 6.4 | 6.4 | 6.0 | |
| 15 | 5.5 | 5.3 | 5.5 | 5.6 | 4.8 | 4.3 | 6.6 | 9.2 | (10.8)C | 12.4 | 13.0 | 12.9H | 13.0H | 12.6H | 12.7H | 12.2 | 11.2 | 10.1F | 7.6 | 7.5 | 6.9 | 6.3 | 5.9H | 5.9 | |
| 16 | 5.6 | 5.4 | 5.5 | 5.6 | 5.6 | 5.5 | 7.3 | 10.9 | 12.7 | 11.7 | 13.5 | 13.5 | 12.4 | (12.6)C | 12.8 | 12.0 | 11.1 | 10.1 | 8.7 | 8.4 | 7.4 | 7.3 | 6.4 | 5.6 | |
| 17 | 5.8 | 6.3 | 5.8 | 4.5 | 4.7H | 4.9H | 7.2 | 11.2 | 12.7 | 13.0 | 13.2 | 13.0F | 13.1F | 12.6H | 12.5 | 12.8 | 11.7 | A | 8.6 | 7.6 | 7.5 | 7.4 | 6.9 | 6.3 | |
| 18 | 5.1 | 5.9 | 5.9 | 4.9 | 4.2F | 3.9F | 6.0 | 4.2 | 10.6 | 12.7 | 12.7 | 12.7 | 12.5H | 12.6 | 12.7H | 12.1 | 11.3 | 10.0J | 8.3 | 7.7 | 7.4 | 7.1 | 6.2 | 5.5 | |
| 19 | (5.3) | 4.9 | 4.8F | 4.8 | 4.3 | 4.1 | 8.6 | 9.8 | 4.9 | 11.2 | 12.3 | 13.0 | 12.7H | 12.8H | 12.6 | 11.7 | 12.0 | 11.2 | 9.6 | 7.5 | 6.4 | 5.6 | 5.8 | 5.2 | |
| 20 | 4.9 | 5.0 | 4.7 | 4.8 | 4.3 | 4.2 | 6.5 | (9.7) | 11.3H | 11.8H | 12.9H | 13.7H | 12.8 | 12.8 | 12.3 | 11.2 | 11.6 | 11.1 | (9.7) | 8.8 | 7.7 | 7.1 | 6.1 | 6.4 | |
| 21 | 5.7 | 5.4 | 5.4 | 5.4 | 5.2 | 5.3 | 8.6 | 10.5 | 12.5 | 13.6 | 14.1 | 14.0H | 14.2H | 14.3 | 13.6H | 12.7 | 11.2 | 10.7 | 9.2 | 8.6 | 7.1 | 5.6 | 5.7F | 5.3F | |
| 22 | 5.5 | 5.2 | 4.7 | 4.9 | 4.5 | 4.9 | 7.1 | 10.6 | 11.6 | 12.0 | 13.1 | 12.5 | 12.4 | 13.1H | 12.6 | 12.0 | 11.8F | 9.8 | 8.3 | 7.8 | 7.8 | 5.7 | 4.2 | 4.1 | |
| 23 | 4.0 | 4.2F | 4.2 | 4.4 | 4.1 | 4.0 | 5.8 | 11.0 | 11.4 | 10.9 | 11.9 | 12.1H | 12.5H | 12.7 | 12.4 | 12.4 | 11.5 | (9.7)H | 7.8 | 7.6 | 7.2 | 6.0 | 5.1 | 4.3 | |
| 24 | 4.0 | 4.2 | 4.2 | 4.3 | 4.0 | 3.9 | 6.6 | (9.8) | 12.1 | 12.0 | 12.6 | 13.2H | 13.6 | 13.2 | 13.4H | 13.2 | 13.1 | 11.0 | 8.6 | 7.5 | 7.3 | 6.5 | 5.8 | 5.3 | |
| 25 | 5.0J | 4.5 | 4.4 | 4.2 | 3.7F | 3.8 | 5.7 | 9.8 | 11.8 | 12.7 | 13.3 | 13.4H | 13.5H | 13.1 | 12.5 | 12.5F | 10.8F | (9.4)S | 7.8 | 7.3 | 6.3 | 6.4 | 5.8 | A | |
| 26 | 5.3J | 4.9 | 4.7 | 4.3 | 4.2 | 4.3F | 6.6 | 10.6 | 11.8 | 12.1 | 13.1 | 14.1 | 14.0 | 13.3H | 13.4H | 13.1 | 11.7 | (9.6) | 9.1 | 8.4 | 7.6 | 6.4 | 6.2 | 5.7 | |
| 27 | 5.3 | 5.8 | 5.6 | 4.8 | 4.3 | 4.4 | 7.2 | 10.0 | (12.8) | (12.4) | 14.3 | 14.2 | 13.5 | BH | (12.8)B | (13.0)H | 13.2 | 12.7 | 10.2 | 8.7 | 7.1 | 8.2 | 6.2 | 7.1F | |
| 28 | 5.9 | 5.9 | 6.2 | 4.9 | 5.0 | 4.3 | 6.0 | 11.2 | 14.2 | (15.5)B | (15.6)B | (16.8) | 13.7H | 13.1 | 12.9 | 12.7 | 12.0F | (9.6) | 7.9 | 7.0 | 6.3 | 6.3 | (5.0) | 4.2 | |
| 29 | 4.2 | 4.2 | 4.3 | 4.1 | 3.9 | 4.0 | 7.1 | 10.8 | 11.4 | 13.4 | (14.4)B | 12.9 | 13.1H | 13.5 | 13.3H | 12.1 | 11.1 | 10.3 | 7.6 | 7.4 | 6.4 | 5.6 | 4.8 | 4.8 | |
| 30 | (4.8) | 4.7 | 4.8 | 4.7 | 4.3 | 3.6 | 4.9 | 8.5 | 12.4 | 13.1 | 12.8 | 12.8H | 12.6 | 13.0 | 13.1 | 12.6 | 11.2 | 9.9 | 8.2 | 7.3 | 6.8 | 6.3 | 4.9 | 4.8 | |
| 31 | 4.5 | 4.5 | 4.5 | 4.4 | 4.2 | 4.2 | 5.6 | 10.1 | 11.0 | 12.6 | 12.6 | 12.5H | 12.5 | 12.3 | 12.2 | 12.0 | 10.8 | 9.1F | 6.8 | 6.3 | 6.0 | 6.2 | 6.2 | 4.2 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | 53 | 52 | 51 | 44 | 46 | 43 | 66 | 47 | 11.3 | 11.8 | 12.7 | 13.0 | 12.8 | 12.6 | 12.6 | 12.1 | 11.2 | 10.1 | 8.6 | 7.4 | 6.7 | 6.2 | 5.7 | 5.5 | |
| | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 2.9 | 2.9 | 2.8 | 2.7 | 2.9 | 2.9 | 3.1 | 3.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.0 | |

foF2

Swamp 2.0 Mc to 1.5 Mc in 0.1 min

Manual Automatic

K

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

IONOSPHERIC DATA

Lat. 35° 42.4' N
Long. 139° 29.8' E

Kokubunji Tokyo

Oct. 1946

135° E Mean Time

3.7 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 | 240 | 220 | 250 | 260 | 270 | 300H | 200 | 210H | 240H | 260 | 250H | 250 | 260 | 240H | 240H | 220 | 220 | 220 | 200H | 210F | 270 | 270 | 320 | 300 |
| 2 | 300 | 310 | 290 | 290 | 230 | 200 | 250 | 230 | 210 | 200 | 200H | 250 | 220 | 270 | 240 | 240H | 220 | 220 | 200F | 220 | 270 | 250 | 320 | (240)H |
| 3 | 350 | 370 | 290 | 250 | 260 | 300 | 210 | 200 | 220 | 210 | 210H | 210H | 210H | 200H | U | U | 210 | 220 | 190 | 200 | 230 | 250 | 250 | 250 |
| 4 | 290 | 330 | 300 | 220 | 260 | 220 | 210 | 200 | 200 | 200 | 210 | 210 | 220H | 250H | 230 | 210 | 230 | (200)F | 200 | 200F | 220 | 240 | 270 | 270 |
| 5 | 250 | 250 | 270 | 320 | 330 | 290 | 200 | 200 | 200H | 220 | 220 | 210 | 220H | 220 | 220H | 240 | 220 | 210 | 200 | 190 | 230 | 210 | 250 | 270 |
| 6 | 280 | 300 | 320 | 300 | 240 | 270 | 200 | 190 | 220 | 220 | 220 | 250H | 220 | 250 | 240H | 230 | 210 | 240 | 220F | 210 | A | 310 | 290 | 260 |
| 7 | 270 | 280 | 300 | 300 | 270 | 250 | 230 | 260 | 210 | 210 | 200 | 230 | 240 | 230 | 240H | 230 | (240)F | 220 | F | 250 | 250 | 250 | 250 | 300 |
| 8 | 270 | 290 | 280 | 300 | 310 | 270 | 230 | 220 | 230 | 220 | 250 | 230 | 230 | 240 | 250 | 220 | 220 | 220 | 210 | 210 | 210 | 240 | 240 | 260 |
| 9 | 270 | 250 | 250 | 260 | 250 | 280 | 240 | 210 | 210 | 220 | 220 | 230 | 250 | 240 | 270 | 250H | 230 | 240 | 240 | 240 | 180 | 210 | 250 | 260 |
| 10 | A | 250 | 260 | 250 | 270 | 290 | 240 | 210 | 210 | U | U | U | U | U | U | U | 220 | A | 210 | 230 | 230 | 240 | 270 | 280 |
| 11 | 320 | 300 | 280 | 230 | 240 | 240 | 230 | 210F | 200 | 260 | 220 | 220 | U | U | U | 230 | 210 | 200 | 200 | 230 | 220 | 230 | 250 | 300 |
| 12 | 300 | 290 | 280 | 250 | 210 | (210)E | 210 | 200 | 220 | 210 | 240 | 250 | 240 | 240 | 240 | 240 | 210 | 220 | 200 | 220 | 240 | 300 | 300 | 280 |
| 13 | 290 | 230 | 230 | 200 | 210 | 240 | 200 | 170 | 190 | 190 | 190 | 210 | 220 | 240 | 240 | 230 | 210 | 220 | 200 | 200 | 200 | (240)H | 300 | 300 |
| 14 | 310 | 270 | 250 | 220 | (250)H | 250 | 220 | 210 | 210 | U | U | U | U | U | U | U | 210 | 200 | 210 | (240)H | 260 | 260 | 250 | 250 |
| 15 | 260 | 300 | 280 | 260 | 210 | 240 | 230 | 200 | (210)U | 210 | 220 | 210H | 220 | 240H | 210H | 230 | 220 | (200)F | 230 | 240 | 230 | 240 | 260 | 260 |
| 16 | 260 | 300 | 270 | 250 | 210 | 240 | 220 | 140 | 190 | 200 | 230 | 230 | 210 | (220)U | 230 | 220 | 210 | 210 | 210 | 250 | 240 | 250 | 240 | 270 |
| 17 | 320 | (280)H | 250 | (300)H | 280H | 270H | 250 | 210 | 220 | 210 | 210 | 220F | A | (220)F | 210 | 220 | 230F | A | 230 | 230 | 230 | (260)F | 240 | 270 |
| 18 | 270 | 270 | 260 | 220 | (310)F | 300F | 240 | 200 | 200 | 220 | 220 | 220 | 220H | 260 | 240H | 220 | 210 | 200 | 220 | (230)H | 210 | 230 | 220 | 240 |
| 19 | 250 | 260 | 260 | 260 | 240 | 250 | 200 | 200 | 200 | 210 | 220 | 210 | 230H | 250H | 240 | 210 | 220 | 200 | 190 | 220 | 210 | 250 | 260 | 260 |
| 20 | 260 | 280 | 280 | 250 | 220 | 300 | 210 | 200 | 200H | 200H | 210H | 220H | 240 | 250 | 230 | 210 | 240 | 210 | 220 | 200 | 200 | 210 | 230 | 250 |
| 21 | 260 | 290 | 300 | 270 | 280 | 260 | 220 | 200 | 210 | 200 | 200 | 210H | 210H | 220 | 200H | 210 | 210 | 210 | 220 | 240 | 240 | 210 | 260F | 270 |
| 22 | 270 | 260 | 260 | 280 | 260 | 290 | 220 | 200 | 200 | 200 | 230 | 210 | 220 | 220H | 220 | 220 | 220F | 210 | 210 | 240 | 200 | 230 | 270 | 320 |
| 23 | 330 | 330 | 300 | 270 | 260 | 290 | 250 | 200 | 190 | 200 | 200 | 200H | 210H | 220H | 240 | 240 | 230 | FH | 250 | 250 | 230 | 230 | 250 | 280 |
| 24 | A | (240)H | 300 | 270 | 240 | A | 230 | 210 | 210 | 200 | 210 | 220H | 220 | 220 | 240H | 230 | 220 | 210 | 230 | 240 | 220 | 240 | 250 | 260 |
| 25 | 340 | A | 280 | 270F | 330 | 330 | 230 | 190 | 210 | 200 | 210 | 220H | 220H | 220H | 230 | 240F | 210F | (230)F | 240 | 240 | 240 | 250 | 220 | A |
| 26 | A | 250 | 270 | 310 | 290 | 330F | 230 | 200 | 200 | 210 | 210 | 210 | 220 | 220H | 230H | 230 | 210 | 200 | 240 | 230 | 230 | 230 | 250 | 260 |
| 27 | 270 | 290 | A | 320 | 260 | 300 | 250 | 200 | 210 | 210 | 210 | 230 | 230 | 240 | 240 | 230H | 210 | 220 | 190 | 230 | 230 | 250 | 210 | A |
| 28 | 290 | A | 300 | 280 | 280 | 280 | 300 | 240 | 220 | 210 | 230F | 220 | 220H | 240 | 220 | 220 | 220F | 210 | 200 | 240 | 240 | 240 | 230 | 280 |
| 29 | 330 | 310 | 270 | 270 | 270 | 300 | 230 | 200 | 200 | 200 | 220 | 210 | 210H | 220 | 230H | 200 | 200 | 200 | 200 | 210 | 210 | 250 | 270 | 280 |
| 30 | 290 | 300 | 300 | 250 | 200 | 230 | 230 | 200 | 200 | 210 | 210 | 240H | 230 | 230 | 230 | 210 | 200 | 210 | 210 | 220 | 220 | 220 | 210 | 240 |
| 31 | 260 | 260 | 250 | 230 | 240 | 250 | 200 | 180 | 180 | 220 | 210 | 220H | 220 | 220 | 220 | 210 | 210 | 210F | 200 | 280 | 280 | 270 | 240 | 240 |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 280 | 280 | 260 | 260 | 260 | 270 | 230 | 200 | 210 | 210 | 220 | 220 | 220 | 240 | 230 | 230 | 210 | 210 | 210 | 210 | 230 | 240 | 250 | 270 |
| Count | 29 | 24 | 24 | 31 | 31 | 30 | 31 | 31 | 31 | 31 | 29 | 29 | 27 | 28 | 24 | 24 | 31 | 24 | 30 | 30 | 30 | 31 | 31 | 29 |

3.7 F2

Sweep 2.0 Mc to 1.5 Mc in 1.5 min
 Manual Automatic

K2

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

Oct. 1946

R'F1

| 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 | | | | | | | | | 200 | 170 | 190 | 180 | 190 | 190 | 200 | 190 | | | | | | | | | |
| 2 | | | | | | | | | | 170 | 170 | A | 190 | 190 | 200 | A | A | 200 | | | | | | | |
| 3 | | | | | | | A | | 200 | 180 | 160 | 180 | 170 | 170 | C | C | 200 | A | | | | | | | |
| 4 | | | | | | | | | | 170 | 170 | 170 | 200 | B | 200 | 190 | A | F | | | | | | | |
| 5 | | | | | | | | | | 190 | 180 | 190 | 170 | 190 | 200 | 200 | 220 | A | | | | | | | |
| 6 | | | | | | | | | 210 | 210 | 200 | 200 | 200 | A | 200 | 220 | A | 230 | | | | | | | |
| 7 | | | | | | | | | 200 | 200 | 190 | 210 | A | A | A | A | A | A | | | | | | | |
| 8 | | | | | | | 210 | | 200 | 190 | A | 200 | 190H | 240 | 220 | 220 | A | A | | | | | | | |
| 9 | | | | | | | 200 | | 190 | 210 | 170 | 180 | 190 | 200 | 220 | 210 | 220 | 210 | | | | | | | |
| 10 | | | | | | | | | 200 | A | C | C | C | C | 200 | 220 | 210 | A | | | | | | | |
| 11 | | | | | | | A | | 210 | 170 | 160 | 200 | C | C | 190 | 200 | 210 | | | | | | | | |
| 12 | | | | | | | | | 200 | 200 | 180H | 170H | 180H | 190 | 200 | 210 | 220 | | | | | | | | |
| 13 | | | | | | | | | 180 | 170H | 160H | B | 200 | 200 | 210 | 220 | 210 | | | | | | | | |
| 14 | | | | | | | | | 200 | 190 | C | C | C | C | C | C | | | | | | | | | |
| 15 | | | | | | | | | 190 | 190 | A | A | 190 | 190 | 190 | 210 | | | | | | | | | |
| 16 | | | | | | | 190 | | 190 | A | (190)A | 200 | (210)C | 210 | 210 | | | | | | | | | | |
| 17 | | | | | | | | | 210 | 190 | A | 210 | A | 230 | A | A | A | | | | | | | | |
| 18 | | | | | | | | | 210 | 210 | 200 | 200 | 200 | 200 | 200 | 200 | A | | | | | | | | |
| 19 | | | | | | | | | 190 | 190 | 190 | 190 | 190 | 190 | 200 | 210 | 210 | | | | | | | | |
| 20 | | | | | | | | | 190 | 180 | 190 | 190 | 200 | 200 | 200 | A | 220 | | | | | | | | |
| 21 | | | | | | | 200 | | 200 | A | 190 | 180 | 190 | A | 190 | 200 | A | | | | | | | | |
| 22 | | | | | | | A | | A | 190 | 190 | 200 | 200 | 200 | 200 | 200 | | | | | | | | | |
| 23 | | | | | | | 190 | | 190 | 190 | 200 | 190 | 200 | 210 | 220 | A | | | | | | | | | |
| 24 | | | | | | | | | 200 | 180 | 190 | 180 | 210 | 190 | 200 | 200 | | | | | | | | | |
| 25 | | | | | | | | | 190 | 190 | A | A | 200 | 210 | (180)A | 230 | | | | | | | | | |
| 26 | | | | | | | 190 | | 200 | 200 | 200 | A | 210 | A | 210 | 210 | | | | | | | | | |
| 27 | | | | | | | | | 200 | 200 | 190 | 220 | 210 | B | B | | | | | | | | | | |
| 28 | | | | | | | | | 200 | 200 | 200 | 210 | 210 | 200 | 210 | 210 | A | | | | | | | | |
| 29 | | | | | | | | | 180 | 190 | 180 | 180 | 180 | 210 | 210 | 200 | A | | | | | | | | |
| 30 | | | | | | | | | 200 | 200 | 180 | 190 | 190 | 200 | 210 | 200 | | | | | | | | | |
| 31 | | | | | | | | | 170 | 210 | 200 | 180 | 190 | 210 | 210 | 200 | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | 200 | | 200 | 190 | 190 | 190 | 190 | 200 | 200 | 210 | 210 | 210 | | | | | | | |
| Count | | | | | | | 6 | | 14 | 28 | 26 | 25 | 25 | 24 | 25 | 23 | 10 | 3 | | | | | | | |

R'F1

Sweep 2.0 Mc to 3.0 Mc in 1/5 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

foE

Oct 1946

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

foE

Sweep 2.0 Mc to 1.5 Mc in 1.5 min

Manual Automatic

K5

13 31

2.7 2.0

1.8 1.9

2.3 2.3

3.4 3.4

3.7 3.7

2.1 2.1

3.6 3.6

2.0 2.1

2.6 2.6

3.2 3.2

2.3 2.3

3.1 3.1

3.1 3.1

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

Oct. 1946

RE

| 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 110 | 100 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A | E | | | | | | |
| 2 | | | | | | | E 110 | 100 | 100 | 100 | A | 90 | 100 | 100 | 100 | A | A | E | E | | | | | | |
| 3 | | | | | | | E E | 100 | 100 | A | A | 90 | 80 | 90 | 90 | C | A | A | E | | | | | | |
| 4 | | | | | | | E 100H | A | A | A | A | A | 110 | 90 | C | A | A | A | E | | | | | | |
| 5 | | | | | | | E 100 | 100 | 100 | 90 | 90 | 90 | 90 | 100 | 100 | 100 | 100 | A | E | | | | | | |
| 6 | | | | | | | E 100 | 100 | 100 | A | A | A | A | A | 100 | A | 110 | E | E | | | | | | |
| 7 | | | | | | | E 110 | 100 | 100 | 100 | 100 | A | A | A | A | A | A | A | E | | | | | | |
| 8 | | | | | | | E A | A | A | A | 100 | 100 | A | 100H | A | A | A | A | E | | | | | | |
| 9 | | | | | | | E 110 | 110 | 110 | 110 | 100 | A | A | A | 100 | 110 | 110 | E | E | | | | | | |
| 10 | | | | | | | E E | A | 100 | C | C | C | C | 100 | A | A | A | A | E | | | | | | |
| 11 | | | | | | | E A | A | 110 | A | A | 90 | C | C | A | (100)A | 100 | A | E | | | | | | |
| 12 | | | | | | | E A | A | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | E | E | | | | | | |
| 13 | | | | | | | E E | E | A | A | A | B | B | (100)B | A | A | 110 | E | E | | | | | | |
| 14 | | | | | | | E 100H | A | 100 | C | C | C | C | C | C | C | A | A | E | | | | | | |
| 15 | | | | | | | E A | A | A | 90 | A | 100 | 90 | 100 | 100 | 100 | 110 | A | E | | | | | | |
| 16 | | | | | | | E A | A | 100 | 100 | A | 100 | A | C | A | 100 | A | E | E | | | | | | |
| 17 | | | | | | | E A | A | 100 | 110 | A | A | 90 | 100 | 100 | A | 110 | A | E | | | | | | |
| 18 | | | | | | | E 120 | 110 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | A | A | A | E | | | | | | |
| 19 | | | | | | | E 100 | 100 | 100 | 100 | 90 | 100 | 100 | 100 | 100 | 100 | A | E | E | | | | | | |
| 20 | | | | | | | E 110 | 100 | 100 | 100 | A | A | A | A | A | A | A | A | E | | | | | | |
| 21 | | | | | | | E F | A | A | A | 100 | A | A | A | A | A | A | A | E | | | | | | |
| 22 | | | | | | | E A | A | A | A | A | A | A | 100H | 100H | A | A | A | E | | | | | | |
| 23 | | | | | | | E 100 | 100 | 100 | 110 | 100 | 110 | A | 100 | 90 | A | A | A | E | | | | | | |
| 24 | | | | | | | E 110 | 100 | A | 100 | 100 | 100 | 100 | 100 | 100 | AH | 100 | A | E | | | | | | |
| 25 | | | | | | | E 90 | A | 100 | A | 100 | A | A | A | A | A | 100 | A | E | | | | | | |
| 26 | | | | | | | E A | 100 | 100 | A | A | A | A | A | A | 110 | AH | E | E | | | | | | |
| 27 | | | | | | | E E | 100 | A | A | A | A | A | B | 100 | A | 110 | E | E | | | | | | |
| 28 | | | | | | | E E | 100 | 90 | 110 | 100 | A | A | 100 | 110 | A | A | A | E | | | | | | |
| 29 | | | | | | | E E | E | 110 | 100 | 90 | 100 | 100 | 100 | 100 | 110 | A | A | E | | | | | | |
| 30 | | | | | | | E E | E | 100 | 100 | A | 100 | 100 | 100 | 100 | 100 | 100 | E | E | | | | | | |
| 31 | | | | | | | E E | A | AH | 90H | 100H | 100H | 100 | 100 | 100 | 100 | A | E | E | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | * | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | * | * | | | | | | |
| Count | | | | | | | 0 | 14 | 22 | 17 | 17 | 16 | 16 | 16 | 22 | 14 | 13 | 0 | 0 | | | | | | |

Sweep 2.5 Mc to 5.0 Mc in 1/5 min

Manual Automatic

K6

RE

IONOSPHERIC DATA

Kokubunji Tokyo

Lat. 35° 42.4' N
Long. 139° 29.3' E

Oct. 1946

fEs

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|-------|------|------|------|------|------|------|--|
| 1 | E | 2.2 | E | E | E | E | 2.9 | 3.2 | 3.2 | 5.4 | 4.2 | 4.3 | 4.3 | 4.2 | 4.1 | 3.3 | 3.6 | 4.3 | 3.3 | 3.6 | 3.4 | 3.6F | E | 2.3 | |
| 2 | 2.4 | 3.0 | 2.1 | 2.1 | 2.3 | E | 3.2 | 2.8 | 4.1 | 4.1 | 4.6 | 6.2 | 5.4 | 4.6 | 5.8 | 7.2 | 4.3 | 3.0 | 3.0 | E | 2.4 | 2.0 | 3.2 | 4.2 | |
| 3 | 4.0 | 3.2 | 2.8 | 2.8 | E | E | 2.4 | 2.8 | 6.6 | 5.0 | 4.9 | 4.1 | 4.1 | 4.7 | 4.0 | C | 4.8 | 7.2 | 4.6 | 3.4 | 3.3 | 2.4 | E | E | |
| 4 | E | E | E | E | E | E | E | 2.5 | 3.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.1 | 4.2 | 4.4 | 4.7F | 2.8 | 3.2F | 3.2 | 2.8 | 2.4 | 2.4 | |
| 5 | E | E | E | E | E | E | 2.2 | 3.6 | 4.2 | 4.9 | 4.3 | 4.1 | 4.2 | 4.3 | 4.3 | 4.1 | 4.2 | 4.0 | 2.4 | 3.2 | E | E | 2.2 | 2.8 | |
| 6 | 2.6 | 2.0 | E | E | 2.8 | 2.6 | 3.2 | 2.8 | 4.0 | 4.1 | 4.6 | 4.3 | 4.6 | 5.0 | 4.0 | 4.1 | 3.7 | 3.6 | 6.1 | 3.8 | 5.3 | 3.0 | 2.8 | 5.4 | |
| 7 | 4.2 | 2.2 | 2.1 | 2.1 | 3.2 | 2.2 | 3.0 | 3.2 | 4.2 | 5.0 | 5.0 | 5.2 | 7.1 | 4.8 | 4.9 | 5.4 | 6.2 | 4.8 | 7.2 | 7.0F | 7.2 | 4.8F | 4.2F | 4.0F | |
| 8 | 2.8F | 3.0 | 2.2 | 2.2 | 2.4 | 2.0 | 2.8 | 3.2F | 4.2 | 4.9 | 6.8 | 4.3 | 4.2 | 4.3 | 4.1 | 3.2 | 3.1 | 3.2 | 3.2 | 3.0 | 3.2 | 3.4 | 3.9 | 4.2 | |
| 9 | 3.2 | E | E | E | E | E | 4.1 | 2.7 | 3.6 | 4.2 | 3.6 | 4.1 | 4.2 | 3.9 | 4.1 | 4.0 | 4.5 | 3.2 | 3.0 | 2.8 | 2.8 | E | 5.4 | 6.4 | |
| 10 | 6.8 | 4.5 | E | E | E | 3.1 | 2.4 | 3.8 | 2.8 | 5.6 | C | C | C | C | 4.0F | 5.0 | 4.2 | 7.4 | 5.2 | 4.0 | 7.2 | 5.0 | 4.2 | 4.2 | |
| 11 | 3.2 | 3.2 | 2.4 | 2.4 | 2.6 | 4.0 | 4.8F | 5.0F | 4.1 | 4.3 | 4.2 | 4.0 | 4.3 | C | 4.3 | 3.9 | 3.0 | 2.8 | 2.4 | 3.6 | 2.2 | 2.8 | 4.0 | 3.2 | |
| 12 | 2.8 | 2.3 | 2.4 | 2.4 | 5.3 | 2.1 | 3.0 | 3.0 | 3.3 | 4.0 | 4.1 | 4.1 | 4.1 | 4.3 | 4.3 | 4.1 | 4.1 | 2.9 | E | E | E | E | E | E | |
| 13 | 2.2 | 2.0 | E | E | E | E | 2.0 | 3.0 | 3.2 | 3.9 | 4.0 | 4.1 | 4.1 | 4.1 | 4.3 | 3.6 | 3.8 | 2.9 | 2.7 | 2.2 | 4.2 | 3.0 | 2.8 | 2.2 | |
| 14 | 2.1 | 2.1 | 2.0 | 2.0 | 2.0 | E | E | E | 3.3 | 3.9 | 4.2 | C | C | C | C | C | 3.6 | 3.9 | 3.4 | 4.0 | 4.3F | 4.2 | 2.2 | E | |
| 15 | E | 2.2 | E | E | E | E | E | 2.8 | 3.4 | 6.2 | 5.0 | 5.4 | 4.2 | 5.0 | 4.6 | 5.0 | 5.4 | 5.4 | 5.2 | 2.2F | 2.8 | 4.2 | 3.6 | 3.0 | |
| 16 | E | 3.0 | E | E | E | E | E | 3.2 | 4.2 | 4.2 | 8.6 | 6.2 | 5.3 | C | 4.3 | 5.2 | 3.6 | 3.0 | 3.0 | E | E | 2.1 | 2.8 | 2.4 | |
| 17 | 6.2 | 4.2 | 3.6 | 3.6 | 2.4 | 2.7 | 4.0 | 3.8 | 4.1 | 3.8 | 5.4F | 6.0 | 7.1F | 6.2 | 6.9 | 9.2 | 6.8 | 14.5D | 9.0 | 6.4 | 6.2 | 4.4 | 4.4 | 3.8 | |
| 18 | 2.2 | E | 5.5 | 5.5 | 4.7F | 2.8F | 2.6 | 3.2 | 3.2 | 4.3 | 4.4 | 4.0 | 4.3 | 4.3 | 4.8 | 4.8 | 4.6 | 3.4 | 4.2 | 4.2 | 4.2 | 2.8 | 2.8 | 2.8 | |
| 19 | 2.4 | 2.6 | 4.0F | 4.0F | 2.8 | 2.8F | E | 3.4F | 5.8 | 4.3 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.2 | 4.1 | 2.6 | 4.0 | 3.5 | 2.8 | E | E | E | |
| 20 | E | E | E | E | E | E | 3.2 | 3.1 | 4.2 | 4.1 | 3.4 | 4.2 | 4.2 | 5.5 | 5.0 | 4.1 | 4.2 | 6.8 | 3.2 | 3.0 | 3.2 | 3.0 | E | E | |
| 21 | E | E | 3.2 | 3.2 | 2.8F | 2.8F | 2.6 | 3.2F | 4.2 | 8.0 | 5.6 | 4.2F | 6.1F | 6.4 | 5.2 | 5.4 | 4.2 | 3.0 | 3.0 | 5.4F | 5.4F | 4.2 | 4.2 | 3.8 | |
| 22 | 2.6 | 2.1 | 2.5 | 2.5 | 2.7 | 2.7 | 2.9 | 4.2 | 4.2 | 4.2 | 4.2 | 4.1 | 5.4 | 5.1 | 4.1 | 3.1 | 6.6 | 8.6 | 4.4 | 4.6F | 4.7 | 4.7 | 3.5 | 3.5 | |
| 23 | 4.0 | 4.7F | 2.6 | 2.6 | 2.2 | E | E | 3.0 | 3.7 | 4.3 | 4.1 | 3.7 | 4.7 | 4.1 | 4.9 | 5.4 | 4.8 | 5.6 | 7.9F | 3.2F | 3.8 | 2.2 | 2.4 | 2.4 | |
| 24 | 6.6F | 5.8 | 2.8 | 2.8 | E | 3.6 | 3.2 | 2.8 | 4.2 | 4.8 | 4.3 | 4.7 | 4.3 | 4.1 | 3.9 | 5.3F | 5.0 | 5.0F | 4.7F | 4.0 | 2.8F | 2.1 | 4.8 | 4.8 | |
| 25 | 3.4 | 5.5 | 3.6 | 3.6 | 2.6 | E | E | 4.2 | 3.4 | 4.2F | 4.2 | 5.5 | 4.3 | 4.6 | 6.0 | 5.8F | 7.6F | 8.4 | 8.6 | 4.2 | 3.2 | E | 4.2F | 4.2F | |
| 26 | 7.8F | 2.2 | E | E | E | E | 4.5 | 3.0 | 3.8 | 4.2 | 5.2 | 4.3 | 7.2 | 4.2 | 5.8 | 4.3 | 3.6 | E | 4.0 | 5.4F | E | 2.0 | E | 2.2 | |
| 27 | 2.0 | 4.2F | 4.9 | 4.9 | 4.4 | 3.2 | 4.2 | 2.8 | 4.8 | 3.8 | 5.6 | 5.4 | 6.2 | 4.2 | 4.1 | 3.2 | 4.1 | 2.1 | 3.3 | 3.0 | 2.1 | E | E | 7.2F | |
| 28 | 5.8F | 3.8F | 4.2F | 4.2F | 3.1 | 2.8 | 2.6 | 2.9 | 4.2F | 4.2F | 4.2 | 4.4 | 5.3 | 4.3 | 4.3 | 4.9 | 7.0 | 5.6 | 4.0 | 6.0 | 3.6 | 3.8 | 2.6 | E | |
| 29 | 3.2 | 3.2 | 2.0 | 2.0 | E | E | 2.2 | 2.5 | 3.2 | 4.0 | 4.3 | 5.1 | 4.3 | 4.3 | 4.1 | 4.0 | 4.2 | 3.4 | 4.2F | 3.4 | 2.9 | E | E | 4.2 | |
| 30 | E | 3.2 | E | E | E | E | E | E | 2.9 | 4.0 | 4.0 | 4.2 | 4.1 | 5.1 | 4.1 | 4.3 | 2.9 | 2.2 | E | 4.8 | 2.2 | E | E | E | |
| 31 | E | E | E | E | 2.2 | E | E | E | 3.2 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.0 | 4.0 | 3.2 | 2.8 | 3.4F | 3.0 | 3.0 | 2.6 | 2.8 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.6 | 2.3 | 2.1 | 2.1 | 2.1 | 2.2 | E | 2.4 | 3.0 | 3.6 | 4.2 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.2 | 4.2 | 3.6 | 3.4 | 3.5 | 3.2 | 2.8 | 2.4 | 2.8 | |
| 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 2.9 | 2.8 | 2.7 | 3.0 | 3.0 | 2.9 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | |

Sweep 2.0 Mc to 1.50 Mc in 1.5 min

Manual Automatic

K7

fEs

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

IONOSPHERIC DATA

Kokubunji Tokyo

Lat. 35° 42.4' N
Long. 139° 29.3' E

Oct. 1946

(M3000)F2

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|-------|-----|-------|-----|------|------|-----|-------|--------|--------|--------|--------|------|--------|-------|--------|-----|--------|--------|-------|-----|-----|-------|-----|-----|
| 1 | 3.2 | 3.1 | 3.0 | 2.9 | 2.6 | 2.7H | 3.0 | 3.2H | 3.1 | 3.5 | 3.1H | 3.2 | 3.2 | 3.1H | 3.4H | 3.5 | 3.4 | 3.4 | 3.4 | 3.2 | 2.6 | 2.9 | 2.6 | 2.8 | |
| 2 | 2.7 | 2.7 | 2.8 | 3.0 | 3.3 | 3.3 | 3.1 | 3.6 | 3.7 | 3.3H | 3.3 | 3.2 | 3.1 | 3.0 | 3.1H | 3.2 | 3.3 | 3.5 | 3.3 | 2.9 | 3.0 | 3.0 | 2.7 | 2.9 | |
| 3 | 2.7 | 2.6 | (2.8) | 2.8 | 2.8 | 3.4 | 3.4 | 3.5 | 3.6 | 3.5 | 3.6 | 3.3H | 3.1H | 3.3H | C | C | 3.3 | 3.4 | (3.5)S | 3.2 | 3.0 | 2.9 | 2.4 | 3.0 | |
| 4 | 2.7 | 2.7 | 2.7 | 3.1 | 2.8 | 3.1 | 3.3 | 3.6 | 3.6 | 3.2 | 3.3 | 3.3 | 3.3H | 3.2H | 3.2 | 3.3 | 3.2 | 3.4 | 3.6 | 3.3 | 3.1 | 2.8 | 2.9 | 3.0 | |
| 5 | 3.0 | 3.0 | 2.8 | 2.6 | 2.7 | 2.7 | 3.4 | 3.5 | 3.4 | 3.3 | 3.3 | 3.2 | 3.3 | 3.1 | 3.2 | 3.4 | 3.3 | 3.4 | 3.4 | 3.5 | 3.0 | 3.2 | 3.0 | 2.9 | |
| 6 | 2.9 | 2.8 | 2.8 | J | 3.1 | 2.9 | 3.2 | 3.5 | 3.3 | 3.4 | 3.3 | 3.2H | 3.1 | 3.0 | 3.2H | 3.2 | 3.2 | 3.3 | 3.4 | 2.9 | A | 2.9 | 2.8 | 3.0 | |
| 7 | 2.9 | 2.8 | 3.0 | 2.8 | 3.0 | 3.0 | 3.3 | 3.4 | 3.5 | 3.4 | 3.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.3 | 3.3 | 3.4 | 3.5 | 3.0 | 3.1 | 3.2 | 3.0 | 2.8 | |
| 8 | 2.8 | 2.9 | 2.9 | 2.8 | 2.8 | 3.0 | 3.3 | 7.5 | 3.5 | 3.4 | 3.4 | 3.2 | 3.2 | 3.2 | 3.1 | 3.3 | 3.4 | 3.5 | 3.4 | 3.2 | 3.1 | 3.0 | 3.0 | 3.0 | |
| 9 | 3.0 | 2.9 | 2.9 | 3.0 | 2.9 | 2.9 | 3.2 | 3.5 | 3.4 | 3.5 | 3.1 | 3.0 | 3.1 | 3.2 | 3.1 | 3.2H | 3.3 | 3.1 | 3.0 | 3.6 | 3.3 | 2.9 | 2.9 | 3.0 | |
| 10 | 3.0 | 2.9 | 2.9 | 2.9 | 2.8 | 2.8 | 3.2 | 3.4 | 3.6 | 3.7 | C | C | C | C | 3.3 | 3.3 | 3.5 | J | 3.0 | 3.1 | 3.3 | 3.9 | 2.8 | 2.8 | |
| 11 | 2.6 | 2.9 | 3.0 | 3.3 | 3.2 | 3.2 | 3.3 | 3.4 | 3.6 | 3.5 | 3.4 | (3.5)C | C | C | 3.2 | 3.4 | 3.5 | 3.4 | 3.3 | 3.0 | 3.3 | 3.6 | 2.8 | 2.8 | |
| 12 | 2.8 | 2.8 | 2.9 | 3.1 | 3.3 | 2.9 | 3.4 | 3.6 | 3.5 | 3.8 | 3.1 | 3.3 | 3.3 | 3.4 | 3.2 | 3.2 | 3.4 | 3.4 | 3.4 | 3.3 | 3.0 | 2.8 | 2.7 | 2.8 | |
| 13 | 2.8 | 3.1 | 3.2 | 3.2 | 3.2 | 3.0 | 3.5 | 4.1 | 3.6 | 3.7 | 3.3 | 3.4 | 3.6 | 3.2 | 3.3 | 3.2 | 3.5 | 3.5 | 3.0 | 2.8 | 3.0 | 2.8 | 2.8 | 2.8 | |
| 14 | 2.7 | 2.2 | 3.1 | 3.5 | 3.1 | 3.1 | 3.3 | 3.7 | 3.7 | 3.3 | C | C | C | C | C | C | 3.2 | 3.2 | J | 3.6 | 2.9 | 2.9 | 3.1 | 3.1 | |
| 15 | 3.0 | 2.8 | 2.9 | 3.0 | 3.2 | 2.8 | 2.9 | 3.5 | (3.4)C | 3.4 | 3.4 | 3.3H | 3.2H | 3.2H | 3.2H | 3.1 | 3.2 | 3.3 | 3.2 | 2.9 | 3.1 | 3.3 | 3.1H | 3.1 | |
| 16 | 3.0 | 2.8 | 2.9 | 3.1 | 3.0 | 2.9 | 3.4 | 3.8 | 3.7 | 3.3 | 3.3 | 3.3 | 3.0 | (3.0)C | 3.1 | 3.2 | 3.3 | 3.1 | 2.9 | 3.0 | 3.0 | 3.1 | 2.9 | 2.7 | |
| 17 | 2.6 | 2.9 | 3.1 | 2.7 | 2.8H | 2.9H | 3.1 | 3.5 | 3.4 | 3.5 | 3.2 | 3.2 | 3.1 | 3.0H | 3.0 | 3.2A | 3.2 | A | 3.2 | 3.0 | 2.9 | 3.2 | 3.1 | 3.0 | |
| 18 | 2.9 | 3.0 | 3.2 | 3.5 | 3.1 | 2.8 | 3.3 | 3.6 | 3.3 | 3.4 | 3.2 | 3.1 | 3.1H | 3.1 | 3.1H | 3.2 | 3.4 | J | 3.2 | 3.1 | 3.2 | 3.2 | 3.3 | 3.2 | |
| 19 | 2.9 | 3.0 | 3.0 | 3.1 | 3.3 | 2.9 | 3.8 | 3.9 | 3.4 | 3.3 | 3.2 | 3.3 | 3.1H | 3.0H | 3.2 | 3.1 | 3.2 | 3.1 | 3.4 | 3.1 | 3.0 | 2.0 | 2.9 | 3.1 | |
| 20 | 2.9 | 2.8 | 2.9 | 3.1 | 3.0 | 2.8 | 3.2 | (3.5) | 3.4H | 3.2 | 3.1H | 3.2H | 3.1 | 3.0 | 3.0 | 3.1 | 3.0 | 3.2 | 3.2 | (3.1) | 3.1 | 3.0 | 2.9 | 2.9 | |
| 21 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 | 2.9 | 3.3 | 3.5 | 3.2 | 3.5 | 3.3 | 3.2H | 3.2H | 3.3H | 3.3H | 3.2 | 3.2 | 3.0 | 3.1 | 3.2 | 3.2 | 3.2 | 2.8 | 2.9 | |
| 22 | 2.9 | 2.9 | 2.9 | 2.8 | 2.9 | 2.7 | 3.2 | 3.3 | 3.7 | 3.4 | 3.4 | 3.1 | 3.0 | 3.0H | 3.0 | 3.1 | 3.0 | 3.3 | 3.1 | 2.9 | 3.5 | 3.3 | 3.1 | 2.7 | |
| 23 | 2.8 | 2.7 | 2.8 | 3.0 | 3.0 | 2.8 | 3.1 | 3.8 | 3.7 | 3.3 | 3.2 | 3.1H | 3.0H | 3.0H | 3.1 | 3.0 | 3.1 | (3.2)A | 3.0 | 2.9 | 3.0 | 3.2 | 3.0 | 2.7 | |
| 24 | 2.7 | 2.6 | 2.9 | 3.0 | 3.2 | 3.0 | 3.2 | (3.5) | 3.2 | 3.5 | 3.1 | 3.1H | 3.0 | 3.0 | 3.1H | 3.0 | 3.3 | 3.3 | 3.2 | 2.9 | 2.9 | 2.9 | 2.8 | 2.9 | |
| 25 | J | 2.7 | 2.6 | 2.8 | 2.8 | 2.9 | 2.4 | 3.5 | 3.4 | 3.2 | 3.4 | 3.2 | 3.1H | 3.2H | 3.2 | 3.1 | 3.2 | 3.3 | (3.2)S | 3.0 | 3.0 | 2.9 | 3.0 | 3.3 | |
| 26 | J | 3.1 | 3.0 | 2.8 | 2.7 | 2.6 | 3.1 | 3.6 | 3.7 | 3.4 | 3.1 | 3.2 | 3.1 | 3.0H | 3.1H | 3.2 | 3.1 | (3.1) | 3.0 | 3.2 | 3.1 | 2.8 | 3.0 | 2.8 | |
| 27 | 2.7 | 2.9 | 3.1 | 2.9 | 3.0 | 2.7 | 3.2 | 3.4 | (3.4) | (3.3) | 2.9 | 3.1 | 3.0 | B | (3.4) | (3.1)H | 3.1 | 3.1 | 3.2 | 3.1 | 2.9 | 3.1 | 2.6 | A | |
| 28 | 2.9 | 2.7 | 2.7 | 3.0 | 2.6 | 2.8 | 2.7 | 3.0 | 3.2 | (3.3)D | (3.4)D | 3.1 | 3.3H | 3.1 | 3.3H | 3.2 | 3.2 | (3.4) | 3.3 | 3.2 | 3.0 | 3.2 | (3.1) | 2.8 | |
| 29 | 2.7 | 2.8 | 3.0 | 2.9 | 2.7 | 2.6 | 3.0 | 3.5 | 3.6 | 3.3 | (3.5) | 3.4 | 3.1H | 3.1 | 3.3H | 3.2 | 3.3 | 3.4 | 3.2 | 3.1 | 3.0 | 3.2 | 2.8 | 2.8 | |
| 30 | (2.8) | 2.8 | 2.8 | 3.0 | 3.6 | 3.1 | 3.2 | 3.5 | 3.5 | 3.4 | 3.3 | 3.3H | 3.1 | 3.1 | 3.3 | 3.3 | 3.3 | 3.3 | 3.2 | 3.2 | 3.1 | 3.4 | 3.5 | 3.1 | |
| 31 | 3.1 | 3.1 | 3.1 | 3.2 | 3.0 | 3.1 | 3.6 | 3.8 | 4.0 | 3.5 | 3.3 | 3.2H | 3.2 | 3.1 | 3.2 | 3.4 | 3.2 | 3.3 | 3.0 | 3.1 | 2.8 | 2.9 | 3.4 | 3.1 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 2.8 | 2.8 | 2.9 | 3.0 | 3.0 | 2.9 | 3.2 | 3.5 | 3.5 | 3.4 | 3.3 | 3.2 | 3.1 | 3.1 | 3.2 | 3.2 | 3.3 | 3.3 | 3.2 | 3.1 | 3.0 | 3.0 | 3.0 | 2.9 | 2.9 |
| Count | 29 | 31 | 31 | 30 | 31 | 31 | 31 | 31 | 30 | 31 | 29 | 29 | 28 | 27 | 29 | 29 | 31 | 27 | 30 | 31 | 30 | 31 | 31 | 31 | 30 |

Sweep $\frac{2.0}{\dots}$ Me in $\frac{1}{\dots}$ min

Manual Automatic

K 8

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

Lat. 35° 42.4' N
Long. 139° 29.8' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

Nov. 1946

foF2

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|--------|--------|--------|------|--------|--------|-------|--------|--------|---------|---------|---------|-------|---------|---------|---------|--------|---------|--------|-----|-------|-------|--------|--------|-----|
| 1 | 4.2 | 4.4 | 4.7 | 4.4 | 4.0 | 3.9 | 4.8 | (4.5) | 12.1 | 13.6 | 14.5 | 14.5D | 14.0 | 13.6H | 13.3 | 13.5 | 12.0 | 10.3 | 8.3 | 7.5 | 7.9 | 6.7 | 5.8 | 5.4 | |
| 2 | 5.4 | 5.1 | 5.4 | 4.5 | 4.3 | 4.5 | 5.6 | 4.2 | 12.1 | 14.0 | (14.7) | (14.5) | 13.1 | 12.8 | 12.6 | C | C | 8.9 | 6.8 | 7.5 | 5.1J | 4.7 | 3.5J | 3.7J | |
| 3 | 3.8 | 3.8 | 3.9 | 4.1 | 3.6 | 3.3 | 4.9 | 8.6 | 10.7 | B | 12.9 | 12.1 | 11.1 | 11.9 | 12.6 | (11.2) | (9.7)S | 7.8 | 7.3 | 7.3 | 6.4 | 4.9 | 4.2 | 3.4 | |
| 4 | 3.6 | 3.7 | 3.7 | 4.2 | 3.8 | 3.4 | 4.1 | 7.2 | 4.1 | 11.1 | 10.9 | 12.1 | 12.7 | 12.5 | 12.6 | (11.0)C | (10.0) | 8.3 | 6.6 | 6.1 | 5.8 | 4.5 | 3.8 | 3.9 | |
| 5 | 4.0 | 4.1 | 4.2 | 4.4 | 4.3 | 3.8 | 5.4 | 8.7 | 4.3 | 11.0 | 12.4 | 11.7 | 12.3 | 12.6 | 12.6 | 11.3 | 9.7 | 8.8 | 6.8 | 7.2 | 6.4 | 4.3 | 4.7 | 4.3 | |
| 6 | 4.4 | 4.3 | 4.2 | 4.2 | 3.9 | 4.0 | 5.2 | (4.6) | 11.1 | 12.9 | 12.8 | (13.5)S | 12.8 | 13.0 | 13.0 | 12.3 | 10.0 | 9.1 | 8.7 | 7.8 | 7.5 | 6.8 | 5.7 | 6.1 | |
| 7 | 6.0 | 4.9 | 5.4 | 5.8 | 5.5 | 5.8 | 6.2 | 8.7 | 11.6 | 13.2 | 14.0 | 14.8 | 14.2 | 13.3 | 12.4 | 12.3 | 12.0 | 10.6 | (9.3) | 6.5 | (5.2) | 5.0J | 5.2 | (4.8)J | |
| 8 | 4.8 | 4.8 | 4.8 | 4.7 | 4.2 | 4.1 | 4.8 | 8.7 | 11.6 | 12.0 | 12.8 | 12.8 | 12.6H | 12.9 | 12.3 | 13.0 | 11.2 | 9.0 | 7.6 | 5.9 | 4.8 | (4.6) | 4.1 | 4.0 | |
| 9 | 3.8 | 3.8 | 3.9 | 4.1 | 3.7 | 3.5 | 4.1 | 4.0 | 11.0 | (10.3) | 11.4 | 11.5 | 12.7 | 12.0H | 12.0 | 10.5 | 10.2 | (9.8)S | 7.9 | 6.4 | 6.4 | 5.6 | 5.5 | 5.2 | 4.7 |
| 10 | 4.5 | 4.4 | 4.8 | 4.1J | 3.4 | 3.5 | (4.6) | (4.7) | 11.9J | 10.8 | 12.0 | 12.0 | 12.2 | 12.1 | 12.4 | 11.0 | 12.3 | 9.5 | 6.6 | 6.2 | 6.0 | 5.1 | 4.5 | 4.4 | |
| 11 | 4.0 | 3.8 | 3.8 | 4.2 | (3.6)C | 3.0 | 4.4 | 8.2 | 10.0 | 11.0 | 11.5 | 11.9 | 13.0 | 13.5 | 13.4 | 12.6 | 10.6 | 8.6 | 6.7 | 7.2 | 6.8 | 5.4 | 4.6 | (4.5) | |
| 12 | (4.5) | 4.5 | 4.5 | 4.6 | 4.0 | 3.9 | 4.9 | 4.8 | 4.6 | 11.4 | 12.8H | 12.2 | 12.9 | 13.4 | 12.9 | 11.7H | 11.3 | (9.8) | 7.4H | 6.4 | 5.7 | 4.8 | 4.8 | 4.7 | |
| 13 | 4.8 | (4.6) | 4.5 | 4.7 | 4.7 | 3.9 | 4.4 | 4.4 | 11.2 | 12.9 | 13.2 | 12.9 | 13.4 | 13.0H | 13.4 | 12.3 | C | C | 7.8 | 6.9 | (5.1) | 4.7 | (4.5) | 4.2 | |
| 14 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 3.9 | 5.5 | (4.8) | 11.9 | 13.2 | 13.2 | 13.5 | 13.0H | 13.9 | 13.0 | (12.7) | 12.2 | 10.8 | 9.0 | 8.0 | (7.0) | 6.4 | 4.9 | 4.1 | |
| 15 | 3.5 | 3.9 | 4.1 | 3.2 | 3.5 | 3.1 | 4.0 | 10.5 | 12.4 | 10.8 | 11.9 | 12.9 | 12.8 | 12.8 | 11.9 | 11.0 | 10.4 | 9.3 | 7.7 | 6.4 | 5.1 | 4.4 | (4.4)S | 4.5 | |
| 16 | 4.7J | 4.4 | 4.7 | 4.7 | 5.0 | 4.7 | 5.8 | 4.2 | 11.7 | (14.0)S | 14.0 | (13.5)S | 14.0 | 13.7 | 13.2 | 12.2 | 11.4 | (11.0)S | 9.3 | 7.6 | 8.0 | 7.2 | 6.1 | 5.3 | |
| 17 | 4.8 | (4.9) | 4.9 | 4.9 | 4.3 | 4.3 | 5.0 | 11.0 | 11.2 | 11.2 | 12.3 | 13.0 | 12.7 | (14.0)S | (12.2)S | 12.3 | 12.0 | 9.2 | 7.9 | 7.2 | 5.6 | 4.5 | 4.3 | 3.8 | |
| 18 | 3.9 | 4.0 | 4.2 | 4.4 | 4.0 | 4.0 | 4.8 | 4.9 | 11.2 | 12.6 | (13.4)S | 12.5 | 12.2 | 12.5 | 12.6 | 11.4 | 10.6 | 8.5 | 6.8H | 7.8 | 5.5 | 4.6J | 4.3 | 4.1 | |
| 19 | 4.1 | 4.1 | 4.2 | 4.0 | 3.8 | 4.0 | 4.8 | 8.8 | 10.8 | 11.2 | 12.0 | 11.8 | 12.6H | 12.3 | 11.4 | 10.5 | 9.8 | 9.0 | 7.3 | 6.5 | 5.1 | 4.3 | 4.7 | 5.0J | |
| 20 | 4.0 | 3.6 | 3.4 | 4.0 | 4.0 | 3.7 | 4.2 | 8.4 | (9.8)S | 11.8 | 12.1 | 12.0H | 12.1H | 11.0 | 10.7 | 9.8H | (9.6)H | 9.5 | 7.5 | 5.9 | 4.8 | 4.4 | 4.3 | 4.2 | |
| 21 | 4.0 | 4.0 | 4.3 | 3.9 | 3.2 | (3.5)F | 3.7J | 10.3 | 10.9 | 11.2 | 12.7 | 12.3 | 12.4 | 11.7 | 10.9 | 10.7 | 10.6 | 8.6 | 8.2 | 6.5 | 5.7 | 6.0 | 5.8 | 5.9 | |
| 22 | 5.9 | 5.5 | 5.2 | 5.3 | 4.9 | 4.3 | 4.7 | (11.0) | 11.5 | 12.6 | 13.7 | 13.2 | 12.8 | 12.3 | 12.3 | 11.8H | 11.8 | 10.8 | 8.3 | 7.2 | 5.1 | 4.4 | 4.0 | 3.9 | |
| 23 | 3.8 | 3.8 | 4.2 | 4.1 | 3.8 | 4.0 | 4.3 | 4.4 | 11.1 | 13.0 | 13.5 | 12.8 | 13.2H | 13.0 | 13.3 | 12.0 | 10.5 | 8.5 | 7.7 | 6.4 | 5.3 | C | C | C | |
| 24 | 3.8 | 3.8 | 3.8 | 3.9 | 3.3 | 2.9 | 3.4 | (10.0) | 11.3 | 11.1 | 11.6 | 12.0 | 12.8H | 13.5 | 12.6 | 11.6F | 10.2 | 8.6H | 8.9 | 6.5 | 4.5 | 4.3 | 4.0 | 3.8 | |
| 25 | 3.9 | 3.8 | 4.2 | 2.9 | 2.5 | 2.4 | 3.2 | 8.7 | 12.6J | 13.0 | 11.7 | 12.3H | 13.6 | 13.3H | 12.7 | 12.1 | 11.3 | (9.7)S | (7.4)S | 5.7 | 5.2 | 4.4 | 4.1 | 3.5 | |
| 26 | (3.4)F | (3.4)F | (3.5)H | 3.8 | 3.4 | 3.1 | 3.7 | 8.1 | 10.8 | 11.4 | 13.0 | 12.1 | 12.1H | 11.9H | 11.4 | 10.9 | 10.4 | 9.3 | 6.7 | 5.5 | 5.0 | 4.0 | 3.7 | 3.6 | |
| 27 | 3.2 | 3.3 | 3.5 | 3.5 | 3.3 | 3.1 | 3.9 | 8.1 | 10.9 | 12.2 | 11.0 | 11.5 | 11.2 | 11.1 | 10.9 | 10.0 | 8.8 | 8.2 | 6.0 | 4.9 | 5.0 | 4.7 | 3.5 | 2.9 | |
| 28 | 3.1 | 3.1 | 3.0 | 3.0 | 3.1 | 3.1 | 4.0 | 7.6 | 10.4 | (9.7)S | 10.7 | 10.8 | 10.8H | 11.2 | 10.3 | 10.2 | 8.7 | 6.7 | 5.2 | 4.3 | 3.7 | 4.0 | 3.3 | 3.0 | |
| 29 | 3.0 | 3.2 | 3.2 | 3.2 | 3.1 | 3.3 | 3.7 | 7.7 | 9.2 | (10.0)H | 11.0 | 10.8 | 12.3 | 12.0 | 12.2 | 11.5 | (9.7) | 8.7 | 6.4 | 4.8 | 3.8 | 4.2 | 3.1 | 3.2 | |
| 30 | 3.3 | 3.3 | 3.3 | 3.6 | 3.8 | 3.4 | 3.6 | 7.9 | 9.0 | 4.3 | 10.5 | (10.7)S | 10.5 | 12.0 | 12.4 | 10.9 | 9.0 | 7.2 | 5.3 | 4.7 | 3.3 | 3.8 | 3.5 | 3.2 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 4.0 | 4.0 | 4.2 | 4.2 | 3.8 | 3.8 | 4.7 | 8.9 | 11.1 | 11.4 | 12.6 | 12.3 | 12.7 | 12.7 | 12.4 | 11.5 | 10.5 | 9.0 | 7.6 | 6.5 | 5.3 | 4.6 | 4.3 | 4.1 | |
| Count | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 2.9 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.8 | 2.9 | 3.0 | 3.0 | 3.0 | 2.9 | 2.9 | 2.9 | 2.9 |

foF2

Sweep Z_{min} - Mc to Z_{max} - Mc in $\frac{1}{f}$ min Manual Automatic

K1

IONOSPHERIC DATA

Kokubunji Tokyo

Lat. 35° 42.4' N
Long. 139° 29.3' E

Nov. 1946

R'F2

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---------------|--------|------|------|-----|--------|--------|-----|-----|-----|-----|------|------|------|------|-----|--------|--------|--------|--------|-------|-----|-----|-----|-----|
| 1 | 380 | 360 | 270 | 250 | 310 | 350 | 260 | 210 | 230 | 220 | 220 | 240 | 220 | 240H | 230 | 220 | 210 | 200 | 200 | 230 | 260 | A | 250 | 250 |
| 2 | 250 | A | 280 | 270 | HF | 300 | 220 | 220 | 220 | 220 | 220 | 220 | 210 | 230 | 220 | C | C | 190 | 200 | 220 | A | 240 | A | A |
| 3 | 320 | 300 | 300 | 260 | 220 | (300) | 250 | 220 | 190 | 210 | 200 | 220 | 200 | 210 | 220 | 200 | 190 | 200 | 200 | 200 | 200 | 200 | 210 | 260 |
| 4 | 300 | 290 | 270 | 250 | 210 | 220 | 210 | 190 | 200 | 220 | 200 | 200 | 220H | 210H | 210 | (220)C | 220 | 210 | 210 | 250 | 240 | 210 | 250 | 300 |
| 5 | 290 | 270 | 260 | 230 | 200 | (230)E | 210 | 190 | 180 | 200 | 220 | 210 | 220 | 230 | 220 | 200 | 200 | 200 | 210 | 230 | 220 | 230 | 300 | 310 |
| 6 | 300 | 260 | 240 | 250 | 250 | 310 | 280 | 220 | 210 | 200 | 200 | 210 | 210 | 230 | 210 | 210 | 190 | 200 | 220 | 230 | 230 | 260 | 310 | 270 |
| 7 | 250 | 270 | 330 | 260 | 240 | 230 | 210 | 190 | 200 | 220 | 210 | 210 | 210 | 220 | 200 | 200 | 200 | 180 | 190 | 200 | 210 | A | 260 | 280 |
| 8 | 270 | 250 | 250 | 250 | 210 | 270 | 220 | 200 | 180 | 190 | 210 | 200 | 210H | 210 | 210 | 210 | 200 | 200 | 200 | 210 | 230 | 230 | 250 | 300 |
| 9 | 310 | 310 | 300 | 270 | 220 | 260 | 260 | 200 | 210 | 200 | 210 | 210 | 260 | 210H | 230 | 220 | 210 | 200 | 210 | 210 | 210 | 210 | 250 | 270 |
| 10 | 300 | 280 | 250 | 220 | 200 | 300 | 250 | 220 | 220 | 200 | 220 | 220 | 240 | 210 | 210 | 200 | 200 | 190 | 200 | 200 | 240 | 230 | 240 | 260 |
| 11 | 250 | 350 | 310 | 310 | (260)C | 200 | 270 | 210 | 210 | 200 | 200 | 210 | 230 | 220 | 220 | 210 | 190 | 190 | 210 | 240 | 240 | 230 | 240 | 280 |
| 12 | 290 | 270 | 260 | 250 | 250 | 280 | 210 | 200 | 200 | 210 | 210H | 200 | 220 | 240 | 220 | 220H | 200 | 200 | 190H | 220 | 220 | 250 | 270 | 280 |
| 13 | 280 | 270 | 310H | 280 | 240 | 240 | 250 | 220 | 200 | 190 | 140 | 200 | 200 | 200H | 230 | 210 | C | C | A | (230) | 210 | 250 | 260 | 290 |
| 14 | 330 | 290 | 250 | 250 | 250 | 300 | 250 | 200 | 210 | 230 | 210 | 200 | 200H | 230 | 220 | 220 | 210 | 190 | 200 | 200 | 210 | 220 | 220 | 280 |
| 15 | 320 | 310 | 250 | 250 | 260 | 300 | 270 | 210 | 200 | 200 | 200 | 190 | 210 | 240 | 200 | 200 | 200 | 200 | 200 | 200 | 210 | 270 | 350 | 320 |
| 16 | 290 | 320 | 310 | 290 | 260 | 260 | 220 | 210 | 200 | 200 | 200 | 200 | 210 | 220 | 210 | 210 | 220 | 220 | 220 | 210 | 250 | 230 | 210 | 250 |
| 17 | 260 | 290 | 280 | 230 | 280 | 250 | 290 | 220 | 210 | 210 | 210 | 220 | 230 | 220 | 210 | 230 | 200 | 200 | 210 | 210 | 200 | 230 | 240 | 280 |
| 18 | 280 | 290 | 270 | 260 | 210 | 290 | 250 | 210 | 200 | 210 | 210 | 200 | 200 | 210 | 210 | 200 | 200 | 190 | 200H | 230 | 200 | 240 | 260 | 260 |
| 19 | 270 | 280 | 260 | 240 | 230 | 280 | 220 | 200 | 200 | 190 | 220 | 210 | 210H | 190 | 180 | 180 | 190 | 190 | 200 | 200 | 200 | 250 | 270 | 220 |
| 20 | 210 | 280 | 320 | 310 | 220 | 250 | 220 | 190 | 190 | 190 | 200 | 180H | 190H | 200 | 210 | 220 | 210H | 200 | 220 | 280 | 210 | 240 | 260 | 270 |
| 21 | 300 | 220 | 250 | 200 | 210 | 330 | 330 | 200 | 200 | 200 | 210 | 210 | 210 | 220 | 220 | 220 | 210 | 210 | 220 | 200 | 200 | 260 | 340 | 290 |
| 22 | 240 | 250 | 240 | 280 | 280 | 330 | 310 | 200 | 210 | 210 | 220 | 210 | 220 | 220 | 220 | 210H | 220 | 210 | 190 | 200 | 210 | 240 | 280 | 280 |
| 23 | (310)A | 340 | 300 | 270 | 280 | 310 | 250 | 210 | 200 | 200 | 210 | 210 | 210H | 230 | 240 | 220 | 200 | 200 | 190 | 210 | 220 | C | C | C |
| 24 | 310 | 300 | 270 | 250 | 220 | 360 | 280 | 210 | 200 | 200 | 210 | 210 | 200H | 200 | 210 | 220F | 200 | 240H | 240 | 190 | 220 | 230 | 300 | 360 |
| 25 | 370 | 290 | 230 | 210 | 330 | 340 | 310 | 220 | 200 | 190 | 190 | 180 | 190 | 180H | 180 | 200 | (200)A | (180)H | (160)B | 190 | 220 | 220 | 240 | 230 |
| 26 | 320F | 330F | 330 | 250 | 200 | 300 | 250 | 200 | 200 | 190 | 210 | 200 | 200H | 200H | 200 | 220 | 200 | 200 | 200 | 190 | 210 | 220 | 250 | 270 |
| 27 | 270 | 310 | 270 | 250 | 240 | 270 | 220 | 210 | 270 | 200 | 200 | 200 | 200 | 220 | 210 | 220 | 180 | 190 | 210 | 210 | 240 | 210 | 250 | 280 |
| 28 | 320 | 320 | 290 | 180 | 270 | 250 | 210 | 190 | 200 | 190 | 210 | 200 | 210H | 220 | 200 | 210 | 200 | 190 | 200 | 200 | 210 | 220 | 220 | 280 |
| 29 | 340 | 340 | 320 | 260 | 260 | 250 | 230 | 200 | 200 | 180 | 190 | 190 | 210 | 210 | 210 | 180 | 190 | 190 | 190 | 180 | 220 | 230 | 290 | 250 |
| 30 | 270 | 290 | 280 | 280 | 250 | 230 | 200 | 200 | 200 | 200 | 190 | 190 | 190 | 200H | 200 | 200 | 190 | 180 | 180 | 190 | 260 | 240 | 240 | 260 |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | 290 | 290 | 280 | 250 | 250 | 280 | 250 | 210 | 200 | 200 | 210 | 210 | 210 | 220 | 210 | 210 | 200 | 200 | 200 | 210 | 220 | 230 | 250 | 280 |
| Count | 30 | 29 | 30 | 30 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 29 | 28 | 29 | 29 | 30 | 29 | 27 | 28 | 28 |

R'F2

Swamp λ λ Mc to λ λ Mc in λ λ min Manual Automatic

K2

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

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

f_oF1

Nov. 1946

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 | | | | | | | | | L | L | L | L | L | A | 4.7 | 4.1 | | | | | | | | |
| 2 | | | | | | | | | L | L | L | L | 4.9 | L | L | L | L | | | | | | | |
| 3 | | | | | | | | | L | L | L | L | 4.8 | L | L | L | L | | | | | | | |
| 4 | | | | | | | | | L | L | L | L | 4.5 | 4.7 | 4.5 | L | | | | | | | | |
| 5 | | | | | | | | 2.9 | 3.8 | 4.2 | 5.4 | L | L | L | L | 4.6 | A | | | | | | | |
| 6 | | | | | | | | | L | 3.5 | L | 4.8 | 5.5 | L | L | L | 4.8 | 3.7 | | | | | | |
| 7 | | | | | | | | | L | L | L | L | L | L | L | L | | | | | | | | |
| 8 | | | | | | | | | L | L | L | 4.6 | L | L | L | L | 4.8 | | | | | | | |
| 9 | | | | | | | | | 4.6 | L | L | 4.7 | 5.5 | 4.8 | L | L | L | | | | | | | |
| 10 | | | | | | | | | L | L | L | 5.4 | L | L | L | L | | | | | | | | |
| 11 | | | | | | | | | 4.0 | 4.0 | L | L | 4.8 | L | B | L | L | | | | | | | |
| 12 | | | | | | | | | L | 4.7 | L | L | L | 4.5 | 4.5 | 4.7 | | | | | | | | |
| 13 | | | | | | | | | L | L | L | L | L | L | L | L | L | | | | | | | |
| 14 | | | | | | | | | A | L | L | 5.2 | L | L | L | 4.3 | L | L | | | | | | |
| 15 | | | | | | | | | 4.5 | 4.5 | 4.7 | L | L | 5.5 | 4.2 | 3.6 | 4.5 | | | | | | | |
| 16 | | | | | | | | | L | 3.7 | 4.5 | L | L | 4.6 | L | L | 4.5 | L | | | | | | |
| 17 | | | | | | | | | L | (4.2)B | B | 4.6 | B | L | L | L | L | | | | | | | |
| 18 | | | | | | | | | L | L | 5.1 | L | L | L | L | L | L | | | | | | | |
| 19 | | | | | | | | | L | L | L | L | L | 4.7 | (4.4)B | B | L | | | | | | | |
| 20 | | | | | | | | | L | L | L | 4.6 | 4.0 | L | 5.3 | 4.6 | 3.3 | | | | | | | |
| 21 | | | | | | | | | L | L | L | L | L | L | L | L | L | L | | | | | | |
| 22 | | | | | | | | | L | L | L | L | L | L | L | L | L | L | | | | | | |
| 23 | | | | | | | | | L | L | L | L | L | L | L | L | L | L | | | | | | |
| 24 | | | | | | | | | L | 3.4 | L | L | L | L | L | A | L | L | | | | | | |
| 25 | | | | | | | | | L | L | 4.9 | L | L | L | L | L | L | A | | | | | | |
| 26 | | | | | | | | | L | L | 4.2 | L | L | L | L | L | L | L | | | | | | |
| 27 | | | | | | | | | L | L | L | L | L | L | L | L | L | L | | | | | | |
| 28 | | | | | | | | | L | L | L | L | L | L | L | L | L | L | | | | | | |
| 29 | | | | | | | | | 4.6 | L | L | L | L | L | L | 4.0 | L | | | | | | | |
| 30 | | | | | | | | | L | L | 4.6 | 4.3 | L | L | L | L | L | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | * | 4.2 | 4.7 | 4.6 | 4.8 | 4.7 | 4.5 | 4.6 | 3.7 | * | | | | | | |
| Median Value | | | | | | | | | * | 8 | 13 | 10 | 7 | 6 | 10 | 7 | 3 | 0 | | | | | | |
| Count | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |

f_oF1

Sweep $\frac{2.0}{\text{sec}}$ Mc to $\frac{15.0}{\text{Mc}}$ in $\frac{1}{\text{sec}}$ min Manual Automatic

K3

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

IONOSPHERIC DATA

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

Nov. 1946

R/F1

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 | | | | | | | | | 220 | 210 | 210 | 140 | 210 | A | 210 | 220 | | | | | | | | |
| 2 | | | | | | | | | | 200 | 200 | 210 | 200 | 200 | 210 | C | C | | | | | | | |
| 3 | | | | | | | | | | 200 | 200 | 140 | 200 | 200 | 210 | | | | | | | | | |
| 4 | | | | | | | | | | 200 | 140 | 170 | 180 | 200 | 180 | C | | | | | | | | |
| 5 | | | | | | | | | 170 | 180 | 140 | 140 | 200 | 200 | 200 | A | | | | | | | | |
| 6 | | | | | | | | | 210 | 210 | 140 | 180 | 200 | 200 | 210 | 210 | 200 | | | | | | | |
| 7 | | | | | | | | 140 | | 200 | 200 | 200 | 200 | 200 | | | | | | | | | | |
| 8 | | | | | | | | | | 180 | 200 | 140 | 180 | 140 | 200 | 210 | | | | | | | | |
| 9 | | | | | | | | | 180 | 200 | 210 | 200 | 210 | 210 | 210 | | | | | | | | | |
| 10 | | | | | | | | | | 200 | 200 | 210 | 200 | 200 | 200 | | | | | | | | | |
| 11 | | | | | | | | | 200 | 200 | 200 | 200 | 200 | 200 | 210 | 200 | 140 | | | | | | | |
| 12 | | | | | | | | | 200 | 200 | 200 | 200 | 230 | 220 | 220 | 220 | | | | | | | | |
| 13 | | | | | | | | | 200 | 140 | 140 | 200 | 180 | 200 | 210 | | | | | | | | | |
| 14 | | | | | | | | | A | 200 | 140 | 140 | 180 | 200 | 200 | 210 | 210 | | | | | | | |
| 15 | | | | | | | | | 140 | 180 | 140 | 140 | 180 | 140 | 200 | 140 | 140 | | | | | | | |
| 16 | | | | | | | | | 200 | 210 | 200 | 200 | 210 | 140 | 200 | 200 | 200 | | | | | | | |
| 17 | | | | | | | | | 220 | 200 | 210 (180)H | (210)8 | 220 | 200 | 220 | 220 | | | | | | | | |
| 18 | | | | | | | | | 200 | 200 | 200 | 140 | 200 | 200 | 200 | 200 | | | | | | | | |
| 19 | | | | | | | | | | 200 | 140 | 200 | 200 | 140 | 170 | 180 | 180 | | | | | | | |
| 20 | | | | | | | | | 200 | 140 | 180 | 140 | 140 | 200 | 180 | 140 | 210 | | | | | | | |
| 21 | | | | | | | | | | 200 | 200 | 140 | 140 | 210 | 210 | 210 | 210 | 200 | | | | | | |
| 22 | | | | | | | | | 210 | 210 | 210 | 200 | 200 | 210 | 210 | 220 | 220 | | | | | | | |
| 23 | | | | | | | | | 200 | 180 | 200 | 140 | 200 | 220 | 210 | 250 | | | | | | | | |
| 24 | | | | | | | | | 200 | 200 | 200 | 140 | 140 | 210 | 200 | 210 | 210 | | | | | | | |
| 25 | | | | | | | | | 200 | 200 | 170 | 170 | 170 | 140 | 140 | 180 | A | | | | | | | |
| 26 | | | | | | | | | 200 | 180 | 220 | 140 | 180 | 140 | 140 | 200 | | | | | | | | |
| 27 | | | | | | | | | 210 | 210 | 200 | 140 | 140 | 200 | 200 | 200 | | | | | | | | |
| 28 | | | | | | | | | | 140 | 200 | 170 | 210 | 210 | 140 | 200 | | | | | | | | |
| 29 | | | | | | | | | 180 | 140 | 140 | 180 | 180 | 140 | 140 | | | | | | | | | |
| 30 | | | | | | | | | | 170 | 180 | 180 | 180 | 170 | 200 | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | | | | | | | | | 4 | 26 | 30 | 30 | 30 | 24 | 24 | 21 | 4 | | | | | | | |

R/F1

Sweep α c.o. Mc to β c.o. Mc in / s min

Manual Automatic

K4

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

f_oE

Nov. 1946

| 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 2.2 | (3.0)A | 3.3 | 3.5 | 3.5 | 3.7 | 3.5 | 3.3 | 3.3 | 3.2 | 3.0 | (2.0) | | | | | | |
| 2 | | | | | | | E 2.4 | 2.8 | 3.1 | 3.3 | 3.3 | 3.4 | 3.3 | 3.2 | 3.2 | 3.0 | 3.0 | E | | | | | | |
| 3 | | | | | | | E 2.3 | 2.8 | A | 3.2 | 3.4 | A | 3.5 | (3.2)B | 3.0 | 2.4 | E | | | | | | | |
| 4 | | | | | | | E 2.4 | 2.7 | 3.1 | 3.3 | 3.5 | 3.7 | 3.4 | 3.2 | (2.7)C | 2.2 | E | | | | | | | |
| 5 | | | | | | | E 2.2 | 2.8 | (3.0)A | 3.4 | 3.6 | 3.5 | 3.6 | 3.4 | 3.4 | 3.0 | 2.7 | E | | | | | | |
| 6 | | | | | | | E 2.2 | 2.8 | 3.0 | 3.4 | 3.6 | (3.7)A | (3.5)B | 3.3 | 3.1 | A | E | | | | | | | |
| 7 | | | | | | | E A | 2.8 | 3.2 | (3.6)A | F | (4.0)A | 3.8 | 3.4 | 2.9 | A | E | | | | | | | |
| 8 | | | | | | | E 2.3 | 2.9 | A | 3.5 | 3.7 | 3.7 | 3.7 | 3.5 | 3.5 | 2.6 | E | | | | | | | |
| 9 | | | | | | | E E | 2.8 | 3.2 | 3.5 | 3.8 | 3.7 | 3.6 | 3.4 | 3.0 | 2.4 | E | | | | | | | |
| 10 | | | | | | | E 2.3 | 2.8H | 2.9H | 3.0 | A | 3.5 | B | 3.4 | 2.5 | A | E | | | | | | | |
| 11 | | | | | | | E 2.3F | 3.0 | 3.3 | 3.5 | 3.7 | 3.8 | 3.5 | 3.2 | 3.0 | 2.4 | E | | | | | | | |
| 12 | | | | | | | E (2.5)A | 3.0 | 3.2H | 3.4 | B | 3.7 | 3.7 | 3.4 | 3.2 | 2.5 | E | | | | | | | |
| 13 | | | | | | | E 2.2 | 2.9 | 3.0 | A | B | 3.4 | 3.8 | B | 3.5 | C | E | | | | | | | |
| 14 | | | | | | | E 2.2 | A | (3.5)A | (3.6)A | 3.8 | 3.7 | 3.7 | 3.4 | 3.3 | 2.5 | E | | | | | | | |
| 15 | | | | | | | E 2.2 | A | 3.1 | 3.5 | 3.7H | 3.7 | 3.5 | 3.4 | 3.1 | 2.4 | E | | | | | | | |
| 16 | | | | | | | E 2.2 | (3.0)A | 3.3 | 3.4 | 3.7 | (3.7)B | 3.7 | 3.5 | (2.8)A | 2.4 | E | | | | | | | |
| 17 | | | | | | | E 2.2 | 2.8 | 3.1 | 3.2 | A | B | (3.4)H | (3.4)A | 2.9 | (2.6)A | E | | | | | | | |
| 18 | | | | | | | E A | A | 3.4 | A | 3.8 | 3.7 | 3.5 | 3.4 | 3.0 | 2.5 | E | | | | | | | |
| 19 | | | | | | | E 2.4 | 3.0 | 3.2 | 3.5 | 3.7 | 3.7 | 3.5 | 3.4 | 3.0 | 2.3 | E | | | | | | | |
| 20 | | | | | | | E 1.9 | 3.0 | 3.1 | 3.6 | 3.8 | B | 3.7 | 3.5 | 3.4 | 2.2 | E | | | | | | | |
| 21 | | | | | | | E 2.3 | 2.7 | 3.3 | 3.7 | 3.6 | 3.6 | 3.7 | 3.6 | 2.8H | 2.2H | A | | | | | | | |
| 22 | | | | | | | E 2.1 | 2.8H | 3.3 | 3.8 | 3.8 | 3.8 | B | 3.4 | 3.1 | 2.5 | A | | | | | | | |
| 23 | | | | | | | E 2.3 | 2.8H | (3.4)A | (3.5)H | 3.8 | 3.8 | A | 3.4 | 2.9 | 2.3 | 1.7 | | | | | | | |
| 24 | | | | | | | E 2.0 | 2.4H | (3.0)A | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 | 3.3 | 2.3 | B | | | | | | | |
| 25 | | | | | | | E 1.9 | 2.8 | 3.3 | 3.7 | 3.7 | 3.6 | 3.7 | 3.4 | A | A | | | | | | | | |
| 26 | | | | | | | E 2.1 | 3.8 | 3.1 | 3.2 | B | 3.6 | 3.5 | 3.3 | 2.9 | 2.5 | (1.7)B | | | | | | | |
| 27 | | | | | | | E 2.2 | 2.7 | A | 3.6 | 3.6 | 3.6 | 3.5 | 3.3 | 2.9 | 2.4 | E | | | | | | | |
| 28 | | | | | | | E 2.0 | 2.8 | 3.4 | 3.4 | 3.7 | 3.5 | 3.6 | 3.3 | 2.8H | 2.8 | B | | | | | | | |
| 29 | | | | | | | E 2.1 | 2.5H | 3.2 | A | 3.6 | 3.4 | 3.4 | 3.4 | 2.9 | 2.3 | E | | | | | | | |
| 30 | | | | | | | E 1.8 | 2.7H | 3.4 | 3.4 | 3.5 | 3.4 | 3.4 | 3.3 | 3.0 | 2.1 | E | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | E 2.2 | 2.8 | 3.2 | 3.5 | 3.7 | 3.7 | 3.5 | 3.4 | 3.0 | 2.4 | E | | | | | | | |
| Count | | | | | | | 30 | 28 | 27 | 27 | 24 | 27 | 27 | 29 | 28 | 24 | 26 | | | | | | | |

f_oE

Sweep 2.0 Mc to 1.5 Mc in 1.5 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

Nov. 1946

KE

| 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 | 110 | 100 | A | A | A | 100 | 100 | 110 | 110 | E | | | | | | |
| 2 | | | | | | | E | 120 | A | 100 | 100 | 100 | 40 | 100 | 110 | C | C | E | | | | | | |
| 3 | | | | | | | E | E | 100 | A | 100 | 100 | A | 100 | 110 | 100 | 110 | E | | | | | | |
| 4 | | | | | | | E | E | 100 | 100 | 100 | 110 | 100 | 110 | 110H | C | E | E | | | | | | |
| 5 | | | | | | | E | E | A | A | 100 | 110 | 40 | 100 | 100 | 110 | A | E | | | | | | |
| 6 | | | | | | | E | E | 110 | 100 | 40 | 100 | 100 | 100 | A | 110 | A | E | | | | | | |
| 7 | | | | | | | E | A | A | 100 | A | F | 40 | 100 | 100 | 100 | A | E | | | | | | |
| 8 | | | | | | | E | E | 110 | A | 100 | 100 | 100 | 100 | 100 | 110 | A | E | | | | | | |
| 9 | | | | | | | E | E | 110 | 100 | 100 | 100 | 100 | 100 | 110 | 100 | 100 | E | | | | | | |
| 10 | | | | | | | E | E | 100H | 100H | 100 | A | 100 | 40 | 100 | 110 | 100 | E | | | | | | |
| 11 | | | | | | | E | E | 120 | 100 | 100 | 100 | 100 | 100 | 100 | 110 | 100 | E | | | | | | |
| 12 | | | | | | | E | A | 100 | 100H | 100 | B | 110 | 110 | 100 | 110 | 110 | E | | | | | | |
| 13 | | | | | | | E | E | 120 | 100 | A | B | 100 | 100 | B | 110 | C | C | | | | | | |
| 14 | | | | | | | E | E | A | A | A | 100 | 100 | 100 | 100 | 110 | A | E | | | | | | |
| 15 | | | | | | | E | E | A | 100 | 100 | 100H | 100 | 100 | 100 | 100 | 110 | E | | | | | | |
| 16 | | | | | | | E | E | A | A | 100 | 100 | 100 | 100 | 100 | 100 | 130 | E | | | | | | |
| 17 | | | | | | | E | E | 120 | 100 | 100 | A | 100 | 100H | A | A | A | E | | | | | | |
| 18 | | | | | | | E | A | A | 40 | A | 100 | 40 | 40 | A | 100 | 100 | E | | | | | | |
| 19 | | | | | | | E | A | A | 40 | A | 100 | 100 | 40 | 40 | A | 110 | E | | | | | | |
| 20 | | | | | | | E | 120 | 100 | 100 | 40 | 40 | 40 | 40 | 80 | 100 | 110 | E | | | | | | |
| 21 | | | | | | | E | 120 | 110 | 100 | 40 | 40 | 40 | 40 | 40 | 100H | 100H | A | | | | | | |
| 22 | | | | | | | E | 140 | 110H | 110 | 110 | 110 | 100 | B | 100 | 100 | 100 | A | | | | | | |
| 23 | | | | | | | E | 130 | 110H | A | BH | A | 100 | A | A | 110 | 100 | A | | | | | | |
| 24 | | | | | | | E | 140 | 100H | 100 | A | A | A | 100 | 100 | 110 | 100 | B | | | | | | |
| 25 | | | | | | | E | B | 40 | 100 | 40 | 80 | A | 80 | A | A | A | A | | | | | | |
| 26 | | | | | | | E | 110 | 100 | 100 | 110 | 70 | 40 | 40 | 100 | A | A | B | | | | | | |
| 27 | | | | | | | E | A | 100 | A | 100 | 100 | 100 | 40 | 40 | 100 | 110 | E | | | | | | |
| 28 | | | | | | | E | 130 | 110 | 110 | 100 | 100 | 40 | 40 | 40 | 100H | A | B | | | | | | |
| 29 | | | | | | | E | A | 100H | 100 | A | 40 | 40 | 80 | A | 100 | 110 | E | | | | | | |
| 30 | | | | | | | E | 130 | AH | 100 | A | 80 | 100 | 40 | 40 | 100 | 40 | E | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | * | 130 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 110 | * | | | | | | |
| Median Value | | | | | | | 0 | 4 | 21 | 23 | 20 | 22 | 26 | 28 | 23 | 24 | 14 | 0 | | | | | | |
| Count | | | | | | | | | | | | | | | | | | | | | | | | |

KE

Sweep 2.0 Mc to 15.0 Mc in 1.0 min

Manual Automatic

K6

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

fEs

Nov. 1946

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 | 2.8 | 2.8 | E | E | E | E | E | 4.0F | 4.1 | 3.8 | 4.1 | 5.3 | 5.1 | 4.7E | 4.7E | 3.3 | E | 2.1 | E | 4.9F | 6.0F | 4.2 | 2.7 |
| 2 | 2.7 | 4.8 | 4.6 | 2.8 | 5.2F | 2.8 | 2.1 | 4.7E | 3.0 | 3.1 | 3.6 | 4.0 | 4.1 | 4.1 | 4.0 | 4.0 | C | 2.1 | 3.0 | 2.4 | 5.5F | 4.7 | 4.0F | 4.3 |
| 3 | 4.1 | 2.0 | E | 2.1 | 2.5 | 2.5 | 2.2 | 2.2 | 3.1 | 4.0 | 4.0 | 3.6 | 3.6 | 4.2 | 4.7E | 4.2 | 4.4 | 4.2 | E | 3.8 | 2.8 | E | E | E |
| 4 | 3.0 | 2.6 | E | 2.0 | E | E | E | 2.0 | 2.5 | 4.7E | 4.0 | 3.0 | 4.2 | 4.2 | 3.0 | C | 2.1 | 2.8 | E | E | 4.2 | E | E | E |
| 5 | 2.8 | 2.3 | 2.0 | 2.0 | 2.0 | E | E | 2.9 | 4.0 | 4.0 | 4.7E | 3.7 | 4.0 | 4.7E | 4.7 | 4.7E | 4.7E | E | E | E | E | E | E | 2.4 |
| 6 | 2.0 | E | 2.0 | 2.2 | 2.3 | 2.0 | 2.6 | 2.5 | 4.7E | 4.1 | 3.8 | 4.7E | 5.2 | 3.3 | 4.1 | 3.5 | 3.2 | 2.7 | 2.0 | 2.2 | E | 2.6 | 6.3 | 2.7 |
| 7 | 2.7 | 2.5 | E | E | E | E | E | 2.8 | 4.2 | 5.5 | 4.7 | 5.8F | 4.7 | 5.4 | 5.3 | 4.2 | 3.5 | 2.9 | 2.2 | 2.5 | 4.9 | 5.6F | 2.8 | 6.1 |
| 8 | 2.8 | E | E | E | E | E | E | 2.7 | 3.2 | 4.2 | 4.7E | 3.4 | 5.5 | 3.0 | 4.3 | 4.7E | 3.0 | E | E | 2.2 | E | 2.2 | 2.2 | E |
| 9 | 2.2 | 3.2F | 2.8 | 2.8 | 2.0 | 2.6 | 3.2 | 2.6 | 4.7E | 4.2 | 3.3 | 4.7E | 4.2 | 4.7E | 4.7E | 4.7E | 2.4 | 3.2 | 2.6 | 3.2 | 3.2 | 2.8 | 2.6 | E |
| 10 | E | E | E | E | E | E | E | 4.7E | 3.1 | 4.0 | 4.2 | 4.2 | 4.2 | 4.7E | 4.7E | 2.2 | 3.3 | 2.4 | 2.6 | 3.0 | E | E | E | E |
| 11 | E | 2.2 | 2.0 | E | C | E | 2.1 | E | 4.7E | 4.7E | 4.7E | 4.7E | 4.7E | 6.3 | 4.2 | 4.2 | 4.3 | E | 2.7 | 4.6 | 2.7 | E | E | E |
| 12 | E | E | E | 2.0 | E | E | E | 4.7E | 4.7E | 4.2 | 5.0 | 4.0 | 4.0 | 4.7E | 3.0 | 4.7E | 4.7E | E | 3.2 | 2.6 | E | 2.4 | 2.0 | 2.8 |
| 13 | E | E | 2.6 | 4.2F | 2.8 | 2.2 | E | 2.8 | 3.3 | 4.4 | 4.8 | B | 4.3 | 4.3 | B | 4.7E | C | C | 7.2 | 5.2 | 2.8 | 3.4 | 4.0F | 2.8F |
| 14 | 2.8 | 2.2 | 3.2 | E | E | E | E | E | 4.2 | 4.2 | 5.4 | 4.1 | 4.7E | 4.7E | 3.3 | 4.7E | 3.3 | 3.2 | 2.6 | E | E | E | 2.6 | 2.8 |
| 15 | E | E | E | E | E | E | E | 2.7 | 4.0 | 4.0 | 4.7E | 4.7E | 4.7E | 4.7E | 4.7E | 3.4 | 3.5 | 2.8 | E | E | E | E | E | E |
| 16 | E | E | E | E | E | E | E | 2.1 | 3.6 | 4.8F | 4.4 | 4.2 | 4.7E | 4.7E | 4.7E | 3.7 | 3.0 | E | 2.6 | E | E | E | E | E |
| 17 | E | E | E | 4.2F | 3.0F | 2.8 | 2.2 | E | 4.7E | 4.7E | 4.7E | 4.0 | 4.7E | 4.7E | 4.6 | 3.2 | 4.0 | 4.2 | 5.2 | 3.8 | 2.8 | 3.0 | 3.0 | 2.0 |
| 18 | 2.3 | E | E | 2.2 | E | E | 2.1 | 4.9 | 4.8F | 4.7E | 4.2 | 7.3 | 4.7E | 4.1 | 3.9 | 4.7E | 3.0 | 2.6 | 2.2 | E | E | E | E | E |
| 19 | E | E | E | E | E | E | 2.8F | 2.6 | 3.0F | 4.1 | 4.0 | 4.7E | 4.7E | 4.7E | 4.7E | 4.7E | 4.7E | E | E | E | E | 2.0 | 2.1 | 1.9 |
| 20 | E | E | E | E | E | E | E | 1.7 | 4.7E | 4.7E | 4.7E | 4.7E | 4.7E | 4.7E | 4.7E | 4.0 | 4.1 | 2.3 | 2.4 | 3.2 | 2.5 | E | E | 2.0 |
| 21 | E | E | E | E | E | E | E | 2.6 | 3.1 | 4.7E | 4.0 | 4.7E | 4.7E | 4.7E | 4.7E | 4.6 | 3.0 | 2.6 | 4.0 | 4.2 | E | E | E | E |
| 22 | E | E | E | E | E | E | 1.9 | 4.7E | 4.0 | 4.0 | 4.3 | 6.4 | 4.7E | 4.7E | 4.7E | 4.7E | 3.1 | 3.0 | 1.6 | E | E | E | E | E |
| 23 | 2.8 | 2.4 | 2.2 | 2.0 | 2.2 | E | E | 4.7E | 4.0 | 4.2 | 4.3 | 4.4 | 4.0 | 5.0 | 4.6 | 3.5 | 3.2F | 3.1 | E | E | 3.0 | C | C | C |
| 24 | E | E | E | E | E | E | E | 4.7E | 3.4 | 4.2 | 4.2 | 5.4 | 4.2 | 4.7E | 5.6 | 3.9 | 4.7E | 4.7E | E | E | E | E | E | E |
| 25 | E | E | E | E | E | E | E | 2.7 | 4.7E | 4.7E | 4.7E | 4.7E | 5.1 | 5.1 | 5.1 | 5.1 | 5.6 | 4.9 | 3.0 | 2.2 | E | E | E | E |
| 26 | E | E | E | E | E | E | E | 2.5 | 3.4 | 3.7 | 4.7E | 4.7E | 4.7E | 4.7E | 3.0 | 2.8 | 3.1 | 1.8 | E | E | E | E | E | E |
| 27 | E | E | E | E | E | E | E | 2.6 | 4.6F | 4.2 | 3.3 | 4.2 | 4.2 | 4.3 | 4.7E | 4.7E | 4.7E | E | 2.8 | E | E | E | E | E |
| 28 | E | E | E | E | E | E | E | 2.1 | 3.5 | 2.8 | 4.7E | 4.3 | 4.7E | 4.7E | 3.2 | 2.7 | 2.8 | E | E | E | 2.2 | E | E | E |
| 29 | E | E | E | E | E | E | E | 2.4 | 3.1 | 3.9F | 4.7E | 4.7E | 4.7E | 4.1 | 4.7E | 4.7E | 2.9 | 3.0 | E | 2.0 | E | 2.2 | 3.0 | E |
| 30 | E | E | E | E | E | E | E | 2.0 | 4.7E | 4.7E | 4.2 | 4.7E | 3.5 | 4.7E | 4.7E | 4.7E | 4.0 | 3.0 | E | E | E | E | E | E |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean | | | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | | | |
| Value | E | E | E | E | E | E | E | 2.3 | 3.1 | 4.0 | 3.9 | 3.7 | 3.6 | 4.7E | 3.0 | 2.8 | 3.1 | 2.6 | 2.0 | 2.2 | E | E | E | E |
| Count | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 2.9 | 3.0 | 3.0 | 2.9 | 2.8 | 2.8 | 2.9 | 3.0 | 3.0 | 3.0 | 2.9 | 2.9 | 2.9 |

fEs

Sweep 2.0 Mc to 1.50 Mc in 1.5 min

Manual Automatic

K 7

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

IONOSPHERIC DATA

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

Nov. 1946

(M3000)F2

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|--------|--------|--------|-----|--------|--------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-------|-------|--------|-------|--|
| 1 | 2.4 | 2.5 | 3.0 | 3.2 | 2.5 | 2.5 | 3.0 | (3.5) | 3.4 | 3.3 | 3.2 | D | 3.1 | 3.2H | 3.2 | 3.0 | 3.1 | 3.2 | 3.1 | 2.9 | 3.0 | 3.1 | 3.0 | 2.9 | |
| 2 | 2.9 | 2.8 | 3.2 | 2.7 | J | 2.8 | 3.1 | 3.3 | 3.3 | 3.3 | (3.2) | (3.2) | 3.3 | 3.3 | 3.2 | C | C | 3.8 | 3.2 | 3.4 | J | 3.2 | J | J | |
| 3 | 2.7 | 2.9 | 2.7 | 3.1 | 3.6 | 2.8 | 3.1 | 3.5 | 3.6 | B | 3.3 | 3.5 | 3.4 | 3.1 | 3.2 | 3.4 | (3.6)S | 3.5 | 3.5 | 3.4 | 3.4 | 3.3 | 3.4 | 3.0 | |
| 4 | 3.3 | 2.9 | 2.9 | 3.2 | 3.2 | 3.5 | 3.1 | 3.7 | 3.5 | 3.6 | 3.4 | 3.3 | 3.5H | 3.4H | 3.3 | (3.4)C | (3.5) | 3.3 | 3.2 | 3.0 | 3.3 | 3.6 | 3.0 | 2.9 | |
| 5 | 2.8 | 3.0 | 3.1 | 3.4 | 3.7 | 3.0 | 3.3 | 4.0 | 3.7 | 3.8 | 3.5 | 3.3 | 3.2 | 3.3 | 3.5 | 3.5 | 3.6 | 3.3 | 3.0 | 3.3 | 3.5 | 3.0 | 2.7 | 2.7 | |
| 6 | 2.9 | 3.0 | 2.8 | 2.9 | 2.6 | 2.6 | 2.9 | (3.4) | 3.6 | 3.3 | 3.3 | (3.4)S | 3.2 | 3.3 | 3.4 | 3.4 | 3.5 | 2.9 | 3.0 | 2.9 | 3.1 | 2.4 | 2.7 | 2.8 | |
| 7 | 2.8 | 2.8 | 2.6 | 2.9 | 2.9 | 3.2 | 3.2 | 3.4 | 3.6 | 3.3 | 3.5 | 3.3 | 3.3 | 3.2 | 3.4 | 3.3 | 3.5 | 3.5 | (3.6) | 3.6 | 3.4 | J | 3.1 | J | |
| 8 | 2.9 | 3.1 | 3.1 | 3.0 | 3.5 | 2.7 | 3.0 | 3.5 | 3.5 | 3.7 | 3.5 | 3.4 | 3.3H | 3.2 | 3.3 | 3.1 | 3.5 | 3.4 | 3.3 | 3.3 | 3.1 | (3.0) | 2.9 | 2.8 | |
| 9 | 2.8 | 2.7 | 2.8 | 2.9 | 3.2 | 3.1 | 2.9 | 3.4 | 3.6 | 3.5 | 3.5 | 3.1 | 3.1 | 3.0H | 3.2 | 3.4 | 3.2 | 3.3 | 3.3 | 3.3 | 2.9 | 2.9 | 2.9 | 2.9 | |
| 10 | 2.8 | 3.0 | 3.0 | J | 3.1 | 2.8 | 3.0 | (3.5) | J | 3.0 | 3.3 | 3.4 | 3.3 | 3.2 | 3.0 | 3.5 | 3.2 | 3.4 | 3.1 | 3.1 | 3.2 | 3.3 | 3.1 | 3.0 | |
| 11 | 2.4 | F | 2.7 | 2.9 | (2.9)C | 2.9 | 3.1 | 3.5 | 3.5 | 3.3 | 3.5 | 3.0 | 3.0 | 3.1 | 3.3 | 3.3 | 3.4 | 3.3 | 3.0 | 3.0 | 3.2 | 3.2 | 3.0 | (2.9) | |
| 12 | 2.9 | 2.9 | 3.1 | 3.0 | 2.4 | 2.7 | 2.9 | 3.5 | 3.6 | 3.4 | 3.3H | 3.3 | 3.0 | 3.0 | 3.0 | 3.2H | 3.2 | (3.3) | 3.1H | 3.0 | 3.2 | 2.9 | 2.8 | 2.9 | |
| 13 | 2.9 | 3.0 | 2.7 | 3.0 | 3.3 | 2.8 | 2.9 | 3.5 | 3.6 | 3.4 | 3.4 | 3.4 | 3.3 | 3.1H | 3.2 | 3.3 | C | C | 3.3 | 3.3 | (3.1) | 3.0 | 3.0 | 2.8 | |
| 14 | 2.7 | 2.9 | 3.1 | 3.2 | 3.2 | 2.8 | 3.1 | (3.7) | 3.6 | 3.5 | 3.3 | 3.4 | 3.2H | 3.1 | 3.3 | (3.4) | 3.3 | 3.3 | 3.2 | 3.1 | 3.1 | 2.9 | 3.1 | 2.8 | |
| 15 | 2.7 | 2.9 | 3.1 | 3.0 | 3.4 | 2.8 | 3.0 | 3.6 | 3.5 | 3.5 | 3.4 | 3.5 | 3.1 | 3.2 | 3.2 | 3.3 | 3.4 | 3.3 | 3.4 | 3.5 | 3.1 | 2.9 | (2.6)S | 2.7 | |
| 16 | J | 2.7 | 2.7 | 2.9 | 3.0 | 3.0 | 3.1 | 3.5 | 3.2 | (3.4)B | 3.3 | (3.1)S | 3.0 | 3.2 | 3.0 | 3.1 | 3.1 | (3.4)S | 3.1 | 3.1 | 3.1 | 3.2 | 3.2 | 3.1 | |
| 17 | 3.0 | (2.7) | 3.0 | 3.0 | 3.1 | 3.2 | 2.9 | 3.5 | 3.5 | 3.3 | 3.3 | 3.2 | 3.2 | (3.2)S | (3.1)S | 2.9 | 3.1 | 3.3 | 3.2 | 3.3 | 3.3 | 3.2 | 3.3 | 2.9 | |
| 18 | 2.9 | 2.9 | 3.0 | 3.0 | 2.9 | 2.8 | 2.9 | 3.3 | 3.7 | 3.3 | (3.5)B | 3.4 | 3.3 | 3.1 | 3.2 | 3.2 | 3.4 | 3.6 | 3.1H | 3.3 | 3.3 | J | 3.1 | 3.0 | |
| 19 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 | 3.1 | 3.5 | 3.6 | 3.6 | 3.4 | 3.2 | 3.2H | 3.5 | 3.6 | 3.6 | 3.5 | 3.5 | 3.3 | 3.4 | 3.4 | 3.0 | 2.8 | J | |
| 20 | 3.1 | 2.6 | 2.6 | 2.8 | 3.2 | 2.7 | 3.1 | 3.6 | (3.4)S | 3.2 | 3.6 | 3.3H | 3.4H | 3.3 | 3.5 | 3.2H | (3.2)S | 3.3 | 3.3 | 3.3 | 3.2 | 2.9 | 3.0 | 2.8 | |
| 21 | 2.8 | 2.6 | 3.1 | 3.2 | 3.4 | (2.5)F | J | 3.6 | 3.6 | 3.4 | 3.3 | 3.2 | 3.2 | 3.2 | 3.0 | 3.1 | 3.3 | 3.3 | 3.4 | 3.0 | 2.7 | 2.8 | 2.4 | 2.8 | |
| 22 | 2.7 | 3.0 | 2.5 | 2.6 | 2.7 | 2.6 | 2.9 | (3.4)H | 3.2 | 3.4 | 3.4 | 3.2 | 3.5 | 3.2 | 3.1 | 3.1H | 3.3 | 3.4 | 3.2 | 3.5 | 3.0 | 2.9 | 2.8 | 2.8 | |
| 23 | 2.7 | 2.5 | 2.8 | 2.7 | 2.7 | 2.5 | 2.9 | 3.5 | 3.4 | 3.4 | 3.4 | 3.4 | 3.1H | 3.1 | 3.0 | 3.0 | 3.3 | 3.2 | 3.3 | 3.3 | 3.0 | C | C | C | |
| 24 | 2.7 | 2.7 | 2.9 | 3.1 | 3.2 | 2.9 | 2.9 | (3.6) | 3.6 | 3.5 | 3.5 | 3.2 | 3.3 | 3.2 | 3.2 | 3.1F | 3.2 | 3.1H | 3.3 | 3.4 | 3.0 | 2.8 | 2.4 | 2.4 | |
| 25 | 2.5 | 2.5 | 2.8 | 3.4 | 2.5 | 2.6 | 2.7 | 3.4 | J | 3.7 | 3.5 | 3.3 | 3.3 | 3.3 | 3.3H | 3.3 | 3.4 | 3.5 | (3.8)S | 3.5 | 3.3 | 3.2 | 3.2 | 3.1 | |
| 26 | (2.6)F | (2.6)F | (2.6)H | 3.1 | 3.6 | 2.7 | 2.9 | 3.5 | 3.6 | 3.5 | 3.4 | 3.4 | 3.4H | 3.3H | 3.3 | 3.3 | 3.3 | 3.6 | 3.5 | 3.4 | 3.3 | 3.2 | 2.9 | 2.8 | |
| 27 | 3.1 | 2.7 | 3.0 | 3.1 | 3.1 | 2.9 | 3.0 | 3.6 | 3.5 | 3.5 | 3.3 | 3.5 | 3.3 | 3.3 | 3.4 | 3.6 | 3.6 | 3.4 | 3.3 | 3.4 | 3.0 | 3.4 | 3.1 | 2.7 | |
| 28 | 2.7 | 2.7 | 2.9 | 3.7 | 2.8 | 3.0 | 3.3 | 3.6 | 3.7 | (3.7)S | 3.7 | 3.6 | (3.3)H | 3.4 | 3.4 | 3.5 | 3.6 | 3.7 | 3.6 | 3.5 | 3.0 | 3.1 | 3.0 | 2.8 | |
| 29 | 2.5 | 2.5 | 2.8 | 3.2 | 3.1 | 3.1 | 3.1 | 3.7 | 3.7 | (3.8)F | 3.6 | 3.4 | 3.4 | 3.4 | 3.3 | 3.6 | (3.6) | 3.5 | 3.6 | 3.5 | 3.0 | 3.3 | 2.7 | 3.0 | |
| 30 | 2.4 | 2.8 | 2.9 | 2.9 | 3.4 | 3.4 | 3.1 | 3.7 | 3.1 | 3.7 | 3.8 | 3.7 | 3.3 | 3.3H | 3.6 | 3.6 | 3.8 | 3.5 | 3.6 | 3.4 | 2.8 | 3.2 | 2.9 | 3.0 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 2.8 | 2.8 | 2.9 | 3.0 | 3.2 | 2.8 | 3.0 | 3.5 | 3.6 | 3.4 | 3.4 | 3.3 | 3.3 | 3.2 | 3.2 | 3.3 | 3.4 | 3.4 | 3.3 | 3.3 | 3.1 | 3.1 | 3.0 | 2.8 | |
| Count | 2.9 | 2.9 | 3.0 | 2.9 | 2.9 | 3.0 | 2.9 | 3.0 | 2.8 | 2.9 | 3.0 | 2.9 | 3.0 | 3.0 | 3.0 | 2.9 | 2.8 | 2.9 | 3.0 | 3.0 | 2.9 | 2.7 | 2.8 | 2.6 | |

(M3000)F2

Speed $\frac{2.0}{\text{min}}$ Me to $\frac{1.0}{\text{min}}$ Mc in $\frac{1.5}{\text{min}}$

Manual Automatic

K8

IONOSPHERIC DATA

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

Nov. 1946

fminF

135° E Mean Time

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

fminF

Swamp 2.0 Mc to 1.5. Mc in 0.5 min

Manual Automatic

K9

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

IONOSPHERIC DATA

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

Nov. 1946

f_{min}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 | E | E | E | E | E | E | E | E | 2.1 | E | 2.1 | 2.1 | E | E | E | E | E | E | E | |
| 2 | E | E | E | E | E | E | E | E | E | E | E | E | 2.2 | 2.3 | E | C | C | E | E | E | E | E | E | E | |
| 3 | E | E | E | E | E | E | E | E | E | E | 2.8 | E | E | 2.2 | 2.2 | E | E | E | E | E | E | E | E | E | |
| 4 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | C | E | E | E | E | E | E | E | E | |
| 5 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | 2.1 | E | E | E | E | E | E | E | |
| 6 | E | E | E | E | E | E | E | E | E | E | E | E | 2.2 | 2.1 | E | E | E | E | E | E | E | E | E | E | |
| 7 | E | E | E | E | E | E | E | E | 2.2 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 8 | E | E | E | E | E | E | E | E | E | E | E | E | E | 2.1 | E | E | E | E | E | E | E | E | E | E | |
| 9 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 10 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 11 | E | E | E | E | E | E | E | E | E | E | E | E | E | 2.2 | E | E | E | E | E | E | E | E | E | E | |
| 12 | E | E | E | E | E | E | E | E | E | E | 3.7 | E | 2.4 | 2.1 | E | E | E | E | E | E | E | 2.2 | E | E | |
| 13 | E | E | E | E | E | E | E | E | E | E | B | B | 2.3 | E | B | 2.7 | C | C | E | E | E | E | E | E | |
| 14 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 15 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 16 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 17 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 18 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 19 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 20 | E | E | E | E | E | E | E | E | E | E | E | E | 2.4 | E | E | E | E | E | E | E | E | E | E | E | |
| 21 | E | E | E | E | E | E | E | E | E | E | 1.9 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.4 | 1.4 | 2.2 | E | E | E | E | |
| 22 | E | E | E | E | E | E | E | E | E | E | 1.6 | 1.8 | 1.7 | 3.3 | 2.1 | 1.6 | 1.6 | 1.6 | 1.5 | E | E | E | E | E | |
| 23 | E | E | E | E | E | E | E | E | E | E | 3.5 | 2.0 | 2.5 | 2.0 | 2.0 | 1.9 | E | 1.4 | 1.4 | 1.4 | C | C | C | C | |
| 24 | E | E | E | E | E | E | E | E | E | E | 2.0 | 2.0 | 2.0 | 2.1 | 1.9 | 2.0 | 1.4 | E | E | E | E | E | E | E | |
| 25 | E | E | E | E | E | E | E | E | E | E | 1.7 | 1.9 | 2.0 | 1.9 | 1.6 | 1.7 | 1.5 | 1.4 | 1.7 | 1.9 | E | E | E | E | |
| 26 | E | E | E | E | E | E | E | E | E | E | 2.0 | 2.0 | 1.4 | 2.0 | 1.6 | 1.8 | 1.7 | 1.7 | E | E | E | E | E | E | |
| 27 | E | E | E | E | E | E | E | E | E | E | 2.3 | 2.0 | 1.7 | 1.8 | 1.7 | 1.6 | 1.6 | 1.5 | E | E | E | E | E | E | |
| 28 | E | E | E | E | E | E | E | E | E | E | 1.6 | 1.7 | 1.7 | 1.7 | E | E | 1.5 | E | E | E | E | E | E | E | |
| 29 | E | E | E | E | E | E | E | E | E | E | 1.4 | 1.6 | 1.6 | 1.5 | 1.4 | 1.5 | 1.5 | 1.4 | E | 1.4 | E | 2.0 | 1.4 | E | |
| 30 | E | E | E | E | E | E | E | E | E | E | E | 1.6 | 1.5 | 1.7 | 1.5 | 1.5 | 1.5 | 1.5 | E | E | E | E | E | E | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | E | E | E | E | E | E | E | E | E | E | E | E | E | 1.7 | E | E | E | E | E | E | E | E | E | E | E |
| Count | 30 | 30 | 30 | 30 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 29 | 28 | 28 | 29 | 30 | 30 | 30 | 29 | 29 | 29 | 29 |

f_{min}E

Bwsp 2.0 Mc to 45.0 Mc in 1.5 min

Manual

Automatic

K10

IONOSPHERIC DATA

135° E Mean Time

foF2

Dec. 1946

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|---------------|--------|-------|------|-------|-------|-----|--------|-------|--------|--------|---------|-------|---------|-------|-------|-------|------|-----|------|-------|------|-------|-------|--------|---|
| 1 | 3.4 | 3.6 | 3.8 | 3.7 | 3.8 | 4.0 | 4.4 | 7.8 | 10.0 | 9.2 | 10.2 | 11.5 | 11.6 | 12.1 | 12.0 | 10.2 | 8.0 | 7.0 | 5.9 | 4.3F | 3.8 | 3.8 | 3.3 | 3.5 | |
| 2 | 3.5 | 3.5F | 3.7F | 3.5 | 3.5 | 3.6 | 4.4 | 8.0 | 8.2 | 9.4 | 12.5H | 12.3 | 13.0 | 12.7 | 12.1 | 11.0 | 9.8 | 7.5 | 7.4 | 5.1 | 3.7 | 3.5 | 3.4 | 3.5 | |
| 3 | 3.7 | 3.2 | 3.7 | 3.8 | 3.5 | 3.4 | 4.4 | 8.9 | 11.0 | 10.2 | 13.0 | 13.3 | 12.7 | 12.9 | 12.1 | 10.7 | 9.3 | 8.6 | 7.5 | 6.3 | 4.1 | 4.0 | 3.2 | 3.4 | |
| 4 | 3.6 | 3.7 | 3.4 | 3.4 | 3.3 | 3.4 | 3.8 | 7.9 | 9.4J | 8.5 | 13.6 | 11.5H | 11.2 | 10.5 | 9.9 | 10.0 | 8.4 | 6.9 | 5.8 | (4.9) | 3.9 | 3.7 | 3.1 | (3.0) | |
| 5 | 3.3 | (3.2) | 3.2 | 3.4 | 3.1 | 2.9 | 3.7 | 9.0 | 10.3 | 10.9 | 10.6 | 11.4 | 11.1H | 10.7 | 11.7 | 10.0 | 8.8H | 7.0 | 6.1 | 6.0 | 5.0 | 4.3 | 3.8 | 3.6 | |
| 6 | 3.6 | 3.9 | 4.0 | 3.5 | 3.7 | 3.7 | 4.3 | 8.0 | 9.4 | 10.5 | 13.0H | 12.5H | 11.4H | 11.9H | 11.9 | 11.4 | 9.2 | 8.2 | 7.4 | 4.0 | 3.6 | 4.2 | 3.1 | 3.4 | |
| 7 | 3.7 | 3.7 | 3.7 | 4.0 | 3.6 | 2.8 | 3.4 | 7.8 | 9.4 | 10.4 | 10.3 | 10.4 | 11.2 | 11.6 | 11.3H | 12.2 | 9.8 | 8.2 | 6.3 | 5.7 | 4.4 | 4.0 | 3.7 | 3.8H | |
| 8 | 3.9 | 3.8 | 3.1 | 2.9 | 2.9 | 2.9 | 3.7 | 7.4 | 9.9 | 10.4 | 11.5 | 12.4 | 13.0 | 12.3 | 11.2 | 10.6 | 8.6 | 7.1 | 5.6 | 4.0 | 4.0 | 3.9 | 3.2J | 3.4 | |
| 9 | 3.3 | 3.2 | 3.3F | 3.2 | 3.4 | 3.2 | 3.6 | 6.2 | 9.2 | 10.3 | 11.0 | 10.9 | 10.6 | 12.7 | 11.4 | 10.2 | 8.0 | 9.2 | 6.3 | 5.0 | 4.5 | 4.1 | 3.5 | 3.3 | |
| 10 | 3.4 | 3.3 | 3.2 | 3.0 | 3.2 | 3.2 | 3.0 | 6.3 | 9.2 | 10.8 | 11.2 | 11.8 | 12.0 | 11.6 | 11.1 | 10.8 | 9.5H | 6.9 | 4.9J | 5.5 | 3.6J | 3.1 | 2.8 | 3.4 | |
| 11 | 3.4 | 3.4 | 3.2 | 3.5 | 4.2 | 3.1 | 3.2 | 8.0 | 9.3 | 10.5 | 12.5 | 12.6 | 11.0 | 11.1 | 10.8 | 10.0 | 9.2 | 6.8 | 6.6 | 4.3 | 4.0 | 4.4H | 3.7 | 3.4 | |
| 12 | 3.2 | 3.3 | 3.4 | (3.4) | (3.4) | 3.4 | 3.5H | 7.3 | 11.0 | 11.3 | 11.8 | 11.8H | 12.3 | 12.4 | 11.9H | 10.5 | 9.2 | 7.3 | 6.8 | 5.7 | 5.5 | 3.4 | 3.2 | 3.2 | |
| 13 | 3.4 | 3.1 | 3.1 | 3.3 | 3.0 | 3.4 | 3.6 | 8.0 | 9.5 | 10.0 | 10.2 | 11.8 | 12.5 | 12.3 | 9.8H | (9.8) | 9.2 | 8.9 | 5.8 | 4.5 | 4.6F | 3.8 | 3.3 | 3.4 | |
| 14 | 3.1 | 3.1 | 3.3 | 3.2 | 3.2 | 3.1 | 3.6 | 8.4 | (9.2) | 10.3 | 12.0 | 11.5 | 11.2 | 10.7 | 10.4 | (9.6) | 8.7 | 7.4 | 6.6 | 4.5 | 4.7J | 3.0 | 3.4 | 3.4 | |
| 15 | (3.5) | 3.3 | 3.1 | 3.1 | 3.3 | 3.1 | 3.4 | 7.0 | 8.9 | (9.7) | 10.9H | 11.6 | 11.5H | 11.2 | 9.5 | 9.2 | 8.4 | 7.1 | 6.6 | 4.7 | 4.3 | 3.8 | 3.6 | (4.4)F | |
| 16 | (4.2)F | (4.2) | 3.7 | (3.3) | 3.0 | 3.1 | 3.5 | 8.8 | 9.2 | 9.1 | 9.9 | 10.1 | 10.6 | 11.2 | 10.5 | 10.5 | 9.2 | 7.8 | 7.1 | 5.8 | 5.2 | 4.4 | 3.5 | 3.1 | |
| 17 | 3.1 | (3.4) | 3.4 | 3.2 | 3.1 | 3.0 | 3.2 | 7.8 | 9.4 | (10.0) | 10.5 | 11.0 | 11.6 | 10.5 | 10.5 | 11.3 | 9.6 | 8.1 | 7.4 | 6.5 | 6.0 | 4.4 | 4.0 | 3.1 | |
| 18 | 3.5 | 3.5 | 3.4 | 3.4 | 3.5 | 2.7 | 2.8 | 6.6 | 8.7 | 10.1 | 11.9H | 11.9 | 12.0 | 11.7 | 11.1 | 11.1 | 9.4 | 8.2 | 6.1 | 4.9 | 5.1 | 4.3 | 3.6 | 3.5 | |
| 19 | 3.6 | 3.3 | 3.3 | 3.7 | 3.4 | 2.7 | 2.9 | 7.0 | 9.2 | 10.5 | 10.8 | 12.0 | 12.0 | 11.9 | 12.8 | 12.0 | 9.4 | 9.2 | 8.7 | 9.2 | 7.5 | 4.4 | 4.3 | 4.0 | |
| 20 | 4.0 | 3.9 | 4.6 | 3.8 | 3.1F | 2.7 | 3.1 | 8.7 | 9.4 | 11.2 | 12.6 | 12.3 | 11.4 | 9.6 | 10.0 | 10.3 | 9.3 | 7.6 | 6.3 | 6.0 | 4.7 | 4.3 | 3.9 | 3.8 | |
| 21 | 3.5 | 3.4 | 3.2 | (3.4) | 3.8 | 2.5 | 3.0 | 7.4 | 10.0 | 10.2 | 12.0 | 10.8 | 12.1 | 10.9H | 10.7 | 9.7 | 9.3 | 7.5 | 7.1 | (5.8) | 9.4 | 4.4 | 4.4 | 3.8 | |
| 22 | 3.1 | 3.2 | 3.2 | 3.4 | (3.4) | 3.0 | 2.9 | 7.2 | 9.9 | 11.8 | 12.0 | 11.7 | 11.0 | 10.5 | 10.6 | 10.0 | 9.3 | 9.1 | 6.7 | 6.3 | 9.4 | 4.1 | 3.7 | 3.3 | |
| 23 | 3.3 | 3.6 | 3.2 | 3.2 | (3.2) | 3.1 | 3.5 | 6.8 | 9.2 | 11.0 | 10.8 | 11.3 | 10.8 | 9.9 | 10.3 | 10.3 | 9.0 | 8.2 | 5.7 | 5.9 | 5.9 | 5.4 | 4.3 | 3.8 | |
| 24 | 4.0F | 4.1 | 3.8 | 3.4 | 2.7 | 2.7 | 3.2 | 6.6 | 10.5 | 11.8 | 12.6 | 11.5 | (11.7)C | 10.6 | 9.2 | 9.3 | 10.2 | 8.2 | 6.7 | 6.1H | 5.4 | 4.9 | 3.6 | 3.0 | |
| 25 | 3.1 | 3.1 | 3.1 | 3.1 | 3.2 | 2.7 | 2.9 | 7.2 | 9.6 | 11.8 | 11.9 | 10.4 | 10.7 | 11.0 | 10.8 | 9.4 | 8.8 | 7.6 | 7.6 | 6.1 | 4.4 | 2.8 | 2.9 | 2.9 | |
| 26 | 3.0F | 3.3F | 3.2 | 3.2 | 3.6 | 3.0 | B | 6.4 | 9.4 | 9.7 | 11.3 | 13.2 | 10.7 | C | C | C | C | C | C | 6.3 | 5.6 | C | 3.1 | 3.0 | |
| 27 | 3.2 | (3.4) | 3.1 | 4.2 | 3.8 | 4.6 | 4.6 | (6.9) | 8.8 | 10.5 | (12.0)C | 12.6 | 12.0 | 10.7H | 10.7 | 9.9 | 9.6 | 7.8 | 7.3 | 7.3 | A | A | A | 3.2 | |
| 28 | 3.1 | 3.6J | 3.5 | 3.4 | 3.7 | 3.2 | (4.0)C | 6.8 | 11.2 | 9.2 | 11.5 | 11.4 | (9.9)S | 12.1 | 10.5 | 10.0 | 8.2 | 7.9 | 8.1 | 6.3 | 4.6J | 3.6 | 3.1 | 2.9 | |
| 29 | 2.9 | 2.9 | 2.9 | 3.0 | 2.9 | 3.0 | 3.3 | 7.0 | 9.3 | 11.0 | C | C | 11.7H | 11.2 | 10.8H | 10.7 | 11.8 | 8.6 | 5.1 | 5.4 | 4.9 | 3.7 | 2.9 | 2.6 | |
| 30 | 2.8 | 2.9 | 3.1 | 2.9 | 2.9 | 2.8 | 3.0 | 6.0 | (9.6)S | 9.2 | 10.5 | 11.0 | 10.4 | 12.0 | 11.4 | 10.2 | 9.2 | 8.0 | 6.0 | 5.8 | 5.8 | 4.0 | (3.2) | 3.0 | |
| 31 | 3.1 | 2.9 | 3.1 | 2.9 | 2.9 | 3.0 | 3.1 | 6.1 | 7.4 | 9.2 | 11.5 | 11.7 | 12.0 | 10.7 | 12.1 | 11.0 | 9.6 | 8.1 | 6.0 | 6.2 | 5.6 | (3.6) | (3.2) | 3.3 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.4 | 3.4 | 3.4 | 3.3 | 3.4 | 3.3 | 3.1 | 3.5 | 7.3 | 9.4 | 10.3 | 11.5 | 11.7 | 11.4 | 11.4 | 11.0 | 10.3 | 9.2 | 7.9 | 6.6 | 5.8 | 4.7 | 4.0 | 3.4 | 3.4 | |
| Count | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 |

foF2

Sweep 2.0 Mc to 15.6 Mc in 1/4 min

Manual

Automatic

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

Lat. 35°42.4' N
Long. 139°29.3' E

IONOSPHERIC DATA

Kokubunji Tokyo

Dec. 1946

f'F2

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|------|------|--------|--------|------|--------|--------|-----|-----|------|--------|------|--------|------|------|-----|------|--------|-----|------|------|------|--------|--------|-----|
| 1 | 290 | 300 | 280 | 280 | 280 | 260 | 230 | 190 | 200 | 180 | 190 | 200 | 210 | 230 | 230 | 200 | 200 | 200 | 200 | 200F | 220 | 220 | 220 | 260 | 270 |
| 2 | 270 | 310F | (290)A | 280 | 320 | 320 | 210 | 190 | 190 | 190 | 190H | 200 | 200 | 200 | 210 | 180 | 200 | 190 | 200 | 190 | 210 | 220 | 270 | 290 | |
| 3 | 310 | 320 | 320 | 250 | 230 | 270 | 240 | 200 | 190 | 200H | 210 | 210 | 210 | 200 | 200 | 200 | 200 | 190 | 190 | 200 | 220 | 250 | 270 | 300 | |
| 4 | 280 | 230 | 250 | 260 | 230 | 260 | 210 | 200 | 200 | 190 | 200 | 190H | 200 | 200 | 200 | 200 | 210 | (200)A | 210 | 200 | 220 | 230 | 250 | 280 | |
| 5 | 310 | 300 | 290 | 280 | 220 | 270 | 260 | 220 | 200 | 200 | 200 | 210 | 200 | 220 | 220 | 200 | 190H | 200 | 200 | 220 | 190 | 220 | 250 | 340 | |
| 6 | 320 | 290 | 230 | 300 | 320 | 240 | 230 | 210 | 190 | 200 | 200H | 200H | 210H | 210H | 220 | 210 | 200 | 190 | 200 | 190 | 220 | 260 | 320 | 340 | |
| 7 | 320 | 240 | 280 | 250 | 210 | 230 | 260 | 210 | 210 | 210 | 210 | 220 | 210 | 220 | 240H | 210 | 200 | 180 | 190 | 200 | 210 | 210 | 300 | 280H | |
| 8 | 260 | 240 | 230 | 300 | 310 | 320 | 230 | 210 | 210 | 200 | 200 | 190 | 220 | 210 | 200 | 200 | 190 | 190 | 210 | 180 | 250 | 240 | 250 | 260 | |
| 9 | 270 | 250 | 250F | 260 | 250 | 250 | 210 | 190 | 180 | 200 | 190 | 190 | 190 | 190 | 190 | 200 | 200 | 200 | 190 | 190 | 210 | A | 270 | 310 | |
| 10 | 310 | 300 | 270 | 260 | 270 | 230 | 210 | 200 | 210 | 200 | 210 | 230 | 230 | 210 | 210 | 210 | 190H | (180)A | 200 | 230 | 190 | 260 | 280 | 310 | |
| 11 | 270 | 280 | 350 | 310 | 240 | 200 | 230 | 210 | 200 | 190 | 210 | 210 | 210 | 210 | 200 | 200 | 210 | 200 | 200 | 200 | 210 | 250H | 260 | 260 | |
| 12 | 260 | 280 | 300 | 310 | 280 | 250 | 230H | 200 | 200 | 200 | 200H | 190 | 180 | 190H | 190H | 190 | 190 | 190 | 210 | 200 | 200 | 200 | 270 | 300 | |
| 13 | 280 | 240 | 260 | (300)E | 310 | 300 | 220 | 200 | 190 | 190 | 200 | 210 | 200 | 220 | 200H | 200 | 190 | 190 | 190 | 180 | 210F | 210 | 250 | 280 | |
| 14 | 260 | 300 | 290 | 290 | 260 | 270 | 230 | 200 | 200 | 220 | 210 | 220 | 220 | 220 | 230 | 200 | 200 | 190 | 190 | 190 | 200 | 200 | 250 | 290 | |
| 15 | 290 | 270 | 270 | 270 | 270 | 280 | 250 | 210 | 200 | 190 | 180H | 240 | 210 | 230 | 220 | 200 | 210 | 200 | 200 | 200 | 230 | 230 | 290 | 340F | |
| 16 | 290F | 250 | 250 | 250 | 290 | 310 | 250 | 220 | 200 | 200 | 200 | 220 | 210 | 220 | 210 | 200 | 200 | 200 | 200 | 190 | 210 | 220 | 220 | 300 | |
| 17 | 310 | 280 | 250 | 250 | 270 | 280 | 260 | 210 | 200 | 200 | 200 | 200 | 210 | 220 | 230H | 210 | 210 | 200 | 190 | 200 | 190 | 240 | 250 | 340 | |
| 18 | 330 | 280 | 260 | 290 | 240 | (280)E | 280 | 220 | 210 | 200 | 240H | 220 | 200 | 210 | 220 | 200 | 200 | 180 | 190 | 180 | 220 | 220 | 250 | 300 | |
| 19 | 300 | 300 | 300 | 250 | 200 | 240 | 260 | 200 | 200 | 190 | 200 | 190 | 200 | 210 | 200 | 180 | 190 | 180 | 190 | 200 | 180 | 210 | (300)A | 310 | |
| 20 | 310 | 290 | 240 | 210 | 230F | 360 | 300 | 200 | 190 | 180 | 210 | 220 | 210 | 210 | 200 | 210 | 200 | 200 | 190 | 210 | 210 | 210 | (240)E | 290 | |
| 21 | 260 | 270 | 290 | (300)A | 230 | 190 | 260 | 220 | 200 | 200 | 200 | 250 | 210 | 200H | 210 | 210 | 210 | 200 | 200 | 180 | 200 | 200 | 240 | 210 | |
| 22 | 250 | 320 | 320 | 250 | 210 | 240 | 260 | 210 | 190 | 200 | 190 | 190 | 190 | 200 | 200 | 190 | 190 | 190 | 190 | 190 | 200 | 200 | 240 | 210 | |
| 23 | 300 | 260 | 270 | 270 | 290 | 290 | 250 | 200 | 200 | 200 | 190 | 190 | 190 | 200 | 200 | 190 | 190 | 190 | 190 | 190 | 200 | 230 | 240 | 250 | |
| 24 | 310F | 250 | 200 | 200 | 220 | 300 | 250 | 200 | 190 | 190 | 210 | 200 | (220)E | 230 | 180 | 190 | 210 | 190 | 190 | 190H | 200 | 200 | 190 | 310 | |
| 25 | 260 | 240 | 270 | 270 | 230 | 210 | 270 | 220 | 190 | 200* | 200 | 200 | 230 | 230 | 210 | 210 | 200 | 200 | 200 | 200 | 190 | 200 | (250)E | 270 | |
| 26 | 310F | 310F | 270 | 250 | 220 | 220 | 220 | 220 | 200 | 200 | 210 | 230 | 250 | C | C | C | C | C | 180 | 220 | C | C | 210 | (320)E | |
| 27 | 370 | 320 | 280 | 200 | 300 | 290 | 200 | 180 | 180 | 190 | (210)E | 210 | 210 | 210H | 200 | 200 | 200 | 200 | 200 | 190 | A | A | A | 330 | |
| 28 | 340 | 330 | 310 | 280 | 250 | 230 | (240)E | 240 | 200 | 200 | 230 | 210 | 210 | 230 | 210 | 210 | 220 | 220 | 220 | A | 210 | 200 | 210 | 320 | |
| 29 | 330 | 330 | 330 | 290 | 310 | 340 | 260 | 220 | 210 | 230 | C | C | 210H | 230 | 210H | 210 | 240 | 190 | 200 | 230 | 200 | 210 | 220 | 320 | |
| 30 | 340 | 360 | 300* | 300 | 310 | 310 | 300 | 210 | 210 | 200 | 210 | 240 | 220 | 240 | 210 | 200 | 200 | 200 | 200 | 200 | 220 | 210 | 260 | 330 | |
| 31 | 330 | 330 | 330 | 290 | 250 | 280 | 240 | 200 | 210 | 230 | 240 | 210 | 230 | 200 | 230 | 200 | 180 | 180 | 200 | 200 | 190 | 200 | 260 | 280 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 300 | 290 | 280 | 270 | 250 | 270 | 240 | 210 | 200 | 200 | 210 | 210 | 210 | 210 | 210 | 200 | 200 | 200 | 200 | 200 | 210 | 220 | 250 | 300 | |
| Count | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 30 | 30 | 31 | 30 | 30 | 30 | 30 | 30 | 31 | 30 | 29 | 28 | 30 | 31 | |

Sweep _____ Mc to _____ Mc in _____ min

Manual

Automatic

f'F2

K2

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

Lat. $36^{\circ}42.4'N$
Long. $139^{\circ}29.8'E$
Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

Dec. 1946 f_oF1

| 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 | L | L | L | L | L | 3.9 | 3.7 | | | | | | | | |
| 2 | | | | | | | | | | A | A | A | A | L | L | L | | | | | | | | |
| 3 | | | | | | | | | A | L | L | L | L | L | L | 3.2 | | | | | | | | |
| 4 | | | | | | | | | 3.7 | L | L | L | L | L | L | | | | | | | | | |
| 5 | | | | | | | | | L | L | 5.1 | L | 4.5 | 4.6 | 4.5 | 3.2 | | | | | | | | |
| 6 | | | | | | | | | | | 4.3 | 4.8 | L | 3.7 | 3.9 | 3.0 | | | | | | | | |
| 7 | | | | | | | | | | | L | B | L | L | L | | | | | | | | | |
| 8 | | | | | | | | | L | L | B | L | L | L | L | | | | | | | | | |
| 9 | | | | | | | | | | | B | B | L | L | B | | | | | | | | | |
| 10 | | | | | | | | | | L | L | L | L | L | L | | | | | | | | | |
| 11 | | | | | | | | | | L | L | L | L | B | | | | | | | | | | |
| 12 | | | | | | | | | | 5.1 | B | L | L | B | B | | | | | | | | | |
| 13 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | |
| 14 | | | | | | | | | | | L | L | L | 4.9 | L | | | | | | | | | |
| 15 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | |
| 16 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | |
| 17 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | |
| 18 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | |
| 19 | | | | | | | | | | L | L | L | L | L | A | | | | | | | | | |
| 20 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | |
| 21 | | | | | | | | | | L | L | L | L | L | L | | | | | | | | | |
| 22 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | |
| 23 | | | | | | | | | | 4.6 | L | L | L | L | L | | | | | | | | | |
| 24 | | | | | | | | | | L | L | L | C | L | | | | | | | | | | |
| 25 | | | | | | | | | | L | L | L | L | L | L | | | | | | | | | |
| 26 | | | | | | | | | | L | L | L | 6.8 | C | C | | | | | | | | | |
| 27 | | | | | | | | | | C | L | L | L | L | L | | | | | | | | | |
| 28 | | | | | | | | | | L | L | L | L | L | L | | | | | | | | | |
| 29 | | | | | | | | | | C | C | L | L | L | 4.6 | | | | | | | | | |
| 30 | | | | | | | | | | L | L | L | L | L | 5.4 | | | | | | | | | |
| 31 | | | | | | | | | L | L | L | BK | BK | BK | LK | | | | | | | | | |
| Mean | | | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | | | |
| Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | | | | | | | | | | | | | | | | | | | | | | | | |

f_oF1

Sweep 1.3 Mc to 15.0 Mc in 1.5 min

Manual

Automatic

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

Lat. $35^{\circ}42.4'N$
Long. $139^{\circ}29.3'E$

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

R'F1

Dec. 1946

| 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 | | | | | | | | | | 170 | 170 | 170 | 200 | 210 | 220 | A | | | | | | | | | | |
| 2 | | | | | | | | | | A | 200 | 200 | 180 | 190 | 170 | | | | | | | | | | | |
| 3 | | | | | | | | | | 190 | 190 | 190 | 190 | 190 | 200 | 190 | | | | | | | | | | |
| 4 | | | | | | | | | | | 200 | 200 | 200 | 190 | 190 | | | | | | | | | | | |
| 5 | | | | | | | | | | | | 200 | 210 | 200 | 210 | 200 | 180 | | | | | | | | | |
| 6 | | | | | | | | | | | | 200 | 210 | 200 | 200 | 190 | 200 | | | | | | | | | |
| 7 | | | | | | | | | | | | 200 | 200 | 210 | 200 | | | | | | | | | | | |
| 8 | | | | | | | | | | 200 | 190 | 180 | 210 | 190 | 200 | | | | | | | | | | | |
| 9 | | | | | | | | | | | | 170 | 180 | 200 | 200 | | | | | | | | | | | |
| 10 | | | | | | | | | | | 200 | 210 | 230 | 210 | 190 | | | | | | | | | | | |
| 11 | | | | | | | | | | | 200 | 200 | 200 | 200 | | | | | | | | | | | | |
| 12 | | | | | | | | | | 180 | 190 | 180 | 180 | 180 | 180 | | | | | | | | | | | |
| 13 | | | | | | | | | | | | 200 | 180 | 200 | 190 | | | | | | | | | | | |
| 14 | | | | | | | | | | | | 210 | 200 | 200 | 210 | | | | | | | | | | | |
| 15 | | | | | | | | | | | | A | 200 | 220 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | 210 | 200 | 200 | 200 | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | 200 | 200 | 200 | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | 210 | 200 | 210 | A | | | | | | | | | | |
| 19 | | | | | | | | | | | | 190 | 190 | 180 | 200 | 200 | | | | | | | | | | |
| 20 | | | | | | | | | | | | | 220 | 200 | | 190 | | | | | | | | | | |
| 21 | | | | | | | | | | | | 190 | 250 | 210 | 200 | 210 | | | | | | | | | | |
| 22 | | | | | | | | | | | | | 180 | 180 | 190 | B | | | | | | | | | | |
| 23 | | | | | | | | | | | | | 200 | 190 | 200 | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | 200 | 200 | 200 | 200 | | | | | | | | | | |
| 25 | | | | | | | | | | | | 190 | 200 | 200 | 180 | 190 | | | | | | | | | | |
| 26 | | | | | | | | | | | | | 200 | 190 | 200 | C | | | | | | | | | | |
| 27 | | | | | | | | | | | | | C | 200 | 200 | 190 | 180 | | | | | | | | | |
| 28 | | | | | | | | | | | | | 200 | 200 | 210 | 200 | | | | | | | | | | |
| 29 | | | | | | | | | | | | | C | C | 190 | 210 | | | | | | | | | | |
| 30 | | | | | | | | | | | | | 200 | 210 | 210 | | | | | | | | | | | |
| 31 | | | | | | | | | | 200 | 200 | BK | BK | BK | BK | BK | | | | | | | | | | |
| MEAN Value | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | | | | 190 | 200 | 200 | 200 | 200 | 200 | 190 | | | | | | | | | | |
| Count | | | | | | | | | 1 | 5 | 15 | 26 | 30 | 27 | 19 | 3 | | | | | | | | | | 2 |

R'F1

Sweep 1.3 Mc to 15.0 Mc in 15 min Manual Automatic

K4

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

f_oE

Dec. 1946

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

f_oE

Sweep 1.3 Mc to 15.0 Mc in 15 min

Manual Automatic

K5

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

IONOSPHERIC DATA

Kokubunji Tokyo

Lat. 35° 42.4' N
Long. 139° 29.3' E

135° E Mean Time

Dec. 1946

f'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 | | | | | | | E | E | A | A | A | 90 | 100 | 100 | 100 | A | 100 | E | | | | | | |
| 2 | | | | | | | E | 140 | A | A | A | 90 | 90 | A | A | A | A | E | | | | | | |
| 3 | | | | | | | E | 130 | A | A | A | 90 | 90 | 90 | 90 | 110 | 100 | E | | | | | | |
| 4 | | | | | | | E | 110 | 110 | 100 ^H | 110 | 90 | 80 | 90 | 90 | 110 | 100 | E | | | | | | |
| 5 | | | | | | | E | B | AF | A | A | 90 | 90 | 90 | 90 | 100 | 110 | E | | | | | | |
| 6 | | | | | | | E | 150 | 100 | 100 | A | 90 | 100 | 100 ^H | 100 | 100 | 100 | E | | | | | | |
| 7 | | | | | | | E | 140 | 110 | 100 | 100 | 100 | 90 | 100 | 100 | 100 | 100 | E | | | | | | |
| 8 | | | | | | | E | 150 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 90 | E | | | | | | |
| 9 | | | | | | | E | E | 110 | 100 | A | 90 | 90 | 90 | 90 | 100 | E | A | | | | | | |
| 10 | | | | | | | E | E | 100 | 100 | 100 | 100 | 100 | 100 | 90 | 90 | 90 | E | | | | | | |
| 11 | | | | | | | E | 130 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 130 | 100 | E | | | | | | |
| 12 | | | | | | | E | 140 | 110 | 110 | 90 | 90 | 90 | 80 | 90 | A | 110 | E | | | | | | |
| 13 | | | | | | | E | E | 90 ^H | 90 | 100 | 100 | 90 | 90 | 90 | 100 | 110 | E | | | | | | |
| 14 | | | | | | | E | E | 110 | 120 | A | A | 110 | 100 | 100 | 100 ^H | 100 ^H | E | | | | | | |
| 15 | | | | | | | E | 130 | E | 90 | 90 | 110 | 100 | 110 | 100 | 100 | 110 | E | | | | | | |
| 16 | | | | | | | E | AE | A | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 ^H | E ^H | | | | | | |
| 17 | | | | | | | E | A | 110 | 100 | 100 | 90 | 100 | 100 | 100 | 90 | 100 ^H | E | | | | | | |
| 18 | | | | | | | E | A | 100 | 100 | 100 ^F | 100 | 100 | 100 | A | 90 | 100 | 90 | | | | | | |
| 19 | | | | | | | E | EH | 100 | 90 | 100 | 90 | 90 | 100 | 100 | 100 | 100 | E | | | | | | |
| 20 | | | | | | | E | EH | 100 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 ^H | E | | | | | | |
| 21 | | | | | | | E | B | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 90 | 100 | E | | | | | | |
| 22 | | | | | | | E | EH | 100 | 90 | 90 | 90 | 90 | 90 | B | 90 ^H | AH | E | | | | | | |
| 23 | | | | | | | E | EH | 100 | 100 | A | 100 | 100 | 100 | 100 | A | 100 | E | | | | | | |
| 24 | | | | | | | E | E | 100 | 100 | 100 | 100 | 100 | 100 ^C | B | B | B | E | | | | | | |
| 25 | | | | | | | E | E | 100 | 100 | 100 | 100 | 100 | 100 | 90 | 90 | 100 | E | | | | | | |
| 26 | | | | | | | E | B | 100 | 100 | 100 | A | A | C | C | C | C | C | | | | | | |
| 27 | | | | | | | E | B | 90 ^H | 90 ^H | 100 ^C | 100 | 90 | 100 | 100 | A | AH | E | | | | | | |
| 28 | | | | | | | C | E | 100 ^H | A | A | A | 100 | A | A | 100 | A | A | | | | | | |
| 29 | | | | | | | E | E | 110 ^H | AH | C | C | 110 | 110 | 110 | A | 100 | 100 | | | | | | |
| 30 | | | | | | | E | E | AH | 100 | A | 100 | A | 100 | A | 100 | 100 | E | | | | | | |
| 31 | | | | | | | E | B | BK | BK | BK | BK | BK | BK | BK | BK | BK | A | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | | 140 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | | |
| Count | | | | | | | | 9 | 23 | 24 | 20 | 26 | 28 | 27 | 22 | 22 | 23 | 20 | | | | | | |

f'F₂

Sweep 1.3 Mc to 15.0 Mc in 1.5 min

Manual Automatic

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

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

fEs

Dec. 1946

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|------------------|------------------|------------------|------------------|-----|-----|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----|-----|-----|-----|------------------|------------------|-----|--|
| 1 | E | E | E | E | E | E | E | 3.1 | 4.0 | 3.7 | 4.1 | 3.6 | 4.3 | 4.3 | 4.8 | 4.3 | 2.4 | E | E | 2.8 | 5.4 | 3.1 | E | 3.1 | |
| 2 | 2.6 | E | 4.4 ^F | 4.0 ^F | 2.8 | 2.8 | 3.6 ^F | 4.7 ^F | 4.2 ^F | 5.2 | 5.2 | 5.3 | 4.6 | 4.9 | 4.9 | 5.2 | 3.2 | 3.4 | E | 4.0 | 4.1 | E | E | E | |
| 3 | E | 2.4 | E | E | E | E | E | 2.8 | 3.0 | 3.5 | 3.6 | 4.7 ^F | 4.7 ^F | 4.7 ^F | 4.7 ^F | 3.0 | 4.7 ^F | 4.2 | 2.9 | E | E | E | E | E | |
| 4 | E | 2.3 | 2.3 | E | E | E | E | 2.3 ^F | 4.7 ^F | 3.4 | 3.1 | 3.1 | 4.7 ^F | 3.5 | 3.0 | 3.1 | 3.2 | 5.2 | 4.2 | 2.2 | E | 3.0 | 2.4 | E | |
| 5 | 2.4 | 2.6 | 2.8 | 1.6 | 1.5 | 4.2 | E | 4.7 ^F | 3.4 ^F | 3.4 | 3.6 | 4.7 ^F | 4.2 | 3.9 | 3.7 | 4.7 ^F | 2.6 | 2.1 | 2.0 | E | E | E | E | E | |
| 6 | E | E | E | E | E | E | E | 4.7 ^F | 3.0 | 4.7 ^F | 4.0 | 4.7 ^F | 3.4 | 3.4 | 3.6 | 3.5 | 4.0 | 2.9 | E | 3.0 | 2.4 | 2.9 | 2.1 | 2.1 | |
| 7 | 2.8 | 2.5 | 2.2 | E | E | E | E | 4.7 ^F | 3.1 | 4.7 ^F | 4.2 | 4.7 ^F | 4.2 | 4.1 | 4.0 | 4.0 | 4.0 | 3.2 | 2.8 | E | E | 4.0 ^F | 3.0 | 2.4 | |
| 8 | 2.6 | 1.9 | E | E | E | E | E | E | 2.8 | 4.7 ^F | 4.7 ^F | 4.7 ^F | 3.2 | 4.7 ^F | 4.7 ^F | 4.7 ^F | 3.5 | 2.9 | 3.1 | E | 2.8 | E | E | E | |
| 9 | E | 2.2 | E | E | 2.1 | E | 2.1 | 2.9 | 3.7 | 6.3 | 3.5 | 3.1 | 4.7 ^F | 3.8 | 4.9 | 3.5 | 2.4 | 4.3 | 2.7 | 3.0 | 3.0 | 4.0 | 2.9 | 2.1 | |
| 10 | E | E | E | E | 2.6 | 2.8 | 2.0 | 4.7 ^F | 4.7 ^F | 3.7 | 4.7 ^F | 5.0 | 5.0 | 4.3 | 4.0 | 3.1 | 4.0 | 2.8 | 3.0 | 2.6 | F | F | E | E | |
| 11 | E | E | E | E | E | E | 2.6 | 2.6 | 3.0 | 4.7 ^F | 4.7 ^F | 4.7 ^F | 4.7 ^F | 4.3 | 4.0 | 4.2 | 3.6 | E | 2.2 | 3.1 | 2.4 | E | 2.4 | 2.5 | |
| 12 | 1.5 | E | 2.0 | E | E | E | E | 4.7 ^F | 4.7 ^F | 5.0 | 4.1 | 4.7 ^F | 3.5 | 4.2 | 3.2 | 3.1 | 3.0 | 2.1 | 3.1 | 3.1 | 1.9 | E | E | E | |
| 13 | E | E | E | E | E | E | E | E | 2.9 | 3.5 | 4.2 | 4.0 | 4.2 | 4.2 | 3.6 | 3.2 | 4.7 ^F | 1.5 | E | E | E | E | E | E | |
| 14 | 2.2 | F | E | E | E | 2.3 | 2.3 | 3.5 | 3.7 | 4.7 ^F | 4.2 | 4.2 | 4.7 ^F | 4.7 ^F | 3.8 | 2.9 | 2.7 | E | E | E | E | E | E | E | |
| 15 | E | E | E | E | E | E | E | 2.8 | 3.4 | 3.6 | 4.7 | 4.7 ^F | 4.4 | 4.7 ^F | 4.7 ^F | 4.7 ^F | 4.7 ^F | 2.4 | 2.8 | 3.0 | E | E | E | E | |
| 16 | E | E | 2.6 | E | 2.8 | E | 2.4 | 3.0 ^F | 3.0 ^F | 3.6 | 4.4 | 4.7 | 4.8 | 4.2 | 3.8 | 3.4 | 4.7 ^F | E | E | E | E | E | E | E | |
| 17 | E | E | E | E | E | E | E | E | 2.7 | 3.0 | 4.7 ^F | 4.6 | 4.8 | 4.9 | 4.1 | 2.8 | 4.7 ^F | E | 2.9 | 1.9 | E | E | E | E | |
| 18 | E | E | 2.3 | 2.2 | E | E | 3.2 | 1.9 | 3.2 | 4.2 | 4.1 | 4.0 | 5.0 | 4.8 | 5.6 | 5.4 ^F | 2.0 | 2.1 | 2.5 | E | 2.3 | 2.2 | E | E | |
| 19 | 1.6 | E | E | E | E | E | E | 4.7 ^F | 3.7 | 4.7 ^F | 4.1 | 4.2 | 4.7 ^F | 4.0 | 3.5 | 4.7 ^F | 4.7 ^F | E | E | E | E | 3.1 ^F | 4.3 | 2.7 | |
| 20 | E | E | E | 2.3 | E | 2.3 | E | E | 4.7 ^F | 4.3 | 4.3 | 4.2 | 4.2 | 4.3 | 3.8 | 3.1 | 2.2 | E | E | 2.2 | E | 2.8 | 2.8 | 2.8 | |
| 21 | E | E | E | 3.6 | 2.8 | E | 2.3 | E | 4.7 ^F | 4.7 ^F | 4.7 ^F | 4.7 ^F | 4.2 | 4.2 | 4.6 | 4.2 | 4.4 | 2.9 | E | E | E | E | E | E | |
| 22 | E | E | E | E | E | E | 2.8 | 2.3 | 3.2 | 3.6 | 4.7 ^F | 4.4 | 3.6 | 4.1 | B | 3.0 | 3.3 | 2.4 | E | E | 2.6 | E | 2.4 | 3.2 | |
| 23 | 1.5 | E | E | E | 2.9 | 3.6 | E | E | 2.2 | 3.0 | 4.2 | 4.7 ^F | 4.2 | 4.7 ^F | 4.6 | 3.8 | 4.7 ^F | E | 2.8 | E | E | E | E | E | |
| 24 | E | E | E | E | E | E | E | E | 2.1 | 3.5 | 4.7 ^F | 4.7 ^F | C | 4.7 ^F | 4.0 | 3.0 | E | 3.1 | E | E | E | E | E | 2.9 | |
| 25 | E | E | 2.7 | 3.6 | 2.9 | 2.1 | 2.9 | 3.1 | 2.9 | 4.7 ^F | 4.7 ^F | 4.7 ^F | 4.7 ^F | 4.7 ^F | 3.7 | 3.0 | 4.7 ^F | 2.9 | E | 3.0 | 2.0 | E | E | E | |
| 26 | E | E | E | E | E | E | E | E | 4.7 ^F | 4.7 ^F | 4.1 | 3.9 | 4.1 | C | C | C | C | C | 1.9 | 2.0 | C | C | E | E | |
| 27 | E | E | E | E | E | E | E | E | 2.8 | 3.3 | C | 4.7 ^F | 4.1 | 4.7 ^F | 3.5 | 3.0 | 2.8 | 2.6 | 2.2 | 1.8 | 7.1 | 5.0 | 5.0 | 4.1 | |
| 28 | 3.2 | E | E | 2.5 | 2.5 | E | C | E | 3.0 | 3.5 | 4.0 | 4.0 | 4.7 ^F | 4.0 | 4.0 | 2.9 | 3.2 | 3.2 | 5.6 | 5.2 | 2.8 | 2.2 | E | E | |
| 29 | E | E | E | E | E | E | E | E | 4.7 ^F | 4.7 ^F | C | C | 4.1 | 4.3 | 4.2 | 3.6 | 4.7 ^F | 2.8 | 2.3 | E | 3.0 | 2.9 | E | 2.1 | |
| 30 | 3.1 ^F | 3.0 ^F | E | E | E | E | E | E | 2.9 | 4.7 ^F | 4.5 | 4.7 | 4.2 | 4.7 ^F | 4.0 | 3.1 | 4.7 ^F | E | E | 2.2 | E | E | E | 2.1 | |
| 31 | E | E | E | E | E | E | E | E | B | B | B | B | B | B | B | B | B | 2.5 | 2.4 | 3.0 | E | 2.2 | 2.1 ^F | E | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | E | E | E | E | E | E | E | 4.7 ^F | 3.0 | 3.4 | 4.0 | 3.1 | 4.1 | 3.9 | 3.9 | 3.1 | 2.4 | 2.5 | 2.2 | 1.9 | E | E | E | E | |
| Count | 31 | 31 | 31 | 31 | 31 | 31 | 30 | 31 | 30 | 30 | 28 | 29 | 29 | 29 | 28 | 29 | 29 | 30 | 31 | 31 | 30 | 30 | 31 | 31 | |

fEs

Sweep 1.3 Mc to 15.0 Mc in 1.5 min

Manual Automatic

K 7

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

IONOSPHERIC DATA

Kokubunji Tokyo

Lat. 35° 42.4' N
Long. 139° 28.3' E

Dec. 1946

(M3000)F2

135° E Mean Time

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

(M3000)F2

Sweep 1.3 Mc to 15.0 Mc in 15 min

Manual Automatic

K8

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

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

IONOSPHERIC DATA

135° E Mean Time

fminF

Dec. 1946

| 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 | 1.5 | 1.8 | 1.5 | 1.5 | 1.5 | 1.8 | 2.0 | 3.7 | 3.7 | 3.6 | 3.5 | 3.4 | 3.4 | 2.9 | 2.2 | 1.4 | 1.4 | 1.4 | 1.8 | E | 1.4 | E | |
| 2 | E | E | A | E | 1.8 | 1.5 | 1.5 | 2.0 | 2.2 | 2.6 | A | 3.8 | 3.6 | 3.8 | 3.7 | 2.6 | 2.2 | 2.6 | 1.4 | 1.4 | 1.5 | 1.5 | 1.4 | 1.4 | |
| 3 | 1.4 | 1.5 | E | E | E | E | 1.4 | 2.0 | 2.7 | 3.1 | 3.4 | 3.7 | 3.7 | 3.5 | 3.3 | 2.7 | 2.4 | 1.6 | 1.7 | 1.4 | 1.5 | 1.4 | 1.5 | 1.4 | |
| 4 | 1.4 | E | E | E | E | E | E | 1.9 | 2.6 | 2.9 | 3.8 | 3.8 | 3.7 | 3.5 | 3.7 | 3.3 | 2.1 | 4.2 | 2.0 | 1.5 | 1.8 | 1.8 | 1.4 | 1.4 | |
| 5 | E | 1.7 | 1.4 | 1.5 | E | E | E | 1.9 | 2.8 | 3.2 | 3.4 | 3.5 | 3.4 | 3.4 | 3.7 | 2.8 | 2.7 | 1.7 | 1.6 | 1.5 | 1.5 | 1.5 | 1.6 | 1.7 | |
| 6 | E | 1.4 | 1.5 | E | E | E | E | 1.5 | 2.5 | 2.9 | 3.4 | 3.6 | 3.7 | 3.7 | 3.7 | 2.8 | 2.2 | 1.5 | 1.5 | 1.6 | 1.5 | 1.7 | 1.7 | 1.4 | |
| 7 | 1.5 | 1.5 | E | E | E | E | E | 2.1 | 2.8 | 3.1 | 3.4 | 3.5 | 3.5 | 3.5 | 3.2 | 2.9 | 2.4 | 1.5 | 2.3 | 1.4 | 1.4 | 1.4 | 1.5 | 1.5 | |
| 8 | 1.4 | E | E | E | E | E | E | 2.0 | 2.9 | 3.2 | 3.4 | 3.6 | 3.8 | 3.8 | 3.5 | 3.2 | 2.7 | 2.5 | 2.5 | 1.5 | 1.4 | 1.4 | 1.5 | 1.5 | |
| 9 | 1.5 | 1.4 | E | E | E | E | E | 1.9 | 2.9 | 3.2 | 3.4 | 3.7 | 3.8 | 3.4 | 3.4 | 3.0 | 1.7 | 2.6 | 1.5 | 1.5 | 1.5 | 2.6 | 2.0 | 1.5 | |
| 10 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.8 | 2.7 | 3.2 | 3.4 | 3.8 | 4.5 | 3.6 | 3.5 | 3.2 | 2.7 | 1.8 | 1.8 | 1.9 | 1.8 | 1.5 | 1.5 | 1.8 | |
| 11 | 1.7 | 1.8 | 1.5 | 1.8 | 1.6 | 1.6 | 1.5 | 2.1 | 2.8 | 2.6 | 3.4 | 3.8 | 3.7 | 3.8 | 3.6 | 3.0 | 2.4 | 1.6 | 1.8 | 1.5 | 1.6 | 1.5 | 1.6 | 1.5 | |
| 12 | 1.4 | 1.4 | 1.4 | 1.4 | 1.5 | 1.4 | 1.5 | 1.8 | 2.0 | 2.3 | 3.7 | 3.8 | 3.7 | 3.4 | 3.2 | 3.0 | 2.5 | 1.6 | 1.8 | 2.0 | 1.5 | 1.5 | 1.5 | 1.4 | |
| 13 | 1.4 | 1.4 | E | 1.4 | 1.4 | 1.4 | 1.4 | 2.3 | 2.7 | 3.4 | 3.8 | 3.4 | 3.6 | 3.6 | 3.4 | 2.4 | 2.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | |
| 14 | 1.5 | 1.5 | 1.5 | 1.6 | 1.4 | 1.4 | 1.5 | 1.8 | 2.9 | 3.4 | 2.8 | 3.0 | 3.8 | 3.6 | 3.2 | 2.8 | 2.2 | 2.0 | 2.0 | 1.6 | 2.0 | 1.6 | 1.6 | 1.5 | |
| 15 | 1.8 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.5 | 1.8 | 2.6 | 3.2 | 3.9 | 3.8 | 3.9 | 3.5 | 3.6 | 3.4 | 2.5 | 1.7 | 1.5 | 2.7 | 1.6 | 1.5 | 1.5 | 1.5 | |
| 16 | 1.5 | 1.4 | 1.4 | 1.4 | 1.5 | 1.6 | 2.0 | 2.6 | 3.4 | 3.7 | 4.2 | 3.9 | 3.9 | 3.5 | 3.5 | 3.2 | 2.5 | 1.8 | 1.5 | 1.5 | 1.5 | 1.6 | 1.5 | 1.5 | |
| 17 | 1.4 | 1.6 | 1.4 | 1.7 | 1.4 | 1.5 | 1.4 | 3.0 | 3.4 | 3.8 | 3.7 | 3.7 | 3.7 | 3.7 | 3.5 | 3.3 | 2.5 | 1.7 | 1.5 | 1.5 | 1.6 | 1.5 | 1.5 | 1.5 | |
| 18 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.9 | 2.6 | 3.2 | 3.5 | 3.8 | 3.8 | 3.8 | 4.2 | 4.4 | 3.4 | 2.5 | 1.5 | 1.9 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | |
| 19 | 1.5 | 1.5 | 1.6 | 1.4 | 1.4 | 1.4 | 1.5 | 1.9 | 3.0 | 3.2 | 3.6 | 3.7 | 3.9 | 3.8 | 3.4 | 3.2 | 2.4 | 1.8 | 1.5 | 1.5 | 1.8 | 1.7 | 1.6 | 1.5 | |
| 20 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | 1.5 | 1.7 | 3.5 | 3.5 | 3.5 | 3.7 | 3.7 | 3.9 | 3.3 | 3.0 | 2.4 | 1.5 | 1.5 | 1.8 | 1.5 | 1.5 | 1.8 | 1.8 | |
| 21 | 1.4 | 1.4 | 1.4 | 2.0 | 1.4 | 1.4 | 1.4 | 2.0 | 2.7 | 3.0 | 3.6 | 3.9 | 4.3 | 3.8 | 3.6 | 3.5 | 2.7 | 1.8 | 1.8 | 1.8 | 1.6 | 1.7 | 1.5 | 1.5 | |
| 22 | 1.5 | 1.4 | 1.9 | 1.9 | 1.9 | 1.9 | 1.7 | 1.8 | 2.7 | 3.2 | 3.5 | 3.8 | 3.7 | 3.6 | 4.7 | 3.4 | 2.6 | 1.8 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | |
| 23 | 1.4 | 1.4 | 1.8 | 1.4 | 1.5 | 1.5 | 1.4 | 2.0 | 2.5 | 3.4 | 3.4 | 3.8 | 3.8 | 3.8 | 3.8 | 3.4 | 2.6 | 1.7 | 1.8 | 1.7 | 1.6 | 2.0 | 1.7 | 1.8 | |
| 24 | 1.5 | 1.8 | 1.4 | E | E | E | E | 1.5 | 2.5 | 3.1 | 3.6 | 3.8 | [28] ^c | 3.8 | 3.6 | 3.5 | 2.7 | 2.6 | 1.5 | 1.5 | 1.8 | 1.7 | 1.6 | 1.8 | |
| 25 | 1.5 | 1.5 | 1.5 | 1.4 | 1.7 | 1.4 | 1.5 | 1.7 | 2.7 | 3.2 | 3.5 | 3.5 | 3.9 | 3.4 | 3.3 | 3.4 | 2.6 | 1.6 | 1.8 | 1.8 | 1.5 | 1.5 | 1.7 | 1.5 | |
| 26 | 1.4 | 1.4 | 1.4 | 1.5 | 1.5 | 1.7 | 2.0 | 2.6 | 2.6 | 3.4 | 3.4 | 3.9 | 3.6 | C | C | C | C | C | 1.8 | 1.9 | C | C | 1.8 | 1.8 | |
| 27 | 1.6 | 1.5 | 1.5 | 1.8 | 1.5 | 1.5 | 1.7 | 1.8 | 2.7 | 3.4 | [3.6] ^c | 3.5 | 4.0 | 3.6 | 3.5 | 3.1 | 2.6 | 1.8 | 1.6 | 1.6 | A | A | A | 2.0 | |
| 28 | 1.8 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | [1.5] | 1.5 | 2.7 | 2.9 | 3.4 | 3.6 | 3.6 | 3.6 | 3.4 | 2.8 | 2.9 | 2.4 | 3.8 | 5.2 | 1.6 | 1.6 | 1.6 | 1.8 | |
| 29 | 1.9 | 1.8 | 1.8 | 1.5 | 1.5 | 1.5 | 1.5 | 1.6 | 2.7 | 3.2 | C | C | 3.5 | 3.6 | 3.6 | 3.4 | 2.8 | 1.8 | 1.6 | 1.7 | 1.8 | 1.8 | 1.6 | 1.6 | |
| 30 | 1.6 | 1.6 | 1.5 | 1.5 | 1.6 | 1.5 | 1.6 | 1.8 | 2.5 | 3.2 | 3.6 | 3.6 | 3.6 | 3.5 | 3.5 | 3.1 | 2.5 | 1.8 | 1.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | |
| 31 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.8 | 2.6 | 4.0 | 3.7 | 6.1 | 5.3 | 5.0 | 4.7 | 4.7 | 3.7 | 1.8 | 1.8 | 1.8 | 2.0 | 1.6 | 1.8 | 1.6 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.5 | 1.9 | 2.7 | 3.2 | 3.5 | 3.7 | 3.7 | 3.6 | 3.5 | 3.2 | 2.5 | 1.8 | 1.7 | 1.6 | 1.6 | 1.5 | 1.6 | 1.5 | |
| Count | 31 | 31 | 30 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 29 | 30 | 31 | 30 | 30 | 30 | 30 | 30 | 30 | 31 | 30 | 29 | 29 | 31 | |

fminF

Sweep 1.3 Mc to 15.0 Mc in 1.5 min

Manual Automatic

K9

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

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

IONOSPHERIC DATA

Dec. 1946

f_{min}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 | E | E | 1.5 | 1.4 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.9 | 1.7 | 1.4 | E | E | E | E | 1.8 | E | 2.0 | |
| 2 | 2.0 | E | E | E | E | E | E | 1.4 | 1.4 | 1.5 | 1.6 | 1.7 | 1.6 | 1.7 | 1.7 | 1.5 | 1.5 | 1.5 | E | 1.8 | 1.5 | E | E | E | |
| 3 | E | 1.5 | E | E | E | E | E | 1.4 | 1.4 | 1.5 | 1.9 | 1.9 | 2.1 | 2.0 | 1.5 | 1.4 | 1.4 | 1.4 | 2.0 | E | E | E | E | E | |
| 4 | E | E | 1.5 | E | E | E | E | 1.4 | 1.6 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.5 | 1.5 | 1.4 | 1.8 | 1.4 | 1.4 | E | 1.4 | 1.5 | E | |
| 5 | E | 1.5 | 1.4 | 1.4 | 1.4 | 2.4 | E | 1.4 | E | 1.5 | 1.4 | 1.4 | 1.4 | 1.6 | 1.5 | 1.7 | 1.7 | 1.9 | 1.9 | E | E | E | E | E | |
| 6 | E | E | E | E | E | E | 1.7 | 1.4 | 1.5 | 1.5 | 1.7 | 1.5 | 2.6 | 2.2 | 1.8 | 1.7 | 1.6 | 2.0 | E | 1.4 | 2.0 | 1.6 | 1.9 | 2.0 | |
| 7 | 1.8 | 2.0 | E | E | E | E | E | 1.4 | 1.5 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.5 | 1.4 | 1.4 | E | E | 1.4 | 1.5 | 1.5 | |
| 8 | 1.4 | 1.5 | E | E | E | E | E | 1.5 | 1.6 | 1.7 | 2.2 | 2.0 | 2.6 | 2.3 | 2.1 | 2.2 | 1.7 | 2.1 | 2.0 | E | 1.4 | E | E | E | |
| 9 | E | 2.2 | E | 2.1 | E | 2.0 | 1.5 | 1.4 | 1.5 | 1.7 | 1.7 | 2.2 | 1.7 | 1.7 | 1.5 | 1.4 | 1.4 | 1.6 | 1.4 | 1.4 | 2.0 | 1.5 | 1.5 | 2.0 | |
| 10 | E | E | E | E | 2.2 | 2.4 | 1.8 | 1.5 | 1.8 | 1.8 | 2.3 | 2.4 | 2.0 | 1.9 | 1.8 | 1.8 | 1.6 | 1.4 | 1.8 | 1.5 | E | E | E | E | |
| 11 | E | E | E | 2.4 | E | E | 1.5 | 1.6 | 1.5 | 1.8 | 1.8 | 2.1 | 2.4 | 2.0 | 1.9 | 1.5 | 1.5 | 1.6 | 1.8 | 1.5 | 2.1 | E | 2.1 | 1.5 | |
| 12 | 1.4 | E | 1.4 | E | E | E | E | 1.5 | 1.5 | 1.6 | 1.8 | 2.0 | 2.0 | 1.8 | 1.8 | 2.0 | 1.7 | 2.0 | 1.4 | 1.5 | 1.5 | 1.5 | E | E | |
| 13 | E | E | E | E | E | E | E | 1.5 | 1.5 | 1.5 | 1.7 | 1.8 | 2.8 | 1.6 | 1.5 | 1.6 | 1.4 | 1.4 | E | 1.5 | E | E | E | E | |
| 14 | 2.1 | E | E | E | E | 2.0 | 2.1 | 2.0 | 1.5 | 1.8 | 1.7 | 1.8 | 1.9 | 2.3 | 1.9 | 1.8 | 1.8 | 1.8 | E | E | E | E | E | E | |
| 15 | E | E | E | E | E | E | E | 1.5 | 1.5 | 1.6 | 1.8 | 2.0 | 1.5 | 2.0 | 1.8 | 1.9 | 1.5 | 1.5 | 2.2 | 2.7 | E | E | E | E | |
| 16 | E | E | E | 2.4 | 2.4 | E | 2.0 | 1.5 | 1.5 | 2.0 | 1.8 | 1.9 | 1.9 | 1.9 | 1.8 | 1.7 | 1.8 | 1.5 | E | E | E | E | E | E | |
| 17 | E | E | E | E | E | E | E | 1.5 | 1.8 | 3.0 | 2.0 | 1.9 | 2.3 | 2.0 | 2.0 | 1.7 | 1.7 | E | 1.5 | 1.8 | E | E | E | E | |
| 18 | E | E | 2.1 | 1.8 | E | E | 1.9 | 1.5 | 1.5 | 1.5 | 1.9 | 2.0 | 1.9 | 2.0 | 1.9 | 1.8 | 1.6 | 2.0 | 1.5 | E | 1.6 | 2.0 | E | E | |
| 19 | 1.5 | E | E | E | E | E | E | 1.6 | 1.5 | 1.8 | 1.8 | 2.0 | 2.4 | 2.0 | 1.8 | 1.8 | 1.8 | E | E | E | E | 1.5 | 1.5 | 1.8 | |
| 20 | E | E | E | 1.9 | E | 2.0 | E | 1.4 | 1.8 | 1.8 | 1.8 | 2.0 | 1.9 | 2.0 | 2.3 | 1.8 | 1.6 | E | E | 2.1 | E | 1.5 | 1.7 | 1.5 | |
| 21 | E | E | E | 1.5 | 1.8 | E | 1.9 | 1.8 | 1.6 | 2.0 | 1.9 | 2.2 | 2.3 | 2.1 | 1.8 | 1.6 | 1.7 | 1.5 | E | E | E | E | E | E | |
| 22 | E | E | E | E | E | E | E | 1.4 | 2.0 | 1.8 | 2.0 | 2.2 | 1.8 | 2.0 | B | 1.5 | 1.4 | E | E | E | E | E | 1.4 | 1.4 | |
| 23 | 1.4 | E | E | E | E | 1.8 | E | 1.4 | 1.8 | E | 1.5 | 2.0 | 2.4 | 2.0 | 2.0 | 2.0 | 1.8 | E | 2.5 | E | E | E | E | E | |
| 24 | E | E | E | E | E | E | E | 1.8 | 2.0 | 2.6 | 2.6 | [2.6] ^c | 2.5 | 2.8 | 2.9 | E | 2.6 | E | E | E | E | E | E | 2.6 | |
| 25 | E | E | 2.6 | 1.4 | 1.4 | 2.0 | E | 2.0 | 1.8 | 1.9 | 1.9 | 2.1 | 2.7 | 1.6 | 1.5 | 1.5 | 1.5 | 2.0 | E | 2.0 | 1.5 | E | E | E | |
| 26 | E | E | E | E | E | E | E | E | 1.6 | 1.6 | 1.8 | 1.9 | 1.8 | C | C | C | C | C | 1.8 | 1.8 | C | C | E | E | |
| 27 | E | E | E | 1.4 | 1.4 | E | E | E | 1.6 | 1.6 | 1.8 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.1 | 1.9 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | |
| 28 | 1.6 | E | E | E | E | E | E | E | 1.5 | 1.8 | 2.0 | 2.0 | 2.2 | 2.0 | 1.9 | 2.0 | 1.8 | 1.5 | 1.8 | 1.6 | 2.0 | 2.0 | E | E | |
| 29 | E | E | E | E | E | E | E | E | 1.8 | 1.8 | C | C | 2.0 | 2.0 | 2.0 | 2.0 | 1.9 | 1.5 | 1.9 | E | 1.8 | 1.8 | E | 2.0 | |
| 30 | 2.0 | 1.6 | E | E | E | E | E | E | 1.7 | 1.8 | 1.8 | 2.6 | 2.6 | 2.6 | 2.6 | 2.2 | 1.9 | E | E | 2.0 | E | E | E | 1.9 | |
| 31 | E | E | E | E | E | E | E | E | B | B | B | B | B | B | B | B | B | 1.8 | 2.0 | 1.6 | E | 1.9 | 1.9 | E | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | E | E | E | E | E | E | E | 1.5 | 1.5 | 1.8 | 1.8 | 2.0 | 2.0 | 2.0 | 1.8 | 1.7 | 1.6 | 1.5 | 1.4 | 1.4 | E | E | E | E | |
| Count | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 0 | 2 | 9 | 3 | 0 | 2 | 9 | 2 | 9 | 3 | 1 | 3 | 0 | 3 | 1 | 3 |

f_{min}E

freq. 1.3 Mc to 15.0 Mc in 1.5 min

Manual

Automatic

K10

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

Lat. 31° 12.6' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

135° E Mean Time

Dec. 1946

f_oF₂

| 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 4.4 | 4.1 | 3.6 | 3.4 | 3.6 | 3.3 | 2.9 | 6.8 ^p | 8.6 ^p | 7.8 ^p | 7.5 ^p | C | C | C | 7.0 ^p | 6.2 ^p | 10.3 ^p | C | 6.8 | (5.5) ^s | 5.7 | 5.9 | 3.5 | | |
| 11 | (3.5) ^c | 3.4 ^s | 3.4 | 3.3 ^s | C | C | 4.9 | 8.0 ^p | 6.8 | [9.2] ^p | 11.5 ^p | 8.8 ^p | 8.8 ^p | 11.1 ^p | 11.5 ^p | 11.0 | 11.1 | 8.0 | 7.0 | 6.9 | 5.2 ^p | 6.4 | 4.6 | 4.1 | |
| 12 | 3.5 | 3.3 | 3.2 | 3.3 | 3.5 | 3.5 | 3.4 | 5.7 ^j | 9.5 ^p | (11.4) | 10.8 ^p | C | C | C | C | 7.4 | 6.6 | 6.2 ^p | 6.7 ^p | 5.1 ^p | 7.2 ^p | 6.0 ^p | 5.9 | 5.0 | |
| 13 | 5.5 | 5.6 | 4.3 | 4.1 | 4.1 | 4.3 | (4.4) | 6.4 | C | 7.8 ^p | 6.9 ^p | 7.4 | 9.2 ^p | C | 7.5 ^p | 7.1 ^p | C | C | C | C | 6.9 ^p | 6.4 | 4.6 | 4.0 | |
| 14 | 3.7 | 3.4 | 3.4 | 3.4 | 3.3 | 3.1 | 3.2 | C | 6.9 ^p | 7.1 ^p | 6.8 ^p | 7.0 | 6.8 ^p | 6.8 ^p | 6.8 ^p | 6.9 ^p | 6.6 ^p | 6.9 ^p | 7.8 ^p | 6.9 ^p | (6.8) | 6.8 | 5.6 | 4.4 | |
| 15 | (4.5) | (4.5) | 4.1 | 3.3 | (3.5) | 3.1 | 2.8 | 6.3 | 6.9 | 7.6 | 6.9 | 6.9 | 7.0 | C | C | C | C | C | C | 5.9 ^s | 5.1 ^s | 5.5 ^s | 4.9 | | |
| 16 | 5.1 ^j | 5.1 ^p | 5.0 | 4.1 | 3.4 | 3.6 | 3.5 | 4.9 | C | C | C | C | C | C | C | C | C | C | 6.8 ^p | 6.6 ^p | C | 7.0 ^p | 6.7 ^p | 5.1 | |
| 17 | 4.2 | 4.1 | 4.4 | 4.1 | 3.6 | 3.2 | 2.9 | 6.1 | 7.2 ^p | 6.7 ^p | 7.3 ^p | 7.1 ^p | 7.2 ^p | 7.2 ^p | C | C | 7.3 ^p | 7.2 ^p | 7.2 | 6.6 | 5.4 | 5.7 | 6.2 | 4.4 | |
| 18 | 4.1 | 5.1 ^p | 4.8 | 4.3 | 3.9 | 2.9 | 3.1 | 6.6 ^p | 7.1 ^p | 7.3 ^p | 7.2 ^p | 7.1 ^p | 7.1 ^p | 7.2 ^p | 6.9 ^p | 7.1 ^p | 7.1 ^p | 7.7 ^p | 6.6 | 6.9 | 5.7 | 6.2 | 6.7 | 5.1 | |
| 19 | 4.8 | (4.5) ^s | (4.5) ^s | 4.5 | 4.2 | 2.7 | 2.7 | 6.2 | 7.2 ^p | 7.2 ^p | 7.3 ^p | 7.4 | C | C | 7.3 ^p | 7.3 ^p | 7.2 ^p | 6.6 ^p | 7.1 ^p | 7.3 | 6.6 | 7.2 | 6.1 | 6.2 | 5.5 ^p |
| 20 | 5.6 ^p | 5.7 ^p | 5.7 | 5.1 | 4.5 | 3.2 | 3.9 | 6.1 ^p | 7.1 ^p | 7.2 ^p | 7.4 | 7.7 ^p | 7.1 ^p | 7.1 ^p | 7.2 ^p | 7.2 ^p | 7.2 ^p | 6.6 ^p | 6.2 ^p | 7.1 | 6.7 | 6.9 | 6.6 | 6.4 | 5.5 ^p |
| 21 | 4.8 | 4.7 | 4.2 | 3.9 | 4.0 | 3.2 | 2.7 | 6.3 | 7.7 ^p | 7.3 ^p | 7.5 ^p | 7.4 ^p | 7.4 ^p | 7.4 ^p | 7.5 ^p | 7.5 ^p | 7.5 ^p | 7.5 ^p | 7.5 ^p | 7.0 ^p | 6.9 | 7.2 | (6.8) | 6.8 | (5.0) |
| 22 | 3.1 | 2.9 | 3.1 | 3.4 | 3.7 | 2.3 | 2.5 | 6.8 | 6.6 ^p | 7.4 ^p | 7.4 ^p | 7.5 ^p | 7.4 ^p | 7.5 ^p | 7.3 ^p | C | 7.5 ^p | 7.4 ^p | 7.3 ^p | 7.3 | 6.9 ^p | 5.8 ^s | 5.5 | 5.0 | |
| 23 | 4.7 | 5.0 | 4.3 | 3.6 | 3.2 | 3.3 | 3.1 | 5.9 ^p | 7.3 ^p | 7.3 ^p | 7.5 ^p | 7.5 ^p | 7.5 ^p | 7.5 ^p | 7.3 ^p | 7.5 ^p | C | C | C | C | (6.8) | 7.1 ^p | 5.9 | 4.4 | |
| 24 | (4.5) ^B | B | 4.8 | 3.3 | 3.2 | 3.7 | 3.1 | 7.2 ^p | 7.4 ^p | 7.5 ^p | 7.5 ^p | 7.5 ^p | 7.4 ^p | 7.8 ^p | 7.8 ^p | 7.8 ^p | 6.9 ^p | 6.9 ^p | 5.7 ^p | 7.4 ^p | 6.8 ^j | (7.4) | 5.7 ^j | 4.6 | |
| 25 | 4.4 | 4.7 | 4.0 | 3.6 | 3.2 | 2.8 | 2.6 | 5.4 | 7.5 ^p | 7.5 ^p | 7.5 ^p | 7.5 ^p | 7.5 ^p | C | 12.0 | 12.1 | 10.8 | 10.2 | 7.9 ^s | 7.3 | 6.0 | 6.2 | C | C | |
| 26 | C | 3.9 | 3.8 | 4.0 | 3.6 | 3.1 | 2.7 | 5.4 | 9.6 | C | C | 11.3 | 11.5 ^c | 11.7 | 12.0 | (11.4) | (10.9) | 9.5 | 9.1 | 7.5 | 7.2 | 7.3 | 6.8 | 4.6 | |
| 27 | (4.6) | 5.3 | 5.6 | 5.1 | 4.9 | 5.0 | 6.1 | C | C | C | 11.5 | 12.2 | 12.0 | 12.0 | 11.9 | (11.8) ^s | 11.1 | (10.2) | 9.3 | (7.7) | 6.4 | 4.7 ^j | 3.8 | 3.4 | |
| 28 | 3.6 | 3.5 | 4.4 | 3.5 | 3.4 | 2.9 | 3.0 | (5.4) | 9.7 ^s | 10.6 | 9.5 ^s | 13.5 | 13.5 | 13.8 | (13.2) | 11.0 | 11.0 | 9.8 | 10.2 ^s | 9.2 | 7.7 | 7.7 | 5.2 | 3.7 | |
| 29 | 3.3 | 3.3 | 3.6 | C | C | C | C | C | C | C | C | C | 12.4 | (12.7) | 13.0 | 14.0 | (13.8) | (10.6) | 9.0 | 7.0 | 7.6 | 7.3 | 4.6 | 3.3 | |
| 30 | 3.0 | 3.4 | 3.8 | 3.5 | 3.6 | 3.1 | 3.1 | 5.2 | (10.4) | 11.3 | 11.5 ^s | 10.3 | (11.8) | (13.2) | (10.2) | 11.5 | (11.2) ^j | (11.3) | 9.2 | 8.6 | 10.0 ^j | 9.2 | 6.5 | 3.6 | |
| 31 | 3.4 | 3.5 | 3.4 | 3.4 | 3.4 | 3.0 | 3.0 | 5.3 | 8.5 | 10.2 | (11.5) | 11.0 | B | 11.7 | 12.9 | 13.4 | 12.9 | (11.1) ^s | 8.7 | 8.5 | 7.7 | 7.4 | 5.8 | 3.8 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 4.4 | 3.9 | 4.2 | 3.6 | 3.6 | 3.2 | 3.1 | 6.2 | D | D | D | D | D | D | D | D | D | D | D | D | D | D | 7.4 | 5.9 | 4.4 |
| Count | 21 | 21 | 22 | 21 | 21 | 20 | 20 | 19 | 18 | 18 | 19 | 19 | 18 | 15 | 18 | 18 | 18 | 19 | 17 | 18 | 19 | 21 | 22 | 21 | 21 |

f_oF₂

Manual Automatic

Sweep 2.0 Mc to _____ Mc in 1.5 min

Observation began at Dec. 10th 1946.

Y 1

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

Lat. 31° 12.5' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

135° E Mean Time

Dec. 1946

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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 280 | 300 | 310 | 320 | 320 | 280 | 300 | 280 | 280 | 210 | 200 | 220 | C | C | 260 | 280 | 200 ^H | S | C | 260 | 230 | 260 | 250 | 350 | |
| 11 | 380 ^C | 350 | 380 | 360 | 240 | C | C | C | 260 | 220 | [220] ^C | 220 ^H | 220 | 270 | 250 | 260 | 250 | 220 | 200 | 200 | 210 | 260 | 260 | 280 | |
| 12 | 300 | 320 | 380 | 390 | 380 | 300 | 350 | 300 | 230 | 260 | 260 | C | C | C | C | B | C | 240 | 200 | 240 | 210 | 200 | 270 | 290 | |
| 13 | 230 | 270 | 300 | 380 | 370 | 350 | 350 | 280 | C | 260 | 230 | 270 | 270 | [260] ^C | 250 | 240 | C | C | C | C | C | 250 | 240 | 300 | |
| 14 | 350 | 350 | 340 | 300 | 300 | 380 | 370 | C | C | 260 | 260 | 260 | 250 | 280 | 230 | 280 | 220 | 220 | [220] ^C | 220 | 240 | 220 | 260 | 250 | |
| 15 | 320 | 290 | 310 | 320 | 340 | 330 | 290 | 280 | 230 | [240] ^C | 240 | 240 | 240 | C | C | C | C | C | C | C | 210 | 210 | 240 ^H | 300 | |
| 16 | 330 | 300 | 280 | 290 | 320 | 340 | 300 | 290 | C | C | C | C | C | C | C | C | C | C | C | 260 | 250 | 240 | 230 | 270 | |
| 17 | 310 | 370 | 300 | 280 | 300 | 310 | 300 | 300 | 250 | 250 | 260 | 250 | 280 | 260 | C | C | C | 280 | 230 | 210 | 220 | 280 | 240 | 300 | |
| 18 | 350 | 320 | 280 | 280 | 280 | 310 | 380 | 270 | 240 | 240 | 270 | 260 | 280 | [280] ^C | 270 | 240 | 230 | 220 | 220 | 230 | 240 | 280 | 280 | 280 | |
| 19 | 310 | 350 | 320 | 300 | 270 | 360 | 360 | 300 | 250 | 240 | 260 | 240 | 250 | [230] ^C | 200 | [220] ^C | 230 | 220 | 210 ^H | 260 | 220 | 200 | 230 | 310 | |
| 20 | 340 | 310 | 250 | 210 | 280 | 400 | 400 | 280 | 280 | 240 | 200 | 280 | 260 | 250 | 230 | 240 | 260 | 230 | 220 | 220 | 210 | 280 | 280 | C | |
| 21 | 300 | 280 | 280 | 260 | 250 | 260 | 280 | 250 | 230 | 220 | 260 | 250 | 280 | 240 | 280 | 240 | 240 | 240 | 220 | 210 | 220 | 240 | 240 | 210 | |
| 22 | 320 | 420 | 400 | 250 | 290 | 250 | 400 | 290 | 200 | 200 | 250 | 270 | 240 | 260 | 280 | [260] ^C | 240 | 240 | 180 | 230 | 220 | 240 | 250 | 290 | |
| 23 | 310 | 290 | 260 | 330 | 280 | 330 | 330 | 280 | 250 | 250 | 250 | 220 | 220 | 280 | 240 | 240 | 240 | C | C | C | 280 | 230 | 240 | 300 | |
| 24 | 370 | 290 | 250 | 400 | 280 | 360 | 360 | 280 | 210 | 250 | [250] ^C | 240 | 240 | 260 | 250 | 250 | 240 | 220 | 220 | 230 | 250 | 260 | 250 | 240 | |
| 25 | 300 | 290 | 290 | 300 | 300 | 400 | 400 | 300 | 240 | 220 | 230 | 230 | 280 | [280] ^C | 280 | 260 | 220 | 200 | 220 | 220 | 210 | 200 | C | C | |
| 26 | C | 320 | 310 | 300 | 280 | 300 | 280 | 300 | 240 | 260 | [240] ^C | 220 | 250 | 280 | 300 | 260 | 240 | 240 | 200 | 230 | 250 | 240 | 240 | 350 | |
| 27 | 270 | 320 | 290 | 290 | 300 | 300 | 300 | C | C | C | 250 | 270 | 270 | 260 | 260 | 250 | 260 | 240 | 240 | 220 | 220 | 230 | 180 | 380 | |
| 28 | 380 | 320 | 280 | 280 | 320 | 280 | 370 | 290 | 230 | 250 | 270 | 250 | 260 | 240 | 250 | 260 | 250 | 210 | 230 | 230 | 210 | 230 | 220 | 240 | |
| 29 | 380 | 370 | 330 | 320 | C | C | C | C | C | C | C | C | 240 | 250 | 280 | 270 | 280 | 210 | 220 | 210 | 250 | 210 | 220 | 320 | |
| 30 | 400 | 390 | 290 | 290 | 310 | 340 | 380 | 290 | 230 | 220 | 240 | 240 | 240 | 250 | 280 | 230 | 250 | 220 | 200 | 200 | 200 | 210 | 210 | 240 | |
| 31 | 380 | 340 | 360 | 360 | 290 | 290 | 300 | 270 | 240 | 230 | 240 | 250 | 280 | 280 | 260 | 260 | 230 | 220 | 210 | 240 | 230 | 220 | 200 | 210 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 330 | 320 | 300 | 300 | 300 | 310 | 350 | 290 | 240 | 240 | 250 | 250 | 260 | 260 | 260 | 260 | 240 | 220 | 220 | 220 | 230 | 230 | 240 | 290 | |
| Count | 21 | 22 | 22 | 22 | 21 | 20 | 20 | 18 | 17 | 19 | 20 | 19 | 19 | 18 | 18 | 18 | 18 | 17 | 18 | 19 | 22 | 22 | 21 | 20 | |

Y 2

Manual Automatic
Observation began at Dec. 10th 1946.

Sweep 2.0 Mc to Mc in 15 min

R'F2

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

Lat. 31° 12.6' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

foF1

Dec. 1946

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 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | 3.3 | L | L | L | L | C | C | B | | | | | | | | | |
| 11 | | | | | | | | 3.2 | L | L | L | L | A | A | | | | | | | | | | |
| 12 | | | | | | | | 4.6 | L | L | L | C | C | C | C | B | L | 3.2 | | | | | | |
| 13 | | | | | | | | L | C | L | L | L | L | L | C | | | | | | | | | |
| 14 | | | | | | | | | L | L | L | L | B | L | L | L | | | | | | | | |
| 15 | | | | | | | | | L | L | L | L | L | C | C | C | C | C | | | | | | |
| 16 | | | | | | | | | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 17 | | | | | | | | | | | | | L | L | L | | | | | | | | | |
| 18 | | | | | | | | 4.8 | L | L | L | L | L | L | | | | | | | | | | |
| 19 | | | | | | | | | | | | L | L | L | C | | | | | | | | | |
| 20 | | | | | | | | | | | L | L | L | L | L | L | L | | | | | | | |
| 21 | | | | | | | | | | | L | L | L | L | L | L | | | | | | | | |
| 22 | | | | | | | | | | | L | L | L | L | L | C | | | | | | | | |
| 23 | | | | | | | | | | L | L | L | L | L | L | L | C | | | | | | | |
| 24 | | | | | | | | | | L | L | L | L | L | L | L | | | | | | | | |
| 25 | | | | | | | | | | L | L | L | L | L | L | L | | | | | | | | |
| 26 | | | | | | | | | L | L | C | L | C | L | L | L | | | | | | | | |
| 27 | | | | | | | | | C | C | 5.0 | L | 5.1 | 5.2 | C | L | L | L | | | | | | |
| 28 | | | | | | | | | L | L | L | L | L | L | L | L | L | | | | | | | |
| 29 | | | | | | | | | C | C | C | C | 4.9 | L | L | L | L | | | | | | | |
| 30 | | | | | | | | | | | L | A | 4.7 | 4.3 | 3.4 | L | L | | | | | | | |
| 31 | | | | | | | | | | L | 5.5 | L | L | L | L | L | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | | | | | | | | | | | | | | | | | | | | | | | | |

foF1

Manual Automatic

Sweep 2.0 Mc to _____ Mc in 1.5 min

Observation began at Dec. 10th 1946.

Y 3

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

IONOSPHERIC DATA

Dec. 1946

R'F1

135° E Mean Time

Yamagawa

Lat. 31° 12.6' 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | C | 240 | 210 | 160 | 200 | C | C | B | | | | | | | | | |
| 11 | | | | | | | | 250 | 240 | 200 | [210] ^c | 210 | 200 | A | A | | | | | | | | | |
| 12 | | | | | | | | 240 | 250 | 250 | C | C | C | C | C | B | C | 250 | | | | | | |
| 13 | | | | | | | | 280 | [270] ^c | 250 | A | 220 | 200 | C | | | | | | | | | | |
| 14 | | | | | | | | | | | | 220 | 260 | 220 | 220 | 220 | | | | | | | | |
| 15 | | | | | | | | | C | 220 | 240 | 200 | C | C | C | C | C | C | | | | | | |
| 16 | | | | | | | | | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 17 | | | | | | | | | | | | 250 | 240 | 260 | | | | | | | | | | |
| 18 | | | | | | | | | 230 | 240 | 260 | 260 | A | C | | | | | | | | | | |
| 19 | | | | | | | | | | | 220 | 220 | C | | | | | | | | | | | |
| 20 | | | | | | | | | | 230 | 240 | 240 | 210 | 220 | 220 | 220 | A | | | | | | | |
| 21 | | | | | | | | | | 240 | 220 | 250 | 220 | 280 | | | | | | | | | | |
| 22 | | | | | | | | | | | 270 | 220 | 260 | 260 | C | | | | | | | | | |
| 23 | | | | | | | | | 240 | 240 | 220 | 220 | 250 | 210 | 220 | 230 | | | | | | | | |
| 24 | | | | | | | | | | C | 230 | 230 | 240 | 240 | 220 | | | | | | | | | |
| 25 | | | | | | | | | | 200 | 240 | 210 | 200 | 220 | 220 | 230 | | | | | | | | |
| 26 | | | | | | | | | 180 | 240 | [220] ^c | 200 | [220] ^c | 240 | 240 | 240 | | | | | | | | |
| 27 | | | | | | | | | C | C | 260 | 250 | 220 | 240 | [240] ^c | 240 | 240 | | | | | | | |
| 28 | | | | | | | | | 220 | 220 | 200 | 220 | 230 | 230 | 220 | 240 | 240 | | | | | | | |
| 29 | | | | | | | | | | C | C | C | 210 | 220 | 210 | 200 | | | | | | | | |
| 30 | | | | | | | | | | | 230 | A | 220 | 220 | 240 | 250 | | | | | | | | |
| 31 | | | | | | | | | | 230 | 240 | 270 | 260 | 240 | 250 | | | | | | | | | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum Value | | | | | | | | | 240 | 240 | 230 | 220 | 220 | 240 | 230 | 230 | 240 | | | | | | | |
| Count | | | | | | | | 2 | 7 | 9 | 13 | 17 | 17 | 14 | 14 | 11 | 4 | | | | | | | |

Sweep 2.0 Mc to 15 Mc in 15 min

Manual Automatic

Observation began at Dec. 10th 1946.

R'F1

Y 4

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

Lat. 31° 12.6' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

foE

Dec. 1946

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

foE

Sweep 2.0 Mc to _____ Mc in 1.5 min

Manual Automatic

Observation began at Dec. 10th 1946.

Y 5

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

IONOSPHERIC DATA

Lat. 35° 12.6' N
Long. 139° 37.7' E

Yamagawa

fEs

Dec. 1946

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 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | E | E | E | E | E | E | E | E | E | 3.9 | 3.9 | 4.4 | C | C | 3.7 | 3.1 | 4FE | S | C | E | E | E | E | |
| 11 | C | E | E | E | E | C | E | E | 3.4 | 4.0 | 4.5 | 4.4 | 4.3 | 4.8 | 4.0 | 3.9 | 3.7 | 3.4 | 2.1 | 2.4 | 2.1 | E | E | |
| 12 | 2.1 | E | E | E | E | E | E | E | 2.4 | 3.2 | 4.0 | C | C | C | 4.0 | C | C | 3.3 | 3.6 | E | 2.4 | E | E | |
| 13 | E | E | E | E | E | E | E | E | C | 4FE | 4.8 | 4FE | 4FE | C | 3.7 | 3.6 | C | C | C | E | E | E | E | |
| 14 | E | E | E | E | E | E | E | E | 4FE | 3.7 | 3.7 | 4FE | B | B | 5.0 | 5.2 | 5.8 | 5.0 | 3.3 | 2.4 | E | E | E | |
| 15 | E | E | E | E | E | E | E | E | 2.2 | 4FE | 4.1 | 3.8 | 4.0 | C | C | C | C | C | C | E | E | E | E | |
| 16 | E | E | E | E | E | E | E | E | C | C | C | C | C | C | C | C | C | C | C | 2.9 | E | E | E | |
| 17 | E | E | E | E | E | E | E | E | 4FE | 3.3 | 4.2 | 4.6 | 5.1 | 5.1 | C | C | 4FE | E | E | E | E | E | E | |
| 18 | E | E | E | E | E | E | E | E | 4FE | 2.8 | B | 3.9 | 4.4 | 6.0 | 4.4 | 4.3 | 3.1 | 3.4 | 3.7 | 3.2 | E | E | E | |
| 19 | E | E | E | E | E | E | E | E | 2.2 | 3.5 | 3.9 | 3.4 | 4FE | C | 4.1 | C | 2.9 | E | E | E | E | E | E | |
| 20 | E | E | E | E | E | E | E | E | 3.3 | 3.9 | 3.7 | 4FE | 4FE | 4FE | 3.9 | 3.6 | 4.7 | 3.3 | 3.0 | 2.9 | 2.5 | 2.4 | E | |
| 21 | E | E | E | E | E | E | E | E | 3.4 | 3.7 | 3.9 | 3.9 | 3.6 | 3.9 | 3.4 | 4FE | 4FE | 4FE | E | E | E | E | E | |
| 22 | E | E | E | E | E | E | E | E | 2.4 | 3.0 | 3.9 | 3.9 | 3.9 | 4FE | 4.5 | C | 3.7 | 3.0 | 2.5 | 2.2 | E | E | E | |
| 23 | E | E | E | E | E | E | E | E | 4FE | 3.3 | 3.4 | 3.9 | 3.8 | 3.7 | 3.7 | 4FE | 4FE | C | C | C | 2.4 | E | E | |
| 24 | E | E | E | E | E | E | E | E | 2.2 | 2.8 | 3.8 | 4.0 | 3.9 | 4.0 | 3.9 | 4FE | 4FE | 2.4 | E | E | E | 2.2 | E | |
| 25 | E | E | E | E | E | E | E | E | 3.4 | 3.7 | 4FE | 4FE | 3.7 | C | 4.9 | 4.6 | 4.2 | 2.4 | 2.7 | 3.6 | 2.6 | 3.7 | E | |
| 26 | C | E | E | E | E | E | E | E | E | 4.1 | C | 4FE | C | 4.3 | 4.9 | 4FE | 4FE | 4FE | 3.0 | E | E | E | E | |
| 27 | E | E | E | E | E | E | E | E | C | C | 4.1 | 4.4 | 4.8 | 4.9 | C | 4.3 | 3.1 | 2.7 | 2.5 | 2.7 | 5.2 | 3.3 | 2.7 | |
| 28 | 2.6 | 2.4 | E | E | E | E | E | E | 2.8 | 4.1 | 4.2 | 4.4 | 4FE | 4.9 | 4.9 | 4.0 | 4.1 | E | 2.2 | 2.3 | 2.9 | 2.5 | 2.6 | |
| 29 | E | 2.7 | E | E | E | E | E | E | C | C | C | C | 4.7 | 4.2 | 4.6 | 4.0 | 3.6 | E | E | E | E | E | E | |
| 30 | E | E | E | E | E | E | E | E | 2.5 | 2.5 | 4FE | 3.7 | 4.7 | 5.5 | 4.8 | 4.0 | 4.0 | 4FE | E | E | 2.4 | E | E | |
| 31 | E | E | E | E | E | E | E | E | 2.6 | E | E | 2.6 | B | B | B | B | B | E | E | E | E | E | E | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | 2.0 | 2.2 | 2.2 | 2.2 | 2.1 | 2.0 | 2.0 | 1.9 | 1.8 | 1.9 | 1.8 | 1.8 | 1.6 | 1.3 | 1.6 | 1.6 | 1.7 | 1.7 | 1.8 | 1.9 | 2.1 | 2.2 | 2.1 | 2.0 |

fEs

Sweep 2.0 Mc to _____ Mc in 15 min

Manual Automatic
Observation began at Dec. 10th 1946.

Y 6

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

Lat. 31° 12.6' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

135° E Mean Time

Dec. 1946

fminF

| 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | E | E | E | E | E | E | E | E | E | 2.8 | 3.4 | 3.7 | C | C | 4.6 | 4.6 | 3.8 | S | C | 2.1 | 2.1 | 2.1 | 2.1 | |
| 11 | (2.1) ^c | 2.1 | 2.1 | 2.1 | 2.1 | C | C | 2.1 | 2.7 | 3.3 | 3.7 | 3.8 | 4.0 | 4.6 | 3.8 | 3.4 | 3.0 | 2.5 | E | E | E | E | E | |
| 12 | E | E | E | 2.1 | 2.1 | 2.1 | E | 2.1 | 2.4 | 3.0 | 3.7 | C | C | C | 3.3 | 2.1 | 2.5 | 2.1 | E | 2.1 | 2.1 | 2.1 | 2.1 | |
| 13 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | (2.7) ^c | 3.4 | 3.7 | 3.8 | 3.8 | (3.8) ^c | 3.7 | 3.4 | C | C | C | C | C | 2.1 | 2.1 | |
| 14 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.5 | 3.0 | 3.7 | 3.0 | 4.8 | 3.7 | 3.7 | 3.4 | 3.1 | 2.4 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | |
| 15 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.2 | 3.3 | 3.7 | 4.0 | 4.0 | C | C | C | C | C | C | C | 2.1 | 2.1 | 2.1 | |
| 16 | E | E | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.8 | 3.6 | 4.0 | 4.1 | 4.1 | C | C | C | C | C | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | |
| 17 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.8 | 3.3 | 4.0 | 3.9 | 4.4 | 4.1 | 4.1 | 4.1 | 3.2 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | |
| 18 | E | 2.1 | E | E | E | E | E | E | 2.7 | 3.3 | 4.0 | 3.9 | 4.4 | 4.1 | 4.1 | 4.1 | 3.0 | 2.8 | 2.1 | 2.1 | E | E | E | |
| 19 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | E | E | 2.3 | 3.1 | 3.7 | 3.2 | 4.1 | 3.9 | 3.7 | 2.4 | 2.8 | 2.1 | E | E | 2.1 | E | E | |
| 20 | E | E | 2.1 | 2.1 | 2.1 | 2.1 | E | 2.1 | 3.1 | 3.2 | 3.6 | 4.2 | 4.0 | 3.7 | 3.8 | 3.6 | A | 2.1 | E | 2.4 | 2.1 | E | E | |
| 21 | 2.1 | E | E | E | E | E | E | 2.1 | 2.1 | 3.2 | 3.7 | 3.7 | 4.2 | 4.2 | 3.9 | 3.5 | 3.1 | 2.4 | E | E | 2.1 | 2.1 | 2.1 | |
| 22 | 2.1 | 2.1 | 2.1 | E | E | E | E | E | 2.6 | 3.0 | 3.8 | 4.0 | 4.0 | 3.8 | 4.4 | (4.8) ^c | 3.1 | 2.8 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | |
| 23 | 2.1 | E | E | E | E | E | E | 2.1 | 2.5 | 3.4 | 3.7 | 3.8 | 4.3 | 4.3 | 3.7 | 3.6 | 2.9 | C | C | C | 2.1 | E | 2.1 | |
| 24 | 2.1 | E | E | E | E | E | E | 2.1 | 2.6 | 3.1 | 3.8 | 4.2 | 4.0 | 4.0 | 3.8 | 3.5 | 3.3 | 2.1 | E | E | E | 2.5 | C | |
| 25 | E | E | 2.1 | E | E | E | E | 2.1 | 2.8 | 3.2 | 3.7 | 3.7 | 4.0 | 3.9 | 3.7 | 4.0 | 3.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | |
| 26 | C | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.7 | [3.3] ^c | 3.9 | [4.0] ^c | 4.0 | 4.0 | 3.4 | 3.1 | 2.4 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | |
| 27 | 2.1 | E | E | E | E | 2.1 | 2.1 | C | C | C | 3.4 | 3.7 | 4.2 | 4.0 | 3.9 | 3.8 | 3.1 | 2.4 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | |
| 28 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.3 | 2.8 | 3.1 | 3.2 | 4.0 | 4.0 | 4.0 | 3.6 | 3.6 | 2.5 | 2.4 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | |
| 29 | 2.1 | 2.1 | 2.1 | 2.1 | C | C | C | C | C | C | C | C | 4.3 | 4.3 | 4.5 | 3.6 | 3.3 | 2.6 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | |
| 30 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.5 | 3.2 | 3.3 | 3.7 | 4.5 | 3.8 | 3.8 | 2.8 | 2.8 | 2.3 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | |
| 31 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.5 | 3.1 | 3.8 | 4.5 | 4.7 | 4.3 | 4.5 | 4.5 | 3.3 | 2.4 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.5 | 3.2 | 3.8 | 3.8 | 4.1 | 4.0 | 3.8 | 3.6 | 3.1 | 2.4 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | |
| Count | 2.1 | 2.2 | 2.2 | 2.2 | 2.1 | 2.0 | 2.0 | 2.0 | 1.9 | 1.9 | 2.0 | 1.9 | 1.9 | 1.8 | 1.8 | 1.9 | 1.8 | 1.7 | 1.8 | 1.9 | 2.2 | 2.2 | 2.1 | 2.0 |

fminF

Sweep 2.0 Mc to _____ Mc in 1.5 min

Manual Automatic

Observation began at Dec. 10th 1946.

Y 7

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

IONOSPHERIC DATA

Lat. 31° 12.5' N
Long. 130° 37.7' E

Yamagawa

Dec. 1946

f_{min}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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | E | E | E | E | E | E | E | E | E | E | E | 2.1 | C | C | 2.8 | 2.6 | 2.1 | S | C | E | E | E | E | E | |
| 11 | C | E | E | E | E | C | E | E | 2.7 | E | 2.1 | 2.1 | 2.1 | E | E | E | E | 2.1 | E | E | E | E | E | E | |
| 12 | E | E | E | E | E | E | E | E | 2.1 | 2.1 | 2.5 | C | C | C | C | 2.9 | [2.5] ^c | 2.1 | 2.1 | E | E | 2.1 | E | E | |
| 13 | E | E | E | E | E | E | E | E | C | 2.3 | 2.4 | 2.5 | 2.5 | [2.5] ^c | 2.4 | 2.2 | C | C | C | E | E | E | E | E | |
| 14 | E | E | E | E | E | E | E | E | 2.1 | 2.1 | 2.4 | 2.5 | 2.6 | B | 2.1 | 2.4 | 2.1 | 2.1 | 2.1 | 2.1 | E | E | E | E | |
| 15 | E | E | E | E | E | E | E | E | 2.1 | 2.1 | 2.4 | 2.4 | 2.2 | C | C | C | C | C | C | E | E | E | E | E | |
| 16 | E | E | E | E | E | E | E | E | C | C | C | C | C | C | C | C | C | C | C | E | E | E | E | E | |
| 17 | E | E | E | E | E | E | E | 2.1 | 2.1 | 3.1 | 2.1 | 2.2 | 2.5 | 2.5 | C | C | 2.2 | E | E | E | E | E | E | E | |
| 18 | E | E | E | E | E | E | E | E | 2.1 | 2.1 | 2.3 | 2.5 | 2.9 | 2.5 | 2.7 | 3.0 | 2.6 | 2.1 | 2.1 | E | E | E | E | E | |
| 19 | E | E | E | E | E | E | E | E | 2.1 | 2.1 | 2.5 | 2.1 | 2.4 | [2.4] ^c | 2.4 | [2.3] ^c | 2.1 | E | E | E | E | E | E | E | |
| 20 | E | E | E | E | E | E | E | E | 2.1 | 2.1 | 2.1 | 2.1 | 2.7 | 2.1 | E | 2.5 | E | 2.1 | E | E | 2.1 | E | E | C | |
| 21 | E | E | E | E | E | E | E | E | E | 2.1 | 2.7 | 2.7 | 2.5 | 2.5 | 2.5 | 2.7 | 2.2 | 2.1 | E | E | E | E | E | E | |
| 22 | E | E | E | E | E | E | E | E | E | 2.1 | 2.4 | 2.4 | 2.3 | 2.5 | 2.5 | [2.5] ^c | 2.4 | 2.1 | 2.1 | 2.1 | E | E | E | E | |
| 23 | E | E | E | E | E | E | E | E | E | 2.4 | 2.3 | 2.5 | 2.5 | 2.4 | 2.5 | 2.5 | 2.5 | C | C | C | E | E | E | E | |
| 24 | E | E | E | E | E | E | E | E | 2.1 | E | 2.8 | 2.8 | 2.1 | 2.4 | 2.4 | 2.1 | 2.1 | 2.1 | E | E | E | E | E | E | |
| 25 | E | E | E | E | E | E | E | E | 2.1 | 2.1 | 2.1 | 2.2 | 2.2 | [2.2] ^c | [2.2] ^c | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | C | C | |
| 26 | C | E | E | E | E | E | E | E | E | 2.1 | [2.1] ^c | 2.1 | [2.3] ^c | 2.5 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | E | E | E | E | E | |
| 27 | E | E | E | E | E | E | E | E | C | C | 2.1 | 2.1 | 2.1 | 2.1 | 2.2 | 2.3 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | |
| 28 | 2.1 | 2.1 | E | E | E | E | C | E | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.5 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | E | |
| 29 | E | 2.1 | E | E | E | C | E | C | C | C | C | C | 2.5 | 2.5 | 2.5 | 2.5 | 2.1 | 2.1 | E | E | E | E | E | E | |
| 30 | E | E | E | E | E | E | E | 2.1 | 2.1 | E | 2.1 | 2.3 | 2.4 | 2.4 | 2.4 | 2.8 | 2.1 | 2.1 | E | E | 2.1 | E | E | E | |
| 31 | E | E | E | E | E | E | E | E | E | 2.5 | 2.5 | B | B | B | B | B | B | E | E | E | E | E | E | E | |
| Mean Value | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Value | E | E | E | E | E | E | E | E | 2.1 | 2.1 | 2.5 | 2.2 | 2.4 | 2.4 | 2.4 | 2.4 | 2.1 | 2.1 | E | E | E | E | E | E | |
| Count | 20 | 22 | 22 | 20 | 21 | 20 | 20 | 21 | 18 | 19 | 20 | 18 | 18 | 16 | 17 | 18 | 18 | 17 | 18 | 19 | 21 | 22 | 21 | 20 | |

f_{min}E

Sweep 2.0 Mc to _____ Mc in 1.5 min
 Manual Automatic

IONOSPHERIC DATA IN JAPAN FOR 1946

電波觀測報告

1954年1月25日 印刷

1954年2月1日 發行

(不許複製非売品)

編集兼
發行人

好川得太郎
東京都北多摩郡小金井町小金井新田一之久保573

發行所

郵政省電波研究所
東京都北多摩郡小金井町小金井新田一之久保573
電話 国分寺 138, 139, 151

印刷所

今井印刷所
東京都新宿区筑土八幡町8番地