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IONOSPHERIC DATA IN JAPAN

FOR MAY 1953

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KOKUBUNJI, TOKYO, JAPAN

THE RADIO RESEARCH LABORATORIES

KOKUBUNJI, TOKYO, JAPAN

IONOSPHERIC DATA IN JAPAN FOR MAY 1953

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PREFACE

The origin of ionospheric sounding in Japan dates back to 1931 and the results of the work have been published in the form of the monthly "Ionospheric Data in Japan" since 1949. As a result of the reform of administrative structure of the Japanese Government effective on August 1, 1952, the observation, data coordination and publication were handed over to the charge of the Radio Research Laboratories newly set up within the Ministry of Postal Services.

The Radio Research Laboratories consists of three Divisions, i.e., First, Second and Administrative Divisions, located in Tokyo and five local radio wave observatories established at Wakkanai, Akita, Hiraiso, Inubo and Yamagawa, respectively.

The First Division has the following three sections:

Ionospheric Propagation Section which shall carry on researches on ionosphere and wave propagation;

Tropospheric Propagation Section which shall carry on researches on troposphere and wave propagation; and

Data Coordination Section which shall conduct the collection and arrangement of observational results, supply of operational data relating to radio propagation, preparation of radio propagation forecasts and radio disturbance warnings broadcast of URSIGRAM and physical basic studies of wave propagation in general.

The Second Division has the following two sections:

Frequency Standard Section which shall carry on researches on the frequency standard and broadcast the standard frequencies and time signals (J. J. Y.); and

Apparatus Section which shall carry on researches on radio apparatus used for radio regulatory purpose and conduct the approval service of types of radio equipments.

The Administrative Division shall conduct the general affairs of the Laboratories.

The ionospheric sounding is, as heretofore, being carried out by the four observatories at Wakkanai, Akita, Kokubunji (Tokyo) and Yamagawa.

This report provides the results of ionospheric sounding with symbols determined and in the form established on an international basis in the same way as followed by the former Radio Regulatory Commission and it is hoped that it will make any contribution toward the progress in world-wide short wave communications.

This report is intended for distribution on request to the largest possible number of organizations concerned all over the world, and any and every information that the organizations concerned might forward to us in exchange therefor would be highly appreciated.

Shogo Amari
Chief, Radio Research Laboratories,
Ministry of Postal Services

Aug. 1952

SITE OF THE IONOSPHERIC STATIONS

Ionospheric observation is carried out at four stations in Japan.

The stations are situated as follows:

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

REMARKS ON SYMBOLS

All symbols in the table are used in accordance with "Production and Reduction of Ionospheric Information" of "RESOLUTION OF THE IX GENERAL ASSEMBLY OF URSI SEPTEMBER 1950" (CRWO-F25) except f_{\min} E and f_{\min} F for E and F regions respectively instead of f_{\min} , taken as f_{\min} s in the above Resolution, in order to avoid the interruption of preceding form of data.

Lat. 45° 2' 3.6" N
Long. 141° 41.1' E

Wakkanai

IONOSPHERIC DATA

195° E Mean Time

f_oF₂

May, 1953

| 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 | S | S | S | S | S | 4.3P | C | B | B | B | B | B | B | B | B | B | B | B | B | S | S | S | S | S | |
| 2 | S | 3.6 | 4.0P | 4.7 | 4.1P | 4.6P | 5.1 | 5.4 | 6.0 | 6.0 | B | B | B | B | B | 6.3P | B | B | 6.0P | S | S | 4.0 | S | S | S |
| 3 | S | S | 4.0P | 4.4P | S | 5.5P | 5.5P | 5.5P | 6.1 | 5.9 | 6.1 | 6.2P | 6.2P | 6.3P | 6.2P | 6.2P | 6.2P | 6.5 | 6.2P | 6.5P | S | S | 5.7P | 5.6P | 5.3 |
| 4 | 5.2P | 5.1 | 5.0 | 4.6P | 5.0P | 5.5 | 4.9 | 5.5 | 5.9 | 5.6 | 6.1 | B | B | B | B | B | B | 6.2 | S | 5.8 | 5.8 | 5.8 | 5.8P | 5.8P | 5.4 |
| 5 | 5.5P | 5.6 | 5.6 | 5.5 | 5.6 | 5.5H | 5.0 | 4.5 | 5.0 | 5.7 | 6.5 | 6.3P | B | B | B | B | 6.2P | A | S | S | S | S | S | S | S |
| 6 | S | S | 4.6 | 4.2 | 4.0 | 4.1 | B | B | B | B | B | B | C | B | B | B | 5.7 | 5.4P | 5.0 | S | 5.5 | S | S | S | 5.4 |
| 7 | S | 5.2P | 4.2P | 3.2P | 3.2P | 3.7K | B ^k | A ^k | B ^k | B ^k | B ^k | B ^k | B ^k | B ^k | B ^k | B ^k | B ^k | 4.8P | 4.8P | 4.8P | 4.8P | 4.1P | S ^k | S ^k | 3.7P |
| 8 | 3.5P | 3.7P | 3.6P | 3.6P | 3.3P | 3.6P | 3.9P | B ^k | B ^k | B ^k | B ^k | B ^k | C ^k | B ^k | B ^k | B ^k | 5.5 | 5.5P | 5.3P | S ^k | 4.2P | 5.5P | 5.5P | 4.3P | 3.5P |
| 9 | 3.5P | 3.3P | 3.9P | 3.5P | 3.1P | 3.9P | B ^k | B ^k | B ^k | B ^k | B ^k | B ^k | B ^k | B ^k | B ^k | B ^k | B ^k | 4.7P | 4.5P | 4.6P | S ^k | S ^k | S ^k | S ^k | 4.0P |
| 10 | 4.2P | 3.6P | 3.6P | 3.7P | 3.2P | 3.9P | 4.2P | A ^k | B ^k | C ^k | C ^k | C ^k | C ^k | C ^k | C ^k | C ^k | C ^k | 5.1P | 5.1P | 6.2P | 6.0P | 4.8P | 3.6P | 3.4P | 3.4P |
| 11 | 3.2P | 3.2P | 3.1P | 3.4P | 3.4P | 4.3 | 5.3 | C | C | C | C | 4.6P | 4.6P | 4.6P | 4.6P | 4.5 | 4.6P | 5.2P | 5.2P | 5.3 | 5.7P | 5.2P | 4.9P | 4.8P | 4.8P |
| 12 | 4.8P | 4.8 | 4.0P | 3.4P | 3.3 | C | C | C | C | C | C | 4.8P | 4.8P | 4.8P | 4.8P | 4.8P | 4.8P | 4.8P | 4.3 | 4.8P | 5.4 | 5.2 | 4.8P | C | C |
| 13 | C | C | C | C | C | C | C | C | C | C | C | 4.8P | 4.8P | 4.8P | 4.8P | 4.8P | 4.8P | 4.8P | 4.8P | 4.8P | 4.8P | 4.8P | 4.8P | 4.8P | 4.8P |
| 14 | S | C | C | C | C | C | C | C | C | C | C | 5.5 | 5.0 | B | C | C | B | B | S | S | 4.0P | C | S | 4.9P | 4.9P |
| 15 | 4.1 | C | C | C | C | C | C | C | C | C | B | B | 4.8 | 5.3 | C | C | C | C | C | C | 5.4P | 5.0P | 5.0P | 4.9 | 4.9 |
| 16 | 4.6 | 4.3 | 4.1 | 4.0 | 3.7P | S | A | A | C | A | M | M | M | A | M | M | M | M | M | M | C | C | C | C | C |
| 17 | C | C | C | C | C | C | C | C | C | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 18 | M | M | M | M | M | M | M | M | M | B | B | A | M | B | B | 5.2 | 4.9 | 5.8 | 6.0 | 6.0 | 5.0P | 4.9P | 4.9P | 4.4 | 3.9P |
| 19 | 4.0 | 3.8 | 3.4 | 3.1 | 3.4 | 3.4 | B | B | B | B | B | B | B | B | 5.1 | 5.2P | 5.5 | 5.2 | 5.4 | 5.5 | 5.4P | 5.5P | 5.2P | 5.2P | 5.0P |
| 20 | 4.3P | 3.9P | 4.2 | A | A | 4.5P | 4.6 | 5.2 | B | B | B | B | A | A | A | A | A | A | 5.6 | 5.4P | 6.0 | 6.0 | 5.7 | 5.0 | 4.5P |
| 21 | 4.0 | 4.2P | 4.4P | 4.0 | 3.5 | A | A | 5.4 | A | A | A | B | B | B | B | B | 6.2P | 6.1 | 5.4 | 5.4P | 6.1 | 5.8 | 5.6 | 5.6P | |
| 22 | 5.3 | 5.0 | 4.8P | 4.3P | 4.0P | 4.4P | B | B | B | B | B | B | B | B | B | B | 5.5 | 5.8 | 6.1 | 5.7 | 6.0 | 5.3 | 5.2 | 5.2P | |
| 23 | 5.1 | 4.8P | 4.8P | 4.3P | 4.2P | 4.5P | A | C | A | B | B | B | B | B | B | B | 6.0 | 5.9P | 5.8 | 5.3P | C | A | 5.6 | 5.3 | |
| 24 | 5.2P | 4.8P | 4.8P | 4.0P | 3.5 | 4.7P | 5.0 | 5.3P | C | C | C | C | C | C | C | C | C | C | 5.8 | 6.1 | 6.0 | 6.2 | 5.9P | 5.6 | 5.6 |
| 25 | 4.9P | 4.8 | 4.6 | 4.3P | 4.4P | 4.8 | 5.9 | 5.9P | 5.9 | B | B | 5.4 | 5.3 | 5.8P | 6.2 | 5.9 | 6.0 | 6.0 | 5.9 | 6.0P | 6.2 | 5.9P | 5.6 | 5.6 | |
| 26 | 5.5P | 5.4 | 5.2P | C | C | C | C | C | C | A | A | B | B | B | B | 5.6 | 5.6P | 5.5 | 5.7P | 5.7 | S | S | 5.5P | 5.6P | |
| 27 | 5.7P | 4.9P | 4.8P | 4.6P | 4.8P | S | M | M | M | M | A | B | B | B | 5.4 | 5.6 | 5.6P | 5.5 | 5.7P | 5.7 | S | S | 5.5P | 5.6P | |
| 28 | 5.6P | 3.7 | 3.2P | 3.4P | 3.5 | 3.9 | A | A | B | B | A | B | B | B | 6.2P | 6.5P | 6.6P | 6.6P | 6.8P | 6.3P | 6.1P | 4.9P | A | S | |
| 29 | 4.8P | 4.5 | 4.2P | 3.8P | 4.0P | 4.3P | 5.0P | 5.6 | B | A | A | 5.3 | 5.8 | 5.7 | 5.3 | 6.0 | 4.8 | 4.8P | 4.8 | 5.1 | 5.5 | 5.2P | 5.0 | 4.9P | |
| 30 | 4.6P | 4.5P | 4.2P | 4.3P | 4.8P | 4.0P | 5.1P | A | B | A | 5.5P | 5.6P | 5.7 | 5.7 | 5.8 | 6.0 | 5.3 | 5.8P | 6.0 | 6.1 | C | S | 5.8 | 5.9P | |
| 31 | S | C | C | C | C | C | C | C | C | A | A | A | A | A | 6.0 | B | M | 5.6 | 6.0 | 6.1 | 6.4P | 6.1 | C | C | C |
| Mean Value | 4.6 | 4.4 | 4.2 | 4.0 | 3.9 | 4.3 | 5.0 | 5.3 | 5.8 | 5.8 | 5.8 | 5.4 | 5.4 | 5.5 | 5.6 | 5.6 | 5.6 | 5.5 | 5.5 | 5.6 | 5.6 | 5.2 | 5.1 | 4.8 | |
| Max Value | 4.8 | 4.5 | 4.2 | 4.0 | 3.7 | 4.3 | 5.0 | 5.4 | 5.9 | 5.7 | 5.8 | 5.3 | 5.5 | 5.5 | 5.6 | 5.5 | 5.5 | 5.6 | 5.4 | 5.7 | 5.8 | 5.3 | 5.2 | 4.9 | |
| Count | 21 | 22 | 23 | 21 | 21 | 19 | 12 | 10 | 5 | 3 | 6 | 9 | 7 | 8 | 12 | 14 | 18 | 24 | 22 | 19 | 18 | 21 | 18 | 21 | |

W1

Group 1.0 Mc to 1.5.5 Mc in 2.0 min
 Manual Automatic

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

IONOSPHERIC DATA

Lat. 46° 28.6' N
Long. 141° 41.1' E

Wakanai

May, 1953

f_pF₂

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 | S | S | S | S | S | S | C | B | B | B | B | B | B | B | B | B | B | B | B | S | S | S | S | C |
| 2 | S | 330 | 340 ^P | 330 | 350 ^P | 350 ^P | 320 ^P | 290 | 330 | 380 | B | B | B | B | B | B | B | B | S | S | S | S | S | C |
| 3 | S | S | 320 ^P | 330 ^P | S | (290) ^P | (290) ^P | 290 | 330 | 380 | B | B | B | B | B | B | B | B | S | S | S | S | S | C |
| 4 | (400) ^P | 400 | (310) ^S | 350 ^P | (320) ^S | 290 | 300 | 300 | 350 | 330 | 230 | B | B | B | B | B | B | B | S | S | S | S | S | C |
| 5 | (360) ^P | 390 | 410 | 350 | 350 | 320 ^H | 290 | 280 | U | U | 370 | 370 ^P | B | B | B | B | B | B | S | S | S | S | S | C |
| 6 | S | S | 420 | 390 | 370 | 310 | B | B | B | B | B | B | C | B | B | B | B | B | S | S | S | S | S | C |
| 7 | S | 340 ^P | (360) ^S | 390 ^P | (340) ^P | 310 ^K | B ^K | A ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | S | S | S | S | S | C |
| 8 | (380) ^K | 390 ^K | 420 ^K | 330 ^K | 320 ^K | 380 ^{H^K} | U ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | S | S | S | S | S | C |
| 9 | 380 ^K | 420 ^K | 410 ^K | 400 ^K | 320 ^K | 420 ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | S | S | S | S | S | C |
| 10 | 380 ^K | 360 ^K | 400 ^K | 360 ^K | 370 ^K | 380 ^K | U ^K | U ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | S | S | S | S | S | C |
| 11 | 400 ^{H^K} | 400 ^K | 350 ^P | 380 ^P | 360 | 300 | B | B | B | B | B | B | B | B | B | B | B | B | S | S | S | S | S | C |
| 12 | 350 ^P | 310 | 310 ^P | 310 ^P | 260 | C | C | C | C | C | C | U | U | U | U | U | U | U | S | S | S | S | S | C |
| 13 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 14 | S | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 15 | 310 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 16 | (370) ^P | 370 | 340 | 380 | (320) ^S | S | A | A | C | A | A | B | B | B | B | B | B | B | C | C | C | C | C | C |
| 17 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 18 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 19 | 360 | 360 | 330 | 320 | 310 | 280 | B | B | B | B | B | B | B | B | B | B | B | B | S | S | S | S | S | C |
| 20 | 320 ^P | (370) ^P | 350 | A | A | 370 ^P | 380 | C | B | B | B | B | B | B | B | B | B | B | S | S | S | S | S | C |
| 21 | 300 | (310) ^P | (320) ^P | 290 | 290 | A | A | 300 | A | A | A | B | B | B | B | B | B | B | S | S | S | S | S | C |
| 22 | 350 | (340) ^S | S | S | 330 ^P | 300 ^P | B | B | B | B | B | B | B | B | B | B | B | B | S | S | S | S | S | C |
| 23 | 350 | 320 ^P | (350) ^P | (330) ^P | (310) ^P | (290) ^P | A | C | A | A | B | B | B | B | B | B | B | B | S | S | S | S | S | C |
| 24 | 300 ^P | (320) ^P | (310) ^P | 340 ^P | 310 | 330 ^P | B | B | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 25 | 360 ^P | 360 | 360 ^P | 330 ^P | 330 ^P | 380 | 350 | B | U | B | B | B | B | B | B | B | B | B | S | S | S | S | S | C |
| 26 | (350) ^P | 350 | 320 ^P | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 27 | 420 ^P | (380) ^F | (360) ^C | (350) ^P | (340) ^P | S | M | M | M | M | M | M | M | M | M | M | M | M | S | S | S | S | S | C |
| 28 | (300) ^P | 330 | 400 ^V | 340 ^F | 380 | U | A | A | B | B | B | B | B | B | B | B | B | B | S | S | S | S | S | C |
| 29 | (340) ^P | 360 | 360 ^P | 340 ^P | (340) ^P | (340) ^P | 300 | B | B | B | B | B | B | B | B | B | B | B | S | S | S | S | S | C |
| 30 | (330) ^P | (330) ^P | (330) ^P | 300 ^F | 310 ^P | 290 ^P | A | B | A | A | A | U | U | U | U | U | U | U | S | S | S | S | S | C |
| 31 | S | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| Mean Value | 360 | 360 | 360 | 340 | 330 | 310 | 310 | 290 | 320 | 360 | 330 | 360 | 460 | 390 | 350 | 330 | 330 | 340 | 340 | 330 | 340 | 350 | 350 | 360 |
| Median Value | 350 | 360 | 350 | 340 | 330 | 320 | 300 | 300 | 330 | 360 | 320 | 350 | 460 | 380 | 350 | 340 | 330 | 340 | 340 | 330 | 340 | 350 | 350 | 360 |
| Count | 21 | 22 | 23 | 21 | 21 | 18 | 8 | 6 | 3 | 2 | 4 | 13 | 1 | 2 | 3 | 8 | 13 | 21 | 22 | 19 | 17 | 20 | 18 | 21 |

Group: I. O. Me in 15.5. Me in 2. min

f_pF₂

May, 1953

Wakanai

Automatic

Manual

W 2

Lat. 45° 28.6' N
Long. 141° 41.1' E

Wakkanai

IONOSPHERIC DATA

135° E Mean Time

May, 1953

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 | 330 | 330 | 310 | 320 | 320 | 300 | f310 ^o | 320 | B | B | B | B | B | B | B | B | B | B | B | (290 ^A) | (290 ^A) | 290 | 300 | 300 | f300 ^o |
| 2 | 300 | 300 | 300 | 300 | 300 | 300 | 290 | 290 | 330 | 320 | A | B | 350 | f320 ^o | 300 | 310 | 300 | 300 | 260 | 260 | 270 | f280 ^o | 290 | 270 | 260 |
| 3 | 300 | 300 | 300 | 300 | 330 | 300 | 270 | f280 ^o | 290 | 310 | 320 | 350 | 380 | 370 | 330 | 340 ^B | 320 | 320 | 310 | 280 | 280 | 300 | 300 | 280 | 300 |
| 4 | 300 | 300 | 300 | 260 | 290 | 260 | 260 | 300 | 350 | 330 | 330 | 360 | B | B | B | B | 360 ^B | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| 5 | 310 | 300 | 300 | 270 | 280 | 260 ^H | 270 | 280 | 360 | 340 | 370 | 350 | 350 | B | B | B | 310 | A | A | A | 280 | 300 | 280 | 300 | 300 |
| 6 | 290 | 300 | 300 | 310 | 350 | 280 | B | B | B | A | B | B | C | B | B | B | 360 | 300 | 300 | 320 | 410 | 370 | 310 | 300 | 300 |
| 7 | 280 | 320 ^A | f340 ^o | 350 ^A | f320 ^o | 300 ^K | A ^K | A ^K | B ^K | A ^K | A ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | 320 ^K | 320 ^K | 320 ^K | 310 ^K | 300 ^K | 300 ^K |
| 8 | 360 ^K | 350 ^K | 380 ^K | 300 ^K | 300 ^H | 300 ^H | 480 ^K | B ^K | B ^K | B ^K | A ^K | C ^K | C ^K | C ^K | C ^K | C ^K | 350 ^K | f320 ^o | 300 ^K | 300 ^K | 330 ^K | 310 ^K | 300 ^K | 300 ^K | 300 ^K |
| 9 | 350 | 370 ^A | 360 ^K | 360 ^K | 300 ^K | 400 ^K | A ^K | B ^K | B ^K | A ^K | A ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | B ^K | 320 ^K | 320 ^K | 300 ^K | 270 ^K | 300 ^K | 300 ^K |
| 10 | 300 ^K | 310 ^K | 350 ^K | 300 ^K | 310 ^K | 380 ^K | 440 ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | 320 ^K | 300 ^K | 280 ^K | 330 ^A | 370 ^K | 300 ^K |
| 11 | 330 ^K | 340 ^K | 330 ^K | 350 ^K | 330 ^A | 280 | 300 | B | B | B | B | B | B | B | B | B | B | 330 | 330 | 300 | 280 | 270 | 260 | 280 | 280 |
| 12 | 260 | 250 | 260 | 250 | 250 | C | C | C | C | C | C | 400 ^F | 480 ^F | B | B | B | L | L | L | 320 ^A | 320 | 270 | 290 | C | C |
| 13 | C | C | C | C | C | C | C | C | C | C | B | 400 | 490 | A | A | A | 360 | 310 | 310 | (300 ^S) | C | C | 360 | C | C |
| 14 | 300 | C | C | C | C | C | C | C | C | C | C | 420 ^A | A | B | C | C | A | A | A | 300 | 240 | 240 | C | A | 280 |
| 15 | 270 | C | C | C | C | C | C | C | C | C | B | B | 530 | 430 | C | C | C | C | C | C | C | 290 | 300 | 300 | 300 |
| 16 | 300 | 310 | 300 | 310 | 300 | 310 | A | A | A | A | A | B | B | A | A | A | A | A | A | C | C | C | C | C | C |
| 17 | C | C | C | C | C | C | C | C | C | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 18 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 19 | 320 | 300 | 270 | 270 | 280 | 250 ^B | 320 | B | B | B | B | B | B | B | B | B | 390 ^B | 320 | 320 | 290 | 290 | 300 | 320 | 300 | 300 |
| 20 | 270 | 300 | 300 ^A | A | A | 360 ^A | 380 | B | B | B | A | A | A | A | A | A | A | A | A | 360 | 340 | 300 | 270 | 300 | 270 |
| 21 | 300 ^A | f300 ^o | 300 | 270 | 260 | A | A | 300 | A | A | A | B | B | B | B | B | 320 | 310 | 280 | 280 | 260 | 270 | 310 | 310 | 310 |
| 22 | 320 | 300 | 290 | 280 | 300 | L | B | B | A | B | B | B | B | B | B | B | 350 | 340 | 340 | 300 | 300 | 300 | 300 | 300 | 300 |
| 23 | 290 | 300 ^A | 300 | 290 | 280 | 280 | A | C | A | B | B | B | B | B | B | B | 280 | 280 | 280 | 280 | 280 | 280 | 280 | 280 | 280 |
| 24 | 290 | 280 | 290 | 300 | 300 | 300 | B | 350 | C | A | A | C | C | C | C | C | 280 | 280 | f290 ^o | 300 ^A | 300 ^A | 290 | 270 | 300 | 300 |
| 25 | 320 | 270 | 300 ^F | 260 | 290 | L | 340 ^F | 320 | 320 | B | B | B | B | B | B | B | 320 | 320 | 320 | 320 | 320 | 290 | 270 | 300 | 300 |
| 26 | f300 ^o | 310 | 250 | C | C | C | C | C | C | A | A | B | B | B | B | B | f360 ^o | 350 | 350 | f370 ^A | f300 ^o | 300 | 300 | 300 | 300 |
| 27 | 320 | 340 | f320 ^o | 310 | 330 | A | M | M | M | M | A | B | 400 | 330 | 350 | 330 | 300 | 280 | 280 | 250 | 250 | 260 | 300 | A | A |
| 28 | 240 | 230 | 300 | 300 | 380 ^A | 470 | A | A | A | B | A | B | B | B | B | B | 310 | 340 ^F | 360 | 300 | f290 ^o | 280 | 310 | 310 | 310 |
| 29 | 310 | 310 | 320 | 320 | 300 | 280 | f290 ^o | 300 | A | A | A | 330 | 160 | 400 | 310 | 260 | 300 | 300 | 300 | 350 | 350 | 350 | A | A | A |
| 30 | 280 | 290 | 280 | 280 | 280 | 280 | 250 | A | B | A | 300 ^A | 370 | 390 | 430 ^A | 430 ^A | 430 ^A | 320 ^S | 320 ^S | 360 ^A | 351 | 320 ^S | f320 ^o | 310 ^S | 280 | 290 |
| 31 | S | C | C | C | C | C | C | C | C | A | A | A | A | A | A | A | 320 | 330 | 300 | 260 | 260 | 250 | 270 | C | C |
| Mean | 300 | 300 | 310 | 300 | 300 | 310 | 320 | 320 | 330 | 350 | 360 | 370 | 420 | 360 | 330 | 360 | 330 | 320 | 320 | 290 | 290 | 290 | 300 | 300 | 310 |
| Median | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 330 | 360 | 350 | 360 | 400 | 360 | 330 | 360 | 320 | 320 | 320 | 300 | 300 | 300 | 300 | 300 | 300 |
| Value | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 330 | 360 | 350 | 360 | 400 | 360 | 330 | 360 | 320 | 320 | 320 | 300 | 300 | 300 | 300 | 300 | 300 |
| Count | 27 | 25 | 25 | 23 | 23 | 19 | 13 | 11 | 5 | 4 | 6 | 9 | 9 | 8 | 9 | 14 | 19 | 25 | 27 | 26 | 26 | 26 | 24 | 24 | |

Swamp L.O. Me to 15.5 Me in 2 min Manual Automatic

W 3

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

IONOSPHERIC DATA

Lat. 45° 23.6' N
Long. 141° 41.1' E

Wakkanai

foF1

May. 1953

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 | | | | | | C | 4.0 | | B | B | B | B | B | B | B | B | B | B | B | | | | | |
| 2 | | | | | | 2.8 | 3.8 | 4.3 | A | A | A | B | B | B | B | B | B | B | Q | | | | | |
| 3 | | | | | | A | A | A | B | B | B | 4.5 | B | B | B | B | 4.1 | 4.0 | 3.5 | | | | | |
| 4 | | | | | | Q | 3.0 | 3.8 | 4.0 ^B | B | B | (4.5) ^B | A | B | B | B | 4.0 ^P | 3.8 | | | | | | |
| 5 | | | | | | Q | Q | Q | 4.5 | (4.5) ^B | (4.5) ^B | 4.6 | B | B | B | B | 4.0 | 4.0 | | | | | | |
| 6 | | | | | | | 3.6 | 3.8 | B | A | B | B | B | B | 4.0 ^F | 3.9 ^F | 3.8 | 3.4 | | | | | | |
| 7 | | | | | | | A | A | B | A | A | B | B | B | B | 3.9 ^P | 3.6 | 3.5 | | | | | | |
| 8 | | | | | | | 3.5 | 3.7 | B | A | A | A | C | B | 4.0 | B | 4.0 | 3.7 | | | | | | |
| 9 | | | | | | | 3.0 | A | B | A | A | B | B | B | B | B | B | 3.6 | 0 | | | | | |
| 10 | | | | | | | 2.9 | 3.8 | C | C | C | C | C | C | C | C | C | 3.6 | 3.0 | | | | | |
| 11 | | | | | | | 3.6 | 4.0 | A | A | B | B | 4.1 | B | A | A | B | 3.9 | 3.4 | | | | | |
| 12 | | | | | | | C | C | C | C | C | 4.2 | 4.2 ^F | 4.2 ^F | 4.2 | 4.0 | L | L | Q | | | | | |
| 13 | | | | | | | C | C | C | B | 4.2 | 4.3 | A | A | (4.0) ^A | (4.0) ^A | 3.8 | 3.6 | A | | | | | |
| 14 | | | | | | | C | C | C | C | A | A | B | C | C | C | A | 3.4 | | | | | | |
| 15 | | | | | | | C | C | C | C | B | B | (4.4) ^B | 4.0 | C | C | C | C | | | | | | |
| 16 | | | | | | | C | A | C | A | A | A | B | A | C | C | C | C | | | | | | |
| 17 | | | | | | | C | C | 3.7 | M | M | M | M | M | M | M | M | M | | | | | | |
| 18 | | | | | | | M | M | M | 3.8 | B | A | M | B | 4.0 | (4.1) ^B | 3.7 | 3.5 | 3.1 | | | | | |
| 19 | | | | | | | Q | 3.4 | 3.6 | A | B | B | B | B | B | B | 3.8 | 3.5 | 3.2 | | | | | |
| 20 | | | | | | | 3.6 | C | C | B | A | A | A | A | A | A | A | 3.7 | 3.2 | | | | | |
| 21 | | | | | | | A | A | 3.8 | A | A | B | B | B | B | B | B | 3.6 | Q | | | | | |
| 22 | | | | | | | L | 3.6 | B | A | B | B | B | B | B | B | 4.3 | 4.0 | 3.6 | | | | | |
| 23 | | | | | | | A | C | C | A | A | A | A | A | A | A | 4.0 | 4.0 | A | | | | | |
| 24 | | | | | | | 3.8 | 4.0 | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 25 | | | | | | | L | 3.7 | 4.0 | A | B | B | B | B | B | B | 4.2 | 3.9 | 3.8 | | | | | |
| 26 | | | | | | | C | C | C | C | A | A | B | B | B | A | B | 3.9 | 3.8 | | | | | |
| 27 | | | | | | | M | M | M | M | A | B | B | B | B | A | B | 3.9 | 3.8 | | | | | |
| 28 | | | | | | | 3.3 | A | A | A | A | 4.3 | 4.5 | 4.4 | (4.2) ^B | 4.0 | 3.8 | 3.4 | | | | | | |
| 29 | | | | | | | A | B | B | A | B | A | B | B | B | B | A | A | | | | | | |
| 30 | | | | | | | Q | A | B | A | A | 4.5 | 4.4 | 4.3 | 4.3 | 4.2 | 3.9 | A | | | | | | |
| 31 | | | | | | | C | C | C | A | A | B | (4.5) ^A | A | B | A | B | A | 3.4 | | | | | |
| Mean Value | | | | | | | 3.1 | 3.5 | 3.8 | 4.2 | 4.2 | 4.4 | 4.4 | 4.2 | 4.1 | 4.1 | 3.9 | 3.6 | 3.2 | | | | | |
| Median Value | | | | | | | 3.0 | 3.6 | 3.8 | 4.2 | 4.2 | 4.4 | 4.4 | 4.2 | 4.0 | 4.0 | 3.9 | 3.6 | 3.2 | | | | | |
| Count | | | | | | | 4 | 11 | 11 | 4 | 2 | 2 | 7 | 6 | 7 | 12 | 17 | 19 | 8 | | | | | |

foF1

Sweep 1.0 - Mc to 15.5 - Mc in 2.0 min

Manual

Automatic

Lat. 45° 23.6' N
Long. 141° 41.1' E

Wakkanai

IONOSPHERIC DATA

135° E Mean Time

May. 1953

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 | | | | | | | C | 270 | B | B | B | B | B | B | B | B | B | B | | | | | | |
| 2 | | | | | | | 200 | A | 300 | A | A | B | B | B | B | B | B | B | Q | | | | | |
| 3 | | | | | | | A | A | A | A | A | 250 | [240]B | 240 | 250 | 240 | 240 | 240 | 270 | | | | | |
| 4 | | | | | | Q | 250 | 260 | 270 | A | A | A | A | A | B | B | B | 280 | | | | | | |
| 5 | | | | | | G | Q | Q | 270 | B | B | 280 ^B | B | B | B | B | A | 250 | A | | | | | |
| 6 | | | | | | | (300)B | 290B | A | A | A | A | C | A | A | 260 | 270B | 290 ^B | 300 ^A | | | | | |
| 7 | | | | | | | A | A | A | A | A | A | A | B | B | B | 280 | 270 | (320) ^A | | | | | |
| 8 | | | | | | | (280) ^B | 300 | B | A | A | C | A | C | A | 270 | 280 | 280 | 290 | | | | | |
| 9 | | | | | | 300 | A | A | A | A | A | B | B | B | B | B | B | 270 | 300 | G | | | | |
| 10 | | | | | | 290 | 280 | 270 | C | C | C | C | C | C | C | C | C | 280 | 300 | 300 | | | | |
| 11 | | | | | | | 280 | 290 | A | A | A | B | 270 | A | A | A | 270 | 270 | (300) ^A | A | | | | |
| 12 | | | | | | | C | C | C | C | C | 220 | 220 | 220 | 250 ^A | (280) ^B | 230 | 260 | G | | | | | |
| 13 | | | | | | | C | C | C | A | A | 240 | 260 ^A | A | A | A | A | 230 | A | | | | | |
| 14 | | | | | | | C | C | C | C | A | A | A | A | C | C | C | A | 270 | | | | | |
| 15 | | | | | | | C | C | C | C | A | B | 280 | 280 ^B | C | C | C | C | C | | | | | |
| 16 | | | | | | (300) ^A | A | C | C | A | A | A | A | A | A | C | C | C | C | | | | | |
| 17 | | | | | | | C | C | 240 | M | M | M | M | M | M | M | M | M | M | | | | | |
| 18 | | | | | | | M | M | M | M | M | A | A | M | 270 | 200 | 270 | 220B | 240 | 250 | | | | |
| 19 | | | | | | G | 250 | 220 | [230]A | 240 | 230 | A | B | B | A | A | 260 ^A | 270 | 300 | 290 ^B | | | | |
| 20 | | | | | | | A | C | A | A | A | A | A | A | A | A | A | A | 280 | 300 | | | | |
| 21 | | | | | | | A | A | A | A | A | A | 230 | A | A | A | B | A | 300 ^B | Q | | | | |
| 22 | | | | | | 250 | 260 | A | A | A | A | B | B | B | B | B | 220 | 250 | 250 | | | | | |
| 23 | | | | | | | A | A | A | A | A | A | A | A | A | A | 220 | 220 | A | | | | | |
| 24 | | | | | | | 280 | 290 | C | C | C | C | C | C | C | C | C | C | A | | | | | |
| 25 | | | | | | 270 | 250 ^A | 250 ^A | A | A | B | A | A | A | A | 270 | 220 | 220 | 230 | 280 | | | | |
| 26 | | | | | | | C | C | C | A | A | B | B | B | A | A | B | 250 | 300 | | | | | |
| 27 | | | | | | | M | M | M | M | A | 200 | 220 | 200 | [210]B | 220 | 250 | 250 | | | | | | |
| 28 | | | | | | 290 | A | A | A | A | A | A | A | A | B | B | B | A | A | | | | | |
| 29 | | | | | | | A | 280 | B | A | A | A | A | A | 300 | 220 | 200 | 220 | A | | | | | |
| 30 | | | | | | | G | A | A | A | A | A | A | A | A | A | A | A | (300) ^A | | | | | |
| 31 | | | | | | | C | C | C | A | A | A | A | A | A | A | 240 | [250]M | 260 | 280 | | | | |
| Mean Value | | | | | | 280 | 260 | 270 | 260 | 230 | 240 | 240 | 230 | 240 | 230 | 240 | 240 | 240 | 280 | 290 | | | | |
| Median Value | | | | | | 290 | 270 | 280 | 270 | 230 | 240 | 260 | 220 | 230 | 240 | 230 | 240 | 230 | 280 | 290 | | | | |
| Count | | | | | | 6 | 10 | 11 | 5 | 2 | 2 | 5 | 6 | 6 | 8 | 14 | 20 | 20 | 20 | 17 | | | | |

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

IONOSPHERIC DATA

Lat. 45° 23.6' N
Long. 141° 41.1' E

Wakkanai

foE

May. 1953

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

foE

Sweep 1.0 Mc to 15.5 Mc in 2 min

Manual

Automatic

W 6

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

Lat. 45° 28.6' N
Long. 141° 41.1' E

Wakkanai

IONOSPHERIC DATA

135° E Mean Time

May. 1953

h' 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 | | | | | | | C | 120 | 120 | 130 | 120 | 120 | B | B | 120 | 130 | 130 | B | | | | | | | |
| 2 | | | | | | | 120 | 130 | 130 | 130 | 120 | [120]B | 120 | 120 | B | B | B | B | 110 | | | | | | |
| 3 | | | | | | | 120 | 120 | 120 | 130 | 130 | 120 | 120 | 130 | 120 | 120 | 120 | B | | | | | | | |
| 4 | | | | | | 130 | [120]B | 120 | [120]B | 130 | 130 | 130 | A | B | 130 | [130]B | 130 | 130 | | | | | | | |
| 5 | | | | | | 130 | B | 130 | 130 | 130 | 130 | 130 | 120 | 130 | B | A | A | A | | | | | | | |
| 6 | | | | | | | M | 140 | 130 | 130 | 120 | [120]C | 120 | 130 | 130 | 130 | 130 | 140 | | | | | | | |
| 7 | | | | | | | 140 | [140]B | 130 | 130 | 120 | 110 | 120 | 120 | 120 | 120 | 130 ^P | 130 ^P | | | | | | | |
| 8 | | | | | | | B | (150) ^P | [140]B | 120 | 130 | 130 | C | A | 130 | 140 | 140 ^P | B | | | | | | | |
| 9 | | | | | | B | B | B | 130 | 130 | 110 | 120 | 130 | [120]A | 110 | 130 | 140 | 140 | B | | | | | | |
| 10 | | | | | | B | 140 | 150 | C | C | C | C | C | C | C | C | C | C | B | S | | | | | |
| 11 | | | | | | | B | 130 ^B | 130 | 130 | 120 | 130 | 130 | 130 | A | A | 130 ^P | A | A | | | | | | |
| 12 | | | | | | | C | C | C | C | C | 100 | 100 | 110 | [110]A | 110 | 120 | 120 | B | | | | | | |
| 13 | | | | | | | C | C | C | 130 | 100 | 110 | 110 | C | C | A | A | 140 ^P | B | | | | | | |
| 14 | | | | | | | C | C | C | C | 100 | 100 | 110 | C | C | C | A | B | | | | | | | |
| 15 | | | | | | | C | C | C | C | 130 | 120 | 120 | 120 | 130 | C | C | C | C | | | | | | |
| 16 | | | | | | 130 | 130 | B | C | 110 | 100 | 110 | 130 | 130 | C | C | C | C | C | | | | | | |
| 17 | | | | | | | C | C | 110 | M | M | M | M | M | M | M | M | M | M | | | | | | |
| 18 | | | | | | | M | M | M | 120 ^A | 120 | 120 | 120 | 110 | 110 | B | A | A | 140 | | | | | | |
| 19 | | | | | | 120 | 130 | B | B | B | 130 | 120 | B | B | B | 120 | 120 | B | B | | | | | | |
| 20 | | | | | | 120 | 120 | 120 | 110 | 130 | 130 | 130 | 120 | 130 | 140 ^P | 120 | 140 ^P | B | B | | | | | | |
| 21 | | | | | | 120 | A | B | B | 110 | 120 | 120 ^B | 120 | A | A | B | B | 130 ^B | 140 ^B | | | | | | |
| 22 | | | | | | B | 120 | B | 130 | 20 | 120 | [120]F | 120 | 120 | 120 | 120 | B | B | | | | | | | |
| 23 | | | | | | | B | B | 120 | 120 | 120 | A | A | 120 | [120]A | 120 | 120 | A | | | | | | | |
| 24 | | | | | | | B | B | C | C | C | C | C | C | C | C | C | C | 130 | | | | | | |
| 25 | | | | | | 120 | 140 | 130 ^B | 120 | 110 | 130 | [120]B | 110 | [110]B | 110 | 100 | 110 | B | B | | | | | | |
| 26 | | | | | | | C | C | C | 100 | 100 | B | B | A | A | 110 | A | A | | | | | | | |
| 27 | | | | | | | M | M | M | M | B | 100 | 100 | 100 | 100 | 100 | 120 | B | | | | | | | |
| 28 | | | | | | 130 | 110 | 110 | 120 | 110 | 120 | 120 | B | A | A | A | A | B | | | | | | | |
| 29 | | | | | | | 130 ^B | 130 ^B | 130 ^P | A | A | B | B | A | 100 | [100]A | 100 | B | | | | | | | |
| 30 | | | | | | | B | 130 ^P | [120]B | 110 | A | A | A | 130 | A | A | 110 | B | B | | | | | | |
| 31 | | | | | | | C | C | C | 110 | 110 | 110 | 100 | 110 | 100 | 100 | 100 | B | B | | | | | | |
| Mean | | | | | | 130 | 130 | 130 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 130 | 140 | | | | | |
| Maximum | | | | | | 130 | 120 | 130 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 130 | 140 | | | | | |
| Minimum | | | | | | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 |
| Count | | | | | 7 | 12 | 15 | 18 | 22 | 23 | 24 | 19 | 19 | 18 | 17 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |

Sweep J.L.O. Mc to J.L.S. Mc in 2 min Manual Automatic

W 7

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

IONOSPHERIC DATA

Lat. 45° 23.6' N
Long. 141° 41.1' E

Wakkanai

May, 1953

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 | C | G | 4.1 | 4.0 | 4.3 | G | B | B | G | G | G | B | 3.8 | 4.6 | 3.6 | 3.0 | 3.0 | C |
| 2 | 4.5 | E | 1.5 | S | E | S | G | 4.4 | 4.0 | 5.0 | 5.0 | B | G | G | G | 3.1 | 3.1 | G | E | 3.0 | S | 3.0 | 3.2 | 3.2 |
| 3 | 2.5 | 2.1 | 1.2 | E | E | E | G | 3.8 | 4.0 | 4.1 | 4.1 | G | G | G | G | G | G | G | E | E | C | E | E | E |
| 4 | E | E | E | E | E | G | B | G | G | 4.0 | 4.0 | 4.0 | 3.7 | B | G | G | G | 3.5 | 3.6 | 2.8 | E | E | E | E |
| 5 | E | E | E | E | E | G | B | G | G | G | G | G | G | G | B | 3.8 | 3.8 | 5.7 | 4.0 | E | E | E | E | E |
| 6 | E | E | E | E | E | 1.1 | B | G | 3.8 | 5.0 | 4.2 | 4.2 | C | 3.8 | G | G | G | 3.8 | 3.8 | E | E | E | E | E |
| 7 | 3.2 | 3.8 | 3.8 | 3.0 | 3.8 | E | 4.0 | 5.2 | 3.8 | 5.2 | 5.5 | G | 4.0 | G | G | G | G | 4.0 | 4.0 | 3.1 | 3.6 | 3.0 | E | E |
| 8 | E | E | E | E | E | E | G | 3.5 | 4.5 | 5.0 | 5.5 | C | 3.8 | C | 3.8 | G | G | G | 3.2 | 3.2 | 3.4 | 2.9 | E | E |
| 9 | 3.0 | 2.8 | E | E | E | B | 3.8 | 3.8 | 3.8 | 4.4 | 4.8 | G | C | 3.5 | G | G | 3.0 | G | E | E | 3.0 | 2.5 | E | E |
| 10 | E | 2.7 | E | E | E | B | 3.3 | G | C | C | C | C | C | C | C | C | C | C | S | 4.0 | 2.4 | 2.6 | 3.0 | 4.0 |
| 11 | E | 1.4 | 2.5 | 3.0 | 3.2 | 4.0 | 3.9 | 3.9 | 5.0 | 4.4 | 4.5 | G | G | 3.8 | 4.2 | 3.4 | 3.4 | 4.0 | 3.8 | 3.9 | 4.0 | 3.0 | 3.8 | E |
| 12 | E | E | E | E | 1.2 | C | C | C | C | C | C | G | G | G | 3.5 | 3.8 | 3.8 | G | 3.9 | 4.8 | 2.9 | E | 2.6 | C |
| 13 | C | C | C | C | C | C | C | C | C | 4.0 | 4.4 | 5.0 | 6.7 | 6.3 | 5.4 | 4.5 | G | G | 3.9 | C | C | E | C | C |
| 14 | E | C | C | C | C | C | C | C | C | C | 6.5 | 4.5 | 3.6 | C | C | C | 5.5 | B | 4.0 | E | E | C | 3.0 | E |
| 15 | E | C | C | C | C | C | C | C | C | C | 4.0 | G | G | G | C | C | C | C | C | C | E | 2.6 | E | 3.8 |
| 16 | 3.2 | 2.4 | 3.2 | E | E | E | 3.0 | 5.4 | 5.6 | C | 7.0 | 4.0 | 3.9 | 6.0 | C | C | C | C | C | C | C | C | C | C |
| 17 | C | C | C | C | C | C | C | C | G | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 18 | M | M | M | M | M | M | M | M | M | 4.2 | 4.1 | 6.0 | M | G | G | B | 3.8 | 3.2 | G | 3.2 | F | E | E | E |
| 19 | E | E | E | E | E | E | E | E | E | B | G | 4.0 | G | 3.6 | 4.0 | 3.8 | 4.0 | G | G | E | E | E | E | E |
| 20 | E | 2.6 | 3.7 | 5.9 | 6.0 | 4.2 | 4.0 | C | 4.0 | 4.0 | 5.6 | 5.0 | 6.0 | 6.0 | 4.2 | 7.5 | 6.0 | B | S | S | E | E | E | C |
| 21 | 3.6 | 6.0 | 3.8 | 3.2 | 3.0 | 5.5 | 6.0 | 3.6 | 6.0 | 6.0 | 6.0 | 3.8 | 3.5 | 3.6 | 3.6 | B | 3.6 | 3.8 | 4.0 | 3.2 | E | 3.2 | 3.0 | 1.6 |
| 22 | 1.6 | E | 1.6 | E | E | E | G | 3.8 | 5.2 | 4.3 | 4.0 | B | 3.8 | 3.9 | 3.8 | G | B | 3.8 | 3.8 | 4.3 | 3.8 | 3.8 | 5.0 | 4.6 |
| 23 | E | 5.0 | 5.5 | 1.6 | 1.6 | 3.8 | 5.7 | 3.9 | 6.0 | 6.0 | 5.0 | 5.5 | 5.0 | 6.0 | 6.0 | 4.0 | G | 6.0 | 4.5 | 5.5 | C | 6.0 | 6.0 | 6.0 |
| 24 | 3.4 | E | E | E | E | E | B | B | C | C | C | C | C | C | C | C | C | 4.0 | 6.0 | 5.0 | 4.3 | 2.8 | 2.5 | E |
| 25 | 1.2 | E | E | E | E | E | G | 3.6 | 5.2 | 4.0 | G | 4.0 | 4.0 | 3.8 | 3.8 | G | G | B | 2.6 | C | E | C | E | E |
| 26 | C | E | E | E | E | C | C | C | C | 6.4 | 5.9 | 3.6 | 3.6 | 3.5 | 5.9 | G | 3.2 | 3.4 | 5.2 | 5.8 | 3.7 | 4.0 | 3.9 | 3.8 |
| 27 | 3.8 | 3.6 | C | 3.8 | 5.0 | 3.8 | M | M | M | M | 6.5 | 4.5 | 3.8 | 4.0 | G | 3.4 | G | G | 1.6 | E | 2.6 | 5.0 | 4.7 | 3.9 |
| 28 | 3.0 | E | 2.4 | 4.0 | 3.6 | 3.6 | 5.0 | 5.0 | 5.1 | 4.0 | 6.0 | 5.5 | 4.0 | 3.5 | 3.5 | 3.4 | 4.0 | 3.9 | 4.4 | 3.6 | 4.6 | 3.6 | 3.2 | 2.5 |
| 29 | 3.4 | 3.0 | 2.6 | S | S | 2.2 | 3.6 | 3.6 | G | 6.4 | 5.9 | 5.4 | 4.4 | 3.8 | 4.2 | 4.3 | 5.6 | 6.0 | 6.0 | 6.0 | 6.0 | 3.6 | 6.0 | 6.0 |
| 30 | 3.6 | 3.0 | E | E | E | 3.6 | 3.6 | 4.0 | 4.0 | 4.4 | 6.3 | 6.7 | 6.2 | 5.2 | 5.5 | 6.0 | 4.0 | 6.7 | 3.8 | 3.8 | C | 3.6 | 3.8 | 3.8 |
| 31 | S | C | C | C | C | C | C | C | C | 6.0 | 6.8 | 6.6 | 6.0 | 5.6 | 6.0 | G | G | G | 3.4 | 3.8 | 3.4 | 3.8 | C | C |
| Mean Value | 3.1 | 3.2 | 2.9 | 3.5 | 3.0 | 3.4 | 4.3 | 4.2 | 4.5 | 5.0 | 5.1 | 4.9 | 4.5 | 4.4 | 4.5 | 4.3 | 4.1 | 4.5 | 3.9 | 4.1 | 3.7 | 3.4 | 3.8 | 3.9 |
| Median Value | E | E | E | E | E | 1.4 | 3.8 | 3.7 | 4.0 | 4.4 | 5.0 | 4.1 | 3.8 | 3.8 | 3.6 | 3.1 | 3.0 | 3.4 | 3.8 | 3.2 | 2.8 | 2.9 | 2.6 | E |
| Count | 26 | 25 | 24 | 22 | 24 | 20 | 17 | 20 | 19 | 23 | 27 | 26 | 24 | 25 | 24 | 23 | 25 | 22 | 26 | 25 | 24 | 27 | 27 | 24 |

fEs

Sweep 1.0... Mc to 1.5.5... Mc in Z... min

Manual Automatic

W 8

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

Lat. 40° 23.6' N
Long. 141° 41.1' E

Wakkanai

IONOSPHERIC DATA

135° E Mean Time

May, 1953

(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 | S | S | S | S | S | 3.1P | C | B | B | B | B | B | B | B | B | B | B | B | B | B | S | S | S | C |
| 2 | S | 3.0 | 2.9P | 2.9 | 2.9P | 3.0 | 3.1 | 3.0 | 3.0 | 2.9 | B | B | B | B | B | 3.1P | B | B | S | S | S | 3.1 | S | S |
| 3 | S | S | 3.0F | (3.0)F | S | S | (3.0) | (3.2)B | 3.4 | B | 3.1 | 3.0P | 2.9P | 2.9F | 2.9P | 2.9P | 2.9P | 3.0 | 3.0F | (3.0)P | S | (2.9) | (2.9) | 2.7 |
| 4 | (2.7)S | 2.7 | 2.8 | 2.9P | 3.0 | 3.2 | 3.2 | 3.2 | 3.0 | 3.1 | 3.0 | B | B | B | B | B | B | 3.0 | 3.0 | 3.0 | 3.0 | (3.0)S | 2.9P | (2.8)P |
| 5 | (2.9)S | 2.7 | 2.6 | 2.9 | 2.8 | 3.0M | 3.2 | 3.2 | 3.0 | 2.9 | 2.9 | 2.9P | B | B | B | B | 3.0P | A | S | S | 2.4 | S | S | S |
| 6 | S | S | 2.6 | 2.6 | 2.9 | 3.1 | B | B | B | B | B | B | B | B | B | B | 2.9 | (3.0)P | 3.0 | S | 2.4 | S | S | (2.8)S |
| 7 | S | 2.9P | (2.8)S | 2.8P | (3.0)A | 3.1K | B | A | B | B | B | B | B | B | B | B | B | (2.9)P | (2.9)P | (2.9)P | S | (2.9)P | S | 2.7K |
| 8 | (2.8)K | 2.7K | 2.6K | 3.0K | 3.0K | 2.7HK | B | B | B | B | B | B | B | B | B | B | 2.9K | 2.9K | 2.8K | S | 2.9K | 2.8K | 2.9K | 3.0K |
| 9 | 2.7K | 2.6K | 2.6K | 2.5K | 3.0K | 2.6K | B | B | B | B | B | B | B | B | B | B | B | B | 2.8K | 2.8K | 2.8K | 2.8K | 2.8K | 2.8K |
| 10 | 2.7K | 2.8K | 2.6K | 2.8K | 2.8K | 2.9K | 2.7K | 2.7K | 0 | C | C | C | C | C | C | C | C | C | 2.9K | 2.8K | 2.9K | 3.0F | 2.8K | 2.8K |
| 11 | 2.7K | 2.8K | 2.9K | 2.7K | 2.8 | 3.2 | 3.1 | B | B | B | B | B | B | B | B | 3.2 | 3.1 | (3.1)B | 3.1F | S | 3.1 | 2.9P | 2.9P | (2.9)S |
| 12 | 2.9P | 3.0 | 3.1F | 3.3P | 3.3 | C | C | C | C | C | C | 2.9F | 2.6F | B | B | 2.7 | 3.2F | 2.9P | 2.9 | (2.8)S | 2.8 | 2.6 | (2.9)P | C |
| 13 | C | C | C | C | C | C | C | C | C | C | 2.8V | A | A | A | A | 3.3 | 3.0 | 2.4 | 3.1 | (3.0)S | C | 2.7 | C | C |
| 14 | S | C | C | C | C | C | C | C | C | C | 2.7 | 2.9 | B | C | C | C | B | B | B | S | 3.9F | C | S | 3.0P |
| 15 | 3.1 | C | C | C | C | C | C | C | C | C | B | B | 2.5 | 2.6 | C | C | C | C | C | C | (2.9) | (2.9)P | (2.9)P | 3.0 |
| 16 | 2.8 | 2.7 | 2.9 | 2.7 | 3.0V | S | A | A | C | A | A | B | B | A | M | M | M | M | M | M | C | C | C | C |
| 17 | C | C | C | C | C | C | C | C | C | A | A | B | B | B | M | M | M | M | M | M | C | C | C | C |
| 18 | M | M | M | M | M | M | M | M | M | B | B | A | A | A | M | M | M | M | M | M | M | M | M | M |
| 19 | 2.8 | 2.8 | 3.0 | 3.1 | 3.2 | 3.2 | B | B | B | B | B | B | B | B | B | 3.0 | 2.9 | 3.1 | 3.2 | 3.1 | (3.0) | 2.8F | 2.9 | 2.5P |
| 20 | 3.0P | (2.8)P | 2.9 | (3.0)P | 3.0 | 2.9P | 2.9 | 3.0 | B | B | B | B | B | B | B | A | A | 2.8 | 3.0 | 2.9 | 2.8 | (2.6)P | (2.6)P | (2.7)P |
| 21 | 3.1 | (3.0)P | (3.0)P | 3.1 | 3.1 | A | 3.1 | A | B | B | B | B | B | B | B | A | A | A | 2.8 | 2.7 | 3.1 | 2.9 | 2.7 | 3.0 |
| 22 | 2.9 | 2.9 | S | S | 3.0P | 3.1P | B | B | B | B | B | B | B | B | B | B | 3.1P | 2.8 | 3.1 | (2.9)P | 2.8 | 2.9 | 2.8 | (2.7)P |
| 23 | 2.9 | 2.9P | (2.8) | (2.9)P | (3.0)P | (3.2)P | A | C | A | A | B | A | A | A | A | A | 2.9 | 2.9 | 3.0 | 3.0 | 2.9 | 2.8 | 2.8 | 2.7 |
| 24 | 3.0P | (3.0)P | (3.0)P | 2.9F | 3.0 | (2.9)P | 2.9 | 2.9P | C | C | C | C | C | C | C | C | 3.2 | (3.2)P | 3.1 | 3.0P | C | A | 2.8 | 2.8 |
| 25 | 2.8P | 2.7 | 2.9P | 2.9P | 2.9P | 2.7 | 2.8 | (3.0)P | 3.2 | B | B | B | 3.0 | 2.7 | (2.8)P | 3.0 | 3.1 | 2.9 | 3.1 | (3.0)P | 2.9 | (2.8)P | 2.8 | 2.8 |
| 26 | (2.8)P | 2.8 | 2.9P | C | C | C | C | C | C | A | A | B | B | B | B | 2.9 | 2.8 | (2.8)P | 2.8 | 2.8F | 2.6 | S | (2.8)P | 2.7P |
| 27 | 2.6F | (2.7)P | (2.8)P | (2.8)P | (2.7)P | S | M | M | M | M | M | A | 2.8 | 2.8 | (2.9)P | (3.0)P | (3.1)P | (3.2)P | (3.1)P | 3.0P | 3.0P | 3.0P | A | S |
| 28 | (3.0)P | 2.8 | 3.0V | 2.8F | 2.8 | 2.6 | A | A | B | B | A | A | B | B | B | B | 3.3 | (3.1)P | 2.9 | 2.9 | 2.7 | (2.8)S | 2.8 | (2.8)S |
| 29 | (2.8)P | 2.8 | 2.9P | 2.9P | (2.8)S | (3.0)P | 3.1 | B | B | A | A | 3.1 | 2.4 | 2.6 | 3.2 | 3.4 | 3.2 | (3.0)P | 2.8 | A | A | 2.7P | A | A |
| 30 | (2.9)P | (3.0)P | (2.9) | 3.2P | 3.1P | 3.2P | (3.4)P | A | B | A | 3.1F | (3.0)A | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | (2.8)A | (2.6)P | 2.9 | C | S | 2.9 | (2.8)P |
| 31 | S | C | C | C | C | C | C | C | C | A | A | A | A | A | 2.8 | B | M | 2.9 | 3.0 | 3.1 | (3.2)P | 3.0 | C | C |
| Mean Value | 2.9 | 2.8 | 2.8 | 2.9 | 3.0 | 3.0 | 3.1 | 3.1 | 3.1 | 3.0 | 2.9 | 2.9 | 2.7 | 2.8 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.8 | 2.8 |
| Median Value | 2.8 | 2.8 | 2.9 | 2.9 | 3.0 | 3.0 | 3.1 | 3.0 | 2.9 | 3.0 | 2.9 | 2.9 | 2.7 | 2.8 | 3.0 | 3.0 | 2.9 | 3.0 | 3.0 | 2.9 | 2.9 | 2.9 | 2.8 | 2.8 |
| Count | 21 | 22 | 23 | 21 | 19 | 12 | 10 | 5 | 3 | 6 | 9 | 7 | 7 | 6 | 10 | 14 | 1.8 | 2.4 | 2.2 | 1.9 | 1.8 | 2.1 | 1.8 | 2.1 |

Sweep 1.0 Mc to 1.5.5 Mc in 2 min Manual Automatic

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

IONOSPHERIC DATA

Lat. 41° 23.6' N
Long. 141° 41.1' E

Wakanaï

May, 1953

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 | 2.2 | 2.2 | 1.5 | 2.2 | 2.4 | 2.2 | 3.2 | 3.2 | B | B | B | B | B | B | B | B | B | B | (3.5) ^A | (3.2) ^A | 2.8 ^A | 2.4 ^A | 2.4 ^A | (2.6) ^C |
| 2 | 2.8 ^A | 1.4 | 1.6 | 2.4 ^S | 1.4 | 2.8 | 2.2 | 3.6 ^A | 3.7 | 4.7 ^A | A | B | 5.0 | (5.2) ^B | 5.5 | 5.0 | 5.0 | 3.0 | 2.5 | 2.4 | (2.7) ^S | 3.0 ^A | 2.2 ^A | 2.6 ^A |
| 3 | 2.9 | 2.2 | 2.4 | 2.2 | 1.4 | 2.2 | 3.2 | (4.0) ^A | 5.0 | 4.1 | 4.7 | 3.9 | 4.9 | 3.4 | 3.3 | 3.3 | 2.8 | 2.6 | 2.2 | 2.2 | 3.6 | 2.2 | 1.5 | 2.2 |
| 4 | 1.5 | E | E | E | 2.0 | 2.3 | 2.7 | 3.3 | 3.5 | 4.7 | 5.0 | 4.5 | A | B | B | B | 5.0 | 2.7 | 2.5 ^A | 2.3 | 2.3 | 2.2 | 2.0 | 1.6 |
| 5 | 2.2 | E | E | E | 2.2 | 2.2 | 3.8 | 3.3 | 3.6 | 4.6 | 4.7 | 3.9 | 4.7 | 4.6 | B | A | 2.9 | A | A | 2.2 | 2.2 | 2.4 | 2.4 | 2.4 |
| 6 | 2.4 | 2.2 | 1.1 | E | 1.0 | 2.2 | 3.1 | 3.4 | A | A | A | A | C | A | 3.2 | 3.5 | 3.2 | 3.2 ^A | 3.0 ^A | 1.5 | 2.2 | 2.2 | 2.2 | 1.5 |
| 7 | 1.5 | 3.4 ^A | (2.7) ^A | 2.0 ^A | (2.2) ^A | 2.4 | A | A | A | A | A | B | A | B | B | 3.2 | 2.8 | 3.0 | 3.3 ^A | 2.2 ^A | 2.6 ^A | 2.0 | 2.0 | 2.0 |
| 8 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 | 2.2 | 2.9 | 2.9 | B | A | A | A | C | A | 3.2 | 3.0 | 2.9 | 2.8 | 2.6 ^A | 2.8 ^A | 2.8 ^A | 2.4 ^A | 2.4 | 2.4 |
| 9 | 2.4 ^A | 2.3 ^A | 2.2 | 1.8 | 2.2 | 2.3 | A | B | A | A | A | B | B | B | B | B | 3.0 | 2.8 | 2.6 | 2.2 | 2.2 ^A | 2.2 | 1.2 | 1.5 |
| 10 | E | 1.6 | E | E | 1.4 | 2.2 | 2.4 | 3.2 | C | C | C | C | C | C | C | C | C | 2.7 | 2.2 | 2.6 ^A | 2.2 ^A | 2.3 ^A | 2.7 ^A | 2.7 ^A |
| 11 | E | 1.4 | 2.0 ^A | 2.2 ^A | 2.4 ^A | 2.6 ^A | 2.8 | 3.0 | B | B | B | B | B | B | 5.0 | 3.0 | 2.8 | 3.0 ^A | 2.8 | 2.4 ^A | 2.0 ^A | 2.0 ^A | 2.0 ^A | 1.6 |
| 12 | 1.4 | E | 2.2 | 2.0 | 2.3 | C | C | C | C | C | C | 3.5 | 3.6 | 3.5 | 3.4 | 3.6 | 2.9 | 2.7 | 2.8 ^A | 2.8 ^A | 2.2 | 1.4 | 1.6 | C |
| 13 | C | C | C | C | C | C | C | C | C | A | 3.7 | 3.8 | A | A | 4.0 ^A | 4.0 | 3.2 | 2.4 | 4.0 | C | C | 1.4 | C | C |
| 14 | E | C | C | C | C | C | C | C | C | C | 4.9 ^A | 4.8 | A | C | C | C | A | 2.6 | (2.3) ^C | 2.0 | 2.2 | C | A | 2.2 |
| 15 | E | C | C | C | C | C | C | C | C | C | A | B | 4.4 | 3.5 | C | C | C | C | C | C | 1.5 | 2.4 ^A | 2.2 | 1.5 |
| 16 | 1.5 | 2.0 | E | E | 1.5 | 2.2 ^A | A | A | C | A | A | A | A | C | C | C | C | C | C | C | C | C | C | C |
| 17 | C | C | C | C | C | C | C | C | 3.1 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 18 | M | M | M | M | M | M | M | M | M | 3.4 | B | A | M | M | 3.3 | 3.0 | 2.9 | 3.4 ^A | 2.7 | 2.2 | 2.2 ^A | 1.5 | 1.5 | 1.5 |
| 19 | E | 1.5 | E | E | 1.5 | 2.4 | 2.7 | 3.2 | (3.2) ^B | 3.2 | 3.4 | B | B | B | 3.9 | (3.7) ^B | 3.5 | 3.0 | 2.8 | 2.7 | 2.1 | 1.5 | 1.5 | 1.5 |
| 20 | 2.2 | 1.5 | 2.6 ^A | A | A | 3.3 ^A | 3.3 ^A | C | A | A | A | A | A | A | A | A | A | A | 2.5 | 2.3 | 2.6 | 2.2 | 2.4 | 2.4 |
| 21 | 3.0 ^A | (3.0) ^A | 3.0 ^A | 2.2 ^A | 1.9 | A | A | 2.9 | A | A | A | A | 3.4 | A | A | B | 4.0 | 3.8 ^A | 3.0 ^A | 2.8 ^A | 1.5 | 2.7 ^A | 2.2 ^A | 1.5 |
| 22 | 2.4 | E | 1.3 | 2.9 | 1.4 | 2.3 | 2.8 | B | A | B | B | B | B | B | B | 3.0 | 2.8 | 2.7 | 3.3 ^A | 4.0 ^A | 3.8 ^A | 2.8 ^A | 3.8 ^A | |
| 23 | 1.4 | 3.6 ^A | 2.4 | 2.4 | 2.4 | 2.4 | A | A | A | A | A | A | A | A | A | A | 2.9 | 2.9 | 4.0 ^A | 4.0 ^A | C | A | 2.6 ^A | |
| 24 | 2.4 ^A | E | 2.4 | 2.2 | 2.4 | 2.4 | 3.0 | 2.8 | C | C | C | C | C | C | C | C | C | 4.9 | (3.5) ^A | 2.1 ^A | 4.0 ^A | 2.0 | 1.5 | |
| 25 | E | E | E | E | 1.3 | 2.4 | 3.0 | 3.5 | 5.0 ^A | A | B | A | 5.0 | (4.3) ^B | 3.6 | 3.3 | 2.9 | 2.8 | 2.5 | (2.4) ^C | 2.4 | (2.3) ^C | 2.2 | 2.3 |
| 26 | (2.2) ^C | 2.2 | E | C | C | C | C | C | C | A | A | B | B | A | 4.5 ^A | 4.4 | 3.1 | 2.6 | 4.8 ^A | 2.8 ^A | 2.3 ^A | (2.2) ^A | 2.2 ^A | |
| 27 | 2.3 ^A | 2.8 ^A | (2.6) ^C | 2.4 ^A | 2.8 ^A | A | M | M | M | M | A | 4.1 | 4.0 | 3.9 | 4.4 | 2.9 | 2.6 | 2.3 | 2.2 | 1.4 | 2.2 ^A | 3.3 ^A | A | |
| 28 | 2.4 ^A | 1.0 | 1.4 | E | 2.8 ^A | 2.6 | A | A | A | A | A | A | A | B | B | B | 4.0 ^A | 4.0 ^A | 3.9 ^A | 2.8 ^A | 4.8 ^A | 2.8 ^A | 2.4 ^A | |
| 29 | 2.3 ^A | 2.3 ^A | 2.4 | 2.2 ^A | 2.2 ^A | 2.4 ^A | (2.6) ^A | 2.8 | B | A | A | 4.1 | 4.0 | 3.8 | 3.6 | 3.5 | 3.4 | (3.1) ^A | 2.8 ^A | A | A | 5.0 | A | |
| 30 | 1.1 | 1.2 | 1.1 | 1.1 | 2.3 ^A | 2.7 ^A | 2.6 | A | A | 4.5 ^A | (4.5) ^A | 4.5 ^A | 4.5 ^A | 5.0 ^A | 5.3 ^A | 5.3 ^A | 4.9 | 4.9 | (3.7) ^A | 2.9 ^A | 4.2 | (4.7) ^C | 5.2 | |
| 31 | S | C | C | C | C | C | C | C | C | A | B | A | A | A | 5.3 ^A | 3.4 | (3.0) ^M | 2.6 | 2.3 | 2.5 ^A | 2.5 ^A | 2.4 ^A | C | |
| Mean Value | 2.1 | 2.1 | 2.0 | 2.2 | 2.0 | 2.4 | 2.9 | 3.2 | 3.9 | 4.1 | 4.4 | 4.1 | 4.4 | 4.0 | 4.1 | 3.5 | 3.3 | 3.0 | 2.9 | 2.6 | 2.6 | 2.5 | 2.2 | 2.1 |
| Minimum Value | 2.2 | 1.6 | 1.6 | 2.0 | 2.2 | 2.4 | 2.8 | 3.2 | 3.6 | 4.4 | 4.7 | 4.1 | 4.4 | 3.9 | 3.7 | 3.4 | 3.0 | 2.8 | 2.8 | 2.4 | 2.2 | 2.3 | 2.2 | 2.2 |
| Count | 27 | 25 | 25 | 23 | 23 | 21 | 16 | 14 | 7 | 6 | 7 | 9 | 10 | 11 | 15 | 18 | 23 | 26 | 27 | 26 | 26 | 27 | 24 | 24 |

Sweep 1.0... Mc to 1.5.5. Mc in ... min

Manual Automatic

fminF

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

Lat. 45° 23.6' N
Long. 141° 41.1' E

Wakkanai

IONOSPHERIC DATA

135° E Mean Time

f_{min}E

May, 1953

| 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 | C | Z.3 | Z.4 | Z.4 | Z.3 | Z.4 | B | B | Z.4 | Z.4 | Z.2 | [Z.2]B | Z.2 | Z.0 | Z.2 | /.6 | /.6 | [Z.5]C |
| 2 | /.4 | E | E | S | E | S | /.3 | /.8 | /.9 | Z.2 | Z.1 | [Z.5]B | Z.4 | Z.2 | Z.1 | Z.9 | Z.4 | /.4 | E | Z.4 | [Z.4]S | Z.4 | /.6 | /.6 |
| 3 | Z.2 | E | E | E | E | E | /.5 | /.5 | Z.4 | Z.2 | Z.6 | /.8 | Z.2 | Z.2 | Z.2 | Z.3 | Z.2 | Z.2 | E | E | C | E | E | E |
| 4 | E | E | E | E | E | E | /.0 | [Z.2]B | Z.2 | Z.4 | Z.4 | Z.4 | Z.5 | [Z.4]B | Z.4 | Z.7 | Z.2 | Z.3 | /.4 | Z.3 | E | E | E | E |
| 5 | E | E | E | E | E | E | /.4 | /.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.8 | Z.4 | [Z.4]B | Z.4 | Z.4 | /.4 | /.4 | E | E | E | E | E |
| 6 | E | E | E | E | E | E | Z.0 | Z.4 | Z.4 | Z.4 | Z.4 | Z.5 | [Z.0]C | /.5 | Z.2 | /.5 | /.5 | /.5 | Z.3 | E | E | E | E | E |
| 7 | E | E | E | E | E | E | /.1 | Z.7 | Z.2 | Z.4 | Z.6 | Z.3 | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.3 | Z.3 | E | E | Z.2 | E | E |
| 8 | E | E | E | E | E | E | Z.3 | Z.4 | [Z.4]B | Z.4 | Z.4 | Z.4 | [Z.6]B | Z.8 | Z.6 | Z.4 | Z.4 | Z.4 | /.6 | E | /.4 | E | E | E |
| 9 | E | E | E | E | E | E | Z.1 | Z.7 | Z.4 | Z.4 | Z.2 | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.2 | /.5 | Z.0 | E | /.4 | Z.2 | E | E |
| 10 | E | E | E | E | E | E | /.5 | Z.4 | C | C | C | C | C | C | C | C | C | B | S | Z.4 | Z.0 | /.4 | /.4 | /.4 |
| 11 | E | E | E | E | E | E | Z.1 | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.2 | Z.2 | Z.4 | /.4 | Z.0 | Z.1 | /.4 | /.6 | /.6 | E |
| 12 | E | E | E | E | E | E | C | C | C | C | C | Z.0 | Z.1 | Z.4 | Z.3 | Z.4 | Z.0 | E | /.7 | /.5 | /.5 | E | /.5 | C |
| 13 | C | C | C | C | C | C | C | C | C | C | Z.3 | Z.1 | Z.4 | Z.4 | Z.1 | Z.4 | Z.0 | Z.1 | Z.7 | C | C | E | C | C |
| 14 | E | C | C | C | C | C | C | C | C | C | C | Z.1 | Z.4 | C | C | C | Z.2 | [Z.3]B | Z.4 | E | E | C | Z.2 | E |
| 15 | E | C | C | C | C | C | C | C | C | C | Z.8 | Z.0 | Z.5 | Z.5 | C | C | C | C | C | C | E | /.5 | E | /.5 |
| 16 | E | E | E | E | E | E | /.5 | Z.7 | [Z.4]B | Z.2 | Z.1 | Z.5 | Z.7 | Z.6 | C | C | C | C | Z.4 | Z.1 | /.4 | /.6 | /.6 | E |
| 17 | C | C | C | C | C | C | C | C | Z.4 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 18 | M | M | M | M | M | M | M | M | M | Z.7 | Z.1 | Z.4 | Z.8 | Z.5 | Z.4 | Z.7 | /.5 | /.4 | /.5 | /.5 | E | E | E | E |
| 19 | E | E | E | E | E | E | /.5 | Z.8 | Z.8 | [Z.4]B | Z.4 | Z.4 | Z.1 | Z.4 | Z.8 | Z.4 | Z.3 | Z.5 | Z.4 | E | E | E | E | E |
| 20 | E | E | E | E | E | E | /.5 | /.5 | Z.1 | Z.4 | Z.8 | Z.4 | Z.2 | Z.7 | Z.8 | Z.4 | Z.3 | B | B | S | E | E | E | C |
| 21 | E | E | E | E | E | E | /.4 | Z.6 | Z.9 | Z.0 | Z.2 | Z.8 | Z.8 | Z.8 | Z.8 | Z.4 | Z.7 | /.5 | /.5 | Z.2 | E | /.5 | /.5 | /.5 |
| 22 | E | E | E | E | E | E | /.5 | Z.7 | Z.7 | Z.7 | Z.8 | [Z.8]B | Z.8 | Z.8 | Z.8 | Z.8 | B | B | Z.4 | /.4 | /.4 | /.4 | /.4 | /.4 |
| 23 | E | /.4 | /.0 | /.1 | /.2 | Z.4 | Z.5 | Z.8 | Z.7 | Z.8 | Z.2 | Z.4 | Z.4 | Z.4 | Z.4 | Z.2 | Z.4 | Z.2 | Z.0 | Z.0 | [Z.2]B | Z.4 | Z.0 | Z.0 |
| 24 | /.8 | E | E | E | E | E | B | B | C | C | C | C | C | C | C | C | C | /.5 | /.4 | /.5 | /.5 | /.5 | E | E |
| 25 | E | E | E | E | E | E | Z.3 | Z.4 | Z.2 | Z.5 | Z.8 | Z.3 | Z.5 | Z.4 | Z.4 | Z.1 | /.5 | [Z.8]B | Z.2 | C | E | C | E | E |
| 26 | C | E | E | E | E | E | C | C | C | C | Z.4 | Z.6 | Z.3 | Z.7 | Z.5 | Z.4 | Z.6 | /.6 | /.4 | /.4 | /.4 | /.4 | /.4 | /.4 |
| 27 | /.5 | E | E | E | E | E | C | C | C | C | Z.4 | Z.3 | Z.4 | Z.7 | Z.4 | Z.4 | Z.2 | Z.2 | /.4 | E | /.4 | /.4 | /.4 | /.4 |
| 28 | /.0 | E | E | E | E | E | /.3 | /.4 | Z.4 | Z.4 | Z.7 | Z.5 | Z.3 | Z.8 | Z.8 | Z.5 | Z.0 | Z.7 | Z.2 | /.5 | Z.0 | /.5 | /.5 | Z.2 |
| 29 | /.1 | /.1 | /.5 | [Z.4]S | /.2 | Z.4 | Z.3 | Z.4 | Z.8 | Z.3 | Z.8 | Z.4 | Z.7 | Z.3 | Z.2 | Z.1 | Z.4 | Z.4 | Z.2 | /.4 | /.5 | /.5 | /.5 | /.5 |
| 30 | /.5 | /.1 | E | E | E | E | Z.5 | Z.4 | Z.7 | Z.3 | Z.0 | Z.3 | Z.1 | Z.8 | Z.8 | Z.5 | Z.4 | Z.4 | Z.0 | Z.0 | [Z.8]B | /.6 | /.5 | /.4 |
| 31 | S | C | C | C | C | C | C | C | C | Z.3 | Z.4 | Z.4 | Z.4 | Z.4 | Z.1 | Z.4 | Z.2 | Z.4 | Z.1 | /.4 | /.4 | /.4 | C | C |
| Mean | /.5 | /.2 | /.3 | /.3 | /.2 | /.5 | /.8 | Z.2 | Z.5 | Z.4 | Z.5 | Z.5 | Z.4 | Z.5 | Z.5 | Z.4 | Z.2 | Z.0 | /.9 | /.8 | /.7 | /.7 | /.6 | /.6 |
| Median | E | E | E | E | E | E | E | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 | Z.4 |
| Count | Z.6 | Z.5 | Z.4 | Z.3 | Z.4 | Z.1 | /.8 | Z.1 | Z.4 | Z.4 | Z.4 | Z.8 | Z.7 | Z.6 | Z.5 | Z.5 | Z.5 | Z.5 | Z.6 | Z.5 | Z.5 | Z.7 | Z.7 | Z.5 |

Sweep 1.0... Mc to 15.5... Mc in 2... min Manual Automatic

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

Lat. 39° 43.5' N
Long. 140° 09.2' E

Akita

IONOSPHERIC DATA

May. 1953

185° E Mean Time

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 | B | B | B | 5.2 | 4.8 | 5.5 | 5.3 | 5.8P | 7.3 | (6.8)P | 6.3 | 7.0 | 8.5 | 8.3 | 7.7 | 7.8 | 7.5 | 6.7 | 6.5 | 6.7 | 6.5 | 6.0J | 5.7 | 5.6 | |
| 2 | (5.6)J | (5.5)P | 5.0 | C | C | C | C | 5.2 | 5.9 | 5.4 | 6.3 | 7.0 | 7.4 | 7.6 | 8.0 | 7.5 | 6.0 | 1.56 | 5.6 | 6.2 | 6.1 | 6.1 | 5.7 | 5.5 | |
| 3 | 5.4P | C | C | C | C | C | C | 4.8 | C | C | 5.6 | 5.4 | 5.8 | T | C | C | C | C | T | T | 6.3 | 5.7 | 5.6 | (5.6)P | |
| 4 | 5.5 | (5.4)P | 5.2 | 4.8 | 4.5 | (4.7)P | 4.9 | 4.8 | B | B | 5.7 | B | B | B | B | 6.9 | (6.4)P | (6.6) | (6.5)P | 6.6 | (6.5)P | 6.0 | 5.6 | 5.8 | |
| 5 | 5.6 | (4.7)P | (5.3)B | 5.9 | 4.5P | 4.3 | 5.0 | 5.7P | 5.2 | 5.3 | B | B | B | 7.9 | (6.9)P | 5.9P | 6.8 | 6.0P | 6.8 | (6.4)P | 6.6 | 6.4 | 6.2 | 5.6 | |
| 6 | 5.6 | 5.5 | 5.2 | 4.7 | 4.2 | 4.3 | (4.5)P | 5.5 | 5.4 | 5.5 | A | A | 6.6 | 6.6 | 7.8 | A | 5.5 | 6.2 | 5.3 | C | C | C | C | C | |
| 7 | 5.3 | 5.1 | A | 2.9K | 3.6K | 3.6K | 4.3K | 4.5K | A | A | A | A | B | A | 4.8K | 5.0K | A | A | A | A | 4.9K | 4.6K | 4.4K | 3.8K | |
| 8 | 4.0K | 3.8K | 3.8K | 3.9K | 3.8K | 3.5K | 3.7K | 4.1K | 4.3K | C | 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 | 3.5K | 3.6K | 3.5K | (3.4)K | 3.3K | (3.9)K | 4.4K | 4.4K | G | G | 4.7K | B | 4.7K | 5.1K | 5.2K | 5.5K | 5.6K | 5.1K | 5.2K | 5.0P | 5.2K | 5.1K | 4.5K | 3.5K | |
| 11 | (3.4)K | 3.1K | 3.2K | 3.3K | 3.4F | (4.0) | 4.5 | 4.8 | 4.8 | 5.5 | (5.2) | 5.0 | 5.2 | 5.5 | 6.1 | 6.1 | 6.0 | 5.6 | 5.3 | 5.6 | 5.4 | 5.1 | 5.0 | 4.9 | |
| 12 | 4.5 | 4.5 | 4.0 | 3.8P | 3.0 | 3.5 | 3.7 | 4.0 | 4.7 | 4.8 | 5.1 | 4.9 | (4.8)A | 4.7 | 5.2 | 5.2 | 5.0 | 4.8P | 4.4 | 4.7 | 5.1 | 4.7 | 4.7 | 4.5 | |
| 13 | 4.0F | 3.6F | 3.4F | 3.3F | 3.0F | 3.7 | 4.6 | 4.7 | (4.7)P | A | A | 5.7 | 5.5 | 5.6 | 5.0 | 5.4 | 5.0 | 5.5 | 5.7 | 5.6 | 5.2 | 4.8 | 4.7 | 4.6 | |
| 14 | 4.4F | 3.9F | 3.7F | 3.6F | 3.2F | 3.9 | 4.4 | (4.6)A | 4.8 | 5.3 | A | A | A | A | 5.9J | 5.7 | 5.7 | 5.7 | (5.2)A | 4.8 | 5.2 | 4.8 | 4.6 | 4.7P | |
| 15 | 4.7F | 4.0F | 3.6F | 3.9F | 3.7 | (4.3)P | 4.9P | 5.5 | 5.2 | (5.0)A | 4.8 | 4.9 | 5.4 | 6.1 | 6.8 | 6.9 | 6.8 | 6.0P | (6.2)A | 6.5 | 5.2 | 4.7 | 4.6 | 4.6F | |
| 16 | (4.4)F | 4.2F | 3.9F | 3.8F | (3.8)P | 3.3 | 4.2 | (4.4)A | 4.5 | A | A | A | A | 6.0 | 6.2 | 6.3 | 7.5 | 6.5 | 6.0 | 4.9 | 5.5P | 5.1P | 4.7 | 4.3F | |
| 17 | 4.2F | 4.4 | 4.7P | 4.1F | 3.3K | 3.5K | 3.9K | A | T | C | C | C | C | B | C | C | W | B | B | 3.7K | 4.1K | 3.5K | 3.3K | 3.5K | |
| 18 | 3.5K | 3.4K | 3.7K | 3.0K | 3.0K | 3.5K | 4.1K | G | 4.4K | 4.5K | 4.6K | 4.8K | B | 5.7K | 6.3K | 6.8K | 6.3K | 5.7K | 6.9K | 5.7K | 5.3K | 4.7K | 4.7K | 4.5K | |
| 19 | 4.3K | 3.8K | 3.7K | 3.2K | 3.2K | 3.5K | (3.9)K | 4.3K | B | B | B | B | 5.1K | 4.8K | 5.8K | 5.6K | 6.0K | 6.4K | 5.3K | (5.2)K | 5.2K | 4.8K | 5.2K | 4.6K | |
| 20 | T | 3.7K | 4.0K | 3.7K | 3.2K | 3.9K | 4.9K | 4.3K | 4.9K | A | A | A | A | A | 5.0K | 5.2K | 5.9 | 6.5 | 5.3 | 5.7 | 5.6 | 5.5 | 5.0 | 4.7 | |
| 21 | 4.7F | 4.5F | 4.2F | 4.1F | 4.5F | 4.3 | 5.0 | A | A | A | A | A | 5.7 | 5.7 | 6.5J | 6.9 | 6.6 | 6.0J | (5.7)A | 5.4 | 5.9J | 5.8P | 5.6 | 5.6F | |
| 22 | 5.7F | 5.7 | 4.7F | 4.6F | 4.2F | 4.5 | 4.6J | 4.8 | A | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 23 | C | C | C | C | C | C | C | C | C | 6.0 | (5.8)A | 5.5 | 5.6 | 5.8 | 6.4 | 6.6 | 6.6 | 6.1J | 5.1 | 4.9 | 5.8 | 5.7 | (4.9)F | 5.0F | |
| 24 | (5.2)P | 5.5F | 4.6F | 4.4F | 4.2F | 4.7 | (5.6)A | 6.4 | 5.8P | 5.3 | A | 5.4 | 5.8 | 6.5J | 6.5J | 7.0 | 6.6 | 6.0 | 6.5 | 6.9 | F | F | F | F | |
| 25 | F | F | 4.2F | (3.9)F | (3.6)F | 4.3 | 5.6 | 6.2 | 5.5 | 5.2 | (5.3)A | 5.4 | 5.8 | 6.5J | (6.1)A | 6.3 | 5.7 | 6.0 | 6.5 | 6.9 | 5.8 | 5.5 | 4.5 | 4.4 | |
| 26 | 4.2F | 4.1F | 4.3F | 4.0F | 3.8 | 5.5 | (5.7)A | 5.9 | 5.7 | A | B | 5.5 | 5.2 | 5.9P | (6.1)A | 6.3 | 5.7 | 5.7 | 5.5 | (5.7)A | 5.9 | 6.4H | (5.8)A | 5.1 | |
| 27 | 4.9F | 4.7F | 4.4F | 4.3F | 4.0F | 4.2 | 5.2 | 6.0 | (5.7)P | 5.4 | 4.9 | (5.3)A | 5.7 | 6.3 | 6.6 | 7.2 | 7.2 | 7.1 | (7.5)P | 7.1 | 6.5 | 5.8 | 5.8 | 5.6 | |
| 28 | 4.2F | 3.2F | 3.1F | 3.6F | 3.4F | A | A | A | A | C | C | C | C | C | C | C | C | A | A | A | 6.1 | 5.7 | 5.1 | 5.0 | |
| 29 | 4.9 | 4.5F | F | A | 3.7P | 3.5 | (5.3)A | 7.1 | 5.6 | A | A | A | A | 5.6 | 5.6 | A | A | 5.7 | A | A | 6.7P | A | A | A | |
| 30 | 5.5 | (5.2)B | 5.0F | 5.5F | 4.7F | 4.3 | 4.3 | A | A | A | 5.3 | A | A | A | A | 5.6 | 5.2J | 5.2 | 5.5 | (6.1)A | 6.7 | A | A | A | |
| 31 | 4.7 | 4.8F | 4.6 | F | A | 4.3 | 4.3 | 4.7 | 6.6 | A | A | A | 5.5 | 5.4 | 6.8 | 7.7 | 7.5 | 5.7 | 5.7 | (5.8)A | 5.9 | 5.6 | 4.8F | 4.8 | |
| Mean | 4.7 | 4.4 | 4.2 | 4.0 | 3.8 | 4.1 | 4.7 | 5.1 | 5.3 | 5.3 | 5.4 | 5.5 | 5.8 | 6.0 | 6.2 | 6.3 | 6.2 | 5.9 | 5.7 | 5.7 | 5.7 | 5.7 | 5.3 | 5.0 | 4.7 |
| Median | 4.6 | 4.4 | 4.2 | 3.9 | 3.7 | 4.1 | 4.6 | 4.8 | 5.2 | 5.3 | 5.3 | 5.4 | 5.5 | 5.7 | 6.2 | 6.3 | 6.0 | 6.0 | 5.6 | 5.7 | 5.7 | 5.8 | 5.5 | 4.9 | 4.7 |
| Value | 4.6 | 4.4 | 4.2 | 3.9 | 3.7 | 4.1 | 4.6 | 4.8 | 5.2 | 5.3 | 5.3 | 5.4 | 5.5 | 5.7 | 6.2 | 6.3 | 6.0 | 6.0 | 5.6 | 5.7 | 5.7 | 5.8 | 5.5 | 4.9 | 4.7 |
| Count | 26 | 26 | 25 | 25 | 26 | 26 | 27 | 24 | 2.0 | 1.4 | 1.2 | 1.3 | 1.7 | 2.2 | 2.3 | 2.3 | 2.3 | 2.4 | 2.3 | 2.4 | 2.3 | 2.4 | 2.5 | 2.5 | 2.5 |

Sweep 0.85 Mc to 22.0 Mc in 2 min

Manual Automatic

foF2

A I

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

Lat. 39° 48.5' N
Long. 140° 08.3' E

Akita

IONOSPHERIC DATA

135° E Mean Time

f_oF₂

May, 1953

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|--------------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----|
| 1 | B | B | B | 350 | 350 | 280 | 290 | 300 ^P | 270 | B | T | 360 | 320 | 300 | 310 | 310 | 280 | 300 | [300] ^T | 310 | 330 | (350) ^Y | 320 | 370 | |
| 2 | [360] ^T | (360) ^P | 350 | C | C | C | 260 | 270 | 290 | A | B | 310 | 330 | 330 | 310 | 280 | 270 | 300 | 300 | 330 | 290 | 300 | 330 | 360 | |
| 3 | 300 ^P | C | C | C | C | C | C | C | C | C | C | 310 | 320 | U | T | C | C | C | T | T | 320 | 350 | 380 | [380] ^P | |
| 4 | 370 | [360] ^B | 350 | 300 | 330 | [300] ^B | 260 | 260 | B | 300 | B | 350 | B | B | B | [320] ^B | 320 ^P | (360) ^P | 350 ^P | (300) ^P | 340 | (350) ^P | 330 | 330 | |
| 5 | 350 | (320) | [310] ^B | 300 | 330 | 300 | 300 | 280 ^P | B | 350 | B | B | B | B | B | [320] ^B | 320 ^P | 310 ^P | 300 | (280) ^P | (340) ^B | 350 | 340 | 350 | |
| 6 | 360 | 380 | 330 | 350 | 330 | 280 | (280) ^P | 270 | 290 | 350 | A | A | A | A | 320 | 300 | A | 320 | 310 | C | C | C | C | C | |
| 7 | 320 | 310 | A | 370 ^K | 320 ^K | 280 ^K | U ^K | U ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | |
| 8 | 360 ^K | 370 ^K | 390 ^K | 340 ^K | 270 ^K | 300 ^K | 290 ^K | U ^K | A ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | |
| 9 | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | |
| 10 | 350 ^K | 350 ^K | 360 ^K | [340] ^K | 310 ^K | (330) ^K | 300 ^K | 270 ^K | G ^K | U ^K | B ^K | B ^K | U ^K | U ^K | U ^K | U ^K | 960 ^K | 330 ^K | 310 ^K | T ^K | T ^K | 280 ^K | 330 ^K | 360 ^K | |
| 11 | (350) ^K | 370 ^K | 350 ^K | 330 ^K | 300 ^F | [280] ^T | 270 | 270 | U | 380 | A | U | U | U | U | 310 | 310 | 290 | 280 | 290 | 350 | 350 | 340 | 350 | |
| 12 | 360 | 330 | 330 | 300 | 290 | 280 | U | U | U | U | U | U | U | U | U | 320 | 300 | 300 ^P | 290 | 310 | 320 | 380 | 330 | 320 | |
| 13 | 350 ^F | 350 ^F | 350 ^F | 360 ^F | 320 ^F | 280 | 270 | 300 | U | A | A | 300 | U | U | U | [330] ^V | 310 | 310 | 270 | 270 | 320 | 330 | 340 | 330 | |
| 14 | 340 ^F | (350) ^F | 350 ^F | 270 ^F | (350) ^F | 260 | 270 | [270] ^A | 310 | A | A | A | A | A | (330) ^J | 350 | 310 | 270 | [300] ^A | 310 | 320 | 330 | 330 | (320) ^Y | |
| 15 | (350) ^F | (350) ^F | 320 ^F | (300) ^F | 310 | [310] ^B | 310 ^P | 250 | 260 | A | U | U | U | U | 350 | 330 | 340 | 300 | 310 ^P | [270] ^A | 270 | 380 | 350 | (350) ^F | |
| 16 | [360] ^F | 380 ^F | 380 ^F | 350 ^F | (270) ^J | 330 | A | A | A | A | A | A | A | A | 380 | 380 | 400 | 320 | 300 | 280 | 350 | 380 ^P | 450 ^P | 410 | |
| 17 | (400) ^F | 400 | 360 ^F | 300 ^F | 400 ^K | B ^K | A ^K | A ^K | T ^K | C ^K | C ^K | C ^K | C ^K | C ^K | B ^K | W ^K | B ^K | B ^K | 410 ^K | 330 ^K | 350 ^K | 390 ^K | 370 ^K | | |
| 18 | (360) ^K | (370) ^K | 350 ^K | 350 ^K | 280 ^K | 280 ^K | 280 ^K | G ^K | U ^K | U ^K | U ^K | U ^K | B ^K | B ^K | 370 ^K | 330 ^K | 270 ^K | 330 ^K | 280 ^K | [320] ^K | 350 ^K | 370 ^K | 360 ^K | 370 ^K | |
| 19 | 360 ^K | 380 ^K | 350 ^K | 330 ^K | 310 ^K | 260 ^K | B ^K | U ^K | B ^K | B ^K | B ^K | B ^K | U ^K | U ^K | A ^K | A ^K | 380 ^K | 310 ^K | 270 ^K | [310] ^K | 360 ^K | 400 ^K | 370 ^K | 370 ^K | |
| 20 | T ^K | 350 ^K | 340 ^K | 300 ^K | A ^K | A ^K | A ^K | U ^K | U ^K | A ^K | A ^K | A ^K | A ^K | A ^K | U ^K | U ^K | 330 | [300] ^A | 280 | 340 | [340] ^A | 330 | 370 | 380 | |
| 21 | (370) ^J | 350 ^F | 340 ^F | 340 ^F | 320 ^F | 270 | 270 | A | A | A | A | A | U | U | (310) ^J | 300 | 280 | T | A | A | 340 | (350) ^J | 350 ^P | [360] ^A | |
| 22 | 380 ^F | 320 | 360 ^F | 350 ^F | 360 ^F | 310 | (280) ^F | U | A | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 23 | C | C | C | C | C | C | C | C | C | 300 | A | U | U | U | U | 350 | 320 | 300 | (270) ^J | 300 | 340 | 350 | (370) ^F | F | |
| 24 | [320] ^F | 340 ^F | 340 ^F | (340) ^F | (340) ^F | 310 | [290] ^A | 270 | A | A | A | A | U | U | A | A | A | A | A | A | 270 | F | F | F | |
| 25 | F | F | 340 ^F | [340] ^F | (350) ^F | 340 | 300 | 270 | A | U | U | U | U | U | (330) ^J | 310 | 320 | 310 | 300 | 360 | 310 | 320 | 350 | 340 | |
| 26 | 340 ^F | 350 ^F | 350 ^F | 330 ^F | 310 | 280 | [280] ^A | 270 | 280 | A | B | U | U | U | A | 310 | 300 | 300 | 310 | [300] ^A | 300 | 360 ^H | [350] ^A | 340 | |
| 27 | (320) ^F | 350 ^F | 340 ^F | 330 ^F | 320 ^F | 280 | 280 | A | B | U | U | A | A | A | 330 | 350 | 400 | 330 | 370 | (270) ^F | 360 | 330 | 360 | 300 | |
| 28 | 330 ^F | 350 ^F | 370 ^F | 380 ^F | A | A | A | A | A | C | C | C | C | C | C | C | C | C | A | A | A | A | 350 | 320 | |
| 29 | 390 | 380 ^F | F | AF | 300 ^F | 300 | [280] ^A | 260 | 260 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | |
| 30 | 360 | [360] ^B | 350 ^F | 350 ^F | 300 ^F | 230 | 270 | A | A | U | A | A | A | A | A | A | A | A | A | A | A | A | A | A | |
| 31 | 320 | 350 ^F | 350 | F | A | 280 | 280 | 330 | 270 | A | A | A | U | U | A | 350 | 310 | 300 | 300 | [310] ^A | 320 | 350 | 370 ^F | 380 | |
| MEAN Value | 350 | 360 | 350 | 330 | 320 | 290 | 280 | 280 | 280 | 350 | 330 | 320 | 320 | 340 | 330 | 330 | 330 | 310 | 300 | 310 | 300 | 310 | 350 | 350 | 360 |
| MEDIAN Value | 360 | 350 | 350 | 340 | 310 | 280 | 280 | 270 | 280 | 350 | 330 | 320 | 320 | 330 | 330 | 320 | 310 | 300 | 300 | 310 | 300 | 310 | 350 | 350 | 360 |
| Count | 26 | 26 | 25 | 25 | 25 | 24 | 22 | 16 | 10 | 4 | 2 | 4 | 3 | 10 | 15 | 20 | 22 | 22 | 22 | 22 | 23 | 26 | 25 | 25 | |

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

Lat. 39° 43.5' N
Long. 140° 08.3' E

IONOSPHERIC DATA

Akita

May, 1953

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 | 280 | 270 | 280 | 270 | 270 | 230 | 290 | 280 | 260 | B | T | T | 300 | 290 | (300) ^B | 300 | (280) ^B | 260 | (260) | 270 | 270 | 300 | 270 | 300 | 300 |
| 2 | 320 ^F | 280 | 280 | C | C | C | 250 | 260 ^A | 290 | A | B | 310 | 220 | 310 | 290 | 270 | 290 | 260 | 260 | 260 | 230 ^F | 250 ^F | 260 | 280 | |
| 3 | 250 | C | C | C | C | C | C | C | C | C | 310 | 320 | 390 | 340 | C | C | C | C | 280 | 260 | 260 | 280 | 300 | 290 | |
| 4 | 290 | 290 | 260 | 250 | 250 | 240 | 250 | 240 | B | B | 350 | B | B | B | 300 | (300) ^B | 300 | 270 | 270 | 250 | 270 | 260 | 260 | 260 | |
| 5 | 270 | 280 | 270 | 240 | 230 | 240 | 270 | 270 | 300 | 350 | (340) ^B | (340) ^B | (320) ^B | 300 | (310) ^B | 320 | 320 | 280 | 270 | 250 | 270 | 270 | 270 | 270 | |
| 6 | 270 | 300 | 260 | 270 | 250 | 250 | 240 | 270 | 290 | 350 | A | A | 320 | 320 | 280 | 270 | 310 | 250 | 270 | C | C | C | C | C | |
| 7 | 250 | 250 | 220 | 330 ^K | 260 ^K | 270 ^K | 400 ^K | 400 ^K | A | A | A | A | 530 ^K | A | A | A | A | A | A | A | A | 310 ^K | 300 ^K | 300 ^K | |
| 8 | 290 ^K | 290 ^K | 300 ^K | 280 ^K | 230 ^K | 260 ^K | 250 ^K | A | A | 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 | (300) ^K | 300 ^K | 280 ^K | 250 ^K | 230 ^K | 330 ^K | 300 ^K | 270 ^K | G | G | 330 ^K | 550 ^K | 400 ^K | 370 ^K | 380 ^K | 360 ^K | 320 ^K | 300 ^K | 270 ^K | 290 ^K | 260 ^K | 250 ^K | 300 ^K | 260 ^K | |
| 11 | 300 ^K | 320 ^K | 300 ^K | 270 ^K | 250 | 250 | 270 | 270 | 280 | 380 | (390) ^B | 400 | 400 | 400 | 400 | 310 | 310 | 290 | 270 | 270 | 270 | 300 | 290 | 290 | |
| 12 | 300 | 260 | 260 | 250 | 250 | 250 | L | 410 | 370 ^A | 360 | 350 | 320 | (380) ^A | 450 | 350 | 320 | 270 | 300 | 270 | 260 | 250 | 310 | 270 | 250 | |
| 13 | 300 | 290 ^F | 280 ^F | 280 ^F | 270 | 250 | 270 | 300 | 320 | A | A | 300 | 310 | 320 | 370 | 350 | 340 | 300 | 270 | 240 | 250 ^F | 270 | 260 | 270 | |
| 14 | 280 | 290 | 270 ^F | 230 ^F | 230 | 250 | 270 | (270) ^A | 310 | A | A | A | A | A | 330 | 320 | 310 | 280 | (280) ^A | 270 | 300 ^A | 260 | 260 | 260 ^F | |
| 15 | 280 ^F | 280 ^F | 260 | 250 | 240 | 250 | 300 | 250 | 260 ^A | (330) ^A | 400 | 480 | 390 | 350 | 320 | 320 | 290 | 280 | (280) ^A | 250 | 220 | 290 | 280 | 280 | |
| 16 | 310 ^F | 310 ^F | 310 ^F | 280 ^F | 240 ^F | A | A | A | A | A | A | A | A | 380 | 370 | 400 | 300 | 280 | 260 | 320 | 300 | 340 | 340 | 350 | |
| 17 | 350 | 300 | 300 | 280 | 330 ^K | (350) ^B | A | A | T | C | C | C | C | B | C | C | W | B | 410 ^K | 320 ^K | (310) ^A | 300 ^K | 320 ^K | 310 ^K | |
| 18 | 310 ^K | 300 ^K | 270 ^K | 250 ^K | 250 ^K | 250 ^K | 260 ^K | G | 410 ^K | 450 ^K | 450 ^K | 420 ^K | B | 370 ^K | 350 ^K | 300 ^K | 290 ^K | 320 ^K | 270 ^K | (270) ^K | 270 ^K | 290 ^K | 280 ^K | 310 ^K | |
| 19 | 290 ^K | 300 ^K | 260 ^K | 280 ^K | 270 ^K | 260 ^K | (300) ^K | 350 ^K | B | B | B | B | 400 ^K | 510 ^K | (340) ^A | 380 ^K | 310 ^K | 280 ^K | 260 ^K | 250 ^K | 290 ^K | 300 ^K | 280 ^K | 310 ^K | |
| 20 | 250 ^K | 270 ^K | 280 ^K | 260 ^K | A | A | A | 280 ^K | (310) ^L | 340 ^K | A | A | A | 440 ^K | 450 ^K | 420 ^K | 330 | 300 ^A | 270 | A | A | 270 | 280 | 290 | |
| 21 | 310 | 280 ^F | 280 | 270 | 250 | 240 | 260 | A | A | A | A | A | A | 350 | 370 | 300 | 270 | T | A | 260 ^A | 320 ^A | 300 | (270) ^F | 280 | |
| 22 | 270 | 250 | 250 | 270 ^F | 280 | 270 | 280 | 530 | A | A | C | C | C | 380 | 380 | 350 | 300 | C | C | C | C | C | C | C | |
| 23 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 24 | (280) ^A | 250 ^F | 250 | 250 ^F | 250 ^F | 300 | (280) ^A | 270 | (280) ^A | 280 | (320) ^A | 350 | 370 | 380 | 350 | 320 | 300 | 270 | 260 | 280 | 300 ^A | 340 ^A | 340 ^A | 300 ^F | |
| 25 | 310 ^F | 270 ^F | 270 | (280) ^A | 280 | 250 | 300 | 270 | (300) ^A | 320 | (380) ^A | 450 | 380 | 320 | 320 | 300 | 300 | 290 | 280 | 260 | 270 | 260 ^A | 280 ^F | 300 ^F | |
| 26 | 280 ^F | 290 ^F | 280 | 270 | 260 | 280 | (280) ^B | 270 | 280 | A | B | 350 | 480 | 350 | (330) ^A | 310 | 300 | 300 | 270 | (260) ^A | 250 ^A | 260 ^A | 260 | 280 | |
| 27 | 290 ^A | 300 ^A | 270 ^F | 270 ^F | 280 | 250 | 280 | (270) ^A | 260 | (300) ^A | 350 | A | A | A | 330 | 340 | 370 | 320 | 350 | 280 | 240 ^A | 330 ^{AH} | 300 | 300 | |
| 28 | 260 | 260 | 270 ^F | 280 ^F | 260 ^F | 320 ^F | A | A | A | C | C | C | C | C | C | C | C | A | A | A | (300) ^A | 250 | 290 | 300 | |
| 29 | 300 ^F | 300 ^F | A | A | A | 250 ^F | 280 | (270) ^A | 260 | A | A | A | A | 370 | 350 | A | A | A | A | A | A | 330 ^A | A | A | |
| 30 | 330 ^A | (330) ^A | 330 ^A | 280 ^F | 250 ^F | 220 | 250 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | 250 | A | A | |
| 31 | 270 | 300 | 250 | 270 | (260) ^F | 260 | 260 | 330 ^A | 270 | A | A | A | 400 | (380) ^A | 350 | 300 ^A | 300 | 280 | (290) ^A | (300) ^A | 300 ^A | 280 | 320 ^A | 310 | |
| Mean Value | 290 | 290 | 270 | 270 | 260 | 260 | 280 | 300 | 340 | 380 | 370 | 370 | 340 | 370 | 340 | 330 | 300 | 290 | 280 | 270 | 270 | 290 | 290 | 290 | |
| Median Value | 290 | 290 | 270 | 270 | 250 | 250 | 270 | 270 | 290 | 330 | 360 | 390 | 370 | 370 | 330 | 320 | 300 | 280 | 270 | 260 | 270 | 280 | 280 | 290 | |
| Count | 29 | 28 | 27 | 26 | 24 | 24 | 24 | 22 | 18 | 11 | 12 | 11 | 18 | 22 | 23 | 24 | 23 | 22 | 23 | 23 | 27 | 26 | 26 | 26 | |

A 3

Manual Automatic

Sweep 0.65 Mc to 2.20 Mc in 2 min

R'F2

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

Lat. 39° 43.5' N
Long. 140° 08.2' E

Akita

IONOSPHERIC DATA

f_oF1

May, 1953

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|--------------|----|----|----|----|------|--------|--------|--------|------|------|--------|------|--------|------|--------|--------|--------|--------|------|----|----|----|----|----|
| 1 | | | | | Q | 4.0 | A | A | A | A | T | T | T | T | A | 4.5 | [4.1]T | 3.7L | A | | | | | |
| 2 | | | | | C | Q | 4.0 | A | 4.0 | A | B | 4.8A | 4.7A | 4.5 | 4.5 | A | A | 3.0S | Q | | | | | |
| 3 | | | | | C | C | C | C | C | C | C | 4.5 | 4.6 | 4.5 | C | C | C | C | C | | | | | |
| 4 | | | | | 2.1L | Q | 4.0 | 4.2 | 4.0 | 4.2 | 4.3 | B | B | 4.3 | 4.4 | [4.2]B | 3.9 | 3.5 | Q | | | | | |
| 5 | | | | | Q | 3.5 | 3.8L | [4.2]L | 4.5L | 4.5L | B | B | B | 4.4 | [4.3]B | 4.2 | 4.0 | 3.5 | L | | | | | |
| 6 | | | | | Q | Q | 3.7 | 4.0 | 4.0 | A | A | A | A | 4.2 | 4.1 | [4.0]A | 3.8 | L | Q | | | | | |
| 7 | | | | | Q | 3.5 | 3.7 | A | A | A | A | A | 4.2 | A | A | 4.0 | A | A | A | | | | | |
| 8 | | | | | Q | Q | A | A | A | C | C | C | C | C | C | C | C | C | C | | | | | |
| 9 | | | | | C | C | C | C | C | C | C | C | T | 4.0 | 4.0 | 3.8 | 3.9 | 3.5 | 2.8L | | | | | |
| 10 | | | | | 2.7 | 3.4 | 3.5 | 4.2 | 3.9 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 3.9 | 3.9 | 3.8 | 3.5H | 2.8L | | | | | |
| 11 | | | | | L | 3.3L | 3.6 | 4.0 | 4.0 | 4.0 | [4.0]A | 4.1 | 4.1 | 4.1 | 4.0 | 3.8 | 3.6 | 3.4 | L | | | | | |
| 12 | | | | | Q | L | A | A | A | 3.9 | 4.1 | 4.1 | [4.0]A | 4.0 | 4.0 | 3.9 | 3.6H | 3.6 | A | | | | | |
| 13 | | | | | Q | 3.4L | A | A | A | A | A | 4.2 | [4.2]A | 4.2 | 4.1 | 4.0 | 3.7 | 3.4 | Q | | | | | |
| 14 | | | | | Q | Q | A | A | A | A | A | A | A | A | A | A | 3.9 | 3.7 | 3.5 | A | | | | |
| 15 | | | | | Q | 3.3 | A | A | A | A | 4.3 | 4.3 | 4.3 | 4.3 | 4.0 | 3.9 | 3.8 | 3.5 | A | | | | | |
| 16 | | | | | A | A | A | A | A | A | A | A | A | 4.2 | 4.0 | 3.9 | 3.7 | 3.3 | Q | | | | | |
| 17 | | | | | B | A | A | T | C | C | C | C | C | B | C | C | 3.5 | 3.1 | 2.9 | | | | | |
| 18 | | | | | Q | Q | 3.7 | 3.9 | 4.2 | 4.2 | 4.2 | 4.3 | 4.3 | 4.2 | 4.0 | 4.0 | 3.8 | 3.5 | 3.0L | | | | | |
| 19 | | | | | 2.4 | 3.4 | 3.7 | 4.0 | A | A | A | A | 4.1 | 4.2 | [4.0]A | 3.9 | 3.7 | 3.5 | 2.9 | | | | | |
| 20 | | | | | A | 3.4 | [3.7]L | 3.9 | A | A | A | A | A | 4.2 | 4.1 | 3.9 | A | A | A | | | | | |
| 21 | | | | | L | 3.5 | A | A | A | A | A | A | 4.5A | 4.4A | 4.3 | 4.2 | 4.0 | T | A | | | | | |
| 22 | | | | | 2.4L | 3.5 | 4.4 | A | A | C | C | C | C | C | C | C | C | C | C | | | | | |
| 23 | | | | | C | C | C | C | C | 4.2 | [4.3]A | 4.4 | 4.4A | 4.4 | 4.2 | 4.1 | 3.9 | 3.6 | L | | | | | |
| 24 | | | | | 2.9L | [3.4]A | 3.8 | A | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 25 | | | | | Q | 3.6 | A | A | 4.3 | A | [4.2]A | 4.5 | 4.5 | 4.4 | 4.5 | 4.1 | 4.0 | 3.6 | A | | | | | |
| 26 | | | | | A | A | 4.0 | 4.2 | A | A | A | 4.3 | 4.5 | 4.2 | A | A | 3.8 | 3.8 | 2.7 | | | | | |
| 27 | | | | | Q | A | A | A | A | A | 4.4 | A | A | 4.4 | 4.3 | [4.2]A | 4.0 | (3.6)L | A | | | | | |
| 28 | | | | | A | A | A | A | A | C | C | C | C | C | C | C | C | A | A | | | | | |
| 29 | | | | | Q | A | A | 4.0 | A | A | A | A | A | 4.3 | A | A | A | 3.6L | A | | | | | |
| 30 | | | | | Q | Q | A | A | A | A | 4.1 | A | A | A | A | 4.3 | A | A | A | | | | | |
| 31 | | | | | A | A | A | A | A | A | A | A | 4.5A | A | A | A | A | 3.5 | A | | | | | |
| Mean Value | | | | | 2.5 | 3.5 | 3.8 | 4.0 | 4.2 | 4.2 | 4.2 | 4.3 | 4.3 | 4.3 | 4.1 | 4.0 | 3.8 | 3.5 | 2.9 | | | | | |
| Median Value | | | | | 2.4 | 3.4 | 3.7 | 4.0 | 4.2 | 4.2 | 4.2 | 4.3 | 4.3 | 4.2 | 4.1 | 4.0 | 3.8 | 3.5 | 2.8 | | | | | |
| Count | | | | | 5 | 13 | 12 | 11 | 8 | 10 | 11 | 15 | 21 | 18 | 21 | 20 | 21 | 20 | 21 | 6 | | | | |

Sweep 0.25 Mc to 22.0 Mc in 7 min

Manual Automatic

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

IONOSPHERIC DATA

Lat. 38° 43.5' N
Long. 140° 09.2' E

Akita

R'F1

May. 1953

138° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|--------------|----|----|----|----|----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|----|----|----|----|----|
| 1 | | | | | | Q | 240 | A | A | A | T | T | T | T | A | A | T | 240 | A | | | | | |
| 2 | | | | | | C | Q | Q | 260 | A | B | A | A | 240 | A | A | A | 220 | Q | | | | | |
| 3 | | | | | | C | C | C | C | A | A | 230 | 210 | 210 | C | C | C | C | A | | | | | |
| 4 | | | | | | 250 | Q | 230 | (250) | 230 | 220 | A | A | 250 | 280 | 230 | (230) | 230 | Q | | | | | |
| 5 | | | | | | Q | 250 | 260 | 250 | 230 | 250 | 240 | (240) | 230 | B | B | 230 | 250 | 270 | | | | | |
| 6 | | | | | | Q | 250 | 250 | 250 | A | A | A | A | A | A | (240) | 220 | 250 | Q | | | | | |
| 7 | | | | | | Q | 250 | A | A | A | A | A | 240 | A | A | A | A | A | A | | | | | |
| 8 | | | | | | Q | Q | A | A | C | C | C | C | C | C | C | C | C | C | | | | | |
| 9 | | | | | | C | C | C | C | C | C | C | C | T | 250 | 230 | 230 | 250 | 250 | | | | | |
| 10 | | | | | | 250 | 250 | 240 | 220 | 210 | 230 | 230 | 250 | 230 | 230 | 220 | 240 | 230 | 260 | | | | | |
| 11 | | | | | | 230 | 250 | 250 | 250 | (230) | 230 | 240 | 230 | 250 | 250 | 220 | 250 | 250 | 260 | | | | | |
| 12 | | | | | | Q | 250 | A | A | 220 | 220 | (220) | 220 | 260 | 220 | 220 | 220 | 220 | A | | | | | |
| 13 | | | | | | Q | 250 | A | A | A | A | A | A | 210 | (220) | 240 | (220) | 260 | Q | | | | | |
| 14 | | | | | | Q | Q | A | A | A | A | A | A | A | A | A | 250 | 230 | 260 | A | | | | |
| 15 | | | | | | Q | 270 | A | A | A | A | 250 | 240 | A | A | A | 230 | 210 | 230 | A | | | | |
| 16 | | | | | | 230 | A | A | A | A | A | A | A | A | A | B | 240 | 250 | Q | | | | | |
| 17 | | | | | | B | A | A | T | C | C | C | C | B | C | C | 280 | 300 | A | | | | | |
| 18 | | | | | | Q | Q | 240 | (220) | 200 | 220 | 210 | 230 | 230 | 220 | 220 | 270 | 220 | 250 | | | | | |
| 19 | | | | | | 250 | 240 | 230 | 220 | A | A | A | (250) | (250) | (250) | 250 | 240 | 240 | 240 | | | | | |
| 20 | | | | | | A | 260 | A | A | A | A | A | A | A | A | A | 220 | A | A | | | | | |
| 21 | | | | | | 220 | 240 | A | A | A | A | A | A | A | A | A | 230 | A | A | | | | | |
| 22 | | | | | | A | 260 | A | A | C | C | C | C | C | C | C | C | C | C | | | | | |
| 23 | | | | | | C | C | C | C | A | A | 250 | 260 | 260 | (240) | 210 | 250 | 230 | 220 | | | | | |
| 24 | | | | | | 260 | A | A | A | A | A | A | A | A | A | A | 250 | A | A | | | | | |
| 25 | | | | | | Q | 250 | A | A | 240 | (240) | 230 | (240) | 240 | (240) | (250) | 270 | A | A | | | | | |
| 26 | | | | | | A | A | A | A | A | 180 | 220 | 220 | 220 | A | A | 250 | (240) | 220 | | | | | |
| 27 | | | | | | Q | A | A | A | A | 210 | A | A | 260 | 230 | A | A | A | A | | | | | |
| 28 | | | | | | A | A | A | A | C | C | C | C | C | C | C | C | A | A | | | | | |
| 29 | | | | | | Q | A | A | A | A | A | A | A | 220 | A | A | A | A | 240 | A | | | | |
| 30 | | | | | | Q | Q | A | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 31 | | | | | | Q | A | A | A | A | A | A | A | A | A | A | A | 250 | A | | | | | |
| Mean Value | | | | | | 240 | 250 | 240 | 240 | 220 | 230 | 230 | 240 | 230 | 240 | 230 | 240 | 240 | 250 | | | | | |
| Median Value | | | | | | 250 | 250 | 240 | 250 | 230 | 220 | 230 | 240 | 230 | 240 | 230 | 240 | 240 | 250 | | | | | |
| Count | | | | | | 7 | 13 | 7 | 8 | 7 | 8 | 10 | 12 | 16 | 12 | 16 | 18 | 20 | 8 | | | | | |

R'F1

Sweep 0.85 Mc to 2.50 Mc in 2 min

Manual Automatic

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

Lat. 39° 43.5' N
Long. 140° 08.2' E

Akita

IONOSPHERIC DATA

foE

May. 1953

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 | 2.2 | 2.6 | 2.9 | 3.2 | 3.3 | 3.3 | 3.3 | 3.5 | 3.3 | 3.2 | 2.9 | 2.8 | 2.4 | 1.7 | | | | | |
| 2 | | | | | C | 2.4 | 2.7 | 2.9 | 3.2 | 3.3 | 3.3 | 3.2 | 3.0 | 3.1 | C | C | 2.6 | 2.3 | 1.8 | | | | | |
| 3 | | | | | C | C | C | C | C | C | 3.2 | 3.2 | 3.2 | 3.1 | C | C | C | C | A | | | | | |
| 4 | | | | | B | 2.5 | 2.8 | 3.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.1 | 3.0 | 2.8 | 2.3 | 2.3 | 1.8 | A | | | | | |
| 5 | | | | | B | 2.1 | 2.4 | 2.9 | 3.0 | 3.1 | 3.0 | 3.1 | 3.2 | (3.0) ^B | 2.9 | 2.6 | 2.2 | 2.2 | 1.7 | | | | | |
| 6 | | | | | 1.7 | 2.2 | 2.5 | 2.9 | 3.0 | 3.2 | 3.0 | 2.8 | 3.2 | 3.2 | 2.8 | 2.6 | 2.2 | 1.8 | | | | | | |
| 7 | | | | | 1.1 | 2.1 | 2.5 | 2.8 | 3.0 | 3.1 | 3.1 | 3.0 | 2.9 | 2.8 | 2.6 | 2.6 | 2.3 | B | | | | | | |
| 8 | | | | | 1.6 | 2.4 | 2.7 | 2.8 | 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 | | | | | |
| 10 | | | | | 1.3 | 2.1 | 2.5 | 2.7 | 3.0 | 3.0 | 3.0 | 3.2 | 3.2 | 3.1 | 3.0 | 2.5 | 2.2 | 1.6 | | | | | | |
| 11 | | | | | 1.4 | 2.1 | 2.5 | 2.8 | 3.0 | 3.1 | 3.1 | 3.1 | 2.9 | 2.8 | 2.8 | 2.3 | A | A | | | | | | |
| 12 | | | | | 1.2 | 2.2 | 2.5 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.8 | 2.8 | 2.8 | 2.7 | 2.3 | A | | | | | | |
| 13 | | | | | 1.8 | 2.3 | 2.7 | 2.8 | 3.1 | 3.2 | 3.3 | 3.2 | 3.0 | 2.9 | 2.9 | 2.4 | (2.1) ^A | 1.8 | | | | | | |
| 14 | | | | | 1.7 | 2.1 | 2.7 | 2.9 | 3.1 | 3.2 | 3.3 | 3.2 | 3.0 | 2.8 | 2.7 | 2.5 | 2.4 | 1.8 | | | | | | |
| 15 | | | | | 1.6 | 2.4 | 2.5 | 2.8 | 3.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.1 | 2.9 | 2.8 | 2.5 ^A | A | | | | | | |
| 16 | | | | | 1.9 | 2.0 | 2.5 | 2.9 | 3.1 | 3.1 | T | T | T | 3.2 | 3.1 | (3.0) ^B | 2.8 | 2.5 | 1.8 | | | | | |
| 17 | | | | | 1.6 | 2.0 | 2.6 | T | C | C | C | C | 3.0 | 3.0 | C | C | 2.5 ^F | 2.1 | A | | | | | |
| 18 | | | | | 1.8 | 2.4 ^F | 2.5 | 2.7 | 3.0 | 3.0 | 3.0 | 3.2 | 3.0 | 2.9 | 2.7 ^F | 2.5 | 2.3 | A | | | | | | |
| 19 | | | | | 1.5 | 2.2 | 2.7 | 2.7 | 3.0 | 3.1 | 3.2 | 3.2 | 3.3 | 3.2 | 3.0 | 2.8 | (2.6) ^A | 2.3 | 1.8 | | | | | |
| 20 | | | | | A | A | A | 3.1 | 2.9 | 3.2 | 3.2 | 3.2 | 3.3 | 3.3 | 3.1 | 3.0 | 2.7 | 2.1 | A | | | | | |
| 21 | | | | | 1.8 | 2.4 | 2.7 | 2.8 | 3.0 | 3.1 | 3.2 | 3.2 | 3.0 | 2.9 | 2.9 | 2.8 | 2.8 | 1.9 | 1.7 | | | | | |
| 22 | | | | | 1.5 | 2.5 | 2.7 | 2.9 | C | C | C | C | C | C | C | C | C | C | C | | | | | |
| 23 | | | | | C | C | C | C | C | 3.2 | 3.2 | 3.2 | 3.3 | 3.3 | 3.2 | 3.0 | 2.7 | 2.5 | 1.8 | | | | | |
| 24 | | | | | 1.7 | 2.3 | 2.6 | 3.0 | 3.2 | 3.2 | 3.2 | 3.3 | 3.3 | 3.2 | 2.8 | 2.4 | 2.4 | 2.2 | A | | | | | |
| 25 | | | | | 1.6 | 2.4 | 2.8 | 3.0 | 3.2 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.2 | 3.0 | A | A | 1.9 | | | | | |
| 26 | | | | | 1.8 | 2.3 | 2.7 | 2.9 | 2.9 | 3.0 | 3.0 | 3.0 | (3.1) ^A | 3.2 ^A | 3.0 | 2.8 | 2.5 | 1.8 | | | | | | |
| 27 | | | | | 1.4 ^A | 2.3 | 2.8 | 3.0 | 3.1 | 3.2 | 3.3 | 3.3 | 3.0 | 2.9 | 2.5 | (2.5) ^A | 2.5 | 1.8 | | | | | | |
| 28 | | | | | 1.5 | 2.3 | 2.6 | 2.8 | C | C | C | C | C | C | C | C | C | A | 2.0 ^A | | | | | |
| 29 | | | | | 1.4 | 2.4 | 2.7 | 3.0 | 3.2 | 3.2 | 3.2 | 3.1 | 3.0 | 2.5 | A | A | 2.3 | 1.8 | | | | | | |
| 30 | | | | | 1.7 | 2.4 | 2.8 | 2.8 | 3.2 | 3.2 | 3.3 | 3.1 | 3.0 | 2.8 | (2.8) ^A | 2.8 | 2.5 | A | | | | | | |
| 31 | | | | | A | 2.4 ^A | 2.8 | 2.8 | 3.2 | 3.2 | 3.2 | 3.0 | 2.8 | 2.8 | A | A | A | A | | | | | | |
| Mean Value | | | | | 1.6 | 2.3 | 2.6 | 2.9 | 3.1 | 3.2 | 3.2 | 3.2 | 3.1 | 3.0 | 2.8 | 2.6 | 2.3 | 1.8 | | | | | | |
| Median Value | | | | | 1.6 | 2.3 | 2.7 | 2.9 | 3.1 | 3.2 | 3.2 | 3.2 | 3.1 | 3.0 | 2.8 | 2.6 | 2.3 | 1.8 | | | | | | |
| Count | | | | | 23 | 27 | 27 | 27 | 27 | 25 | 26 | 25 | 26 | 28 | 25 | 23 | 23 | 23 | 16 | | | | | |

Manual Automatic

Sweep 0.65 Mc to 2.20 Mc in 2 min

A 6

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

IONOSPHERIC DATA

Lat. 39° 43.5' N
Long. 140° 03.3' E

Akita

May, 1953

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

f_oF₂

Swng 0.85 Mc to 2.20 Mc in 2 min

Manual Automatic

A7

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

Lat. 35° 43.5' N
Long. 140° 08.3 E

Akita

IONOSPHERIC DATA

135° E Mean Time

fEs

May. 1953

| 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 | 2.1 | 1.8 | 2.8Y | E | 2.1Y | 2.8Y | G | G | 5.5 | 4.1 | 4.2 | 4.1 | T | 6.5 | 5.6 | 4.8 | G | G | >3.6T | 3.9 | 3.0 | 3.0 | 4.0 | 3.0 | |
| 2 | >3.6T | 1.8 | 2.2Y | C | C | C | G | 4.2 | 4.2 | 5.9 | 4.2 | 5.5 | 5.5 | 4.6 | 4.8 | 5.5 | 5.1 | 3.6 | G | 2.9 | 3.2 | 3.1F | 2.3F | 2.4 | |
| 3 | 2.4 | C | C | C | C | C | C | C | C | C | 5.4 | G | G | G | C | C | C | C | 3.3 | 3.3 | 2.5Y | 2.9 | 1.9 | 1.9Y | |
| 4 | E | E | 2.0Y | 1.8 | E | G | G | G | G | G | 4.0 | 4.1 | 4.0 | 4.0 | 4.5 | 4.2 | 4.5 | 4.2 | 3.0 | 2.3 | 2.7 | 2.3 | 2.6 | 1.9 | |
| 5 | 2.1Y | 1.8Y | 1.8 | 2.1Y | 2.0Y | G | G | 3.1 | G | G | G | 4.4 | 4.4 | G | B | G | G | G | G | 2.3 | 2.7 | 3.0 | 2.2 | E | |
| 6 | 2.5Y | 3.0 | 2.6 | 2.9 | 2.1 | 2.6Y | G | 3.2 | G | 5.3 | 4.5 | 4.5 | 5.7 | 5.6 | G | 5.1 | G | G | G | C | C | C | C | C | |
| 7 | 2.3 | 2.3Y | 2.6 | 2.8Y | 2.1Y | 2.2Y | G | G | 5.5 | 6.6 | 6.0 | 7.1 | 4.2 | 5.6 | 5.4 | 6.6 | 5.6 | 6.1 | 7.6 | 5.5 | 4.5 | 2.8 | 3.8 | 2.3 | |
| 8 | 2.2 | 2.1 | 1.9 | E | 2.1Y | 3.1Y | G | 4.5 | 5.1 | C | 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 | T | G | G | G | G | G | G | 2.0 | 3.2 | 2.8 | 3.5 | 3.5 | 2.3 |
| 10 | 2.9 | 3.0 | 3.5 | 2.0 | 2.3 | 2.4 | 3.4 | G | 3.5 | 4.2 | 3.5 | G | 4.3 | G | G | G | G | G | 3.2 | 3.5F | 3.5F | 2.6 | 2.9 | 2.3 | |
| 11 | 1.9 | 2.1 | 2.2 | 2.2 | 2.2 | 2.2 | 3.8 | 5.0 | 6.5 | G | 5.1 | 4.6 | 4.2 | 4.0 | 4.1 | 4.1 | 4.0 | 4.3 | 3.5 | 4.2 | 2.6 | 3.1 | 3.5 | 2.0 | |
| 12 | 3.5 | 2.1 | 2.9 | 2.6 | 2.3 | 2.3 | 3.4 | 4.2 | 5.5 | 5.3 | G | G | 6.5 | 4.2 | 4.2 | 2.9 | G | 3.0 | 4.0 | 2.7 | 4.2Y | 3.1 | 2.5 | 2.0 | |
| 13 | 3.7 | 2.3 | 3.0 | 3.0Y | 2.6 | 2.5 | 3.5 | 4.5 | 4.6 | 6.7 | 6.6 | 5.8 | 5.2 | 4.5 | 5.5 | 4.5 | 4.1 | 3.7 | 2.9 | 3.5 | 3.1F | 3.1 | 2.3 | 2.1 | |
| 14 | 3.4 | 3.5 | 4.0 | 3.0F | 3.5Y | G | 4.3 | 5.9 | 5.5 | 5.5 | 6.5 | 5.6 | 6.2 | 7.1 | 6.4 | 4.2 | G | G | 6.5 | 4.2 | 4.5F | 3.1F | 2.6F | 2.9F | |
| 15 | 3.1 | 2.2 | 2.1 | 2.1 | 2.2 | 2.8Y | G | 4.7 | 5.6 | 5.7 | 4.7 | 4.7 | 4.2 | 5.2 | 5.1 | G | G | 3.3 | 8.4 | 3.4 | 2.7F | 2.3F | 2.3F | 2.3 | |
| 16 | 4.8 | 7.1F | 4.2F | 3.1F | 2.5 | 3.5 | 4.5 | 6.0 | 5.9 | 7.0 | 7.8 | 8.0 | 14.2 | 4.5 | G | B | G | G | 4.5 | 4.6 | 3.1 | 2.3 | 3.4 | E | |
| 17 | E | E | 2.2 | 2.2 | 2.2Y | 2.1 | 4.5 | 4.4 | T | C | C | C | C | G | C | C | C | 3.5 | 3.5 | 3.5 | 4.1 | 3.1 | 2.1 | 2.5 | |
| 18 | 2.4 | 2.0 | E | 2.4 | E | 2.4 | G | 3.5 | 4.2 | 4.3 | 3.5 | G | 4.2 | 3.5 | 3.5 | 4.2 | 3.1 | 3.2 | 3.8 | 6.0Y | 3.0 | 2.3 | 2.3 | 3.0 | |
| 19 | 2.5 | 2.3Y | 1.0 | 2.9F | 2.5F | 2.2 | G | 3.4 | G | 4.8 | 4.8 | 5.2 | 4.2 | 4.0 | 6.4 | 3.5 | 4.4 | G | G | E | E | 2.1 | 2.3 | 2.2 | |
| 20 | 2.2Y | 2.2 | 2.5 | 3.8 | 3.6 | 4.5 | 3.5 | 3.5 | 4.4 | 6.3Y | 6.5 | 5.9 | 6.5 | 5.3 | 5.1 | G | 5.6 | 6.8 | 11.5Y | 4.2F | 5.5 | 4.0 | 3.1 | 3.1 | |
| 21 | 3.5F | 3.5F | 5.0 | 2.3F | 2.3 | G | 4.2 | 5.7 | 8.5 | 8.1 | 6.5 | 11.9 | 6.4 | 5.6 | 4.6 | 5.0 | 4.6 | >3.6T | 7.0 | 4.2 | 5.5Y | 4.0 | 6.7 | 6.5 | |
| 22 | 2.4 | 1.8 | 2.0 | E | E | 2.4 | G | 4.6 | 5.2 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 23 | C | C | C | C | C | C | C | C | C | 4.7 | 6.5 | 5.5 | 4.5 | 4.8 | G | 4.1 | 3.9 | 3.7 | 4.1 | 4.4 | 4.9 | 5.1 | 5.5 | 4.4 | |
| 24 | 5.5 | 3.5 | 2.5 | E | E | 3.0 | 7.7 | 4.5 | 7.0 | 5.3 | 5.7 | 5.5 | 4.9 | 5.7 | 7.0 | 12.0 | 9.5 | 12.8 | 7.0 | 5.5 | 3.6 | 3.1 | 2.3 | 2.3 | |
| 25 | 2.6 | 4.9F | 3.0 | 3.5 | 2.8Y | 2.0 | G | 5.0 | 6.5 | 4.8 | 5.5 | 4.7 | 5.0 | 4.1 | 3.6 | 3.4 | 5.7 | 3.6 | 4.0 | 3.2 | 4.2 | 4.7 | 2.0Y | 2.5 | |
| 26 | 2.5Y | 3.5F | 3.1F | 3.1F | 2.2 | 4.0 | 6.5 | 4.6 | 6.5 | 5.7 | 4.1 | 4.6Y | 5.7 | 4.5 | 9.8 | 5.7 | 4.3 | 5.5 | 5.0 | 6.5 | 3.0 | 5.7 | 6.5 | 5.7 | |
| 27 | 5.5F | 5.5F | 5.4F | 3.0F | 5.0F | 5.5F | 4.6 | 6.1 | 5.7 | 5.7 | 4.8 | 7.0 | 6.0 | 4.7 | 4.5 | 5.5 | 5.5F | 4.6 | 5.0 | 3.6 | 2.3 | 3.4 | 4.5 | 4.5 | |
| 28 | 3.1 | 4.5 | 2.2 | 2.3F | 2.4 | 5.6 | 9.0 | 9.5 | 6.8 | C | C | C | C | C | C | C | 6.0 | >5.5T | 7.0 | 7.0 | 6.5 | 3.0 | 3.5 | 4.5 | |
| 29 | 2.3 | 3.0 | 4.3F | 4.0F | 2.5F | 3.5 | 6.5 | 4.5 | 5.5 | 6.7 | 6.6 | 8.8 | 6.7 | 6.8 | 10.5Y | 7.0 | 10.0 | 4.0 | 14.0Y | 10.0 | 8.0 | 14.5F | 6.5 | 6.5 | |
| 30 | 5.5F | 3.5F | 4.3F | 4.0 | 3.0F | 4.0 | 3.5 | 8.2 | 11.7 | 9.5 | 5.5 | 6.5 | 8.5 | 5.7 | 7.0 | 5.4 | 9.5 | 6.7 | 7.1 | 9.2 | 3.1 | 8.5 | 6.7 | 7.2 | |
| 31 | 4.2 | 3.1 | 4.0 | 3.5 | 5.5 | 7.3 | 3.3 | 3.2 | 5.5 | 6.5 | 9.0 | 8.2 | 5.0 | 5.9 | 5.5 | 6.5 | 5.5 | 5.5 | 5.6 | 7.0 | 4.9 | 3.5 | 4.7 | 4.2 | |
| Mean Value | 3.1 | 3.0 | 2.9 | 2.8 | 2.7 | 3.3 | 4.8 | 4.8 | 5.9 | 5.9 | 5.5 | 6.0 | 5.7 | 5.1 | 5.7 | 5.2 | 5.5 | 4.9 | 5.5 | 4.6 | 3.8 | 3.8 | 3.5 | 3.3 | |
| Median Value | 2.5 | 2.3 | 2.6 | 2.6 | 2.3 | 2.5 | 3.4 | 4.5 | 5.5 | 5.5 | 5.2 | 5.4 | 5.0 | 4.6 | 4.8 | 4.2 | 4.1 | 3.6 | 4.0 | 4.0 | 3.1 | 3.1 | 3.0 | 2.4 | |
| Count | 29 | 28 | 28 | 27 | 27 | 27 | 28 | 28 | 27 | 25 | 26 | 26 | 25 | 28 | 25 | 25 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |

Sweep 0.85 Mc to 22.0 Mc in 2 min Manual Automatic

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

Lat. 36° 43.5' N
Long. 140° 08.2' E

IONOSPHERIC DATA

Akita

May, 1953

(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 | B | B | B | 2.9 | 2.9 | 3.3 | 3.3 | 3.2 ^P | 3.5 | [3.2] ^B | 2.9 | 2.8 | 3.1 | 3.1 | 3.1 | 3.2 | 3.3 | 3.1 | 3.0 | 3.1 | 2.9 | (2.8) ^J | 2.7 | 2.8 |
| 2 | [2.8] ^T | (2.7) ^P | 2.9 | C | C | 3.5 | 3.3 | 3.3 | 3.3 | A | 2.9 | 3.2 | 3.0 | 3.0 | 3.1 | 3.3 | 3.2 | 3.2 | 3.0 | 3.0 | 3.1 | 3.1 | 3.0 | 2.9 |
| 3 | 3.1 ^F | C | C | C | C | C | C | C | C | C | 3.2 | 3.1 | 2.9 | T | C | C | C | C | T | T | 2.9 | 2.8 | 2.8 | [2.8] ^B |
| 4 | 2.7 | [2.8] ^B | 2.9 | 3.1 | 2.9 | [3.2] ^B | 3.4 | 3.3 | B | B | 2.9 | B | B | B | B | 2.9 | [3.0] ^B | 3.0 ^P | 3.0 ^P | (3.1) ^P | 2.9 | (2.9) ^P | 3.0 | 3.0 |
| 5 | 2.9 | (3.0) ^F | [3.0] ^B | 3.1 | 3.0 ^P | 3.1 | 3.1 | 3.3 ^P | 3.2 | 3.0 | B | B | B | B | [3.2] ^B | 3.3 ^P | 2.9 | 3.2 ^P | 3.1 | (3.2) ^P | 2.9 | (2.9) ^P | 2.9 | 2.9 |
| 6 | 2.9 | 2.7 | 3.0 | 2.8 | 2.9 | 3.2 | (3.3) ^F | 3.4 | 3.5 | 3.0 | A | A | A | A | 3.2 | 3.2 | A | 3.0 | 3.0 | C | C | C | C | C |
| 7 | 3.1 | 3.1 | A | 2.7 ^K | 3.3 ^K | 3.1 ^K | 2.8 ^K | 2.8 ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | 3.0 ^K | A ^K | A ^K | A ^K | A ^K | 2.8 ^K | 2.7 ^K | 2.7 ^K | 2.6 ^K |
| 8 | 2.7 ^K | 2.8 ^F | 2.6 ^K | 2.8 ^K | 3.3 ^K | 3.0 ^K | 3.2 ^K | 2.8 ^K | 2.7 ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K |
| 9 | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | T ^K | 2.8 ^K | 2.9 ^K | 3.0 ^K | 3.1 ^K | 3.2 ^K | 2.8 ^K | 3.0 ^K | 3.3 ^K | 2.8 ^K | 2.8 ^K |
| 10 | 2.8 ^K | 2.8 ^K | 2.7 ^K | [2.8] ^K | 3.0 ^K | (2.9) ^K | 3.1 ^K | 3.4 ^K | G ^K | 3.2 ^K | B ^K | B ^K | 2.8 ^K | 3.0 ^K | 2.9 ^K | 2.9 ^K | 3.0 ^K | 3.1 ^K | T ^K | T ^K | 3.2 ^K | 2.9 ^K | (2.8) ^K | 2.8 ^K |
| 11 | (2.8) ^K | 2.8 ^K | 2.9 ^K | 2.9 ^K | 3.0 ^F | [3.2] ^T | 3.4 | 3.5 | 3.5 | 2.8 | [2.8] ^A | 2.9 | 2.8 | 2.7 | 3.1 | 3.1 | 3.3 | 3.3 | 3.2 | 3.2 | 2.8 | 2.8 | 3.0 | 2.8 |
| 12 | 2.8 | 2.9 | 3.0 | 3.1 ^P | 3.1 | 3.3 | 3.1 | 2.8 | 3.0 | 3.0 | 3.1 | 3.2 | [3.0] ^A | 2.8 | 3.1 | 3.2 | 3.2 | 3.1 ^P | 3.2 | 3.2 | 2.8 | 2.8 | 3.0 | 3.1 |
| 13 | 2.8 ^F | 2.8 ^F | 2.9 ^F | 2.7 ^F | 3.0 ^F | 3.3 | 3.5 | 3.3 | (3.3) ^P | A | A | 3.4 | 3.2 | 3.2 | 3.0 | 2.9 | 3.1 | 3.1 | 3.2 | 3.3 | 3.0 | 3.0 | 3.0 | 2.9 |
| 14 | 2.8 ^F | (2.9) ^F | 2.8 ^F | 3.0 ^F | (2.9) ^F | 3.5 | 3.4 | [3.4] ^A | 3.3 | 3.1 | A | A | A | A | (3.1) ^J | 3.1 | 3.1 | 3.3 | [3.2] ^A | 3.1 | 3.0 | 3.0 | 3.1 | (2.9) ^F |
| 15 | (2.9) ^F | (2.9) ^F | 3.0 ^F | (3.0) ^F | 3.1 | [3.1] ^B | 3.1 ^P | 3.6 | 3.5 | [3.2] ^A | 2.9 | 2.6 | 2.8 | 2.8 | 2.9 | 3.1 | 2.9 | 3.3 | [3.2] ^A | 3.3 | 3.0 | 2.7 | 2.8 | (3.0) ^F |
| 16 | [2.8] ^F | 2.7 ^F | 2.7 ^F | 2.8 ^F | (3.2) ^P | 2.8 | A | A | A | A | A | A | A | A | 2.8 | 2.7 | 3.0 | 3.1 | 3.3 | 2.8 | 2.7 ^P | 2.5 ^P | 2.5 | 2.5 ^F |
| 17 | (2.8) ^F | 2.7 | 2.8 ^P | 3.0 ^F | 2.6 ^K | 3.0 ^K | 2.5 ^K | A ^K | T ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | W ^K | B ^K | 2.7 ^K | 3.2 ^K | 2.8 ^K | 2.7 ^K | 2.7 ^K | 2.6 ^K |
| 18 | (2.7) ^K | (2.7) ^K | (2.8) ^K | (2.8) ^K | (3.1) ^K | 3.3 ^K | 3.3 ^K | G ^K | 2.8 ^K | 2.7 ^K | 2.5 ^K | 2.9 ^K | B ^K | 2.8 ^K | 3.1 ^K | 3.1 ^K | 3.3 ^K | 3.0 ^K | 3.2 ^K | 3.3 ^K | 2.9 ^K | 2.7 ^K | 2.7 ^K | 2.8 ^K |
| 19 | 2.8 ^K | 2.7 ^K | 2.9 ^K | 2.9 ^K | 3.0 ^K | 3.5 ^K | [3.2] ^R | 3.0 ^K | B ^K | B ^K | B ^K | B ^K | 2.8 ^K | 2.5 ^K | 3.1 ^K | 2.9 ^K | 3.1 ^K | 3.2 ^K | 3.3 ^K | [3.0] ^K | 2.7 ^K | 2.7 ^K | 2.7 ^K | 2.6 ^K |
| 20 | T ^K | 2.9 ^K | 3.0 ^K | 3.2 ^K | 2.9 ^K | 3.1 ^K | 3.3 ^K | 3.2 ^K | 3.2 ^K | A ^K | A ^K | A ^K | A ^K | A ^K | 2.6 ^K | 2.7 ^K | 3.0 | 3.2 | 3.5 | 2.8 | 2.8 | 2.7 | 2.8 | 2.7 |
| 21 | (2.7) ^J | 2.8 ^F | 2.8 ^F | 2.9 ^F | 3.0 ^F | 3.3 | 3.4 | A | A | A | A | A | 3.0 | 2.9 | (3.2) ^J | 3.3 | 3.3 | (3.0) ^J | [2.9] ^A | 2.8 | (2.8) ^J | 2.9 ^P | 2.8 | 2.8 ^F |
| 22 | 3.0 ^F | 3.2 | 2.7 ^F | 2.8 ^F | 2.8 ^F | 3.1 | (3.3) ^J | 2.4 | A | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 23 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 24 | (2.9) ^F | 2.8 ^F | 2.9 ^F | (2.8) ^F | (2.9) ^F | 3.1 | [3.2] ^A | 3.2 | C | 3.3 | [3.2] ^A | 3.0 | 2.8 | 2.8 | 3.1 | A | A | A | A | 3.3 | 2.9 | 2.8 | 2.9 | 2.8 |
| 25 | F | F | 2.9 ^F | [2.8] ^F | (2.8) ^F | 2.9 | 3.1 | 3.3 | 3.2 | 3.3 | [3.0] ^A | 2.6 | 2.8 | (3.2) ^J | (3.2) ^J | 3.2 | 3.1 | 3.2 | 3.0 | 3.1 | 3.2 | 3.0 | 3.0 | 2.9 |
| 26 | 2.9 ^F | 2.8 ^F | 2.8 ^F | 3.0 ^F | 3.1 | 3.4 | [3.4] ^A | 3.5 | 3.5 | A | B | 3.1 | 2.5 | 3.0 ^P | [3.0] ^A | 3.1 | 3.2 | 3.3 | 3.0 | [3.0] ^A | 3.2 | 3.0 ^H | 3.0 | 2.9 |
| 27 | (3.1) ^F | 2.8 ^F | 2.8 ^F | 2.9 ^F | 3.1 ^F | 3.2 | 3.3 | [3.2] ^B | 3.1 | 3.1 | [3.0] ^A | 2.9 | 3.0 | 2.8 | 2.6 | 3.0 | 2.8 | (3.3) ^P | 3.2 | 3.0 | 2.9 | 2.9 | 2.9 | 3.2 |
| 28 | 2.9 ^F | 2.8 ^F | 2.6 ^F | 2.7 ^F | (2.7) ^F | A | A | A | A | C | C | C | C | C | C | C | C | C | A | A | A | 2.9 | 3.1 | 2.9 |
| 29 | 2.8 | 2.7 ^F | F | AF | 3.0 ^F | 3.0 | [3.2] ^A | 3.5 | 3.6 | A | A | A | A | A | 3.0 | A | A | A | 3.0 | A | A | 3.1 ^P | A | A |
| 30 | 2.8 | [2.8] ^F | 2.8 ^F | 2.9 ^F | 3.1 ^F | 3.7 | 3.3 | A | A | A | A | A | A | A | A | 2.9 | [3.0] ^A | 3.0 | 3.0 | [3.2] ^A | 3.3 | A | A | A |
| 31 | 3.0 | 2.9 ^F | 2.8 | F | A | 3.1 | 3.1 | 3.0 | 3.4 | A | A | A | 2.9 | 3.1 | 3.0 | 3.1 | 3.2 | 3.3 | [3.2] ^A | 3.1 | 3.0 | 2.8 ^F | 2.8 | 2.8 |
| Mean | 2.9 | 2.8 | 2.8 | 2.9 | 3.0 | 3.2 | 3.2 | 3.2 | 3.3 | 3.1 | 3.0 | 3.0 | 2.9 | 2.9 | 3.0 | 3.0 | 3.1 | 3.2 | 3.1 | 3.1 | 3.0 | 2.9 | 2.9 | 2.8 |
| Median | 2.8 | 2.8 | 2.8 | 2.9 | 3.0 | 3.2 | 3.3 | 3.3 | 3.3 | 3.1 | 2.9 | 3.0 | 2.9 | 3.0 | 3.1 | 3.1 | 3.1 | 3.2 | 3.2 | 3.1 | 3.0 | 2.9 | 2.8 | 2.8 |
| Count | 2.6 | 2.6 | 2.5 | 2.5 | 2.6 | 2.6 | 2.6 | 2.3 | 1.9 | 1.3 | 1.2 | 1.2 | 1.7 | 2.2 | 2.3 | 2.3 | 2.4 | 2.4 | 2.3 | 2.3 | 2.7 | 2.5 | 2.5 | 2.5 |

Energy 0.85 Mc to 2.2 Mc in 2 min

Manual Automatic

(M3000)F2

A 9

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

Lat. 39° 48.5' N
Long. 140° 08.3' E

Akita

IONOSPHERIC DATA

135° E Mean Time

fminF

May, 1953

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|--------------|-------|--------|------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|-------|-------|------|
| 1 | 1.5 | 1.5 | E | E | E | 1.8 | 3.0 | 3.9A | 4.7A | A | T | T | 6.6 | 4.0A | (3.2) | 2.5 | (2.8A) | 3.2 | 2.1A | 2.2A | 1.5 | 2.2 | 1.5 | 2.0A |
| 2 | 2.7A | 1.3 | C | C | C | C | 2.5 | 3.5 | 3.6 | 5.3A | 5.5 | 4.8A | 4.7A | 3.4 | 4.0 | 4.8A | 4.4A | 2.1 | 1.7 | 2.0A | 1.8 | 1.5 | 1.5 | 1.5 |
| 3 | 1.5 | C | C | C | C | C | C | C | C | C | 4.6A | 3.8 | 3.6 | 3.6 | C | C | C | 3.0A | 2.8A | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 |
| 4 | 1.5 | E | 1.0 | E | E | 1.7 | 2.5 | 3.0 | 3.6 | 3.6 | 3.8 | A | A | 4.0 | 3.0 | 2.8 | 3.6 | 2.5 | 2.3 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 5 | 1.5 | E | E | E | E | 2.2 | 3.0 | 3.0 | 3.5 | 3.7 | 3.8 | 3.7 | (3.6) | 3.6 | 6.0 | 3.7 | 2.7 | 2.6 | 1.9 | 1.5 | 1.9 | 2.2A | 1.5 | 1.4 |
| 6 | 1.4 | 1.5 | 1.2 | 1.5 | 1.3 | 1.9 | 2.5 | 3.2 | 3.7 | 4.5 | A | A | 5.0A | 3.8 | 3.7 | 4.2 | 2.7 | 2.8 | 2.2 | C | C | C | C | C |
| 7 | 1.5 | (1.5F) | 1.7 | 1.7 | 1.0 | 1.7 | 2.4 | 3.7 | A | A | A | A | 3.6 | (4.0) | 4.5A | 4.0A | A | A | 5.0A | 2.8A | 1.8 | 1.9 | 1.4 | 1.4 |
| 8 | 1.4 | E | E | E | E | 2.1 | 2.5 | 3.5A | 4.0A | C | C | C | C | C | C | C | A | C | C | C | C | C | C | C |
| 9 | C | C | C | C | C | C | C | C | C | C | C | C | T | 3.5 | 3.1 | 3.0 | 2.6 | 2.4 | 1.9 | 2.5A | 1.8 | (1.7) | 1.6 | 1.5 |
| 10 | 2.2A | 1.5 | 1.5 | E | 1.5 | 1.9 | 2.1 | 2.8 | 3.0 | 3.1 | 3.2 | 3.5 | 3.5 | 3.4 | 3.2 | 2.8 | 2.8 | 2.4 | 2.1 | 1.8 | 1.5 | 1.5 | 1.5 | 1.5 |
| 11 | 1.5 | 1.0 | 1.0 | E | E | 1.6 | 2.4 | 2.5 | 2.8 | 3.4 | (3.4) | 3.4 | 3.3 | 3.3 | 3.2 | 3.0 | 3.2 | 2.5 | 1.9 | 3.5A | 1.8 | 2.5A | 1.5 | 1.5 |
| 12 | 1.4 | 1.5 | 1.5 | 1.3 | 1.4 | 1.8 | 2.7 | 3.6A | 3.9A | 3.5 | 3.3 | 3.8 | (3.5) | 3.2 | 3.3 | 2.9 | 2.7 | 2.8 | 2.5 | 1.8 | 1.7 | 2.1A | 1.4 | 1.5 |
| 13 | 1.6 | 1.3F | 1.0 | 1.5F | 1.6 | 1.8 | 2.7 | 3.7A | 3.9A | A | A | 4.0 | 4.5A | 3.4 | 3.8 | (3.5) | 2.8 | 2.5 | 2.8A | (2.2) | 1.5F | 1.5 | 1.5 | 1.5 |
| 14 | 1.4 | 1.3 | E | E | E | 2.4 | 2.4 | (3.2) | 3.9 | 4.5A | A | A | A | A | 4.6A | 3.5 | 2.8 | 2.6 | (2.9) | 3.2A | 3.6A | 1.6 | 1.5 | 1.5 |
| 15 | 1.4 | E | E | E | E | 2.4 | 2.7 | 3.5A | 4.1A | (4.0) | 3.8 | 3.6 | 3.6 | 4.0 | 4.0 | 3.3 | 2.9 | 2.8 | (2.7) | 2.6A | 1.5 | 1.5 | 1.5 | 1.5 |
| 16 | 1.5 | E | E | E | E | 2.7A | 4.0A | (4.2) | 4.4A | A | A | A | A | 4.0 | 3.8 | 3.0 | 3.0 | 2.5 | 1.9 | 3.5A | 2.1A | 1.5 | 2.5A | 1.5 |
| 17 | 1.5 | 1.5 | 1.5 | 1.3 | 1.4 | 3.0 | 3.5A | A | T | C | C | C | C | B | C | C | 2.7 | 2.5 | 2.5 | (1.8) | 2.0 | 1.5 | 1.5 | 1.5 |
| 18 | 1.5F | 1.0F | E | E | 1.3 | 2.3 | 2.5 | 3.0 | (3.0) | 3.1 | 3.2 | 3.2 | 3.7 | 3.2 | 3.2 | 2.7 | 3.2 | 2.5 | 1.6 | 5.2A | 1.6 | 1.5 | 1.5 | 2.3A |
| 19 | 1.5 | 1.0 | E | 1.4 | 1.5 | 1.8 | 2.4 | 2.7 | 3.3 | A | A | A | A | 3.9 | 5.2A | 3.4 | 3.2 | 2.6 | 2.0 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 20 | 1.5 | E | 1.4 | 1.3 | 2.8A | 3.6A | 2.7 | 3.1 | 3.6 | A | A | A | A | 4.1 | 3.7 | 3.3 | 4.4A | 5.5A | 3.3A | 3.7A | 5.0A | 1.5 | 1.5 | 1.5 |
| 21 | 1.6 | 1.0 | 1.9 | E | E | 1.9 | 3.0 | 3.0 | 3.8A | 4.4A | C | C | C | 4.5A | 4.4A | 3.7 | 3.2 | A | A | A | 3.2A | 2.7A | 4.8A | 1.5 |
| 22 | 1.5 | E | E | E | E | 2.1 | 2.9 | 3.8A | 4.4A | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 23 | C | C | C | C | C | C | C | C | C | 3.9 | (3.8) | 3.8 | 3.8 | 3.5 | 3.8 | 3.3 | 3.2 | 2.6 | 2.2 | 2.6A | 3.8A | A | A | 1.5 |
| 24 | (1.4) | 1.3F | 1.3 | E | E | 1.9 | (2.7) | 3.5A | 5.2A | 4.6A | A | A | 4.7 | 5.2A | A | A | A | A | A | A | 3.9A | (2.7) | 1.5F | 1.5F |
| 25 | 1.5F | 1.3F | 1.5 | (1.4) | 1.3 | 2.0 | 2.5 | 3.8A | 4.9A | 3.7 | (3.8) | 3.9 | 4.2 | 3.7 | 4.5 | 3.7 | 3.5 | (3.2) | 2.9 | 2.5A | 1.5F | 1.6 | 1.5 | 1.5 |
| 26 | 1.5 | 1.3 | E | 1.5 | 1.1 | 3.2A | (3.5) | 3.8 | 4.0A | A | A | 3.5 | 3.6 | 3.7 | (4.3) | 4.9A | 3.5 | 3.6A | 2.5 | A | A | 4.1A | (3.6) | 3.0A |
| 27 | 3.1F | 2.7F | 1.5F | 1.4F | E | 1.8 | 3.9A | 5.4A | 4.9A | 4.9A | 4.0 | (4.6) | 5.2A | 3.9 | 3.3 | 4.5A | 3.5A | (3.8) | 4.1A | A | A | 2.0A | 2.5A | 1.5 |
| 28 | 1.5 | E | E | E | E | 1.5F | A | A | A | C | C | C | C | C | C | C | C | C | C | A | A | 3.6A | 1.5 | 1.5 |
| 29 | 1.5F | 1.5 | AF | AF | AF | 2.0 | A | 4.0A | 3.9 | A | A | A | A | 3.2 | 5.0A | A | A | 2.5 | A | A | 6.0A | A | A | A |
| 30 | A | AF | AF | 2.8F | 1.0F | 2.5 | 3.0 | A | A | A | A | 3.8 | A | A | A | 3.4 | 5.0A | 4.5A | 4.5A | (3.5) | 2.5A | A | A | A |
| 31 | 1.5 | 1.5 | E | 1.5 | (1.8) | 2.2 | 3.1 | 3.8 | 4.6A | A | A | A | 4.5A | 5.3A | 5.0A | (4.8) | 4.5 | 3.0 | 4.5A | A | A | 2.5A | (2.0) | 1.5 |
| Mean Value | 1.6 | 1.4 | 1.4 | 1.6 | 1.4 | 2.2 | 2.8 | 3.5 | 4.0 | 4.0 | 3.8 | 3.8 | 4.1 | 3.8 | 4.1 | 3.6 | 3.3 | 2.9 | 2.6 | 2.8 | 2.4 | 1.9 | 1.8 | 1.6 |
| Median Value | 1.5 | 1.3 | 1.0 | E | 1.0 | 2.0 | 2.7 | 3.5 | 3.9 | 3.8 | 3.8 | 3.8 | 3.7 | 3.8 | 3.7 | 3.4 | 3.2 | 2.6 | 2.5 | 2.6 | 1.9 | 1.6 | 1.5 | 1.5 |
| Count | 28 | 27 | 26 | 26 | 27 | 26 | 26 | 24 | 23 | 14 | 13 | 13 | 19 | 24 | 24 | 24 | 24 | 24 | 24 | 22 | 25 | 25 | 25 | 26 |

Group 0.85 Mc to 22.0 Mc in min

Manual

Automatic

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

Lat. 39° 48.5' N
Long. 140° 08.2' E

IONOSPHERIC DATA

Akita

f_{min}E

May, 1953

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|------|------|------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|----|
| 1 | 1.5 | 1.7 | E | E | 1.5 | E | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | |
| 2 | 1.4 | 1.7 | E | C | C | C | 1.5 | 1.5 | 1.5 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5F | 1.5 | 1.5 | |
| 3 | 1.5 | C | C | C | C | C | C | C | C | C | 1.5 | 1.5 | 1.5 | 1.5 | C | C | C | C | 1.4 | 1.4 | 1.5 | 1.5 | 1.7 | 1.6 | |
| 4 | E | E | E | 1.6 | E | 1.3 | 1.5 | 1.5 | 1.5 | 1.5 | 1.8 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | |
| 5 | 1.0 | E | 1.5 | E | E | E | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.5 | 1.5 | 1.7 | E | |
| 6 | 1.5 | E | E | E | E | E | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | C | C | C | C | |
| 7 | 1.5 | E | E | E | E | E | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.5 | 1.4 | |
| 8 | 1.6 | 1.0 | 1.5 | E | 1.8 | 1.0 | 1.5 | 1.5 | 1.5 | C | 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 | 1.5 | E | E | E | E | E | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | |
| 11 | 1.5 | E | E | E | E | E | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | |
| 12 | 1.4 | 1.5 | E | E | E | E | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.6 | |
| 13 | 1.5 | E | E | E | E | E | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | 1.5 | 1.5F | 1.5 | 1.5 | 1.5 | |
| 14 | 1.4 | E | E | E | E | E | 1.4 | 1.4 | 1.5 | 1.5 | 1.5 | 1.6 | 1.5 | 1.5 | 1.5 | 1.4 | 1.5 | 1.4 | 1.4 | 1.5 | 1.5F | 1.5F | 1.5F | 1.5F | |
| 15 | 1.4F | E | 1.6 | 1.6 | 1.8 | E | 1.4F | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.5 | 1.4F | 1.5F | 1.5F | 1.5 | |
| 16 | 1.1 | E | E | E | E | E | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.5 | 1.5 | 1.5 | E | |
| 17 | E | E | 1.5 | 1.7 | 1.1 | 1.4 | 1.5 | 1.3 | T | C | C | C | C | C | C | C | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.6 | 1.5 | |
| 18 | 1.4 | 1.5 | E | 1.5 | E | E | 1.5 | 1.5 | 1.5 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.5 | 1.4 | 1.5 | 1.5 | 1.4 | 1.8 | 1.5 | |
| 19 | 1.4 | E | E | E | E | E | 1.0 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | E | E | E | 1.7 | 1.5 | 1.7 | |
| 20 | 1.6 | 1.5 | E | E | E | E | 1.0 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4F | 1.5F | 1.5 | 1.5 | 1.5 | 1.5 | |
| 21 | 1.2 | E | E | E | E | E | 1.4 | 1.4 | 1.5 | 1.5 | 1.5 | 1.6 | 1.5 | 1.6 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.5 | 1.4 | 1.5 | 1.4 | 1.5 | |
| 22 | 1.5 | 1.7 | 1.8 | E | E | E | 1.0 | 1.4 | 1.5 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 23 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 24 | 1.5 | E | E | E | E | E | 1.4 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | |
| 25 | 1.5 | 1.3F | E | E | E | E | 1.4 | 1.5 | 1.5 | 1.4 | 1.5 | 1.6 | 1.5 | 1.6 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.5 | 1.4 | 1.5 | 1.5 | 1.4 | |
| 26 | 1.2 | E | E | E | E | E | 1.3 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4F | 1.4 | 1.4 | 1.4 | 1.4 | 1.4F | |
| 27 | 1.5F | 1.2F | E | 1.0F | E | 1.0 | 1.4 | 1.5 | 1.4 | 1.9 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | |
| 28 | 1.1 | E | E | E | E | E | 1.4 | 1.5 | 1.4 | C | C | C | C | C | C | C | C | 1.5 | 1.5 | 1.5 | 1.4 | 1.5 | 1.5 | 1.5 | |
| 29 | 1.5 | 1.0 | E | E | E | E | 1.0 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.5 | 1.5 | 1.4 | 1.5 | 1.5 | |
| 30 | 1.5 | 1.0 | 1.0F | E | E | E | 1.0 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.7 | 1.5 | 1.6 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.5 | 1.5 | |
| 31 | 1.4 | E | E | E | E | E | 1.4 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5F | 1.5 | |
| Mean Value | 1.4 | 1.4 | 1.5 | 1.5 | 1.5 | 1.1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | |
| Median Value | 1.5 | E | E | E | E | E | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | |
| Count | 29 | 28 | 28 | 27 | 27 | 27 | 28 | 28 | 27 | 25 | 26 | 26 | 27 | 28 | 26 | 26 | 27 | 28 | 29 | 28 | 28 | 28 | 28 | 28 | 28 |

f_{min}E

Survey 5.25 Mc to 22.0 Mc in 2 min

Manual Automatic

A 11

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

Lat. 35° 42.4' N,
Long. 139° 29.8' E

IONOSPHERIC DATA

Kokubunji Tokyo

May, 1953

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 | 5.5 | 5.5 | 5.3 | 5.2 | 5.0 | 6.0 | 6.1 | 6.7 | 5.9 | 6.4 | 8.3P | 9.5 | 10.5 | 8.7P | 8.2P | 7.8 | 7.3 | 6.8 | 6.8 | 6.2 | 6.2 | A | F | 5.5P |
| 2 | 5.2P | 5.2 | 5.0 | 4.8 | 4.7 | 5.5 | (5.5)P | 5.8 | 5.5 | 5.9J | 5.7 | 7.5 | 8.0 | 7.5P | 9.0 | 8.8 | 7.2 | 6.5 | 6.7P | 6.9 | 6.6P | 5.8 | 5.7P | 5.1 |
| 3 | 5.5 | 5.0 | 4.8P | 4.3 | 5.0 | 5.7 | 7.0 | 6.4 | 5.5 | 6.0 | 5.9 | 6.0 | 7.1 | 8.3P | 8.6P | 9.0P | 8.0 | 7.5 | 7.6 | 6.3P | 5.3P | F | F | F |
| 4 | C | C | F | C | C | C | C | C | 5.5 | 5.6 | 6.7 | 7.9P | 8.4 | 8.4P | 8.1P | 7.2 | 6.2 | 6.5 | 7.0 | 6.6 | 5.9P | 6.0 | 5.8 | 5.8 |
| 5 | 5.6 | 5.5 | 5.7 | 4.9 | 3.9 | 4.1 | 5.2 | 6.1 | 5.5 | 5.4 | 7.4 | 8.5 | 9.0 | 8.5 | 7.6 | 7.0 | 7.2 | 7.3 | 7.0 | 6.5P | 6.5P | 6.3P | 4.9 | 4.9 |
| 6 | 5.4P | 5.4 | 5.8 | 4.7 | 4.2 | 4.0 | 5.0 | 5.5 | 5.7P | 5.7 | 6.7 | 7.3 | 8.5P | 8.0P | 8.1P | 5.6 | 5.6 | M | M | 5.6 | 5.9P | 6.4 | 6.1 | F |
| 7 | F | F | 4.7P | 3.7K | 3.7P | 3.7K | 4.8K | 4.5K | [4.6]A | 4.7K | A | A | A | A | A | 5.5K | 5.4P | 5.6P | 5.7P | 4.2K | F | B | 4.6K | B |
| 8 | 3.9K | 3.9K | 3.5K | 3.7K | 3.9K | 3.8K | 4.5P | 4.7K | 4.4K | A | A | A | 5.6K | 7.0K | 7.2K | 6.2K | 6.2K | 6.3K | 6.0K | 7.1K | 6.5K | 5.0K | 4.9P | 4.5P |
| 9 | (4.3)P | 3.9P | 3.4K | 3.7K | 3.3K | 4.2K | 4.9P | 5.0K | A | A | A | A | 5.3K | 6.3K | 7.3K | 7.5K | 7.0K | 6.0K | [5.9]A | 5.8P | 5.7K | 5.3K | 4.5K | 4.2K |
| 10 | 3.7K | 4.1P | 3.4P | F | 3.0K | 3.3K | 5.0K | 4.9K | 4.8K | 5.1P | [5.0]A | 5.0P | 5.7K | 6.1K | 5.7K | 6.1K | 7.2K | 8.3P | 8.3K | (8.2)P | [5.8]A | 3.3K | 3.5K | 3.6K |
| 11 | 3.0K | 4.0K | 3.2K | 2.8K | 2.7K | 4.7 | 5.2 | C | C | A | 4.7 | [5.2]A | 5.6 | 6.5 | 7.5 | 7.6 | 7.3 | 5.7P | 4.5 | 5.8P | 5.0 | 5.1 | [5.3]P | 5.5 |
| 12 | 5.0P | 5.0 | 5.0 | 4.3 | 3.5 | 4.5 | 5.6 | 5.6P | A | A | 5.4 | 5.8 | 5.4 | 5.5 | 5.7 | 6.3 | 6.0 | [5.2]B | 4.5 | 5.1 | 5.5P | 5.2P | 4.7P | F |
| 13 | 4.0 | F | F | 3.9P | 3.0 | 4.2 | 4.9 | 4.8 | A | A | 6.0 | 6.5 | 6.5 | 5.5 | 5.8 | 7.3 | 6.0 | 6.1 | 6.1 | 6.3 | 4.6 | 5.1P | F | 4.6P |
| 14 | 4.4P | F | 3.8P | F | 3.1 | 3.7P | [4.4]A | 5.2P | 5.7P | 5.7 | 5.3 | 5.2 | 7.0 | 7.3 | 8.3P | 7.0 | 6.8 | 5.8 | 4.9 | 4.7 | F | F | F | A |
| 15 | A | F | F | F | F | 6.0 | 5.8 | A | A | A | A | A | 6.5 | 7.7 | 8.5 | 8.8 | B | B | 7.5 | 7.5 | 5.1 | A | A | A |
| 16 | A | A | F | 4.5P | A | A | A | A | A | A | A | A | 7.2 | 7.3 | 8.2P | 7.5 | 8.4P | B | 6.8 | 5.0 | 5.2 | (5.0)P | [4.8]A | (4.5)P |
| 17 | 4.3P | 4.9 | (5.0)P | B | A | A | A | 4.0K | [4.1]A | 4.2K | 4.5K | 4.8K | 5.1K | G | 4.3K | 4.3K | B | A | A | A | 3.9K | 3.3K | 3.3K | 3.2K |
| 18 | 3.3K | 3.2K | 3.2K | 3.3K | 3.0K | 3.7K | 4.0K | [4.4]A | 4.8K | (5.5)P | 5.6P | 5.1K | 5.2K | 6.0K | 7.2K | 8.2P | 7.1K | A | A | A | A | 4.9K | 4.9K | 4.7K |
| 19 | 4.6K | 4.2K | 4.4P | 3.6P | 3.4P | 3.3K | 4.0K | 4.3K | G | A | 4.7K | 5.0K | (5.3)P | [6.2]A | 7.2K | 6.8K | 7.6K | 7.5K | 5.9K | 4.3K | 4.9K | 4.7K | 4.8K | 4.3K |
| 20 | 5.0K | 3.9K | 4.1K | 3.8K | 3.0K | 4.5K | A | B | 4.6K | 4.7K | [5.1]A | 5.5K | 5.2K | 5.5K | 5.7K | 5.7K | 6.5 | 7.5 | 6.5 | 5.1 | 6.5 | 5.5 | 5.2 | 5.1 |
| 21 | 4.8 | 5.0 | 4.4 | 4.9 | 4.5P | 5.0 | 5.4P | [5.5]A | 5.6P | 6.0 | A | A | A | A | B | 8.0P | 7.7 | 5.8 | 5.5 | 5.2 | 5.9 | 5.5P | 5.3 | 5.7 |
| 22 | 5.4P | 5.5P | 4.5P | 4.7P | 4.4 | 5.0 | [5.0]A | 4.9 | 5.7 | 5.9 | A | A | 6.7 | 7.0 | 7.3 | 7.1 | 8.0 | 8.1 | 7.4 | 6.2 | [5.4]A | 4.5 | 4.4P | (5.1)P |
| 23 | A | F | (5.5)P | [4.8]A | 4.0 | 4.2 | 6.0 | (6.0)P | A | A | 5.8 | 6.0 | 6.0 | 6.5 | 7.6 | 8.4 | 7.6 | 6.3 | 5.2 | M | M | A | A | A |
| 24 | 4.8P | 4.5P | 5.2P | 4.6 | 4.0 | 4.3 | 5.8 | 6.4 | (6.5)P | A | A | A | 5.6 | [6.4]A | 7.2 | 7.5 | 7.5 | 8.5P | 7.6 | [7.3]A | 7.0 | 4.9 | 4.7P | A |
| 25 | B | B | B | B | 4.5 | B | A | (5.9)P | (5.9)P | M | M | A | 6.5 | 8.3P | 9.0 | 8.6 | 7.6 | 7.6 | 7.0 | [7.0]A | 7.1P | A | A | 4.9 |
| 26 | 4.7P | 4.3P | 4.4P | 4.5P | [4.8]A | 5.0 | 5.7 | A | A | A | A | 5.7 | A | A | 7.4 | 7.3 | 6.6 | 6.5 | 6.3 | 6.4 | A | A | F | 5.6P |
| 27 | A | F | A | F | 4.8P | 4.5F | 5.5 | 7.0 | 6.1 | A | B | 5.2 | 6.0 | 7.5 | 7.5 | 8.0P | 8.0P | (8.0)P | 8.7P | 7.5 | 6.5 | [6.2]A | 6.0P | 6.0P |
| 28 | 5.0 | 3.7P | 3.5P | 4.4P | 3.9P | 5.0 | [5.3]A | 5.6P | A | A | 5.0 | B | 5.6P | 5.5P | [5.6]A | 5.6 | A | A | A | 6.5 | [6.8]A | 7.0 | 5.4P | F |
| 29 | F | 4.6 | 4.3 | [4.3]A | 4.3P | 4.0 | 6.6 | [6.2]A | 5.8 | A | A | 5.0 | [5.8]A | (6.5)P | 6.5 | 6.9 | 6.7 | 7.5P | A | A | 6.8 | [5.7]A | 4.6 | BF |
| 30 | F | A | F | 6.4P | 6.6 | 4.3 | 5.0P | [5.2]A | 5.5P | A | A | 5.7 | 6.7 | 7.1 | [6.8]C | 6.5 | 6.5 | 6.8 | 7.4 | 6.8 | [6.4]B | (5.7)P | 5.4 | FB |
| 31 | A | A | A | 4.2 | [4.4]P | 4.5 | 5.0 | 6.5 | A | A | 5.9 | 7.0 | (9.0)P | [9.2]A | 9.4 | | | | | | | | | |
| Mean Value | 4.6 | 4.6 | 4.4 | 4.3 | 4.0 | 4.4 | 5.1 | 5.4 | 5.5 | 5.4 | 5.9 | 6.3 | 7.0 | 7.3 | 7.3 | 7.1 | 6.9 | 6.5 | 6.4 | 5.8 | 5.3 | 5.0 | 4.9 | 4.9 |
| Median Value | 4.8 | 4.6 | 4.4 | 4.4 | 4.0 | 4.2 | 5.1 | 5.5 | 5.6 | 5.5 | 5.4 | 5.7 | 6.0 | 6.8 | 7.5 | 7.5 | 7.2 | 6.6 | 6.6 | 6.5 | 5.9 | 5.3 | 4.9 | 4.9 |
| Count | 21 | 20 | 23 | 24 | 26 | 28 | 26 | 25 | 22 | 16 | 16 | 19 | 27 | 28 | 29 | 31 | 29 | 25 | 26 | 27 | 26 | 23 | 22 | 19 |

Energy 1.0 Mc to 2.7.2 Mc in 2 min

Manual

Automatic

K 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

May. 1953

fpF2

| 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 | 400 (320) ^F | 360 350 | 370 350 | 380 350 | 370 360 | 310 280 | 270 (270) ^F | 270 | 300 | 330 | 380 | 370 ^P | 330 | 310 | 300 ^F | (290) ^F | 320 | 360 | 300 | 320 | 350 | 410 | 350 | 370 ^F | 380 |
| 2 | 350 310 | 350 ^P | 350 ^P | 330 | 380 | 310 | 270 | 280 | 300 | A | A | A | 410 | 350 | 340 ^P | (310) ^F | 320 | 320 | 300 | 330 | 350 ^P | 320 ^P | 370 ^F | F | F |
| 3 | C | C | F | C | C | C | C | C | C | U | 340 | 370 | 340 ^P | 310 | (320) ^F | 320 ^P | 340 | 310 | 310 | 310 | 360 | 360 | 360 | 340 | 340 |
| 4 | 360 | 360 | 320 | 270 | 320 | 300 | 280 | 270 | 270 | 320 | U | 350 | 320 | 340 | 320 | 320 | 340 | 310 | 310 | 300 | 340 ^P | 370 ^{SP} | 350 ^{SP} | 320 | 320 |
| 5 | 370 ^P | 400 | 350 | 320 | 320 | 310 | 270 | 270 | 270 | 320 ^F | 360 | 360 | 380 | (320) ^F | (310) ^F | (270) ^F | 280 | M | M | 350 | (450) ^F | 400 | 410 | F | F |
| 6 | F | F | 300 ^P | A ^K | (250) ^K | 320 ^K | 320 ^K | A ^K | A ^K | U ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | (340) ^K | (280) ^K | 270 ^K | 320 ^K | 350 ^K | FB ^K | 350 ^K | B ^K | B ^K |
| 7 | 350 ^K | 340 ^K | 370 ^K | 350 ^K | 290 ^K | 260 ^K | 270 ^K | 340 ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | 290 ^K | 320 ^K | 320 ^K | 320 ^K | 270 ^K | 320 ^K | 270 ^K | 340 ^K | 360 ^K | 360 ^K |
| 8 | (360) ^F | 360 ^F | 370 ^K | 330 ^K | 310 ^K | 270 ^K | 320 ^K | 300 ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | 330 ^K | (320) ^K | 310 ^K | 320 ^K | 330 ^K | 330 ^K | 330 ^K | 370 ^K | 380 ^K | 310 ^K | 310 ^K |
| 9 | 360 ^K | 360 ^K | 340 ^K | F ^K | 250 ^K | 270 ^K | 270 ^K | 270 ^K | U ^K | U ^K | U ^K | U ^K | 350 ^K | 320 ^K | 350 ^K | 370 ^K | 350 ^K | 300 ^K | 320 ^K | (270) ^K | (320) ^K | 360 ^K | 380 ^K | 380 ^K | 380 ^K |
| 10 | 360 ^K | 370 ^K | 370 ^K | 300 ^K | 300 | 290 | 260 | C | C | A | U | A | U | 350 | 320 | 290 | 280 | 290 ^P | 310 | 300 ^P | 360 | 370 | (360) ^F | 350 | 350 |
| 11 | 370 | 370 | 320 | 260 | 270 | 270 | 290 | 300 | 300 ^P | 310 | (350) ^F | 330 | 350 | U | 320 | 310 | 300 | (360) ^F | 300 | 380 | 350 ^F | 370 ^F | 350 ^F | F | F |
| 12 | 320 | F | F | F | 300 | 290 | 250 | 250 | A | A | A | A | 320 | 290 | 330 | 330 | 310 | 310 | 270 | 280 | 330 | 360 ^F | F | F | 360 ^F |
| 13 | (330) ^F | F | F | F | 320 | 280 ^F | (270) ^F | 260 ^F | 310 ^F | 290 | U | U | 380 | 340 | 330 | 310 ^P | 300 | 280 | 240 | 280 | 340 | F | F | F | AF |
| 14 | AF | F | F | F | F | (290) ^F | 260 | 260 | A | A | A | A | 370 | 350 | 330 | 330 | 300 | B | B | 300 | 270 | A | A | A | A |
| 15 | A | A | F | 380 ^F | AF | A | AF | A | A | A | A | A | 340 | 330 | 340 ^P | 370 | (330) ^F | B | B | 270 | 310 | (430) ^F | (420) ^F | (420) ^F | (420) ^F |
| 16 | 400 ^F | 370 | (370) ^F | B | A ^K | A ^K | A ^K | U ^K | A ^K | U ^K | U ^K | U ^K | 460 ^K | G ^K | U ^K | U ^K | B ^K | A ^K | A ^K | A ^K | A ^K | A ^K | 400 ^K | 380 ^K | 380 ^K |
| 17 | 380 | 380 | 350 | 330 | 300 ^K | 270 ^K | 270 ^K | A ^K | U ^K | (310) ^K | U ^K | U ^K | U ^K | 380 ^K | 340 ^K | (310) ^K | 300 ^K | A ^K | A ^K | A ^K | A ^K | A ^K | 400 ^K | 370 ^K | 380 ^K |
| 18 | 350 | 360 | (350) ^F | (330) ^F | (320) ^K | 280 ^K | 280 ^K | U ^K | G ^K | A ^K | U ^K | U ^K | U ^K | U ^K | U ^K | 350 ^K | 360 ^K | 330 ^K | 270 ^K | 280 ^K | 320 ^K | 370 ^K | 380 ^K | 380 ^K | 380 ^K |
| 19 | 350 | 320 | 340 | 280 | 300 ^K | 250 ^K | A ^K | B ^K | U ^K | U ^K | U ^K | A ^K | U ^K | U ^K | 410 ^K | 370 ^K | 330 | 290 | 320 | 340 | 370 ^K | 400 ^K | 380 ^K | 380 ^K | 380 ^K |
| 20 | 380 | 350 | 320 | 360 | 320 ^P | 300 | (270) ^F | (360) ^F | 420 ^H | 370 | A | A | A | A | 370 | 300 ^P | 280 | 270 | 320 | 340 | 370 | 350 | 400 | 360 | 360 |
| 21 | (350) ^F | 340 ^F | 320 | 370 ^F | 320 | 260 | A | A | 300 | 360 | A | A | 340 | 360 | 330 | 370 | 320 | 280 | 270 | 340 | (330) ^F | (350) ^F | 350 | 370 | 370 |
| 22 | AF | AF | (310) ^P | AS | A | 280 | 330 | (280) ^F | A | A | A | 350 | 360 | 370 | 320 | 320 | 270 | 260 | 270 | M | M | A | A | AF | AF |
| 23 | 320 ^P | 330 ^P | 340 ^P | 320 | 300 | 270 | 270 | 260 | (270) ^F | A | A | A | A | A | A | 340 | 310 | 290 ^P | 280 | (280) ^A | 280 | 340 | 370 ^F | A | A |
| 24 | B | B | B | B | B | 320 | B | A | (300) ^F | M | M | A | 370 | (320) ^F | 360 | 320 | 310 | 320 | (320) ^A | 320 ^P | B | A | A | A | 370 |
| 25 | 360 ^F | 360 ^F | (350) ^F | 330 ^F | (300) ^A | 270 | 300 | A | A | A | A | A | A | A | A | 320 | 310 | 300 | 320 | 310 | AF | A | A | F | F |
| 26 | AF | A | A | F | 370 ^F | 330 ^F | 300 | 270 | 270 | A | B | U | 370 | 320 | 320 | 360 ^P | (360) ^F | (350) ^F | 270 ^P | 270 | 330 | (340) ^A | 360 ^F | (430) ^F | (430) ^F |
| 27 | 320 | (320) ^F | 320 ^F | (320) ^F | 360 | (350) ^F | 340 ^F | A | A | U | B | U | B | U | (400) ^F | (360) ^F | 320 | A | A | A | 360 | (360) ^A | 350 | (350) ^F | F |
| 28 | F | 350 | 350 | (360) ^A | (360) ^F | 320 | A | A | 270 | A | A | U | A | (340) ^F | 340 | 330 | 330 | 330 ^P | A | A | A | A | A | AF | AF |
| 29 | F | AF | F | (330) ^F | 260 | 250 | 270 | 320 ^P | A | U | A | A | 380 | 350 | 330 | (330) ^C | 330 | 330 | 330 | 330 | 310 | 300 | (310) ^A | 320 | BF |
| 30 | F | A | A | AF | 350 | (320) ^F | 300 ^F | A | 260 | A | A | A | 410 | 380 | (360) ^F | (330) ^A | 300 | B | B | B | B | B | (370) ^F | 360 | FB |
| 31 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| Mean Value | 360 | 360 | 340 | 330 | 310 | 290 | 290 | 290 | 290 | 330 | 350 | 350 | 360 | 340 | 330 | 330 | 320 | 300 | 300 | 310 | 340 | 360 | 370 | 370 | 370 |
| Median Value | 360 | 360 | 340 | 330 | 320 | 290 | 280 | 280 | 300 | 320 | 350 | 350 | 360 | 340 | 330 | 320 | 310 | 300 | 300 | 310 | 340 | 360 | 360 | 360 | 370 |
| Count | 21 | 20 | 23 | 22 | 25 | 28 | 23 | 18 | 15 | 8 | 5 | 8 | 19 | 24 | 28 | 30 | 29 | 24 | 25 | 26 | 25 | 23 | 22 | 19 | |

fpF2

Sweep 1.0 sec to 7.2 Me in 2 min

Manual Automatic

K 2

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

IONOSPHERIC DATA

Kokubunji Tokyo

Lat. 35° 42.4' N
Long. 139° 29.3' E

RFZ

May, 1953

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 | 300 | 300 | 290 | 300 | 290 | 250 | 250 | 270 | 280 | L | 380 | 330 | 310 | 280 | 290 | 280 | 280 | 250 | 260 | 280 | 260 | (280) ^A | 300 | 300 | |
| 2 | 300 ^F | 280 | 270 | 280 | 270 | 230 | 230 | 260 | 280 | [320] ^A | 370 ^A | 330 ^A | 300 | 330 | 300 | 280 | 310 ^A | 300 | 270 | 270 | 250 ^A | 260 | 270 | 310 | |
| 3 | 270 | 250 | 280 | 260 | 290 | 250 | 250 | 250 | 270 | 280 ^A | 310 | 370 ^A | [360] ^A | 350 ^A | 330 ^A | 300 ^A | 300 ^A | 280 | 250 ^F | 270 | 250 ^F | 250 | 280 | 300 ^F | |
| 4 | 300 | 300 | 260 ^F | 220 | C | C | C | C | C | C | 320 | 340 | 370 | 320 | 300 | 290 | 290 | 260 | 270 | 250 | 260 | 240 | 280 | 270 | |
| 5 | 280 | 280 | 240 | 220 | 240 | 240 | 270 | 270 | 270 | 370 | 380 | 350 | 300 | 310 | 300 | 320 | 300 | 290 | 250 | 230 | 250 | 290 | 280 | 250 | |
| 6 | 300 | 300 | 250 | 230 | 250 | 250 | 260 | 270 | 260 | 320 | (340) | 350 | 380 | 300 | 300 | 260 | 280 | M | M | 290 | 340 | 320 | 330 | 280 | |
| 7 | 250 ^F | 240 ^F | 250 | [240] ^A | 240 | 260 ^F | 310 ^F | A | A | 480 ^F | A | A | A | A | A | 360 ^K | 320 ^K | 270 ^K | 270 ^K | 280 ^K | (300) ^K | 320 ^K | 310 ^K | 320 ^K | |
| 8 | 310 ^K | 280 ^K | 290 ^F | 270 ^F | 260 ^F | 240 ^F | 260 ^F | (340) ^F | A | A | A | A | 390 ^K | 330 ^K | 290 ^K | 320 ^K | 310 ^K | 300 ^K | 280 ^K | 260 ^K | 260 ^K | (320) ^K | 280 ^K | 310 ^K | |
| 9 | 300 ^K | 300 ^K | 300 ^K | 260 ^F | 260 ^F | 260 ^F | 280 ^F | 290 ^F | A | A | A | A | 430 ^K | 350 ^K | 310 ^K | (300) ^K | 300 ^K | 300 ^K | (280) ^K | 260 ^K | 260 ^K | 280 ^K | 250 ^K | 250 ^K | |
| 10 | 300 ^K | 320 ^A | 270 ^F | 310 ^F | 230 ^A | 250 ^F | 260 ^F | 270 ^F | 380 ^K | 400 ^K | [440] ^K | 470 ^K | 350 ^K | 320 ^K | 350 ^K | 370 ^K | 300 ^K | 280 ^K | 250 ^K | 220 ^K | (260) ^K | 300 ^K | 300 ^K | 310 ^K | |
| 11 | 300 ^K | 300 ^K | 290 ^F | 260 ^F | 250 ^F | 250 ^F | 250 ^F | C | C | A | 460 | (420) ^A | 370 | 350 | 310 | 280 | 270 | 260 | 260 ^A | 270 ^A | 290 ^A | 310 ^A | 290 | 280 | |
| 12 | 300 | 300 | 240 | 220 ^F | 240 | 250 | 250 | 300 | 300 | 310 | 340 | 330 | 350 | 410 | 320 | 300 | 290 | 250 | 250 ^A | 260 ^A | 260 | 270 | 290 | 250 | |
| 13 | 260 | 300 | 280 | 250 | 240 | 250 | 250 | 250 | A | A | A | 320 | 290 | 320 | 330 | 330 | 300 | 300 | 300 | 260 | 250 | 240 ^F | 300 | 260 | 270 |
| 14 | 300 | 320 ^F | 260 | 220 ^F | 250 | 270 ^A | [260] ^A | 250 | 300 | 290 | 330 | 410 | 380 | 340 | 310 | 290 | 300 | 270 | 230 ^A | 230 ^A | 250 | 310 | 270 ^F | AF | |
| 15 | AF | 300 ^F | 250 ^F | 250 ^F | 240 ^F | 260 | 250 | 250 ^A | A | A | A | A | 360 | 330 | 300 | 320 | 280 | 280 | 280 | 260 | 250 | 260 ^A | A | A | |
| 16 | 360 ^A | [530] ^A | 300 | 300 | AF | A | AF | A | A | A | A | A | 440 | 320 | 320 | 360 | 310 | 250 | 260 | 250 | 260 | 310 | 320 | (340) ^A | |
| 17 | 350 | 300 | 280 | 290 | A | A | A | A | A | A | A | A | 460 ^K | 570 ^K | 550 ^K | 480 ^K | B | A | A | A | A | 300 ^K | A | 330 ^K | |
| 18 | 310 ^K | 300 ^K | 280 ^K | 270 ^K | 250 ^K | 250 ^K | 250 ^K | (340) ^K | 430 ^K | 310 ^K | 350 ^K | 380 ^K | 440 ^K | 380 ^K | 330 ^K | 290 ^K | 300 ^K | A | A | A | A | A | 320 ^K | 320 ^K | |
| 19 | 300 ^K | 300 ^K | 260 ^K | 260 ^K | 230 ^K | 250 ^K | 270 ^K | 350 ^K | 570 ^K | A | 480 ^K | 420 ^K | 420 ^K | (380) ^K | 350 ^K | 340 ^K | 310 ^K | 250 ^K | 250 ^K | 250 ^K | 290 ^K | 310 ^K | 310 ^K | 310 ^K | |
| 20 | 280 | 260 | 270 | 240 | 250 | 250 ^K | (280) ^K | 300 ^K | 470 ^K | 400 ^K | [450] ^K | 500 ^K | 440 ^K | 390 ^K | 410 ^K | 390 ^K | 320 | 280 | 320 | 260 | 260 | 280 | (290) ^K | 300 | |
| 21 | 300 | (280) ^A | 250 | 270 | (250) ^A | 230 | 270 | [320] ^A | 370 ^A | 370 | A | A | A | A | A | 290 | 260 | 260 | 270 | A | A | A | (310) ^A | 300 | |
| 22 | 270 | 270 | 250 | 300 ^A | 270 | 260 | A | A | 300 | 360 | A | A | 340 | 350 | 330 ^A | 350 | 300 | 280 | 250 | 260 | (280) ^A | 300 ^A | 320 | 310 | |
| 23 | 280 | 280 | 250 | 260 | (260) ^A | 270 ^A | 280 | 280 | 300 | [310] ^A | 320 ^A | 350 | 360 | 370 | 320 | 280 | 290 | 260 | 270 | M | M | A | A | 270 | |
| 24 | 280 | 280 | 250 | 240 | 240 | 240 | 260 | 240 | 270 | A | A | A | A | A | 330 | 300 ^A | 290 | 280 | (270) ^A | (260) ^A | 250 | 250 | A | 270 | |
| 25 | 320 | (300) ^A | 270 | 270 | (260) ^A | 260 | 270 | (290) ^A | 300 | M | M | A | 370 | 310 | 320 | 300 | 290 | 280 | (260) ^A | (260) ^A | 250 | 250 | A | 270 | |
| 26 | 290 | 310 | 320 ^A | 280 ^A | (260) ^A | 240 | 270 | A | A | A | A | 360 | A | A | 310 | 300 | 300 | 300 | 300 | 260 | 280 ^A | 300 | (280) ^A | 260 | 250 |
| 27 | 270 ^F | A | A | 300 ^A | 270 ^F | 250 | 290 | 250 | 270 | A | B | 420 | 370 | 320 | 320 | 320 | (340) ^A | 340 ^A | 340 ^A | 270 | 250 ^A | (360) ^A | (280) ^A | 270 | 290 |
| 28 | 250 | 270 | 270 | 300 | 250 | 320 | (330) ^F | 340 | A | A | 430 | [450] ^B | 420 | 420 | 390 | (360) ^A | 320 | A | A | A | 320 ^A | (280) ^A | (280) ^A | 270 | 290 |
| 29 | [260] ^A | 280 | 320 ^A | (300) ^A | 290 | 260 ^A | 300 ^A | (280) ^A | 270 | A | A | 470 | (400) ^B | 330 ^A | 330 ^A | 310 | 320 | 280 | A | A | A | 280 ^A | 280 ^A | 280 | 280 |
| 30 | 320 ^A | 330 ^A | 320 ^A | 240 | 210 | 210 | 270 | L | A | 330 | A | A | 380 | 340 | 330 ^A | (330) ^A | 330 | (330) ^A | 300 | 270 | A | A | 280 ^A | 280 | |
| 31 | A | A | A | 270 | (280) ^F | 280 ^A | A | A | 260 | A | A | A | 410 | 360 | 320 | (300) ^A | 270 | (260) ^B | 260 | 280 | 280 | B | B | B | |
| Mean Value | 300 | 290 | 270 | 260 | 250 | 250 | 270 | 300 | 330 | 360 | 400 | 400 | 370 | 340 | 330 | 320 | 300 | 280 | 260 | 260 | 260 | 260 | 260 | 290 | |
| Median Value | 300 | 300 | 270 | 260 | 250 | 250 | 260 | 280 | 300 | 320 | 380 | 380 | 370 | 340 | 320 | 300 | 300 | 280 | 260 | 260 | 260 | 260 | 260 | 290 | |
| Count | 29 | 29 | 29 | 31 | 28 | 28 | 26 | 23 | 20 | 16 | 16 | 20 | 27 | 27 | 30 | 31 | 30 | 27 | 26 | 26 | 26 | 26 | 24 | 25 | |

K 3

Automatic

Manual

Frequency f_oF_2 Mc to f_oF_2 Mc in 2 min

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

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

May. 1953

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 | | | | | | | Q | Q | A | L | 4.9 | A | A | 4.6 | (4.4) ^A | 4.3 | A | L | Q | | | | | |
| 2 | | | | | Q | | Q | L | A | A | A | A | A | 4.7 | 4.6 | A | A | A | | | | | | |
| 3 | | | | | | | Q | 3.7 ^L | A | A | A | A | A | A | A | A | A | A | | | | | | |
| 4 | | | | | | | C | C | C | A | 4.5 | 4.8 | 4.6 | A | A | A | 4.1 | Q | Q | | | | | |
| 5 | | | | | Q | | L | L | 4.0 | 4.4 ^L | (4.4) ^A | 4.4 | 4.5 | 4.5 | (4.4) ^B | 4.2 | 3.8 ^L | 3.7 ^L | Q | | | | | |
| 6 | | | | | | | L | 3.5 ^L | A | A | L | 4.5 | 4.5 | (4.4) ^A | 4.4 ^H | 4.2 | 3.6 | M | M | | | | | |
| 7 | | | | | | | A | A | A | A | A | A | A | A | A | 4.0 | (3.8) ^A | 3.5 | Q | | | | | |
| 8 | | | | | | | L | 3.7 | A | A | A | A | A | A | 4.2 | 4.1 | 4.0 | L | L | | | | | |
| 9 | | | | | | | 3.3 ^L | 3.7 | A | A | A | A | A | 4.3 ^A | 4.2 ^A | A | A | A | A | | | | | |
| 10 | | | | | | | L | 3.7 | 4.1 | 4.0 | 4.2 | 4.2 | 4.3 | 4.2 | 4.2 | 4.0 | 3.8 | 3.5 | L | | | | | |
| 11 | | | | | | | 3.3 ^L | C | C | A | 4.2 | (4.2) ^A | 4.3 | 4.1 | 4.3 ^A | 4.0 | A | A | A | | | | | |
| 12 | | | | | | | Q | 3.8 | 4.0 | 4.2 | 4.2 | 4.2 | 4.3 | 4.2 | 4.1 | 4.0 | 3.8 | 3.4 | | | | | | |
| 13 | | | | | Q | | A | A | A | A | 4.4 ^A | 4.3 | 4.3 | 4.3 | 4.1 | 4.2 | 3.9 | 3.5 | L | | | | | |
| 14 | | | | | A | | A | A | 4.0 | A | 4.2 | 4.3 | 4.2 | 4.2 | 4.2 | 4.1 | A | A | | | | | | |
| 15 | | | | | A | | A | A | A | A | A | A | 4.3 | 4.3 | A | A | A | A | A | | | | | |
| 16 | | | | | AF | | A | A | A | A | A | A | A | A | 4.2 | 4.2 | 3.9 | 3.2 | A | | | | | |
| 17 | | | | | A | | A | A | A | 3.7 | (3.8) ^A | 4.0 | (4.0) ^A | 3.9 | 3.8 | 3.8 | B | A | A | | | | | |
| 18 | | | | | | | Q | A | 4.0 | 4.2 | 4.2 | 4.3 | 4.2 | 4.2 | 4.2 | 4.1 | A | A | A | | | | | |
| 19 | | | | | | | 3.0 ^L | 4.0 ^L | 4.0 | (4.0) ^A | 4.2 | 4.1 | 4.2 | A | A | 4.0 | 3.8 | 3.5 | Q | | | | | |
| 20 | | | | | | | A | 3.8 ^L | 3.9 | 4.0 | (4.0) ^A | 4.2 ^A | 4.3 ^A | 4.3 | 4.2 | 4.2 ^H | 3.9 | 3.6 | 3.0 ^L | | | | | |
| 21 | | | | | Q | | L | A | A | 4.3 | A | A | A | A | 4.2 | 4.0 | 3.8 | 3.5 | L | | | | | |
| 22 | | | | | | | A | A | A | A | A | A | A | A | A | 4.2 | 4.2 | 3.8 | Q | | | | | |
| 23 | | | | | A | | A | 4.1 ^L | A | A | A | 4.4 | 4.4 | (4.4) ^A | 4.4 | 4.2 | A | A | A | | | | | |
| 24 | | | | | Q | | 3.3 ^L | 3.9 | A | A | A | A | A | A | A | A | 4.0 | 3.6 | | | | | | |
| 25 | | | | | | | 3.7 ^L | A | A | M | M | A | A | A | A | 4.2 | 4.0 | 3.7 ^L | A | | | | | |
| 26 | | | | | | | A | A | A | A | A | 4.5 | A | A | 4.4 | 4.0 | 4.0 | A | | | | | | |
| 27 | | | | | | | 3.8 ^L | 3.9 ^A | A | A | 4.5 | 4.6 | A | A | A | A | A | A | A | | | | | |
| 28 | | | | | | | A | A | A | A | 4.3 | 4.4 | 4.3 ^A | 4.2 ^A | 4.2 ^A | A | A | A | A | | | | | |
| 29 | | | | | | | A | A | A | A | A | 4.5 ^L | A | A | A | 4.3 | 4.0 | A | A | | | | | |
| 30 | | | | | | | A | L | A | 4.4 | A | 4.5 | 4.5 | 4.5 | A | A | A | A | | | | | | |
| 31 | | | | | A | | A | A | A | A | A | A | 4.4 ^A | 4.3 ^A | 4.3 ^A | A | A | A | | | | | | |
| Mean Value | | | | | | | 3.4 | 3.8 | 4.0 | 4.1 | 4.2 | 4.4 | 4.3 | 4.3 | 4.3 | 4.1 | 3.9 | 3.6 | 3.0 | | | | | |
| Median Value | | | | | | | 3.3 | 3.8 | 4.0 | 4.2 | 4.2 | 4.4 | 4.3 | 4.3 | 4.2 | 4.1 | 3.9 | 3.5 | 3.0 | | | | | |
| Count | | | | | | | 6 | 11 | 7 | 9 | 13 | 17 | 16 | 18 | 20 | 21 | 17 | 12 | 1 | | | | | |

foF1

Sweep 1.0 Mc to 1.72 Mc in 2 min

Manual Automatic

K 4

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

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

May. 1953

RFI

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|------------|----|----|----|----|----|----|------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|------|------|-----|----|----|----|----|
| 1 | | | | | | Q | Q | Q | A | 300A | 260 | A | A | A | A | 250 | [260]A | 280A | Q | | | | | |
| 2 | | | | | Q | | Q | 240A | 260 | A | A | A | A | A | 240 | 250 | A | A | A | | | | | |
| 3 | | | | | | | Q | 250 | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 4 | | | | | | C | C | C | A | A | (280)A | 250 | A | A | A | A | 270A | Q | Q | | | | | |
| 5 | | | | Q | | Q | 260 | 260 | 230 | [220]A | 200 | 230A | 230A | 250 | [240]B | 220 | 250 | 250 | Q | | | | | |
| 6 | | | | | | | 250 | A | A | 230 | 230 | 240 | [240]A | 230A | 240 | 220 | 220 | M | M | | | | | |
| 7 | | | | | | | A | A | A | A | A | A | A | A | A | 250 | [330]A | 210 | Q | | | | | |
| 8 | | | | | | | 240 | 260 | A | A | A | A | A | A | 230 | 250 | [260]A | 270 | | | | | | |
| 9 | | | | | | | 260 | 250 | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 10 | | | | | | | 250 | 250 | 230 | 220 | 200 | 200 | 250 | 250 | 240 | 220 | 250 | 250 | 260A | | | | | |
| 11 | | | | | | | 240 | C | C | A | 220 | [220]A | 220 | 220 | [240]A | 250 | A | A | A | | | | | |
| 12 | | | | | | | Q | (270)A | [270]A | 250 | 230 | 210 | 240 | 210 | 210 | 250 | 270A | 260A | | | | | | |
| 13 | | | | | Q | | A | A | A | A | A | A | 260 | 220 | 200 | 250 | 250 | 230A | 250 | | | | | |
| 14 | | | | | A | | A | A | A | A | A | A | 200 | 210 | 220 | 280 | A | A | | | | | | |
| 15 | | | | | A | | A | A | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 16 | | | | | AF | | AF | A | A | A | A | A | A | A | 240 | 220 | 240 | 250 | A | | | | | |
| 17 | | | | | A | | A | A | A | A | A | 260 | [260]A | 270 | 250 | A | B | A | A | | | | | |
| 18 | | | | | | | Q | A | 210 | 230 | 200 | 200 | 210 | 250 | 230 | 230 | A | A | A | | | | | |
| 19 | | | | | | | 230 | 230 | A | A | A | A | A | A | A | 250 | 210 | 240 | Q | | | | | |
| 20 | | | | | | | A | (270)A | A | A | A | A | A | 240 | 220 | 230H | 210 | 230 | 230 | | | | | |
| 21 | | | | | | Q | 230 | A | A | 250 | A | A | A | A | A | 220 | 210 | 260 | 220 | 250 | | | | |
| 22 | | | | | | | A | A | A | A | A | A | A | A | A | A | 240 | 230A | Q | | | | | |
| 23 | | | | | | A | A | 250 | A | A | A | 210 | 240 | [240]A | 250 | 220 | A | A | A | | | | | |
| 24 | | | | | Q | | 240 | 240 | A | A | A | A | A | A | A | A | 260 | A | A | | | | | |
| 25 | | | | | | | 270A | A | A | M | M | A | A | A | A | 220 | 220 | 230 | A | | | | | |
| 26 | | | | | | | A | A | A | A | A | 220 | A | A | (260)A | A | A | A | A | | | | | |
| 27 | | | | | | | 260A | A | A | A | 210 | 210 | A | A | A | A | A | A | A | | | | | |
| 28 | | | | | | | A | A | A | A | 220 | 250 | A | A | A | A | A | A | A | | | | | |
| 29 | | | | | | | A | A | A | A | A | A | A | A | A | A | 240 | A | A | | | | | |
| 30 | | | | | | | A | 250 | A | 230 | A | A | A | A | 250A | A | C | A | A | | | | | |
| 31 | | | | | | | A | A | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| Mean Value | | | | | | | 250 | 250 | 250 | 240 | 220 | 220 | 240 | 240 | 230 | 240 | 240 | 240 | 250 | | | | | |
| Max Value | | | | | | | 250 | 250 | 260 | 230 | 220 | 220 | 240 | 240 | 240 | 240 | 250 | 240 | 250 | | | | | |
| Count | | | | | | | 11 | 12 | 6 | 7 | 9 | 12 | 11 | 13 | 16 | 17 | 17 | 13 | 5 | | | | | |

K 5

Manual Automatic

Sweep / 0 Me to 17.2 Mc in 2 min

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

IONOSPHERIC DATA

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

foE

May. 1953

135° E Mean Time

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

foE

Sweep 1.0 Mc to 1.7.2 Mc in 2 min

Manual Automatic

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

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

IONOSPHERIC DATA

135° E Mean Time

13'E

May. 1953

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

K 7

Swamp 1.0 Mc to 17.2 Mc in 2 min Manual Automatic

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

Lat. 35° 42.4' N
Long. 139° 28.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

May. 1953

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 | 2.1 | 3.5 | 4.2 | 5.5 | 5.2 | 4.9 | 5.9 | 6.2 | 5.3 | 5.5 | 4.8 | 5.0 | 4.2 | G | 4.0 | 3.2 | F | 3.3 | 6.0 | 4.5 |
| 2 | 3.1 | 2.1 | 5.0 | 2.0 | 2.2 | 2.2 | 2.7 | 4.0 | 4.8 | 6.5 | 7.0 | 6.8 | 7.0 | 4.9 | 4.9 | 6.5 | 6.8 | 5.3 | 4.0 | 3.0 | 3.3 | 4.5 | 2.7 | 5.5 | |
| 3 | 3.0 | 2.2 | 3.2 | 3.3 | 2.0 | 2.5 | 3.0 | 4.9 | 5.3 | 5.5 | 4.9 | 6.0 | 6.3 | 5.8 | 6.5 | 7.0 | 6.5 | 4.9 | 2.7 | 4.5 | 2.1 | 2.2 | 2.5 | 2.0 | |
| 4 | 2.5 | E | 2.0 | E | C | C | C | C | C | 5.0 | 5.0 | 5.0 | 5.0 | 7.2 | 7.4 | 6.5 | 4.5 | G | E | 3.2 | 3.2 | F | 3.0 | 3.0 | |
| 5 | 2.0 | 2.0 | 2.0 | 2.5 | 2.2 | 2.6 | 3.5 | 4.0 | 4.5 | 6.8 | 5.2 | 4.5 | 5.0 | 4.5 | B | 4.2 | 3.5 | 3.2 | 2.6 | 2.3 | 2.2 | 2.7 | 3.0 | 2.5 | |
| 6 | 2.5 | 2.0 | 2.5 | 2.1 | 3.0 | 2.2 | G | 4.4 | 4.8 | 5.5 | 8.6 | 7.0 | 4.5 | 4.5 | G | G | G | M | M | 5.0 | E | E | E | 1.9 | |
| 7 | 1.8 | 2.5 | 2.2 | 3.7 | 2.5 | 2.9 | 4.0 | 5.2 | 7.1 | 5.5 | 7.5 | 9.5 | 9.5 | 7.5 | 7.5 | 7.5 | 4.7 | 3.7 | 3.3 | 5.0 | 7.0 | 3.0 | 3.0 | 4.9 | |
| 8 | 3.0 | 2.2 | 2.0 | 2.0 | E | 1.5 | 3.2 | 3.7 | 5.0 | 6.7 | 5.2 | 6.0 | 6.2 | 5.0 | G | 4.8 | 4.2 | 4.0 | 3.0 | 2.5 | 2.3 | 4.0 | F | 3.7 | |
| 9 | 3.0 | 4.2 | 2.1 | 2.6 | 2.1 | 2.7 | 4.3 | 4.3 | 5.7 | 5.2 | 6.7 | 6.3 | 6.3 | 5.5 | 5.0 | 7.5 | 7.0 | 5.0 | 5.2 | 3.5 | 3.2 | 2.5 | 3.0 | 2.6 | |
| 10 | 2.7 | 3.0 | 2.5 | 2.2 | 2.1 | 2.7 | 2.6 | 4.0 | 4.5 | 4.1 | 5.2 | 5.5 | 4.0 | 4.2 | 4.8 | 4.8 | 4.5 | 5.1 | 2.8 | 2.8 | 4.0 | 2.3 | 3.5 | 3.6 | |
| 11 | 1.6 | 2.6 | 2.4 | 4.5 | 2.2 | 2.2 | 3.6 | C | C | 6.4 | 5.0 | 6.7 | 7.0 | 5.0 | 5.5 | 5.5 | 7.0 | 4.7 | 4.3 | 4.6 | 5.5 | 3.0 | 3.0 | 5.0 | |
| 12 | 5.0 | 4.0 | 2.2 | 3.5 | 2.1 | 3.0 | 3.2 | 4.3 | 5.5 | 6.0 | 7.0 | 7.4 | 5.5 | 5.5 | 5.5 | 3.8 | 4.3 | 4.0 | 3.2 | 3.6 | 2.5 | 3.6 | 3.0 | 3.0 | |
| 13 | 2.2 | 5.5 | 3.0 | 2.9 | 2.1 | 2.1 | 4.0 | 5.0 | 6.0 | 7.0 | 7.4 | 5.5 | 5.5 | 5.5 | 5.4 | 5.0 | 5.0 | 4.0 | 5.3 | 4.0 | 5.2 | 5.0 | 4.3 | 3.2 | |
| 14 | 5.0 | 5.0 | 4.0 | 5.0 | 2.6 | 3.8 | 5.4 | 5.3 | 5.0 | 5.5 | 4.9 | 4.9 | 4.9 | G | 5.0 | 4.6 | 7.0 | 6.1 | 4.7 | 2.6 | 2.5 | 4.5 | 4.5 | 4.9 | |
| 15 | 2.9 | 2.2 | 2.7 | E | E | 3.0 | 4.0 | 4.9 | 7.2 | 7.0 | 5.5 | 6.7 | 6.9 | 5.0 | 6.4 | 7.5 | 6.5 | 6.5 | 6.5 | 3.2 | 4.5 | 7.2 | 6.5 | 7.5 | |
| 16 | 5.0 | 5.4 | 4.2 | 3.3 | 5.0 | 7.5 | 5.1 | 6.6 | 7.0 | 7.2 | 7.5 | 7.5 | 4.8 | 4.7 | 4.2 | G | G | 4.2 | 4.8 | 2.6 | 3.0 | 2.5 | 4.7 | 4.8 | |
| 17 | 4.3 | E | 3.0 | 3.0 | 6.2 | 4.9 | 5.5 | 5.5 | 7.0 | 5.5 | 5.7 | 5.0 | 5.0 | G | G | 5.0 | G | 4.8 | 7.5 | 5.0 | 3.9 | 5.0 | 7.0 | 2.2 | |
| 18 | 2.2 | 2.1 | 2.0 | 2.3 | E | 2.2 | G | 5.2 | G | G | 4.3 | 5.5 | 5.0 | 4.5 | 4.5 | 4.5 | 7.0 | 7.3 | 7.5 | 7.5 | 7.5 | 3.3 | 4.0 | 4.0 | |
| 19 | 5.7 | 2.9 | 2.9 | 2.0 | 2.2 | 3.2 | 2.7 | 4.0 | 4.5 | 5.5 | 5.0 | 5.0 | 5.0 | 7.0 | 6.5 | 5.0 | G | G | 2.8 | 2.1 | 2.0 | 2.6 | 2.6 | 2.6 | |
| 20 | 2.6 | 2.7 | 2.5 | 2.9 | 2.6 | 2.9 | 5.5 | 4.3 | G | 6.0 | 6.9 | 5.0 | 5.3 | G | G | 4.0 | G | 2.9 | 3.7 | 2.6 | 3.0 | 2.9 | 3.0 | 2.7 | |
| 21 | 2.7 | 4.9 | 2.2 | 5.2 | 5.5 | 2.0 | G | 5.5 | 5.0 | 5.0 | 6.3 | 10.0 | 9.4 | 10.0 | 7.0 | 5.0 | 5.5 | 4.7 | 4.0 | 4.4 | 5.0 | 4.0 | 5.0 | 3.2 | |
| 22 | 5.0 | 3.6 | 2.9 | 5.0 | 5.0 | 5.0 | 9.0 | 4.0 | 5.0 | 5.5 | 8.1 | 10.0 | 5.3 | 5.5 | 7.0 | 4.2 | 3.7 | 4.0 | 3.7 | 7.0 | 6.8 | 4.2 | 3.5 | 4.2 | |
| 23 | 4.5 | 5.5 | 3.9 | 5.9 | 5.5 | 4.0 | 4.0 | 4.0 | 6.1 | 6.8 | 7.0 | 5.0 | 6.5 | 4.5 | 4.5 | 5.0 | 6.6 | 5.0 | 5.4 | M | M | 7.0 | F | 7.0 | |
| 24 | 5.5 | 3.0 | 2.0 | E | E | G | G | 4.5 | 5.5 | 11.2 | 7.9 | 5.5 | 7.5 | 7.5 | 6.4 | 6.7 | 7.0 | 6.5 | 7.0 | 8.5 | 4.8 | 3.2 | 2.3 | 5.0 | |
| 25 | 2.5 | 2.6 | 3.5 | 2.5 | 2.5 | 2.5 | 4.0 | 7.0 | 5.5 | M | M | 7.2 | 7.0 | 6.8 | 7.5 | 4.6 | G | G | 7.3 | 4.3 | 4.5 | 4.5 | 5.0 | 5.0 | |
| 26 | 2.6 | 4.0 | 5.0 | 3.8 | 5.0 | 2.9 | 5.5 | 9.5 | 7.5 | 7.6 | 7.5 | 7.2 | 11.0 | 10.5 | 5.0 | 4.5 | 5.0 | 5.0 | 4.6 | 6.5 | 5.0 | 4.5 | 4.5 | 7.5 | |
| 27 | 6.0 | 5.5 | 7.0 | 6.5 | 4.7 | 3.5 | 4.3 | 6.5 | 5.5 | 7.1 | 5.3 | 5.2 | 7.3 | 7.2 | 5.5 | 5.0 | 7.5 | 7.5 | 6.5 | 4.9 | 4.9 | 4.5 | 2.9 | 5.0 | |
| 28 | 4.2 | 1.6 | 2.0 | 2.0 | 2.0 | 5.0 | 6.5 | 5.0 | 7.5 | 7.5 | 7.0 | 6.3 | 6.5 | 5.6 | 6.7 | 7.0 | 5.0 | 6.5 | 8.5 | 7.5 | 6.0 | 7.0 | 3.5 | 5.5 | |
| 29 | 3.2 | 3.0 | 4.5 | 3.8 | 2.8 | 3.2 | 6.5 | 7.5 | 7.0 | 7.3 | 7.0 | 7.2 | 7.0 | 10.3 | 10.0 | 7.8 | 5.0 | 6.7 | 10.3 | 9.0 | 6.7 | 9.0 | 5.2 | 6.8 | |
| 30 | 5.5 | 7.5 | 5.0 | 2.2 | 2.2 | 4.3 | 4.5 | 4.8 | 9.0 | 10.5 | 8.4 | 6.5 | 5.5 | 4.7 | 6.5 | C | 5.1 | 6.0 | 4.0 | 4.3 | 7.5 | 7.1 | 6.5 | 2.8 | |
| 31 | 6.0 | 5.5 | 4.6 | 6.6 | 4.9 | 3.0 | 4.5 | 5.5 | 5.0 | 7.0 | 7.5 | 8.7 | 7.5 | 6.5 | 6.2 | 7.5 | 6.7 | 5.0 | 7.5 | 3.0 | 3.2 | 2.5 | 2.2 | 4.4 | |
| Mean Value | 3.6 | 3.5 | 3.2 | 3.5 | 3.2 | 3.1 | 4.3 | 5.1 | 5.9 | 6.5 | 6.3 | 6.4 | 6.3 | 6.2 | 6.2 | 5.6 | 5.6 | 5.1 | 5.2 | 4.5 | 4.3 | 4.1 | 4.1 | 4.2 | |
| Median Value | 3.0 | 2.9 | 2.5 | 2.9 | 2.2 | 2.9 | 4.0 | 4.9 | 5.5 | 6.2 | 6.6 | 6.0 | 6.2 | 5.5 | 5.5 | 5.0 | 5.0 | 4.8 | 4.4 | 4.2 | 4.0 | 3.6 | 3.5 | 4.2 | |
| Count | 31 | 31 | 31 | 31 | 30 | 30 | 30 | 29 | 29 | 30 | 30 | 31 | 31 | 31 | 30 | 30 | 31 | 30 | 30 | 30 | 30 | 31 | 31 | 31 | |

fEs

Sweep 1.0... Mc to 1.72. Mc in 2... min

Manual Automatic

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

IONOSPHERIC DATA

Kokubunji Tokyo

Lat. 35° 42.4' N
Long. 139° 29.3' E

May, 1953

(M3000)F2

185° 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 | 2.9 | 2.9 | 3.0 | 3.0 | 3.0 | 3.1 | 3.1 | 3.2 | 2.9 | 2.8 | 2.9 | 2.9 | 3.0 | 3.0 ^P | (3.2) ^{sp} | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | A | F | 2.9 ^P |
| 2 | (3.0) ^P | 2.9 | 3.0 | 2.9 | 2.8 | 3.2 | (3.2) ^P | 3.2 | 3.2 | A | 3.2 | 3.0 | 3.0 | 3.0 ^P | 2.9 | 3.1 | 3.2 | 3.1 ^P | 3.0 | 3.1 ^P | 3.0 | 2.8 | 2.8 ^P | 2.9 |
| 3 | 2.9 | 3.1 | 2.9 ^P | 3.0 | 2.7 | 3.1 | 3.2 | 3.3 | 3.3 | 3.4 | 3.1 | 2.9 | 2.7 | 2.9 | 3.0 ^P | (3.0) ⁷ | 3.0 ^F | 3.1 | 3.2 | 3.0 | 2.9 ^P | 3.0 ^F | F | F |
| 4 | C | C | F | C | C | C | C | C | C | 3.1 | 3.1 | 2.9 | 3.0 ^P | 3.1 | (3.0) ⁷ | 3.0 ^F | 3.3 | 3.0 | 3.2 | 3.1 | 3.1 | 2.9 | 2.9 | 2.9 |
| 5 | 2.8 | 2.9 | 2.9 | 3.3 | 3.0 | 3.1 | 3.3 | 3.4 | 3.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.1 | 3.0 | 3.0 | 3.1 | 3.2 | 3.1 | 3.0 ^F | 2.9 ^{sp} | 3.1 | |
| 6 | 2.8 ^P | 2.7 | 2.8 | 3.1 | 3.0 | 3.0 | 3.3 | 3.2 | 3.5 | 3.1 ^P | 2.9 | 2.9 | 2.9 | (3.1) ⁷ | (3.1) ⁷ | (3.2) ⁷ | 3.2 | M | 2.9 | (2.5) ^F | 2.6 | 2.9 | F | F |
| 7 | F | F | 3.1 ^P | 2.7 ^K | (3.3) ^K | 2.9 ^K | 3.1 ^K | 2.6 ^K | (2.6) ^K | 2.6 ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | (3.1) ^K | (3.2) ^K | 3.3 ^K | 3.0 ^K | 3.0 ^K | 3.0 ^K | 3.0 ^K | B ^K |
| 8 | 2.9 ^K | 2.9 ^K | 2.8 ^K | 2.9 ^K | 3.3 ^K | 3.5 ^K | 3.4 ^K | 3.2 ^K | 3.1 ^K | A ^K | A ^K | A ^K | 2.8 ^K | 2.9 ^K | 3.3 ^K | 3.0 ^K | 3.0 ^K | 2.9 ^K | 3.1 ^K | 3.3 ^K | 2.9 ^K | 3.0 ^K | 3.0 ^K | 2.8 ^K |
| 9 | (3.0) ^K | 2.8 ^K | 2.8 ^K | 2.9 ^K | 3.2 ^K | 3.4 ^K | 3.0 ^K | 3.2 ^K | A ^K | A ^K | A ^K | A ^K | 2.7 ^K | 2.8 ^K | 3.1 ^K | 3.1 ^K | 3.1 ^K | 3.0 ^K | (3.0) ^K | 2.9 ^K | 3.0 ^K | 2.8 ^K | 2.8 ^K | 3.1 ^K |
| 10 | 2.8 ^K | 2.7 ^K | 3.0 ^K | F ^K | 3.4 ^K | 2.9 ^K | 3.2 ^K | 3.3 ^K | 3.0 ^K | 2.8 ^K | (2.8) ^K | 2.8 ^K | 3.0 ^K | 3.0 ^K | 3.1 ^K | 2.7 ^K | 3.0 ^K | 3.0 ^K | 3.1 ^K | (3.2) ^K | (3.0) ^K | 2.9 ^K | 2.8 ^K | 2.7 ^K |
| 11 | 2.9 ^K | 2.7 ^K | 2.9 ^K | 3.2 ^K | 3.2 ^K | 3.2 | 3.4 | C | C | A | 2.6 | (2.8) ^A | 2.9 | 2.9 | 3.0 | 3.2 | 3.3 | 3.1 ^P | 3.0 | 2.9 ^P | 3.0 | 3.0 | (3.0) ^F | 2.9 |
| 12 | 2.8 ^{sp} | 3.0 | 3.0 | 3.4 | 3.2 | 3.1 | 3.3 | 3.1 | 3.1 ^P | 3.2 | (3.0) ⁷ | 3.1 | 3.0 | 2.7 | 3.0 | 3.1 | 3.2 | (3.2) ^B | 3.2 | 3.0 | 2.9 ^F | 2.8 ^{sp} | 2.6 | F |
| 13 | 3.0 | F | F | 2.8 ^F | 3.3 | 3.2 | 3.5 | 3.5 | A | A | A | 3.1 | 3.2 | 3.2 | 3.0 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.0 | 2.9 ^F | F | 2.9 ^{sp} |
| 14 | (2.9) ^F | F | (3.1) ^F | F | 3.0 | 3.4 ^F | (3.4) ^F | 3.4 ^F | 3.1 ^F | 3.3 | 3.2 | 2.8 | 2.8 | 3.0 | 3.0 | 3.0 ^F | 3.2 | 3.3 | 3.5 | 3.2 | 3.0 | F | F | 4 ^F |
| 15 | AF | F | F | F | F | (3.0) ^F | 3.3 | 3.4 | A | A | A | A | 2.7 | 2.9 | 3.0 | 2.9 | B | B | 3.1 | 3.1 | 3.1 | A | A | A |
| 16 | A | A | F | 2.8 ^F | AF | A | AF | A | A | A | A | A | 3.0 | 3.1 | 3.0 ^P | 2.8 | (3.0) ⁷ | B | 3.2 | 3.1 | 2.7 | (2.6) ^A | (2.6) ^P | (2.6) ^P |
| 17 | 2.6 ^F | 2.8 | (2.8) ^P | B | A ^K | A ^K | A ^K | 2.2 ^K | (2.1) ^K | 2.0 ^K | 2.3 ^K | 2.3 ^K | 2.6 ^K | G ^K | 2.4 ^K | 2.6 ^K | B ^K | A ^K | A ^K | A ^K | 2.8 ^K | 2.8 ^K | 2.7 ^K | 2.8 ^K |
| 18 | 2.7 ^K | 2.8 ^K | 2.8 ^K | 2.7 ^K | 3.1 ^K | 3.2 ^K | 3.4 ^K | (3.1) ^K | 2.8 ^K | (2.9) ^K | (3.0) ^K | 3.0 ^K | 2.7 ^K | 2.7 ^K | 2.9 ^K | (3.0) ^K | 3.2 ^K | A ^K | A ^K | A ^K | A ^K | 2.8 ^K | 2.8 ^K | 2.9 ^K |
| 19 | 2.7 ^K | 2.8 ^K | (2.9) ^K | (2.9) ^K | (3.0) ^K | 3.2 ^K | 3.2 ^K | 3.1 ^K | G ^K | A ^K | 2.7 ^K | 2.9 ^K | (2.8) ^K | (2.8) ^K | 2.9 ^K | 2.9 ^K | 3.0 ^K | 3.3 ^K | 3.2 ^K | 3.0 ^K | 2.9 ^K | 2.6 ^K | 2.8 ^K | 2.7 ^K |
| 20 | 3.0 ^K | 3.0 ^K | 2.9 ^K | 3.1 ^K | 3.2 ^K | 3.5 ^K | A ^K | B ^K | 2.6 ^K | 2.9 ^K | (2.6) ^K | 2.3 ^K | 2.8 ^K | 2.8 ^K | 2.7 ^K | 2.7 ^K | 2.9 | 3.4 | 3.0 | 3.0 | 2.8 | 2.7 | 2.9 | |
| 21 | 2.9 | 3.0 | 2.9 | 2.8 | 3.0 ^P | 3.1 | (3.1) ⁷ | (2.8) ^A | 2.5 ^H | 2.8 | A | A | A | A | B | 3.2 ^P | 3.1 | 3.1 | 3.0 | 3.0 | 2.8 | (2.9) ^{sp} | 3.0 | 2.8 |
| 22 | (2.9) ^{sp} | 2.9 ^{sp} | 3.1 ^F | 2.7 ^{sp} | 3.1 | 3.4 | (3.1) ^A | 2.8 ^K | 3.1 | 2.8 | A | A | 3.1 | 2.9 | 3.0 | 2.9 | 3.0 | 3.0 | 3.2 | 3.2 | (3.0) ^A | 2.9 | 2.8 ^F | (2.8) ^{sp} |
| 23 | AF | AF | (3.0) ^P | (2.9) ^{MS} | 2.7 | 3.2 | 2.9 | (3.3) ^P | A | A | 2.9 | 3.0 | 3.0 | 2.9 | 3.1 | 3.0 | 3.2 | 3.3 | 3.2 | M | M | A | A | AF |
| 24 | 2.9 ^P | 2.9 ^{sp} | 2.9 ^P | 3.0 | 3.1 | 3.0 | 3.2 | 3.3 | (3.3) ^P | A | A | A | 3.0 | (3.0) ^A | 3.0 | 3.1 | 3.1 | 3.1 ^P | 3.3 | (3.3) ^A | 3.3 | 3.2 | 2.7 ^{sp} | A |
| 25 | B | B | B | B | B | 3.1 | B | A | (3.1) ^P | M | M | A | 2.8 | (3.0) ⁷ | 2.8 | 2.9 | 3.0 | 3.0 | 3.0 | (3.0) ^A | 3.0 ^P | A | A | 3.0 |
| 26 | 2.9 ^F | 2.7 ^F | (2.9) ^{sp} | 2.8 ^{sp} | (3.0) ^A | 3.2 | 3.1 | A | A | A | 2.9 | A | A | A | 2.9 | 3.0 | 3.1 | 3.0 | 3.1 | 3.0 | AF | A | F | 3.0 ^F |
| 27 | AF | A | A | F | 2.9 ^{sp} | 3.0 ^F | 3.0 | 3.3 | 3.3 | A | B | 2.8 | 2.8 | 3.1 | 3.0 | 2.9 ^P | (2.9) ⁷ | (3.1) ^P | 3.3 ^P | 3.3 | 3.0 | (2.9) ^A | 2.8 ^P | (2.6) ⁷ |
| 28 | 3.1 | (2.9) ⁷ | 3.1 ^F | (2.9) ⁷ | (3.0) ^{sp} | 2.8 | (2.8) ^A | 2.9 ^P | A | A | 2.5 | B | B | 2.6 ^P | (2.8) ⁷ | (2.9) ^A | 3.0 | A | A | 2.7 | (2.8) ^A | 2.8 | (2.8) ^{sp} | F |
| 29 | F | 2.8 | 2.7 | (2.8) ^A | (2.9) ^{sp} | 3.0 | 3.3 | (3.4) ^A | 3.4 | A | A | 2.6 | (2.8) ^A | (2.9) ^P | 2.9 | 3.0 | 2.9 | 3.0 ^P | A | A | A | A | AF | AF |
| 30 | F | AF | F | (2.8) ^{sp} | 3.2 | 3.4 | 3.3 | 3.1 ^F | (3.2) ^A | A | A | 2.8 | 2.9 | 3.0 | (3.0) ^C | (3.0) ^C | 3.0 | 2.9 | 3.0 | 3.1 | 3.2 | (3.2) ^A | 3.1 | BF |
| 31 | A | A | AF | 2.8 | (3.0) ^A | 3.2 ^F | (3.2) ^A | 3.2 | 3.5 | A | A | 2.6 | 2.7 | (2.8) ^F | (2.9) ^A | 3.0 | 3.1 | (3.1) ^B | 3.1 | (3.0) ^B | (2.8) ^P | 2.8 | FB | |
| Mean Value | 2.9 | 2.9 | 2.9 | 2.9 | 3.1 | 3.2 | 3.1 | 3.1 | 3.1 | 2.9 | 2.9 | 2.8 | 2.9 | 2.9 | 3.0 | 3.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.0 | 2.9 | 2.8 | 2.9 |
| Median Value | 2.9 | 2.9 | 2.9 | 2.9 | 3.0 | 3.2 | 3.2 | 3.2 | 3.1 | 2.9 | 2.9 | 2.8 | 2.9 | 2.9 | 3.0 | 3.0 | 3.0 | 3.1 | 3.2 | 3.0 | 3.0 | 2.8 | 2.8 | 2.9 |
| Count | 21 | 20 | 23 | 24 | 26 | 28 | 26 | 25 | 22 | 15 | 16 | 19 | 27 | 28 | 29 | 31 | 29 | 25 | 26 | 27 | 26 | 23 | 22 | 19 |

K 9

Swamp I.D. Me to J.T.Z. Me in 2 min Manual Automatic

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

IONOSPHERIC DATA

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

fminF

May. 1953

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 | 1.6 | E | 1.0 | E | E | 1.6 | 2.5 | 3.3 | 4.5 | 4.4 | 4.0 | 4.5 | 4.9 | 4.3 | 4.4 | 3.5 | 4.5 | 3.3 | 1.9 | 1.7 | 1.8 | [1.8] | 1.8 | 1.7 |
| 2 | 1.6 | 1.3 | 1.6 | E | E | 1.6 | 2.4 | 3.3 | 3.7 | 6.1 | 4.9 | 4.9 | 4.9 | 4.0 | 4.0 | 4.8 | 5.8 | 3.8 | 3.4 | 2.9 | [2.2] | 1.6 | 1.5 | 1.7 |
| 3 | 1.7 | 1.2 | 1.7 | 1.0 | 1.0 | 1.7 | 2.8 | 3.3 | 4.0 | 5.0 | 4.4 | 5.0 | 5.0 | 5.0 | [5.2] | 5.5 | 5.0 | 3.5 | 2.2 | 3.5 | 1.7 | 1.5 | 1.5 | 1.5 |
| 4 | 1.4 | 1.2 | E | E | C | C | C | C | C | 4.5 | 4.3 | 4.2 | 4.0 | 4.4 | 6.5 | 4.8 | 3.7 | 2.8 | 2.0 | 1.7 | 1.8 | 1.7 | 1.7 | 1.8 |
| 5 | 1.6 | 1.6 | E | E | E | 1.7 | 2.8 | 3.5 | 3.5 | 3.6 | 4.5 | 4.0 | 4.1 | 3.6 | 4.5 | 3.3 | 3.2 | 2.5 | 2.0 | 1.7 | 1.6 | 2.3 | 1.5 | 1.5 |
| 6 | 1.6 | 1.5 | 1.2 | 1.0 | 1.0 | 1.5 | 2.3 | 3.3 | 4.0 | 4.4 | 3.6 | 3.6 | 3.6 | 4.5 | 3.2 | 3.5 | 2.7 | M | M | 3.3 | 1.6 | 1.6 | 1.7 | 1.7 |
| 7 | 1.7 | 1.6 | 1.4 | 2.8 | 1.1 | 1.7 | 3.3 | 4.1 | [4.0] | 4.1 | A | A | A | A | A | 3.3 | 4.0 | 3.0 | 2.4 | 3.7 | 3.5 | 2.3 | 2.3 | 1.8 |
| 8 | 1.8 | 1.6 | 1.0 | 1.0 | E | 1.6 | 2.4 | 3.2 | 4.0 | A | A | A | 5.0 | 4.3 | 3.3 | 3.3 | 3.1 | 3.5 | 2.4 | 1.8 | [2.6] | 3.4 | 1.8 | 2.3 |
| 9 | 1.8 | 1.6 | 1.0 | 1.0 | 1.0 | 1.6 | 2.4 | 3.3 | A | A | A | 4.5 | 4.3 | 4.2 | 7.0 | 3.9 | 3.9 | 3.5 | [2.6] | 1.8 | 2.6 | 1.6 | 1.7 | 1.9 |
| 10 | 1.6 | [1.3] | A | E | A | 1.7 | 2.4 | 3.2 | 3.3 | 3.3 | 3.4 | 3.3 | 3.5 | 3.7 | 3.3 | 3.4 | 3.4 | 2.5 | [2.2] | 1.8 | [1.7] | 1.6 | 1.8 | 1.8 |
| 11 | 1.1 | 1.0 | 1.0 | 1.3 | 1.0 | 1.7 | 2.4 | C | C | A | 3.8 | [3.6] | 3.3 | 3.5 | 4.3 | 3.3 | 5.0 | 3.3 | 2.8 | 3.7 | 2.5 | 2.2 | 1.7 | 1.7 |
| 12 | 1.6 | 1.7 | 1.0 | [1.0] | 1.2 | 2.7 | 2.5 | 3.3 | 4.0 | 3.8 | 3.3 | 3.3 | 3.4 | 3.4 | 3.3 | 3.3 | 3.3 | 3.3 | A | 2.7 | 1.7 | 1.6 | 1.6 | 1.6 |
| 13 | 1.6 | 1.8 | 1.0 | 1.0 | 1.0 | 1.8 | 3.3 | 3.3 | A | A | A | 4.4 | 3.9 | 3.5 | 3.3 | 3.3 | 2.8 | [2.6] | 2.4 | 2.5 | [2.1] | 1.7 | 1.6 | 1.6 |
| 14 | 1.5 | 2.5 | 1.2 | 1.6 | 1.2 | A | A | 3.3 | 3.3 | 4.3 | 4.1 | 3.8 | 3.3 | 3.3 | 3.3 | 3.3 | 2.9 | 4.3 | A | A | 1.6 | 2.4 | 1.5 | AF |
| 15 | AF | 1.0 | [1.0] | 1.0 | 1.0 | 2.4 | 3.3 | 3.3 | A | A | A | A | 4.0 | 4.0 | 5.2 | 7.0 | 4.5 | 5.4 | 3.3 | 3.5 | A | A | A | A |
| 16 | 2.5 | [2.0] | 1.5 | 1.6 | AF | A | AF | A | A | A | A | A | 4.3 | 4.2 | 3.4 | 3.2 | 2.9 | 2.4 | 4.1 | 1.7 | 2.0 | 1.4 | [1.6] | 1.7 |
| 17 | 1.6 | 1.6 | 1.5 | 2.5 | A | A | A | 3.5 | [3.4] | 3.3 | 3.5 | 3.5 | 4.0 | 3.5 | 3.5 | 3.3 | B | A | A | A | 2.9 | 2.3 | 2.4 | 1.6 |
| 18 | 1.6 | 1.3 | E | 1.6 | 1.0 | 1.7 | 2.7 | [3.0] | 3.3 | 3.5 | 3.5 | 3.4 | 3.7 | 3.5 | 3.3 | 3.3 | 4.0 | A | A | A | A | 2.4 | [2.4] | 2.4 |
| 19 | 1.7 | 1.8 | 1.2 | E | 1.0 | 1.7 | 2.4 | 3.2 | 3.7 | [3.6] | 3.6 | 3.7 | 3.8 | [4.4] | 5.0 | 3.3 | 2.6 | 2.4 | 2.2 | 2.5 | 1.6 | 1.6 | 1.6 | 1.8 |
| 20 | 1.8 | 1.7 | 1.1 | 1.5 | 1.7 | 1.9 | [2.6] | 3.4 | 3.3 | 3.6 | A | A | 4.3 | 3.5 | 3.6 | 3.5 | 2.9 | 2.4 | 2.0 | 1.6 | 1.7 | 2.7 | [2.2] | 1.6 |
| 21 | 1.7 | 3.5 | 1.3 | 2.0 | 3.5 | 1.7 | 2.8 | [3.4] | 4.0 | 3.5 | A | A | A | A | 3.3 | 3.3 | 3.3 | 2.8 | 2.1 | 3.7 | 4.0 | 4.0 | 4.2 | 2.5 |
| 22 | 1.6 | 2.5 | 1.6 | 2.7 | 2.5 | 3.7 | [4.0] | 4.2 | 4.2 | 4.3 | A | A | 4.5 | 4.5 | 5.8 | 4.1 | 3.4 | [3.0] | 2.7 | 4.5 | A | A | 1.6 | 1.7 |
| 23 | [1.8] | 1.8 | 1.6 | 1.9 | 3.5 | [3.5] | 3.5 | 3.3 | 4.5 | [4.8] | 5.0 | 3.6 | 3.6 | 4.7 | 3.6 | 3.3 | 4.0 | 4.0 | 2.6 | M | M | A | A | 1.6 |
| 24 | 1.7 | 1.7 | E | 1.0 | 1.0 | 1.8 | 2.5 | 3.3 | 5.0 | A | A | A | 5.0 | [4.7] | 4.4 | 5.9 | 3.5 | 3.4 | 6.0 | A | A | 2.7 | 1.6 | [1.6] |
| 25 | 1.6 | [2.0] | 2.5 | 1.7 | [1.7] | 1.7 | 3.3 | [3.9] | 4.4 | M | M | A | 5.0 | 6.0 | 4.8 | 3.5 | 3.0 | 2.7 | [3.0] | 3.3 | 2.5 | A | A | 1.6 |
| 26 | 1.6 | 1.6 | [2.2] | 2.7 | [2.3] | 1.9 | 3.6 | A | A | A | A | 3.5 | A | A | 4.0 | 3.8 | 3.5 | 4.2 | 3.3 | 4.5 | 2.2 | [1.9] | 1.6 | 2.5 |
| 27 | 2.5 | A | A | 2.5 | 1.6 | 2.4 | [3.2] | 3.9 | 4.3 | [3.9] | 3.5 | 3.6 | 5.0 | 5.0 | 4.5 | 4.2 | 5.2 | 6.1 | 3.5 | A | A | A | 1.6 | 1.7 |
| 28 | 1.8 | 1.7 | 1.0 | 1.1 | 1.2 | 3.0 | [3.5] | 4.0 | A | A | 3.3 | 4.0 | 4.3 | 4.2 | 4.2 | 4.1 | 4.0 | A | A | 3.8 | [3.6] | 3.5 | 2.5 | 1.7 |
| 29 | [1.7] | 1.7 | 2.5 | [2.1] | 1.7 | [3.4] | 5.2 | [4.8] | 4.4 | A | A | 4.3 | A | A | 4.0 | 4.0 | 3.3 | 3.5 | A | A | A | A | 2.7 | 1.7 |
| 30 | A | A | A | 1.0 | 1.6 | 2.5 | 3.5 | [3.6] | 3.7 | A | A | 4.0 | 4.0 | 5.8 | [5.0] | 4.2 | 5.2 | 3.3 | 3.5 | 5.5 | [4.6] | 3.8 | 1.6 | 1.6 |
| 31 | A | A | A | 1.8 | [2.6] | 3.3 | 4.0 | 4.6 | 3.8 | A | A | 4.5 | 4.4 | 4.3 | 4.3 | 6.0 | 6.0 | 6.4 | 2.7 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Mean Value | 1.7 | 1.7 | 1.4 | 1.6 | 1.6 | 2.1 | 3.0 | 3.6 | 3.9 | 4.1 | 3.9 | 3.9 | 4.1 | 4.2 | 4.2 | 4.0 | 3.8 | 3.5 | 2.8 | 2.9 | 2.5 | 2.3 | 2.1 | 1.9 |
| Median Value | 1.6 | 1.6 | 1.2 | 1.1 | 1.1 | 1.7 | 2.8 | 3.3 | 4.0 | 3.9 | 3.7 | 3.7 | 4.1 | 4.2 | 4.2 | 3.5 | 3.5 | 3.4 | 2.6 | 3.1 | 2.2 | 2.2 | 1.7 | 1.7 |
| Count | 28 | 28 | 28 | 31 | 27 | 27 | 26 | 23 | 19 | 16 | 19 | 19 | 27 | 27 | 29 | 31 | 30 | 26 | 24 | 24 | 24 | 25 | 28 | 29 |

fminF

Sweep 1.0 Mc to 17.2 Mc in 2 min

Manual Automatic

K 10

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_{min}E

135° E Mean Time

May, 1953

| 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 | 1.0 | 1.6 | 1.8 | 1.8 | 1.6 | 1.7 | 1.7 | 1.8 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.5 | 1.5 | 1.6 | 1.5 | 1.7 | 1.6 |
| 2 | 1.4 | 1.6 | 1.0 | 1.0 | E | 1.0 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.4 | 1.4 | 1.3 | 1.6 | 1.7 | 1.6 | 1.6 |
| 3 | 1.4 | E | E | E | E | E | 1.6 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.8 | 1.6 | 1.5 | 1.5 | 1.4 | 1.4 | 1.5 | 1.7 | 1.0 | 1.0 |
| 4 | 1.4 | E | 1.2 | E | E | C | C | C | C | 1.5 | 1.8 | 1.8 | 1.7 | 1.8 | 1.7 | 1.7 | 1.7 | 1.6 | 1.7 | E | 1.7 | 1.7 | 1.7 | 1.6 |
| 5 | 1.7 | 1.6 | E | E | E | 1.3 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.5 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 |
| 6 | 1.5 | 1.5 | E | E | E | 1.0 | 1.5 | 1.6 | 1.6 | 1.7 | 1.7 | 1.8 | 1.7 | 1.8 | 1.7 | 1.6 | 1.7 | 1.7 | M | M | E | E | E | 1.7 |
| 7 | 1.6 | E | E | E | E | E | 1.6 | 1.7 | 1.6 | 1.8 | 1.8 | 1.7 | 1.6 | 3.3 | 3.4 | 1.7 | 1.7 | 1.7 | 1.7 | 1.9 | 1.7 | 1.5 | 1.7 | 1.7 |
| 8 | 1.6 | 1.0 | 1.0 | 1.0 | E | 1.0 | 1.7 | 1.7 | 1.8 | 1.7 | 1.7 | 1.7 | 1.8 | 1.7 | 1.7 | 1.6 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 |
| 9 | 1.6 | E | 1.0 | E | 1.0 | 1.0 | 1.6 | 1.7 | 1.7 | 1.7 | 1.6 | 1.7 | 1.7 | 1.7 | 1.8 | 1.7 | 1.7 | 1.7 | 1.4 | 1.6 | 1.5 | 1.6 | 1.6 | 1.7 |
| 10 | 1.4 | 1.0 | 1.0 | E | 1.0 | 1.0 | 1.6 | 1.4 | 1.4 | 1.7 | 1.7 | 1.9 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.5 | 1.7 | 1.6 | 1.6 | 1.6 | 1.8 |
| 11 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.6 | C | C | 1.7 | 1.7 | 1.8 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | 1.6 | 1.7 | 1.5 |
| 12 | 1.6 | 1.3 | E | 1.0 | 1.0 | 1.0 | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.4 | 1.5 | 1.6 | 1.6 | 1.6 |
| 13 | 1.6 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 1.6 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.7 | 1.7 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.6 | 1.6 |
| 14 | 1.5 | 1.3 | 1.0 | 1.0 | 1.0 | 1.1 | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 | 1.6 | 1.7 | 1.7 | 1.7 | 1.6 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | 1.5 | 1.6 |
| 15 | 1.4 | 1.0 | 1.0 | E | E | 1.0 | 1.6 | 1.6 | 1.4 | 1.5 | 1.6 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | 1.5 | 1.6 |
| 16 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.6 | 1.6 | 1.6 | 1.7 | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.4 | 1.4 | 1.6 | 1.4 | 1.6 | 1.7 |
| 17 | 1.6 | E | E | E | E | E | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.8 | 1.6 | 1.6 | 1.5 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 |
| 18 | 1.4 | 1.3 | 1.0 | E | E | E | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 |
| 19 | 1.5 | 1.0 | E | E | E | E | 1.6 | 1.5 | 1.7 | 1.6 | 1.8 | 1.8 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.6 | 1.7 | 1.6 | 1.7 | 1.6 | 1.6 | 1.5 |
| 20 | 1.4 | 1.0 | E | E | E | 1.0 | 1.8 | 1.7 | 1.7 | 1.7 | 1.8 | 1.7 | 1.7 | 1.7 | 1.8 | 1.7 | 1.6 | 1.6 | 1.4 | 1.6 | 1.7 | 1.6 | 1.6 | 1.6 |
| 21 | 1.6 | 1.3 | E | E | E | E | 1.6 | 1.6 | 1.6 | 1.7 | 1.7 | 1.6 | 1.7 | 1.7 | 1.8 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 22 | 1.3 | E | E | 1.0 | E | E | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 | 1.6 | 1.7 | 1.7 | 1.8 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.7 | 1.6 | 1.6 | 1.6 |
| 23 | 1.6 | E | E | E | E | 1.6 | 1.6 | 1.7 | 1.7 | 1.8 | 1.7 | 1.7 | 1.7 | 1.8 | 1.8 | 1.7 | 1.6 | 1.6 | 1.6 | 1.7 | 1.6 | 1.3 | 1.6 | 1.6 |
| 24 | 1.6 | 1.0 | 1.6 | E | E | 1.3 | 1.4 | 1.6 | 1.6 | 1.6 | 1.7 | 1.8 | 1.9 | 1.8 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.7 | 1.6 | 1.8 | 1.7 | 1.6 |
| 25 | 1.7 | 1.7 | 1.0 | 1.0 | 1.0 | 1.0 | 1.7 | 1.8 | 1.8 | 1.8 | M | 1.8 | 1.7 | 1.9 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | 1.8 | 1.5 | 1.6 |
| 26 | 1.4 | 1.2 | 1.0 | 1.0 | 1.0 | 1.2 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.8 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.5 | 1.5 | 1.6 | 1.6 | 1.6 |
| 27 | 1.5 | 1.2 | 1.0 | 1.0 | 1.0 | 1.3 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.6 | 1.6 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 28 | 1.6 | 1.4 | 1.0 | 1.1 | 1.0 | 1.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.5 | 1.6 | 1.5 | 1.6 | 1.5 | 1.4 | 1.6 |
| 29 | 1.6 | 1.7 | 1.0 | 1.0 | 1.0 | 1.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.8 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.5 | 1.6 | 1.5 | 1.5 | 1.6 | 1.5 |
| 30 | 1.5 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.6 | 1.7 | 1.6 | 1.7 | 1.7 | 1.8 | 1.7 | 1.8 | 1.8 | 1.7 | 1.7 | 1.6 | 1.6 | 1.7 | 1.6 | 1.5 | 1.6 | 1.7 |
| 31 | 1.5 | 1.3 | 1.0 | E | E | 1.3 | 1.5 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.8 | 1.8 | 1.7 | 1.7 | 1.8 | 1.6 | 1.7 | 1.7 | 1.7 | 1.8 | 1.7 |
| Mean Value | 1.5 | 1.2 | 1.0 | 1.0 | 1.0 | 1.1 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.8 | 1.8 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| Median Value | 1.5 | 1.0 | 1.0 | E | 1.0 | 1.0 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| Count | 31 | 31 | 31 | 31 | 30 | 30 | 30 | 29 | 29 | 30 | 30 | 31 | 31 | 31 | 31 | 31 | 31 | 30 | 30 | 30 | 31 | 31 | 31 | 31 |

Group 1.0 Mc to 17.2 Mc in 2 min Manual Automatic

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

Lat. 35° 42.4' N
Long. 139° 29.3' E

IONOSPHERIC DATA

Kokubunji Tokyo

May. 1953

135° E Mean Time

YP: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 | 70 | 80 | 80 | 70 | 100 | 90 | 100 | 80 | 60 | 50 | 70 | 90F | 100 | 110 | 100F | (50) ^{3F} | 90 | 110 | 100 | 100 | 80 | A | F | 60F | |
| 2 | (90) ^F | 80 | 90 | 100 | 100 | 110 | (110) ^F | 110 | 110 | A | A | 70 | 90 | 80F | 80 | 110 | 70 | 100 | 90F | 80 | 60 | 100 | 100F | 70 | |
| 3 | 80 | 70 | 100 ^F | 90 | 90 | 110 | 110 | 100 | 80 | A | 60 | A | 90 | 80 | 70F | (90) ^F | 70F | 90 | 80 | 70 | 70F | 80 ^F | F | F | F |
| 4 | C | C | F | C | C | C | C | C | C | U | 50 | 50 | 70F | 60 | (80) ^F | 80F | 50 | 80 | 60 | 80 | 80 | 70 | 60 | 60 | |
| 5 | 70 | 80 | 70 | 90 | 80 | 90 | 60 | 50 | 80 | 70 | U | 70 | 80 | 70 | 60 | 70 | 80 | 70 | 50 | 90 | 100 ^F | 80 ^F | 60 ^F | 80 | |
| 6 | 60 ^F | 60 | 100 | 80 | 80 | 100 | 80 | 90 | 40 | 60 ^F | 60 | 70 | 70 | (80) ^F | (90) ^F | (80) ^F | 70 | M | 80 | (100) ^F | 90 | 80 | F | F | |
| 7 | F | F | 100 ^F | A ^K | (90) ^F | 80 ^K | A ^K | A ^K | A ^K | U ^K | A ^K | A ^K | A ^K | A ^K | A ^K | 50 ^K | (40) ^F | 80 ^F | 60 ^K | 50 ^K | 50 ^K | 50 ^K | 50 ^K | B ^K | |
| 8 | 70 ^K | 70 ^K | 60 ^K | 70 ^K | 60 ^K | 80 ^K | 80 ^K | 50 ^K | A ^K | A ^K | A ^K | A ^K | A ^K | 60 ^K | 60 ^K | 80 ^K | 80 ^K | 80 ^K | 60 ^K | 70 ^K | 70 ^K | 60 ^K | 110 ^K | 90 ^K | |
| 9 | (50) ^F | 70 ^F | 60 ^F | 70 ^F | 60 ^F | 80 ^F | 70 ^F | 70 ^F | A ^K | A ^K | A ^K | A ^K | A ^K | 90 ^K | 90 ^K | [100] ^F | 100 ^K | 80 ^K | [80] ^F | 70 ^K | 70 ^K | 60 ^K | 100 ^K | 90 ^K | |
| 10 | 70 ^K | 70 ^K | 90 ^K | F ^K | 100 ^K | 60 ^K | 100 ^K | 80 ^K | U ^K | U ^K | A ^K | U ^K | 50 ^K | 70 ^K | 50 ^K | 80 ^K | 60 ^K | 100 ^K | 100 ^K | (110) ^F | [100] ^F | 90 ^K | 80 ^K | 90 ^K | |
| 11 | 90 ^K | 70 ^K | 100 ^K | 70 ^K | 100 ^K | 110 | 80 | C | C | A | U | A | U | 80 | 80 | 60 | 70 | 60 ^F | 90 | 60 ^F | 90 | 70 | [70] ^F | 70 | |
| 12 | 80 ^F | 80 | 100 | 100 | 80 | 70 | 80 | 70 | 60 ^F | 60 | (40) ^F | 50 | 70 | U | 90 | 90 | 80 | [90] ^F | 100 | 90 | 70 ^F | 80 ^F | 70 ^F | F | |
| 13 | 100 | F | F | 100 ^F | 100 | 90 | 70 | 100 | 90 ^F | A | A | 60 | 80 | 100 | 70 | 80 | 100 | 80 | 60 | 70 | 70 ^F | 80 ^F | F | 80 ^F | |
| 14 | (90) ^F | F | (60) ^F | F | 80 | 40 ^F | [60] ^F | 90 ^F | 90 ^F | 90 | U | U | 70 | 90 | 100 | 100 ^F | 80 | 80 | 80 | 80 | 120 | F | F | AF | |
| 15 | AF | F | F | F | F | (90) ^F | 100 | 100 | A | A | A | A | 90 | 70 | 80 | 70 | B | B | 80 | 100 | 70 | A | A | A | |
| 16 | A | A | F | 110 ^F | AF | A | AF | A | A | A | A | A | 60 | 70 | 50 ^F | 80 | (70) ^F | B | 80 | 70 | 60 | (60) ^F | [70] ^F | (80) ^F | |
| 17 | 70 ^F | 60 | (80) ^F | B | A ^K | A ^K | A ^K | U ^K | A ^K | U ^K | U ^K | U ^K | 40 ^K | G ^K | U ^K | U ^K | B ^K | A ^K | A ^K | A ^K | 100 ^K | 90 ^K | 100 ^K | 70 ^K | |
| 18 | 100 ^K | 100 ^K | 100 ^K | 110 ^K | 100 ^K | 130 ^K | 110 ^K | A ^K | U ^K | (40) ^F | U ^K | U ^K | U ^K | 70 ^K | 60 ^K | (90) ^F | 50 ^K | A ^K | A ^K | A ^K | A ^K | 100 ^K | 60 ^K | 70 ^K | |
| 19 | 60 ^K | 90 ^K | (80) ^F | (70) ^K | (80) ^F | 70 ^K | 120 ^K | U ^K | G ^K | A ^K | U ^K | U ^K | U ^K | A ^K | 90 ^K | 90 ^K | 80 ^K | 80 ^K | 110 ^K | 80 ^K | 70 ^K | 90 ^K | 60 ^K | 70 ^K | |
| 20 | 90 ^K | 80 ^K | 100 ^K | 110 ^K | 70 ^K | 80 ^K | A ^K | B ^K | U ^K | U ^K | A ^K | A ^K | U ^K | 60 ^K | 40 ^K | 60 ^K | 90 | 50 | 80 | 60 | 100 | 70 | 80 | 70 | |
| 21 | 60 | 100 | 100 | 90 | 80 ^F | 100 | (70) ^F | [80] ^F | 80 ^H | 130 | A | A | A | A | B | 60 ^F | 70 | 60 | 60 | 60 | 70 | (70) ^F | 60 | 60 | |
| 22 | (60) ^F | 70 ^F | 80 ^F | 70 ^F | 60 | 80 | A | A | 60 | 60 | A | A | 60 | 100 | 70 | 80 | 80 | 70 | 70 | 50 | [70] ^F | 90 | 70 ^F | (50) ^F | |
| 23 | AF | AF | (70) ^F | AS | A | 100 | 70 | (60) ^F | A | A | A | 40 | 90 | 70 | 70 | 80 | 60 | 90 | 70 | M | M | A | A | AF | |
| 24 | 100 ^F | 90 ^F | 90 ^F | 80 | 80 | 80 | 80 | B | (80) ^F | A | A | A | A | A | 60 | 60 | 60 | 80 ^F | 90 | [80] ^F | 70 | 70 | 70 ^F | A | |
| 25 | B | 80 ^F | B | B | B | 80 | B | A | (70) ^F | M | M | A | 50 | (80) ^F | 70 | 90 | 80 | 80 | 80 | 90 ^F | 90 ^F | B | A | 80 | |
| 26 | 100 ^F | 80 ^F | (70) ^F | 90 ^F | 90 ^F | 100 | 60 | A | A | A | A | U | A | 100 | 100 | 100 | 80 | 80 | 100 | 90 | AF | A | F | 90 ^F | |
| 27 | AF | A | A | F | 70 ^F | 110 ^F | 90 | 80 | 80 | A | B | U | 80 | 90 | 80 | 90 ^F | (80) ^F | (70) ^F | 70 ^F | 80 | 80 | [80] ^F | 90 ^F | (70) ^F | |
| 28 | 60 | (80) ^F | 70 ^F | (90) ^F | (80) ^F | 70 | [60] ^F | 60 ^F | A | U | U | B | B | U | (70) ^F | [80] ^F | 80 | A | A | 80 | [90] ^F | 100 | (90) ^F | F | |
| 29 | F | 90 | 90 | [80] ^F | (80) ^F | 100 | A | A | 90 | A | A | U | A | (90) ^F | 80 | 90 | 80 | 80 ^F | A | A | A | A | AF | AF | |
| 30 | F | AF | F | (100) ^F | 100 | 70 | 90 | 100 ^F | A | U | A | A | 70 | 60 | 70 | [80] ^F | 80 | 100 | 80 | 60 | 60 | [70] ^F | 80 | BF | |
| 31 | A | A | AF | 80 | [60] ^F | 50 ^F | A | A | 70 | A | A | A | 70 | 120 | (90) ^F | [100] ^F | 100 | B | B | B | B | (80) ^F | 80 | FB | |
| Mean Value | 70 | 80 | 80 | 90 | 80 | 90 | 80 | 80 | 80 | 70 | 60 | 60 | 70 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 70 |
| Median Value | 70 | 80 | 90 | 90 | 80 | 80 | 80 | 80 | 80 | 60 | 60 | 60 | 70 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 70 |
| Count | 21 | 20 | 23 | 22 | 25 | 28 | 23 | 18 | 14 | 8 | 5 | 8 | 19 | 23 | 28 | 30 | 29 | 24 | 25 | 26 | 25 | 23 | 22 | 19 | |

YP:F2

Swng. L.O. Mc to 1.7.2. Mc in 2 min Manual Automatic

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

50F2

May, 1953

| 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 | 5.8 | 5.7 | 5.8 | 5.1 | 4.2 | 4.2 | 5.1 | 6.2 | 6.3 | 6.2 | 6.7 | 8.9 | 10.3 | 11.9 | 11.5 | 9.9 | 9.2 | 10.6 | 7.9 | 7.2 | 6.5 | 5.6 | 5.7 | 5.7 |
| 2 | 5.5 | 5.4 | 5.1 | 4.9 | 4.2 | 3.7 | 5.3 | 5.7 | 6.3 | 6.5 | 6.7 | 7.6 | 7.3 | 8.2 | (4.9) | 10.6 | 10.2 | (8.1) | 7.7 | 8.1 | 5.9 | 5.8 | 6.3 | 4.8 |
| 3 | A | 5.4 | (4.7) | (4.5) | (4.3) | (4.8) | 5.2 | (8.3) | 6.8 | 6.0 | 5.8 | 5.6 | 6.7 | 8.7 | 10.0 | 11.3 | 11.9 | 11.4 | 9.2 | 7.1 | 6.2 | 5.8 | 5.8 | 5.9 |
| 4 | 6.5 | F | F | F | 4.5 | (4.6) | 5.0 | 5.2 | 6.2 | 6.4 | 5.8 | 6.6 | 8.8 | 9.2 | 10.5 | 10.3 | 9.9 | 7.9 | 7.7 | 7.8 | 6.8 | 5.8 | (5.7) | S |
| 5 | FH | 5.3 | 5.4 | 4.3 | 3.5 | 3.4 | 6.1 | 5.8 | 5.3 | 6.0 | 6.3 | 7.0 | S | S | 10.2 | 9.6 | 9.6 | 9.6 | 9.5 | 7.6 | 6.4 | 6.4 | 5.9 | 5.1 |
| 6 | 5.0 | 4.7 | 5.5 | 4.0 | 3.4 | 3.3 | 4.5 | 5.3 | 5.2 | 5.8 | (6.0) | 6.3 | 7.4 | 9.0 | 7.6 | 8.4 | 6.8 | 6.2 | 6.0 | 5.7 | 4.4 | 5.8 | S | 6.8 |
| 7 | 6.9 | 4.8 | 4.7 | 4.0 | 3.0 | 3.3 | 5.8 | 6.0 | A | A | A | A | 6.6 | (6.5) | 6.4 | 7.6 | 7.7 | 6.2 | 6.4 | 6.1 | 5.6 | 4.8 | A | FH |
| 8 | A | A | 4.0 | 3.5 | 3.7 | 2.8 | 4.3 | 5.5 | (5.4) | 5.2 | 5.6 | 6.0 | 6.8 | 7.9 | 8.2 | 7.5 | 8.4 | 7.7 | 7.5 | (8.1) | 8.1 | 3.8 | 3.9 | 3.6 |
| 9 | 3.7 | 3.6 | 3.8 | 3.0 | 3.3 | 3.5 | 5.5 | S | 5.0 | A | A | A | 7.0 | (8.3) | 8.3 | 8.6 | 8.9 | 7.9 | 7.2 | 6.9 | 6.5 | 5.5 | 5.0 | 4.7 |
| 10 | 4.2 | 3.7 | 3.5 | 3.3 | 3.2 | 3.0 | 4.3 | 4.5 | 4.6 | 4.6 | 4.9 | 5.2 | 6.3 | 8.1 | 7.4 | (8.3) | 11.0 | 11.5 | (9.6) | 7.8 | 4.4 | 3.4 | 3.7 | 3.7 |
| 11 | 4.1 | 3.8 | 3.5 | 3.6 | 2.9 | 2.9 | 4.6 | C | C | C | C | C | C | C | C | C | C | C | C | F | A | A | 6.2 | 5.8 |
| 12 | 4.8 | 4.9 | FH | F | 3.4 | (4.2) | 5.0 | 5.9 | 5.4 | 5.8 | 5.6 | 5.9 | 6.4 | 6.6 | 7.2 | 7.1 | 6.2 | 5.7 | 5.3 | 5.4 | (5.5) | 5.6 | 4.9 | 4.5 |
| 13 | 5.0 | 4.1 | 3.9 | 3.7 | 3.3 | 3.1 | 4.7 | 5.0 | 5.9 | 5.2 | 5.8 | 6.5 | 6.8 | 7.4 | 7.1 | 7.4 | (8.7) | 8.5 | 7.2 | 6.1 | 5.2 | 4.8 | 4.2 | F5 |
| 14 | 3.7 | 3.6 | (3.7) | (3.6) | F | 2.8 | 4.7 | A | A | A | A | C | 6.1 | 8.2 | (8.6) | 9.0 | (9.4) | A | A | A | A | A | 4.1 | 3.6 |
| 15 | 3.4 | 3.7 | 3.2 | 3.2 | 2.9 | 3.1 | 4.9 | 6.1 | A | B | 7.6 | (8.0) | 8.4 | 9.2 | (10.6) | 12.0 | 12.5 | 12.2 | (9.5) | 6.8 | 5.3 | (5.2) | 5.0 | A |
| 16 | F | A | A | A | 3.9 | S | A | A | A | A | A | 7.9 | (8.4) | 8.8 | 9.8 | S | 11.0 | 11.6 | 7.5 | 5.2 | S | 5.3 | 5.4 | 5.3 |
| 17 | 4.9 | 5.2 | 5.3 | 3.9 | 2.1 | 2.1 | 3.9 | 4.2 | A | A | A | A | 5.9 | 4.7 | 5.8 | 6.4 | 6.7 | 6.6 | 5.1 | 4.9 | A | A | 3.4 | 3.5 |
| 18 | 3.4 | 3.3 | 3.2 | 2.9 | 2.8 | 2.7 | 3.7 | 4.4 | 5.0 | 5.4 | A | A | 5.9 | 6.9 | 8.4 | 8.8 | 8.8 | 8.0 | 8.0 | 6.7 | 5.9 | (5.4) | 4.8 | 4.6 |
| 19 | 4.5 | 4.4 | 4.5 | 3.5 | 3.1 | 3.2 | 3.9 | 5.6 | 4.9 | 4.7 | 4.8 | B | 4.9 | 5.4 | 6.9 | 8.4 | 8.5 | 7.1 | 4.8 | 4.8 | 5.3 | 4.9 | 5.1 | 4.9 |
| 20 | 4.8 | 4.1 | 4.4 | 3.7 | (3.4) | (3.4) | 4.2 | 4.8 | 5.1 | 5.7 | 5.4 | 5.4 | 6.1 | 6.6 | 6.1 | C | C | C | C | 5.6 | 6.1 | 5.0 | 4.9 | 5.0 |
| 21 | 5.0 | 5.1 | 5.4 | 5.0 | 3.9 | 2.8 | 3.9 | 4.9 | 4.8 | 5.8 | 5.8 | 7.8 | A | 6.6 | 10.1 | 9.4 | 7.5 | 6.7 | 6.3 | A | B | 6.5 | A | F5 |
| 22 | 6.0 | 6.1 | 5.5 | 3.9 | 3.8 | 3.4 | 4.4 | 5.0 | A | A | 5.8 | 6.5 | 6.7 | 7.3 | 8.3 | A | A | A | A | S | 6.9 | 5.9 | 5.0 | 4.4 |
| 23 | 4.3 | (5.1) | 5.0 | 3.7 | 2.5 | 3.2 | 4.8 | 6.2 | 5.3 | 5.2 | 6.1 | 6.0 | 5.6 | 7.1 | 9.5 | 8.7 | 7.9 | A | A | 6.2 | 6.0 | A | A | 5.5 |
| 24 | 5.1 | FS | 5.4 | 4.3 | 4.0 | 3.9 | 5.9 | 6.0 | 4.7 | (5.1) | 5.5 | 6.0 | (7.1) | 8.2 | (8.8) | (9.4) | 9.6 | (9.5) | 9.4 | A | A | 6.3 | F5 | F |
| 25 | F | F | 4.3 | 3.5 | 3.3 | 3.2 | 6.5 | 6.6 | 5.2 | 4.9 | (5.3) | 5.7 | 7.5 | (8.2) | 8.9 | C | A | A | 7.5 | 6.4 | 6.4 | 6.0 | 4.3 | 4.2 |
| 26 | 5.1 | 5.0 | 4.9 | (5.7) | 5.0 | 5.0 | 6.5 | 6.4 | (5.8) | 5.3 | (5.4) | 5.4 | 6.2 | 6.8 | 7.0 | 8.9 | 8.1 | 7.9 | 7.2 | 6.2 | 6.0 | (5.9) | (5.6) | 5.3 |
| 27 | 4.9 | 4.7 | 4.2 | 3.9 | 3.7 | 3.7 | 6.2 | 6.8 | 6.3 | A | A | C | A | 6.2 | 7.9 | 8.2 | 9.2 | S | B | 7.5 | 5.8 | 4.9 | FH | F |
| 28 | 6.4 | 5.0 | 4.4 | 3.4 | 4.1 | 4.2 | 4.8 | A | A | A | 5.8 | F | A | (7.3) | (7.2) | 7.0 | A | A | A | 6.9 | 6.7 | 7.2 | 6.2 | (6.2) |
| 29 | 6.1 | 5.4 | (5.4) | (5.4) | 5.2 | 5.6 | 5.9 | 6.2 | 5.2 | A | A | A | A | 8.0 | 8.5 | 8.8 | 9.3 | 9.4 | 8.2 | 7.4 | 7.0 | 7.4 | 6.4 | (6.3) |
| 30 | (6.2) | 5.5 | 6.4 | F | S | 3.6 | 4.3 | (4.9) | 5.5 | A | A | A | A | A | 7.0 | A | 7.1 | A | A | 7.8 | 7.0 | (6.1) | 5.1 | (4.5) |
| 31 | 3.9 | 4.1 | 3.9 | 3.1 | 3.4 | 4.0 | 5.3 | (5.8) | 6.2 | A | A | 5.2 | 6.5 | 8.1 | (9.9) | 11.3 | 11.0 | 10.7 | 8.2 | (7.2) | 6.3 | 6.3 | (5.8) | 5.3 |
| Mean | 5.0 | 4.7 | 4.6 | 4.0 | 3.5 | 3.5 | 4.9 | 5.7 | 5.5 | 5.5 | 5.8 | 6.5 | 6.9 | 7.7 | 8.5 | 8.9 | 9.0 | 8.6 | 7.5 | 6.7 | 6.1 | 5.6 | 5.1 | 5.0 |
| Median | 5.0 | 4.8 | 4.6 | 3.9 | 3.4 | 3.4 | 4.8 | 5.8 | 5.3 | 5.6 | 5.8 | 6.2 | 6.7 | 8.0 | 8.4 | 8.8 | 9.0 | 8.0 | 7.5 | 6.8 | 6.0 | 5.6 | 5.1 | 5.0 |
| Count | 26 | 26 | 28 | 27 | 28 | 30 | 30 | 26 | 23 | 18 | 20 | 20 | 24 | 27 | 28 | 26 | 26 | 22 | 24 | 27 | 25 | 26 | 25 | 24 |

Y I

Manual Automatic

Sweep - J. - Me to 17.5. Me in 1/5 min

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

IONOSPHERIC DATA

Lat. 31° 12.6' N
Long. 130° 37.7' E

Yamagawa

May, 1953

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 | 330 | 280 | 270 | 230 | 260 | 240 | 200 | 210 | 230 | 270 | 310 | 300 | 320 | 220 | 250 | 250 | 260 ^F | [250]T | 240 ^F | 260 | 270 | 290 | 320 | 300 | |
| 2 | 310E | 300 | 260 | 230 | 270 ^H | 240 | 230 | 220 | 240 | 230 | 250 | 250 | 260 | 280 | [240]F | 250 ^F | 250 ^F | [230]S | 210 | 240 | 270 | 320 | A | A | |
| 3 | A | 260 | [270]F | [300]A | [340]F | [290]C | 240 | [200]F | 200 | 230 | 260 | A | 320 | 300 | 280 | 270 | 260 | 230 | 240 ^F | 240 | 250 ^F | 270 | 310 | 330 | |
| 4 | [330]F | F | F | F | [240]F | [250]F | 220 ^F | 200 | 240 | 240 | 300 | 340 | 310 | 270 | 280 | 260 | [260]T | 250 | 250 | 230 | 230 | 250 | [320]S | S | |
| 5 | FH | 280 | 260 | 210 | 290 | 280 | 210 | 210 | 230 | 250 | 250 | 300 | S | S | S | 270 ^F | 260 | 270 | 220 | 230 | 280 | 280 | 260 | 290 | |
| 6 | 330 | 290 | 260 | 200 | 270 | 300 | 230 | 200 | 220 | 280 | [280]A | 290 | 340 | 290 ^F | 290 ^F | 220 | 230 | 260 | 240 | 250 | 290 ^F | 310 | S | 280 ^F | |
| 7 | 240 | 290 | 270 | 230 | 250 | 260 | 230 | A | A | A | A | A | A | A | 320 | 280 | 250 | 270 | 250 | [240]A | 250 | 330 | A | FH | |
| 8 | A | A | 280 | 290 | 250 | 260 | 230 | A | A | A | A | 260 | 280 | 270 | 280 | 280 | 270 | 250 | 250 | [260]F | 250 | 310 | A | FH | |
| 9 | 310 ^F | 330 ^F | 360 | 310 ^F | 290 | 270 ^F | 240 | [240]S | 230 | A | A | A | 300 ^F | [290]F | 250 | 270 | 270 | 260 | 250 | 260 | 290 | 280 | 280 | 300 | |
| 10 | 310 | 290 | 300 | 280 | 220 ^F | 250 ^K | 210 ^K | [320]S | 250 ^K | U ^K | U ^K | U ^K | 310 ^K | 270 ^K | 310 ^K | [300]P | 260 ^K | 240 ^K | [220]S | 200 ^K | 230 ^K | 300 ^K | 370 ^K | 310 ^K | |
| 11 | 290 ^K | 330 ^K | 300 ^K | 240 ^K | 210 ^K | 300 ^K | 210 ^K | C | C | C | C | C | C | C | C | C | C | C | C | C | F | A | A | 260 | |
| 12 | 290 | 300 | FH | F | 270 ^F | [260]F | [240]F | 200 ^F | 220 | 270 | A | 400 | C | C | C | C | C | 270 | 280 | 260 ^H | [300]S | 350 ^F | 260 | 260 ^H | |
| 13 | [310]E | [300]F | [280]F | 270 ^F | 260 ^F | 240 | 250 | 250 | [240]A | 320 | [300]B | 290 | 290 | A | 330 | 330 | [270]S | 270 | 250 | [280]A | 310 | 290 | F | F | |
| 14 | 300 ^F | [300]F | [280]F | [280]F | F | 360 | 260 | A | A | A | A | C | 400 | 330 | [300]C | 270 | [260]F | A | A | A | A | A | 320 | 320 | |
| 15 | 310 ^S | 350 | 320 | 300 | 280 | 300 | 230 | 260 | A | B | 240 | A | A | A | B | 280 | 280 | 250 | [260]S | 260 | 270 ^H | [330]S | 390 ^F | A | |
| 16 | F | A | A | A | 230 ^F | S | A | A | A | A | A | 290 | A | A | 300 | S | 300 | 250 | 240 | 260 | S | [350]S | [370]S | [390]S | |
| 17 | 380 | [320]S | 290 | 240 | 340 ^F | 360 ^K | 350 ^K | U ^K | A ^K | A ^K | A ^K | A ^K | 430 ^K | U ^K | 400 ^K | 350 ^K | 260 ^K | 310 ^K | 320 ^K | A ^K | A ^K | A ^K | 350 ^K | 350 ^K | |
| 18 | 360 | [360]A | 350 ^K | 320 ^K | 300 ^F | 250 ^K | 250 ^K | 290 ^K | 300 ^K | A ^K | A ^K | A ^K | 350 ^K | 310 ^K | 310 ^K | 290 ^K | 270 ^F | 280 ^F | 270 ^F | A ^K | A ^K | A ^K | 350 ^K | 320 ^K | |
| 19 | 300 ^H | 320 ^K | 300 ^K | 290 ^K | 260 ^K | 290 ^K | 240 ^K | 220 ^K | 200 ^K | U ^K | U ^K | B ^K | U ^K | U ^K | A | A | 260 | 250 | 260 | 260 ^F | [370]S | 340 ^H | 400 | 340 ^H | |
| 20 | 340 | 290 ^H | 290 | 240 ^H | 240 ^H | [240]C | 240 | 240 | 300 | 270 | U | A | 350 | 340 | 310 | C | C | C | C | 270 | 290 | 300 | 340 ^H | 340 | |
| 21 | 370 | 310 ^H | 280 ^H | 260 ^H | 240 | 220 | 240 | 250 | [280]A | 310 | U | A | A | A | 290 | 270 | 260 | [260]T | 260 ^F | A | B | 330 ^S | A | F | |
| 22 | [310]E | [290]F | 230 | 280 ^S | [340]S | 300 | 250 | A | A | A | 330 | [310]T | U | 320 | 310 | A | A | A | S | 240 ^F | 300 ^H | 320 | 360 ^H | [350]A | |
| 23 | 340 | [330]F | [240]S | [220]S | 280 | N | 240 | 250 ^F | U | A | 320 | 280 | U | 360 | 280 | 280 | 300 | [270]C | 240 | A | A | F | F | F | |
| 24 | [300]E | F | [300]F | 270 ^F | 300 ^F | 220 ^F | 220 ^F | 220 | A | A | U | 340 | [320]C | 310 | [300]C | [290]T | 300 | [270]C | 240 | A | A | F | F | F | |
| 25 | F | F | [260]F | 290 ^F | 300 ^F | 260 ^F | 260 ^F | 220 | 220 | A | A | A | 320 | [320]A | 330 | C | C | A | A | 250 | 240 | 260 | [280]F | 310 | 330 ^F |
| 26 | [340]E | 310 ^F | 290 | [230]H | SF | 280 ^F | [230]F | A | A | 260 | A | U | U | 330 | 340 | 290 | (290 ^S) | (260)T | 240 | 270 | 290 | (350)S | [320]A | 290 ^F | |
| 27 | 290 | 290 | 280 | 280 | 300 | 310 | 250 | 250 | 220 | A | A | C | U | 330 | 360 | 360 | 340 ^F | S | B | (220)T | 290 | 320 ^F | FH | F | |
| 28 | [260]F | 250 | [290]S | 310 | 280 ^F | 280 ^F | 240 ^F | A | A | A | 350 ^F | A | A | [350]T | [330]A | 310 | A | A | A | 310 | 270 ^F | 300 ^F | 300 | [330]A | |
| 29 | A | [380]E | 5H | [340]F | [310]F | 270 | 240 | 240 | 240 | A | A | A | A | 340 | 290 | 310 | 300 | 290 | 280 | 290 | 250 | 320 | (310)F | [340]S | |
| 30 | [370]H | 350 | 380 ^H | F | S | 300 | 240 | A | A | A | A | A | A | A | A | 290 ^F | 320 | A | A | (250)H | 250 | (260)F | 300 | [260]A | |
| 31 | 230 | [340]E | 280 | 290 | 270 ^F | 260 ^F | [240]A | 230 | A | A | U | U | (350)T | 340 | (310)S | 270 | 260 ^F | 260 | 280 | [280]A | 290 | 240 | [320]S | 350 ^S | |
| Mean Value | 310 | 310 | 290 | 270 | 280 | 240 | 230 | 240 | 260 | 290 | 310 | 330 | 310 | 300 | 300 | 290 | 270 | 260 | 250 | 250 | 270 | 310 | 320 | 320 | 320 |
| Median Value | 310 | 300 | 280 | 280 | 270 | 280 | 240 | 240 | 230 | 270 | 300 | 300 | 320 | 310 | 300 | 280 | 260 | 260 | 250 | 260 | 280 | 310 | 320 | 320 | 320 |
| Count | 25 | 26 | 27 | 27 | 28 | 29 | 30 | 22 | 18 | 13 | 11 | 12 | 16 | 19 | 25 | 24 | 25 | 22 | 24 | 24 | 24 | 23 | 24 | 22 | 22 |

Manual Automatic

Sweep 1.0 Me to 17.5 Me in 1.5 min

f_oF₂

Y 2

IONOSPHERIC DATA

Lat. 31° 12.6' N
Long. 130° 37.7' E

Yamagawa

May, 1953

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 | 270 | 230 | 220 | 200 | 200 | 200 | 190 | 210 | 200 | 200 | 300 | 300 | 320 | 220 | 230 | 230 | 250 | 250 | 210 ^H | 220 | 230 | 240 | 250 | 270 |
| 2 | 270 | 230 | 200 | 220 | 210 | 200 | 200 | 200 | 240 | 230 | 250 | 250 | 250 | 280 | 250 | 250 | 230 | 220 | 200 | 210 | 200 | 230 | 230 | 260 |
| 3 | 240 | 250 | 220 | 240 | 260 | 230 ^F | 200 | 200 | 200 | 230 | 260 ^A | 280 ^A | 320 | 280 | 280 | 250 | 240 | 220 | 210 | 200 | 220 | 230 | 230 | 260 |
| 4 | 250 | 250 ^F | 230 ^F | 200 | 200 | 210 | 200 | 200 | 230 | 230 | 300 | 340 | 290 | 260 | 250 | 250 | 250 | 250 | 250 | 200 | 200 | 210 | 230 ^H | 230 |
| 5 | 230 ^H | 230 | 210 | 180 | 200 | 240 | 200 | 210 | 230 | 250 | 250 | 300 | 300 | 260 | 270 | 270 | 240 | 250 | 200 | 210 | 220 | 220 | 220 | 210 |
| 6 | 250 | 250 | 230 | 190 | 230 | 240 | 210 | 200 | 220 | 280 | 280 | 290 | 340 | 280 | 270 | 220 | 220 | 250 | 220 | 220 | 250 | 290 ^H | 270 | 250 |
| 7 | 200 | 210 | 210 | 210 | 230 | 230 | 240 | 220 | A | A | A | A | 340 ^A | 320 ^A | 310 | 270 | 240 | 270 | 240 | 240 | 250 | 330 | 320 ^A | 300 ^H |
| 8 | A | A | 220 | 250 | 220 | 200 | 210 | 230 | 260 ^A | 300 ^A | 260 | 280 | 280 | 270 | 270 | 260 | 240 | 240 | 240 | 230 | 200 | B | 280 | 270 |
| 9 | 280 ^A | 290 ^A | 310 ^F | 320 ^A | 270 | 250 | 220 | 210 | 240 | A | A | A | 300 | 280 | 250 | 250 | 250 | 250 | 240 | 230 | 230 | 230 | 230 | 250 |
| 10 | 260 | 250 | 270 | 220 | 200 | 210 | 220 | 220 | 250 | 350 ^N | 290 | 390 | 310 ^K | 270 | 280 | 270 | 250 | 220 | 200 | 200 | 200 | 270 | 310 | 280 |
| 11 | 280 ^A | 260 | 240 ^K | 200 | 200 | 230 ^K | 190 ^K | C | C | C | C | C | C | C | C | C | C | C | C | 220 ^A | A | A | 250 | 220 |
| 12 | 240 | 250 | 220 ^F | 220 | 240 | 230 ^F | 220 | 200 | 220 | 270 | 330 ^A | 400 | C | C | C | C | C | 270 | 240 | 230 ^H | 250 | 280 | 240 | 230 |
| 13 | 300 ^F | 270 ^H | 230 ^F | 230 | 220 | 240 | 240 | 250 | 230 | 270 | 310 | 300 | 280 | A | 320 ^A | 330 | 270 | 250 | 250 | 220 | 240 | 270 | 250 | 230 |
| 14 | 250 | 260 ^F | 250 | 250 ^F | 240 ^F | 250 | 260 | A | A | A | C | C | 400 | 330 | 300 ^K | 270 | 250 | A | A | A | A | A | 300 | 270 |
| 15 | 270 | 320 | 310 | 290 | 250 | 270 | 220 | 250 | A | A | A | A | A | A | 290 ^A | 250 | 260 | 240 | 220 | 260 | 240 | 250 | 340 | 300 |
| 16 | 250 ^F | A | A | A | 210 | 250 | A | A | A | A | A | 280 ^A | A | A | 290 ^A | 250 | 260 | 240 | 220 | 260 | 240 | 250 | 340 | 300 |
| 17 | 340 ^A | 270 | 240 | 200 | 340 ^K | 340 | 430 | 430 | A | A | A | A | 430 ^K | 480 | 390 | 320 | 280 | 240 | 220 | 250 | 270 | 310 | 310 | 350 ^K |
| 18 | 350 ^A | 320 ^K | 300 ^K | 280 ^K | 250 | 240 | 250 | 230 | 290 | 300 | A | A | 350 | 310 | 290 | 290 | 260 | 260 | 260 | 250 | 240 | A | A | 300 |
| 19 | 260 ^H | 270 ^K | 270 ^K | 280 | 240 | 250 | 220 | 210 | 220 | 200 | 400 | 400 | 450 | 390 | 350 ^A | 300 ^A | 260 | 260 | 260 | 250 | 240 | A | A | 340 |
| 20 | 270 | 230 ^H | 230 | 200 | 210 | 210 | 210 | 230 | 300 | 270 | 380 | 380 | 350 | 340 | 300 | 300 | C | C | C | 250 | 230 | 230 | 270 | 300 |
| 21 | 300 | 260 ^H | 210 ^H | 210 ^H | 210 | 200 | 230 | 240 | 380 | 310 | 340 | 350 | 300 | 290 | 280 | 260 | 230 | 250 | 240 | A | A | 320 ^A | 300 ^A | 280 |
| 22 | 250 ^H | 250 | 200 | 200 | 250 | 250 | 230 | 270 | A | A | 330 | 310 | 320 | 330 | 300 | A | A | A | A | 250 | 220 | 250 | 310 ^H | 290 ^A |
| 23 | 270 | 250 | 230 | 190 | 250 | 250 | 240 | 240 | 280 | 370 ^A | 320 | 280 | 440 | 350 | 270 | 250 | 250 | A | A | A | 230 | A | A | 260 |
| 24 | 260 | 300 | 270 ^F | 250 ^F | 270 | 250 | 230 | 220 | 260 | 320 ^A | 370 | 340 | 320 | 300 | 320 | 270 | 270 | 270 | 260 ^H | 240 | A | A | 250 | 280 |
| 25 | 300 ^A | 250 ^F | 250 ^H | 250 | 250 | 260 | 220 | 220 | 210 | A | A | A | 310 | 300 | 300 | C | C | A | 240 | 220 | 220 | 260 | 280 | 320 |
| 26 | 320 ^F | 250 | 250 | 220 ^A | A | 270 ^A | 230 | A | A | 250 | 300 ^A | 360 | 320 | 320 | 290 | 270 | 270 | 250 | 230 | 250 | 270 | 240 | 240 | 320 |
| 27 | 260 ^A | 240 | 230 | 260 | 280 | 250 | 240 | 240 | 220 | A | C | C | A | A | 310 | 340 | 310 | 300 | 250 | 200 | 240 | 270 | 300 ^H | 330 |
| 28 | 240 | 240 | 240 | 310 | 250 | 250 | 230 | A | A | A | 350 | A | A | 340 | 320 | 300 | A | A | 280 | 260 | 280 | 260 | 250 | A |
| 29 | A | 350 ^A | 260 ^H | 310 | 290 | 220 | 240 | 230 | 240 | A | A | A | A | 340 | 280 | 280 | 290 | 270 | 260 | 250 | 200 | 260 | 250 | 300 |
| 30 | 310 ^A | 330 | 320 ^H | 240 | 200 ^A | 200 | 240 | A | A | A | A | A | A | A | A | A | 300 | A | A | 230 ^H | 240 | 250 | 300 | 250 |
| 31 | 200 | 300 | 290 | 280 | 240 | 250 | 240 | 230 | 220 | A | A | 340 | 350 ^A | 320 | 290 | 260 | 240 | 240 | 250 | 240 | 230 | 230 | 270 | 310 |
| Mean Value | 270 | 270 | 250 | 240 | 240 | 240 | 230 | 230 | 240 | 270 | 310 | 320 | 330 | 310 | 290 | 280 | 260 | 250 | 240 | 230 | 230 | 260 | 280 | 280 |
| Median Value | 260 | 250 | 230 | 220 | 240 | 240 | 220 | 220 | 230 | 270 | 310 | 300 | 320 | 300 | 290 | 270 | 250 | 250 | 240 | 230 | 230 | 260 | 270 | 280 |
| Count | 29 | 29 | 30 | 30 | 30 | 31 | 30 | 25 | 21 | 17 | 19 | 18 | 23 | 24 | 28 | 26 | 25 | 23 | 26 | 25 | 25 | 25 | 29 | 29 |

Y 3

Sweep Manual Automatic

Group Me to 7.5 Mc in 1.5 min

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

IONOSPHERIC DATA

Lat. 31° 12.5' N
Long. 130° 37.7' E

Yamagawa

foF1

May, 1953

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|----|----|----|----|----|-----|--------------------|--------------------|--------------------|-----|-----|--------------------|--------------------|--------------------|--------------------|-----|--------------------|--------------------|-----|-----|----|----|----|----|--|
| 1 | | | | | | Q | Q | Q | Q | Q | 4.7 | N | 4.6 | A | A | A | T | Z | Z | | | | | | |
| 2 | | | | | | Q | Q | Q | L | 4.6 | A | A | 4.6 | 4.8 ^H | 4.5 | 4.6 | A | Q | Q | | | | | | |
| 3 | | | | | | Q | A | A | Q | A | A | A | A | A | A | 4.4 | 4.3 | 3.8 | 3.2 | | | | | | |
| 4 | | | | | | Q | Q | A | Q | L | L | 4.7 | L | 4.5 | 4.4 | 4.4 | 4.2 | 4.0 | 3.6 | | | | | | |
| 5 | | | | | | Q | 3.7 | [3.6] ^A | 4.1 | 4.6 | 4.6 | 4.6 | [4.5] ^A | 4.4 | [4.4] ^A | 4.5 | L | 3.5 | A | | | | | | |
| 6 | | | | | | Q | Q | Q | Q | A | A | 4.8 | 4.6 ⁵ | 4.4 | 4.4 | 4.2 | 4.2 | 3.9 | L | | | | | | |
| 7 | | | | | | Q | Q | A | A | A | A | A | A | A | 4.3 | 4.2 | A | 4.1 | L | | | | | | |
| 8 | | | | | | Q | A | A | A | A | A | 4.2 | [4.2] ^A | 4.3 | [4.3] ^A | 4.2 | 4.0 | [3.7] ^A | 3.4 | | | | | | |
| 9 | | | | | | Q | Q | A | A | A | A | A | 4.3 | 4.4 | 4.3 | 4.2 | 4.1 | 3.9 | 3.4 | | | | | | |
| 10 | | | | | | Q | 3.2 | 3.7 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.4 ^A | 4.4 | 4.2 | Q | 3.7 | Q | | | | | | |
| 11 | | | | | | Q | C | C | C | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 12 | | | | | | Q | A | 3.8 | 4.1 | A | A | 4.5 | [4.4] ^A | 4.3 | A | A | A | 3.7 ^J | B | | | | | | |
| 13 | | | | | | Q | Q | Q | Q | A | A | 4.8 | A | A | A | A | 3.9 | 3.6 | 3.2 | | | | | | |
| 14 | | | | | | Q | A | A | A | A | A | C | 4.3 | A | A | A | A | A | A | | | | | | |
| 15 | | | | | | Q | Q | A | A | A | A | A | A | A | A | A | A | A | A | | | | | | |
| 16 | | | | | | A | A | A | A | A | A | A | A | A | A | A | 4.2 | 4.1 | 3.6 | 3.0 | | | | | |
| 17 | | | | | | 2.8 | 3.2 | A | A | A | A | 4.1 | 4.0 | 4.0 | 3.9 | 3.9 | A | Q | A | | | | | | |
| 18 | | | | | | Q | Q | A | 4.1 | A | A | 4.2 | 4.2 | 4.2 | A | A | A | A | A | | | | | | |
| 19 | | | | | | Q | Q | Q | Q | Q | 4.2 | 4.2 ^F | 4.4 | (4.3) ^A | A | A | A | 3.8 | A | | | | | | |
| 20 | | | | | | Q | Q | Q | 4.2 | 4.3 | 4.4 | 4.6 ^A | 4.4 | 4.4 | 4.4 ^A | C | C | C | C | | | | | | |
| 21 | | | | | | 2.8 | Q | A | A | A | 4.4 | [4.4] ^A | 4.4 | A | B | 4.2 | A | 3.5 | 3.0 | | | | | | |
| 22 | | | | | | Q | (3.7) ^F | A | A | A | A | 4.5 | 4.5 | 4.5 | A | A | A | A | A | | | | | | |
| 23 | | | | | | Q | Q | 4.4 | [4.2] ^A | 4.1 | 4.4 | 4.5 | 4.4 | 4.4 | 4.4 | 4.3 | 4.2 | A | A | | | | | | |
| 24 | | | | | | Q | L | A | A | A | 4.4 | C | A | A | A | A | A | A | A | | | | | | |
| 25 | | | | | | Q | L | Q | A | A | A | A | A | A | A | C | A | A | A | | | | | | |
| 26 | | | | | | Q | A | A | A | A | 4.5 | 4.4 | 4.4 | (4.4) ^B | 4.5 | 4.3 | [4.2] ^A | 4.0 | 3.6 | | | | | | |
| 27 | | | | | | Q | L | Q | A | A | A | C | A | A | A | A | 4.2 | 4.1 | 3.4 | | | | | | |
| 28 | | | | | | Q | A | A | A | A | 4.5 | A | A | 4.4 ^F | A | A | A | A | 3.5 | | | | | | |
| 29 | | | | | | L | Q | Q | A | A | A | A | A | A | 4.5 | 4.3 | 4.5 | B | A | | | | | | |
| 30 | | | | | | Q | A | A | A | A | A | A | A | A | A | A | 4.7 | A | A | | | | | | |
| 31 | | | | | | Q | A | Q | A | A | A | A | A | 4.6 | A | A | A | A | A | | | | | | |
| Mean Value | | | | | | 2.8 | 3.3 | 4.0 | 4.2 | 4.4 | 4.4 | 4.5 | 4.4 | 4.4 | 4.4 | 4.3 | 4.2 | 3.8 | 3.3 | | | | | | |
| Median Value | | | | | | 2.8 | 3.2 | 4.0 | 4.2 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.3 | 4.2 | 3.8 | 3.4 | | | | | | |
| Count | | | | | | 2 | 4 | 6 | 7 | 8 | 11 | 18 | 17 | 17 | 14 | 15 | 12 | 15 | 10 | | | | | | |

foF1

Swamp 4.0 Mc to 4.5 Mc in 1.5 min

Manual Automatic

Y 4

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

R'F1

May. 1953

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

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

Lat. 35° 12.6' N
Long. 139° 37.7' E

Yamagawa

IONOSPHERIC DATA

May, 1953

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

f_oE

Every 1.0 Mc to 3.0 Mc in 1.5 min

Manual

Automatic

Y 6

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

Lat. 35° 12.5' N
Long. 139° 37.7' E

Yamagawa

IONOSPHERIC DATA

135° E Mean Time

12.5

May. 1953

| 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 | 100 | 100 | 100 | [100]A | 100 | B | B | A | A | A | A | A | | | | | |
| 2 | | | | | | | 130 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | |
| 3 | | | | | | | A | A | A | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | |
| 4 | | | | | | | 120 | 100 | 100 | 100 | 100 | 100 | A | A | A | A | A | A | A | | | | | |
| 5 | | | | | | | A | A | 110 | 90 | 100 | 100 | A | A | A | A | A | A | A | | | | | |
| 6 | | | | | | | A | A | 100 | 100 | 100 | 100 | [100]B | 100 | 100 | 100 | 100 | 100 | 100 | | | | | |
| 7 | | | | | | | A | A | A | A | A | A | A | A | A | B | 100 | 100 | 100 | | | | | |
| 8 | | | | | | | A | 100 | 100 | [100]A | [110]A | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | |
| 9 | | | | | | | A | 100 | 100 | 100 | 100 | A | A | A | A | A | A | A | A | | | | | |
| 10 | | | | | | | 110 | 100 | 90 | 100 | 100 | 100 | 100 | 100 | [100]A | 100 | A | A | A | | | | | |
| 11 | | | | | | | A | 100 | C | C | C | C | C | C | C | C | C | C | C | | | | | |
| 12 | | | | | | | 110 | 100 | 100 | 100 | 100 | 100 | C | C | C | C | C | C | 100 | | | | | |
| 13 | | | | | | | 120 | 110 | 100 | A | A | A | A | 100 | 100 | 100 | 100 | [100]A | 100 | | | | | |
| 14 | | | | | | | 110 | 110 | 100 | 100 | 100 | [100]C | 100 | A | C | 100 | 100 | 100 | 100 | | | | | |
| 15 | | | | | | | B | 100 | 100 | [100]A | 100 | A | A | A | 100 | 100 | 100 | 100 | 100 | | | | | |
| 16 | | | | | | | A | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | |
| 17 | | | | | | | A | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | [100]A | 110 | | | | | |
| 18 | | | | | | | 110 | 100 | 100 | 130A | 100 | 100 | 100 | 100 | A | A | A | A | 100 | | | | | |
| 19 | | | | | | | B | 110 | A | A | 100 | [100]A | 100 | [100]A | 100 | [100]A | 100 | A | A | | | | | |
| 20 | | | | | | | 140 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | C | C | C | | | | | |
| 21 | | | | | | | 120 | 100 | 100 | 100 | 100 | [100]A | 100 | A | A | A | A | 100 | 100 | | | | | |
| 22 | | | | | | | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | |
| 23 | | | | | | | 110 | 100 | 100 | 100 | 100 | 100 ^M | 100 | 100 | 100 | 100 | A | A | 100 | | | | | |
| 24 | | | | | | | B | A | 100 | 100 | [100]A | 100 | [100]C | 100 | 100 | [100]C | 100 | A | A | | | | | |
| 25 | | | | | | | A | A | A | 100 | A | A | A | A | A | C | A | A | A | | | | | |
| 26 | | | | | | | A | A | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | |
| 27 | | | | | | | B | A | 100 | 100 | 100 | [100]C | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | |
| 28 | | | | | | | A | 100 | 100 | 100 | 100 | 100 | 100 | A | A | A | A | A | A | | | | | |
| 29 | | | | | | | A | 100 | 100 | 100 | [100]A | 100 | [100]A | 100 | [100]A | 100 | 100 | 100 | 100 | | | | | |
| 30 | | | | | | | 100 | 100 | 130A | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | |
| 31 | | | | | | | B | A | A | 100 | 100 | 100 | 100 | 100 | A | A | A | A | A | | | | | |
| Mean Value | | | | | | | 120 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | |
| Median Value | | | | | | | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | |
| Count | | | | | | | 12 | 21 | 25 | 27 | 26 | 25 | 21 | 19 | 18 | 17 | 17 | 17 | 8 | | | | | |

Sweep 1.0... Me to 17.5... Mc in 15... min

Manual Automatic

Y 7

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

Lat. 31° 12.5' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

May. 1953

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 | E | E | E | E | E | E | 3.1 | 3.8 | 5.2 | 4.8 | 4.0 | 4.0 | B | 4.6 | 4.6 | 4.5 | 6.0 | 6.4 | 4.2 | 3.6 | 6.1 | 3.5 | 4.3 | 5.6 |
| 2 | 4.6 | 4.5 | 2.2 | E | E | 2.1 | G | G | 4.4 | 4.7 | 5.2 | 5.2 | 5.1 | 4.9 | 4.9 | G | 4.7 | 5.6 | 5.4 | 4.0 | 3.6 | 4.0 | 5.6 | 4.8 |
| 3 | 7.6 | 3.6 | 3.0 | 5.2 | 3.4 | C | 3.3 | 5.2 | 5.6 | 5.6 | b.1 | 5.8 | 5.6 | 5.7 | 5.7 | 4.0 | 5.4 | 4.1 | 3.7 | 2.9 | 3.2 | 2.6 | 2.1 | 3.0 |
| 4 | 3.1 | 3.6 | 2.4 | 2.0 | 2.0 | E | G | G | 4.3 | 5.4 | 5.0 | 5.2 | 4.0 | 4.0 | 3.6 | 4.6 | 4.6 | 4.2 | 4.0 | 3.2 | 2.8 | 3.6 | 3.2 | 2.2 |
| 5 | 3.0 | E | E | E | E | E | 3.2 | 4.6 | 4.4 | 5.1 | 5.1 | 5.6 | 4.7 | 5.3 | 5.7 | 4.0 | 3.0 | 3.6 | 3.9 | 5.5 | 3.6 | 2.0 | E | E |
| 6 | E | 2.8 | 2.8 | 2.7 | 2.4 | 2.1 | 3.1 | 3.8 | 4.3 | 5.6 | 10.6 | 3.8 | 5.6 | G | G | G | G | G | G | 2.4 | E | 2.0 | 1.8 | 1.9 |
| 7 | 2.0 | E | E | E | E | E | 2.0 | 4.6 | 7.0 | 7.6 | 8.8 | 7.8 | 7.8 | 7.8 | 5.4 | 3.8 | 4.6 | 4.2 | 3.4 | 6.2 | 3.8 | 5.0 | 3.8 | 4.6 |
| 8 | 5.9 | 5.6 | 2.6 | 2.5 | 2.8 | 2.0 | 2.7 | 5.7 | 6.7 | 6.0 | 6.3 | 4.4 | 5.3 | 3.6 | 5.8 | 5.4 | 4.2 | 4.9 | 3.2 | 2.6 | 3.1 | 2.5 | 2.8 | 2.5 |
| 9 | 3.0 | 3.2 | 3.4 | 3.8 | 3.8 | 2.5 | 3.2 | 3.8 | 4.6 | 5.6 | 8.5 | 8.9 | 4.7 | 4.8 | 3.6 | 4.0 | 3.8 | 3.6 | 3.0 | 2.4 | 2.0 | 3.4 | 3.4 | 2.4 |
| 10 | 2.4 | 2.4 | 3.2 | 2.5 | 2.9 | 2.0 | G | 3.4 | 4.2 | 4.6 | 4.8 | 5.0 | 5.0 | 5.5 | 4.4 | 4.0 | 3.8 | 4.1 | 3.4 | 1.8F | 2.4 | 4.0 | 3.3 | 3.0 |
| 11 | 3.0 | 2.8 | 2.1 | 1.9 | 1.9 | 2.1 | 2.6 | C | C | C | C | C | C | C | C | C | C | C | C | 4.7 | 5.8 | 6.5 | 6.6 | 3.1 |
| 12 | 3.0 | E | 2.6 | E | E | 4.3 | G | 3.8 | 3.8 | 5.0 | 4.8 | 4.8 | 5.4 | 6.0 | 3.8 | 6.5 | 5.1 | 4.2 | 3.8 | 4.2 | 5.2 | 4.2 | 3.6 | 3.4 |
| 13 | 2.4 | 3.4 | 3.4 | E | E | E | G | 4.8 | 5.9 | 5.2 | 4.6 | 4.6 | 4.0 | 7.0 | 5.8 | 6.4 | 5.8 | 6.5 | 3.4 | 3.4 | 6.6F | 3.5 | 2.4 | E |
| 14 | 3.0 | 2.4 | 2.0 | 2.4 | E | E | 4.0 | 5.6 | 9.2 | 10.2 | 7.2 | C | 5.4 | 5.0 | C | 6.7 | 7.6 | 14.5 | 8.3 | 8.2 | 9.4 | 6.8 | 2.8 | 3.2 |
| 15 | 2.3 | 2.9 | 3.0 | 3.0 | 2.6 | 2.4 | 2.6 | 5.2 | 6.6 | 7.2 | 6.8 | 8.2 | 8.1 | 8.6 | 8.8 | 6.7 | 7.9 | 8.0 | 6.0 | 5.7 | 3.5 | 3.4 | 3.8 | 7.3 |
| 16 | 2.4 | 7.3 | 4.0 | 4.2 | E | 4.0 | 6.0 | 9.2 | 8.2 | 6.6F | 7.4 | 6.6 | 9.0 | 8.9 | 5.8 | 3.8 | 4.0 | 3.1 | G | 4.2 | 2.8 | 2.2 | 3.4 | 4.5 |
| 17 | 5.5Y | 2.3 | 3.2 | 2.2 | E | E | 1.8 | 4.0 | 6.4 | 7.2 | 6.6 | 5.6 | G | G | G | G | 3.4 | 4.8 | 3.8 | 5.8 | 5.0 | 5.0 | 2.4 | 4.4 |
| 18 | 6.4 | 4.6 | 3.4 | 2.8 | 2.9 | 2.2 | 4.2 | 4.8 | 5.4 | 5.8F | 6.3 | 7.2 | 4.0 | 3.8 | 8.4 | 7.6 | 7.4 | 8.0 | 8.6 | 7.2 | 6.8 | 3.4 | 4.1 | 5.2 |
| 19 | 2.5 | 1.8 | 2.2 | 2.4 | E | E | E | G | 4.2 | 4.3 | 4.4 | 4.5 | 4.0 | 6.6 | 8.8 | 9.3 | 6.4 | 6.4 | 6.5 | 4.6 | 2.6 | 3.6 | 3.2Y | 2.5 |
| 20 | 5.5 | 2.8 | 2.0 | 2.2 | E | C | 3.2 | 3.8Y | 4.3 | 4.5 | 5.3 | 7.2 | 5.9F | 4.8 | 5.4 | C | C | C | C | 2.8 | 3.2 | 2.2 | E | 3.0 |
| 21 | 2.1 | 4.6 | 2.1 | 2.1 | 2.4 | 1.4 | G | 4.0 | 5.4 | 4.6 | 7.3 | 7.8 | 12.8 | 12.0 | 3.6 | 5.4 | 3.6 | 3.0 | G | 7.2 | 6.0 | 6.8 | 7.3 | 6.4 |
| 22 | 3.2 | 2.8 | 2.0 | 1.6 | E | E | G | 4.6 | 7.4 | 11.7 | 5.8 | 5.5 | 5.2 | 4.9 | 7.0 | 8.6 | 8.5 | 7.5 | 5.4 | 4.7 | 2.9 | 3.1 | 3.8 | 7.4 |
| 23 | 6.2F | 4.2 | 2.3 | 2.2 | 2.9 | 2.5 | 3.3 | 5.1 | 4.8 | 4.9 | 6.0 | G | G | G | G | 5.8 | 4.6 | 9.1 | 10.4 | 6.7 | 4.7 | 6.0 | 5.7 | 5.8 |
| 24 | 5.6 | 4.8 | 4.8 | 3.3 | 2.8 | 3.0 | 3.5 | 3.5 | 6.4 | 5.6 | 8.0 | 6.6 | C | 6.4 | 6.8 | 6.4 | 7.6 | 10.0 | 9.4 | 9.5 | 8.0 | 4.8 | 2.8 | 5.6 |
| 25 | 3.8 | 3.0Y | 2.5 | 2.6 | 2.4 | 1.9 | 2.6 | 4.0 | 4.6 | 4.6 | 6.8 | 7.2 | 8.8 | 10.2 | 6.0 | C | 10.6 | 7.4 | 3.6 | 3.3 | 2.2 | 4.4 | 3.8 | 3.9 |
| 26 | 4.2 | 3.2 | 4.4 | 4.6 | 2.4 | 2.4 | 6.0 | 6.0 | 7.8 | 8.3 | 8.6 | 5.3 | 4.7 | 4.3 | G | G | 5.7 | 5.6 | 4.9F | 4.4 | 7.3 | 6.6 | 8.2 | 3.8 |
| 27 | 7.3 | E | 2.2 | 2.8 | 2.6 | E | 3.0 | 2.6 | G | 7.2F | 7.2 | C | 7.4 | 6.7 | 6.6 | 6.0 | 4.2 | 3.4 | 3.2 | 3.0 | 2.1 | 7.2 | 5.8 | 3.5 |
| 28 | 6.0 | 4.3 | 4.9 | 5.4 | 5.1Y | 3.8 | 4.7 | 7.1 | 13.2 | 16.1 | 8.7 | 13.5 | 8.6 | 9.0 | 9.0 | 6.6 | 7.2 | 7.2 | 3.4 | 4.9 | 5.7 | 7.3 | 7.3 | 7.3 |
| 29 | 6.6 | 7.3 | 4.3 | 3.7 | 3.2 | 2.7 | 2.4 | 4.7 | 5.7 | 11.2 | 11.6 | 10.0 | 8.8 | 7.2 | 4.2 | 4.2 | G | 3.4 | 3.4 | 7.3 | 7.4s | 4.0 | 4.1 | 7.4 |
| 30 | 8.4F | 7.2 | 4.2F | 3.0F | 3.2F | G | 3.8 | 7.0 | 5.0 | 9.3 | 14.2 | 15.0 | 10.6 | 7.5 | 9.2 | 10.1 | 10.0 | 7.2F | 7.0 | 5.4 | 7.2 | 6.3 | 7.1 | 6.3 |
| 31 | 5.8 | 5.1 | E | E | E | 2.4 | 2.2 | 8.0 | 5.6 | 7.7 | 6.2 | 5.9 | 7.0 | 6.0 | 7.7 | 6.9Y | 6.2 | 7.5 | 6.2 | 11.6 | 3.4 | 2.3 | C | 2.1 |
| Mean | 4.4 | 3.9 | 3.0 | 3.0 | 2.9 | 2.5 | 3.3 | 4.9 | 5.9 | 6.7 | 6.9 | 6.7 | 6.4 | 6.3 | 6.0 | 5.9 | 5.8 | 6.0 | 5.1 | 4.9 | 4.6 | 4.3 | 4.3 | 4.3 |
| Median | 3.2 | 3.2 | 2.6 | 2.4 | 2.4 | 2.0 | 2.8 | 4.6 | 5.4 | 5.6 | 6.4 | 5.7 | 5.4 | 5.5 | 5.7 | 5.4 | 5.1 | 5.6 | 3.8 | 4.6 | 3.6 | 4.0 | 3.7 | 3.8 |
| Count | 31 | 31 | 31 | 31 | 31 | 29 | 30 | 30 | 30 | 30 | 30 | 28 | 28 | 30 | 29 | 28 | 29 | 29 | 29 | 31 | 31 | 31 | 30 | 31 |

fEs

Group 1-6 Mc to 17.5 Mc in 1.5 min Manual Automatics

Y 8

Lat. 31° 12.5' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

135° E Mean Time

(M3000)F2

May, 1953

| 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 | 3.4 | 3.5 | 3.4 | 3.6 | 3.9 | 3.8 | 3.6 | 3.2 | 3.1 | 3.2 | 3.1 | 3.8 | 3.5 | 3.7 | 3.5P | 3.6R | 3.3 | 3.3 | 3.2 | 3.1 | 3.1 | 3.1 |
| 2 | 3.2Z | 3.1 | 3.3 | 3.6 | 3.3H | 2.5 | 3.6 | 3.8 | 3.7 | 3.8 | 3.6 | 3.5 | 3.2 | 3.3 | 3.4P | 3.6E | 3.4 | 3.8 | 3.7 | 3.3 | 3.1 | 3.2 | 3.2 | 2.9 |
| 3 | 3.2JA | 3.4 | (3.2) | 3.0A | (2.9)P | 3.27C | 3.6 | (4.0)P | 4.2 | 3.7 | 3.4 | 3.3 | 3.0 | 3.1 | 3.1 | 3.3 | 3.4 | 3.6 | 3.5E | 3.5 | 3.4P | 3.2 | 3.0 | 2.9 |
| 4 | 3.0F | F | F | F | (3.6)F | 3.4F | 3.8F | 3.9 | 3.6 | 3.4 | 3.1 | 3.0 | 3.1 | 3.3 | 3.2 | 3.4 | (3.4)P | 3.5 | 3.6 | 3.7 | 3.6 | 3.6 | (2.9)F | S |
| 5 | FH | 3.2 | 3.5 | 3.9 | 3.2 | 3.3 | 3.7 | 3.6 | 3.6 | 3.5 | 3.3 | 3.4 | S | S | S | 3.3P | 3.6 | 3.5 | 3.7 | 3.4 | 3.3 | 3.2 | 3.5 | 3.2 |
| 6 | 3.0 | 3.3 | 3.5 | 3.9 | 3.3 | 3.1 | 3.6 | 3.9 | 3.6 | 3.5 | 3.4JA | 3.3 | 2.9 | 3.0E | 3.3P | 3.8 | 3.8 | 3.6 | 3.5 | 3.3E | 3.5H | S | S | 3.2E |
| 7 | 3.4 | 3.3 | 3.4 | 3.6 | 3.4 | 3.4 | 3.4 | 3.5 | A | A | A | A | 3.4 | 3.2JA | 3.0 | 3.3 | 3.5 | 3.4 | 3.6 | 3.5JA | 3.4 | 3.0S | A | FH |
| 8 | A | A | 3.3 | 3.2 | 3.5 | 3.3 | 3.6 | 3.8 | 3.5JA | 3.2 | 3.2 | 3.5 | 3.3 | 3.3 | 3.2 | 3.3 | 3.4 | 3.7 | 3.4 | (3.4)P | 3.9P | 3.2 | 3.1 | 3.0 |
| 9 | 3.2F | 2.9F | 2.7 | 2.8F | 3.2 | 3.4F | 3.4 | S | 3.9 | A | A | A | 3.1P | (3.2)P | 3.5 | 3.4 | 3.4 | 3.4 | 3.4 | 3.2 | 3.1 | 3.2 | 3.2 | 3.1 |
| 10 | 3.1 | 3.2 | 3.2 | 3.3 | 3.7R | 3.6 | 3.8 | (3.9)E | 3.5 | 3.0 | 3.5 | 2.9 | 3.1 | 3.3 | 3.0 | (3.1)P | 3.4 | 3.7 | (3.8)S | 3.9 | 3.5 | 3.0 | 2.7 | 3.0 |
| 11 | 3.2 | 3.0 | 3.1 | 3.6 | 3.9 | 3.1 | 3.9 | C | C | C | C | C | C | C | C | C | C | C | C | F | A | A | (3.3)E | 3.4 |
| 12 | 3.2 | 3.1 | FH | F | 3.1P | 3.3JA | 3.5P | 4.2P | 3.8 | 3.2 | 3.2 | 2.7 | C | C | C | C | C | 3.5 | 3.3H | (3.0)S | 2.8F | 3.4 | 3.3H | |
| 13 | (3.0)E | (3.1)E | 3.4F | 3.3F | 3.5F | 3.5F | 3.7 | 3.7 | 3.7 | 3.2 | 3.0 | 3.2 | 3.3 | 3.2 | 3.1 | 2.9 | (3.5)E | 3.5 | 3.4 | 3.6E | (3.4)A | 3.1 | 3.3 | FS |
| 14 | 3.3F | (3.1)E | (3.2)E | (3.3)E | F | 2.9 | 3.5 | A | A | A | A | C | A | 2.8 | 2.9 | 3.3 | (3.4)P | A | A | A | A | 3.0 | 3.0 | 3.0 |
| 15 | 3.1E | 3.0 | 3.0 | 3.1 | 3.1 | 3.0 | 3.6 | 3.5 | A | B | 3.8 | A | A | A | A | 3.3 | 3.3 | 3.6 | 3.4 | 3.3H | (3.0)S | 2.7E | 3.0 | A |
| 16 | F | A | A | 3.7P | S | A | A | A | A | A | A | 3.2 | 3.1JA | (3.0)A | A | 3.3 | 3.5 | 3.4P | 3.4 | A | A | 3.0S | 2.8 | 2.7 |
| 17 | 2.8 | 3.0 | 3.3 | 3.5 | 3.0E | 2.8 | 3.0 | 2.6R | A | A | A | A | 2.7 | 2.6 | 2.7 | 3.0 | 3.4 | 3.1 | 3.0 | A | A | A | 2.9 | 2.9 |
| 18 | 2.8 | (3.0)E | 2.9 | 3.1 | 3.0E | 3.4 | 3.6 | 3.3 | 3.3 | 3.3A | A | A | 3.0 | 3.1 | 3.1 | 3.3 | 3.2 | 3.1 | 3.0 | A | A | S | 2.9 | 3.1 |
| 19 | 3.2H | 3.0 | 3.1 | 3.3 | 3.3 | 3.1 | 3.6 | 3.5 | 3.8 | 3.9 | 2.9 | 2.9 | 2.7 | 2.9 | 2.9 | 3.1 | 3.5 | 3.6 | 3.4 | 3.4E | 2.7E | 2.9H | 2.7 | 2.9H |
| 20 | 2.9 | 3.1H | 3.3 | 3.6H | 3.5H | 3.67C | 3.6 | 3.6 | 3.1 | 3.5 | 3.0 | (2.9)P | 2.8 | 3.0 | 3.0 | C | C | C | C | 3.3 | 3.2 | 3.2 | 2.9H | 2.9 |
| 21 | 2.8 | 3.1H | 3.3H | 3.5H | 3.6 | 3.6 | 3.5 | 3.6 | A | 3.2 | 2.9 | 2.9 | A | A | 3.3 | 3.3 | 3.5 | (3.4)P | 3.4P | A | A | 3.0S | 2.8 | 2.7 |
| 22 | (3.1)E | (3.2)E | 3.7 | 3.3F | 2.8F | 3.1 | 3.4 | 3.4 | A | A | 3.1 | (3.2)P | 3.2 | 3.0 | 3.1 | 3.3 | A | A | S | 3.5P | 3.1 | 3.0 | 2.8H | (2.8)A |
| 23 | 2.8 | (2.9)E | 3.6 | 3.7 | 3.2 | 3.3 | 3.5 | 3.5P | 3.4 | 2.9 | 3.2 | 3.5 | 2.6 | 2.8 | 3.3 | 3.3 | 3.4 | A | A | 3.2E | 3.3 | A | A | 3.0F |
| 24 | (3.2)E | FS | (3.2)E | 3.4F | 3.0E | 3.1F | 3.7F | 3.8 | 3.7 | 3.4JA | 3.0 | 3.2 | 3.2 | 3.1 | 3.2 | (3.2)P | 3.2 | 3.4 | 3.5 | A | A | F | FS | F |
| 25 | F | F | (3.3)E | 3.1 | (3.0)E | 3.2F | 3.4 | 3.4 | 3.9 | 3.0 | 3.2JA | 2.8 | 3.2 | 3.2JA | 3.2 | C | A | A | 3.4 | 3.5 | 3.4 | 3.2F | 3.0 | 3.0E |
| 26 | (2.9)E | 3.0F | 3.1 | (3.0)E | FS | 3.2F | (3.7)E | 3.4 | 3.4JA | 3.4 | 3.2JA | 2.9 | 3.2 | 3.1 | 3.2 | 3.1 | 3.2 | (3.4)P | 3.6 | 3.2 | 3.2 | (2.8)E | (3.0)A | 3.1P |
| 27 | 3.2 | 3.2 | 3.1 | 3.3 | 3.1 | 3.0 | 3.5 | 3.5 | 3.6 | A | A | C | A | 3.5 | 3.0 | 2.9 | 2.9F | S | B | (3.8)P | 3.2 | 3.0P | FH | F |
| 28 | (3.4)E | 3.4 | (3.2)E | 2.9 | 3.2F | 3.5F | A | A | A | 3.0F | A | A | A | (2.8)P | (3.0)A | 3.1 | 3.3 | 3.0 | 3.0E | 3.2P | 3.1 | (2.9)E | (2.9)A | (2.9)A |
| 29 | (2.9)E | (2.8)E | (2.8)E | (2.9)E | (3.1)E | 3.2 | 3.7 | 3.6 | 3.2 | A | A | A | A | 3.1 | 3.4 | 3.2 | 3.3 | 3.4 | 3.2 | 3.1 | 3.5 | 2.9 | (3.0)E | (2.8)E |
| 30 | (2.7)P | 2.8 | 2.7H | P | S | 3.0 | 3.6 | (3.3)P | 3.0 | A | A | A | A | A | A | 3.2P | 3.0 | A | A | (3.4)H | 3.5 | (3.3)P | 3.4 | (3.4)A |
| 31 | 3.5 | (2.9)E | 3.0 | 3.3 | 3.3F | 3.3F | 3.4F | 3.6JA | 3.7 | A | A | 2.7 | (2.9)P | 2.9 | (3.1)S | 2.9 | 3.3P | 3.3 | 3.2 | 3.2JA | 3.2 | 3.2 | (3.0)E | 2.9E |
| Mean Value | 3.1 | 3.1 | 3.2 | 3.4 | 3.3 | 3.3 | 3.6 | 3.6 | 3.4 | 3.2 | 3.1 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.4 | 3.5 | 3.5 | 3.4 | 3.3 | 3.1 | 3.0 | 3.0 |
| Median Value | 3.1 | 3.1 | 3.2 | 3.3 | 3.2 | 3.2 | 3.6 | 3.6 | 3.4 | 3.2 | 3.1 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.4 | 3.5 | 3.5 | 3.4 | 3.3 | 3.0 | 3.0 | 3.0 |
| Count | 27 | 26 | 28 | 27 | 28 | 30 | 30 | 26 | 18 | 20 | 20 | 22 | 25 | 26 | 25 | 25 | 25 | 22 | 24 | 25 | 24 | 24 | 25 | 24 |

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

IONOSPHERIC DATA

Lat. 31° 12.6' N
Long. 130° 37.7' E

Yamagawa

May, 1953

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 | 1.1 | E | 1.4 | E | E | E | 2.0 | 2.8 | 3.1 | 3.7 | 3.8 | 4.8 | 4.0 | 4.6A | 3.9 | 4.6 | A | A | A | 2.5A | 2.8A | 1.8 | 1.6 | 1.8 |
| 2 | 1.8 | 2.0A | 1.8 | 1.8 | 1.7 | 1.8 | 1.9 | 2.7 | 3.1 | 4.0A | 4.6A | 4.6A | 4.1 | 4.1 | 4.0 | 3.9 | 3.9A | 3.6 | 2.4 | [2.6]A | 2.7A | 3.0A | 5.6A | 4.3 |
| 3 | 3.6A | 2.2A | 1.5 | [1.9]A | 2.3A | [2.2]C | 2.2 | 4.0A | 3.0 | 4.6A | 4.7A | 4.8A | 4.9A | 4.7A | 4.6A | 3.6 | 3.8A | 2.8 | 2.6 | 1.7 | 2.4A | 1.7 | 1.7 | 1.6 |
| 4 | 1.2 | E | E | 1.3 | A | E | 1.9 | 2.7 | 3.0 | 4.4A | 4.0 | 4.1 | 3.8 | 4.2 | [4.0]N | 3.8 | 3.9A | 3.0 | 3.0A | 1.9 | 2.0A | 1.8 | 1.8 | 1.6 |
| 5 | 1.5 | E | E | E | E | E | 2.2 | 2.8 | [3.4]A | 4.1A | 4.0 | 4.6A | 4.5A | 3.8 | 3.7 | 4.0A | 3.2 | 3.1 | 2.9A | 4.6A | 2.6A | 1.6 | 1.7 | 1.6 |
| 6 | E | 1.6 | 1.7 | 1.5 | E | E | 2.5A | 2.4 | 3.2 | 4.6A | [4.2]A | 3.8 | 4.7A | 3.6 | 3.4 | 3.2 | 3.0 | 2.7 | 2.7 | 2.2 | 1.7 | 2.0 | 1.6 | 1.8 |
| 7 | 1.6 | 1.7 | 1.8 | 1.4 | 1.4 | 1.8 | 1.5 | 2.8 | A | A | A | A | 6.0A | [5.3]A | 4.6A | 3.9 | 4.0A | 3.4 | 2.5 | 6.5 | 3.7 | 4.0A | [3.0]A | 2.0A |
| 8 | A | A | 1.7 | 1.7 | 1.7 | 1.6 | 2.1 | 4.8A | [4.7]A | 4.6A | 5.3A | 3.7 | 4.5A | 3.6 | 4.8A | 4.1A | 3.5 | 3.8A | 2.6 | 1.8 | 2.1A | 3.5 | 2.0A | 2.2A |
| 9 | [2.2]A | 2.3A | 2.3A | 2.0A | 2.4A | 1.7 | [2.0]A | 2.3 | 3.8A | A | A | A | 3.8 | 3.6 | 4.1 | 3.8 | 3.6 | 3.5A | 3.0A | 1.7 | 1.7 | 1.8 | 2.6A | 2.4A |
| 10 | 2.2A | 1.6 | 1.2 | E | 2.2A | E | 1.7 | 2.5 | 2.8 | 3.5 | 4.0A | 4.1A | 4.1A | 4.4A | 3.5 | 3.4 | 3.6A | [2.8]A | 2.0 | 1.6 | 1.8 | 1.4 | 1.5 | 2.4A |
| 11 | 2.8A | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.7 | C | C | C | C | C | C | C | C | C | C | C | C | 3.1A | A | A | 3.5 | 1.7 |
| 12 | 1.2 | E | 1.3F | 1.8 | 2.0 | [2.0]A | 1.9 | 3.2 | 3.2 | 4.1A | 4.7A | 4.8A | 4.5A | 4.5A | 4.3 | 4.6A | 4.2A | 3.6A | 3.4 | 2.4A | 2.3 | 2.4A | 2.2A | 1.6 |
| 13 | 2.4A | 1.9 | 1.3 | 1.2 | 1.2 | 1.6 | 2.1 | [2.5]A | 2.9 | 5.0A | 4.4A | 5.5 | 4.8 | 6.5A | 5.5A | 4.5A | 3.3 | 2.2 | 1.5 | 1.6 | [4.9]A | 2.2A | 1.5 | 1.3 |
| 14 | 1.5 | E | E | 1.4 | 1.8 | 1.8 | 1.8 | A | A | A | C | C | 4.1 | 4.2A | [4.3]C | 4.4A | 4.6A | A | A | A | A | A | 2.4A | 1.5 |
| 15 | 1.5 | 1.5 | 1.6 | 1.4 | 1.7 | 1.4 | 1.4 | 2.8 | [4.9]A | 7.0A | 5.4A | [6.8]A | 8.2 | 8.2A | 8.3A | 5.5A | 7.0A | 8.8 | 5.8A | 5.3A | A | 3.0A | 1.5 | [1.4]A |
| 16 | 1.2F | A | A | A | E | E | A | A | A | A | A | 5.4A | [6.7]A | (8.0)A | 4.8A | 3.2 | 3.0 | 2.6 | 2.0 | 3.7A | 2.9 | 1.6 | 1.9 | 3.5A |
| 17 | 3.2A | 1.7 | 1.6 | 1.2 | 1.7 | 1.4 | 1.8 | 2.6 | A | A | A | A | A | 3.5 | 3.4 | 3.4 | 3.5 | 3.0 | 3.0A | 4.8A | A | A | 1.4 | 2.6A |
| 18 | 2.6A | 3.0A | A | 1.7 | 1.6 | 1.6 | 1.9 | 2.4 | 3.3 | 3.3 | A | A | 3.4 | 3.8 | A | A | A | 4.5A | 6.5A | 6.7A | 5.6A | [3.6]A | 1.5 | 1.5 |
| 19 | 1.5 | 1.5 | 1.3 | 1.4 | 1.3 | 1.3 | 1.4 | 2.2 | 2.8 | 3.2 | 3.4 | 3.9A | 3.6 | 3.9 | 6.0A | 7.2A | 4.4A | 3.4A | 3.3A | 3.3A | 1.6 | 2.6A | 2.0A | 1.7 |
| 20 | 1.7 | 1.8 | 1.3 | 1.6 | E | C | 2.4 | 3.0 | 2.8 | 3.5 | 4.2A | 4.6A | 3.8 | 3.5 | 3.8 | C | C | C | C | 2.1A | 2.0A | 1.5 | 1.6 | [4.6]A |
| 21 | 1.6 | 1.7 | 1.3 | 1.8 | [1.6]A | 1.4 | 2.0 | 2.5 | 4.6A | 4.6A | 3.6 | 6.8A | 3.6 | [3.8]A | 4.0 | 3.9 | 3.8 | 2.8 | 2.3 | A | A | 4.8A | [3.2]A | 1.6 |
| 22 | 1.3F | 1.8 | 1.6 | E | E | E | 2.2 | A | A | A | 4.8A | 4.5A | 4.5A | 4.0 | 4.8A | A | A | A | 4.8A | 4.1A | 2.0A | 2.5A | 2.8A | [2.2]A |
| 23 | 1.7 | E | 1.7 | 1.5 | 1.5 | 1.5 | 1.9 | 3.3A | 3.6 | 4.6A | 4.0A | 3.5 | 3.5 | 3.5 | 3.4 | 3.5 | 3.3 | A | A | 5.4A | 3.6A | A | A | 2.1A |
| 24 | 1.6 | 1.6 | E | 3.1A | 2.2A | 1.3 | 1.7 | 2.0 | 4.0A | [4.2]A | 4.5A | 4.0 | [4.4]C | 4.8A | [5.1]A | 5.4A | 4.6A | 7.4A | A | A | 1.9 | 1.7 | 3.4A | |
| 25 | 3.2A | 1.6 | 1.7 | 1.6 | 1.6 | 1.5F | 2.4 | 1.7 | 3.0 | 4.2A | [4.7]A | 5.2A | 5.2A | [5.1]A | 5.0A | C | A | A | 3.6A | 2.6A | 1.7 | 3.5A | 2.6A | [2.8]A |
| 26 | 2.9A | 1.6 | 1.8 | 2.8 | (3.0)S | 2.4A | 1.8 | 5.8A | [5.0]A | 4.2A | [4.0]A | 3.9 | 4.0 | 3.8 | 3.9 | 3.5 | 4.7A | 2.9 | 2.2 | 4.0A | 4.4A | 1.7 | [1.9]A | 2.1A |
| 27 | 2.6A | 1.7 | 1.6 | 1.6 | 1.4 | 1.6 | 1.8 | 2.4 | 2.9 | A | C | A | A | 5.9A | 4.6A | 4.7A | 3.1 | 2.8 | 2.3A | 2.2A | 1.6 | 2.7A | 1.6 | 1.6 |
| 28 | 2.1A | 2.5A | 1.9 | 2.8A | 1.9 | 1.7 | 2.2 | A | A | A | 4.1A | A | A | 4.1A | [4.2]A | 4.4A | A | A | 3.0A | 3.4A | 4.6A | 3.2A | 2.2A | [3.8]A |
| 29 | 5.3A | 3.8A | 1.5 | 2.5A | 2.3A | 1.8 | 2.0 | 2.8 | 3.1 | A | A | A | A | 6.4A | 4.5 | 3.6 | 3.4 | 4.5 | 3.0A | 2.7A | 2.7A | 2.8A | 1.6 | 4.8A |
| 30 | 3.0A | 2.3A | 2.4A | 2.0A | 2.8A | 1.3 | 2.8 | [3.9]A | 5.0A | A | A | A | A | A | A | 4.5A | 4.6A | A | A | 3.7A | 4.1A | 3.5A | 2.9A | [2.2]A |
| 31 | 1.5 | 1.5 | 1.6 | 1.6 | 1.4 | 1.6 | 1.5 | [2.4]A | 3.2A | A | A | 4.6A | 5.4A | 4.6A | 6.5A | 5.6A | 4.4A | 3.2A | 3.6A | [3.2]A | 2.8A | 2.1A | [2.0]C | 1.8 |
| Mean Value | 2.1 | 1.9 | 1.6 | 1.8 | 1.8 | 1.6 | 2.0 | 2.9 | 3.5 | 4.3 | 4.3 | 4.7 | 4.5 | 4.6 | 4.5 | 4.2 | 3.9 | 3.7 | 3.2 | 3.3 | 2.7 | 2.5 | 2.2 | 2.2 |
| Mean Value | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | 1.9 | 2.7 | 3.2 | 4.2 | 4.2 | 4.6 | 4.2 | 4.2 | 4.3 | 4.0 | 3.8 | 3.2 | 3.0 | 2.9 | 2.4 | 2.4 | 1.9 | 1.8 |
| Count | 30 | 29 | 29 | 30 | 30 | 30 | 30 | 26 | 24 | 19 | 20 | 21 | 26 | 29 | 28 | 26 | 24 | 22 | 25 | 28 | 25 | 27 | 30 | 31 |

fminF

Sweep 1.0 Mc to 17.5 Mc in 1.5 min

Manual Automatic

Y 10

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

Lat. 31° 12.5' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

f_{minE}

135° E Mean Time

May, 1953

| 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 | 1.4 | 1.5 | 1.6 | 1.5 | 1.8 | 3.0 | 3.3 | 3.6 | 2.8 | 2.2 | 1.5 | 1.5 | 1.5 | 1.4 | 1.6 | 1.5 | 1.6 | 1.8 | |
| 2 | 1.8 | 1.6 | 1.8 | E | E | 1.8 | 1.6 | 1.4 | 1.6 | 1.6 | 1.6 | 2.7 | 2.7 | 2.5 | 2.5 | 2.3 | 1.7 | 1.6 | 1.5 | 1.6 | 1.6 | 1.6 | 1.4 | 1.6 | |
| 3 | 1.4 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.6 | 1.6 | 2.6 | 2.6 | 2.6 | 2.0 | 1.7 | 1.5 | 1.4 | 1.4 | 1.4 | 1.5 | 1.7 | 1.7 | 1.6 | |
| 4 | 1.7 | E | E | 1.4 | E | E | 1.6 | 1.6 | 1.6 | 1.6 | 1.8 | 3.0 | 3.0 | 2.4 | 2.6 | 2.7 | 1.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 | 1.6 | 1.6 | |
| 5 | 1.9 | E | E | E | E | E | 1.5 | 1.6 | 1.6 | 1.5 | 1.7 | 2.8 | 1.4 | 2.7 | 1.5 | 1.8 | 1.8 | 1.8 | 1.5 | 1.6 | 1.6 | 1.6 | E | E | |
| 6 | E | E | E | E | E | E | 1.5 | 1.4 | 1.4 | 1.5 | 1.7 | 1.7 | 1.6 | 2.0 | 1.5 | 1.7 | 1.6 | 1.4 | 1.4 | 1.6 | 1.6 | 1.8 | 1.5 | 1.7 | |
| 7 | 1.5 | E | E | E | E | E | 1.2 | 1.4 | 1.4 | 1.5 | 1.5 | 2.2 | 1.5 | 1.6 | 1.6 | 3.2 | 1.4 | 1.4 | 1.5 | 1.6 | 1.4 | 1.6 | 1.6 | 1.6 | |
| 8 | 1.6 | E | 1.7 | 1.2 | E | 1.6 | 1.4 | 1.5 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 | 2.0 | 1.5 | 1.4 | 1.4 | 1.3 | 1.4 | 1.6 | 1.6 | 1.5 | 1.4 | |
| 9 | 1.3 | 1.3 | E | E | E | E | 1.3 | 1.4 | 1.6 | 1.5 | 1.5 | 1.5 | 1.6 | 1.7 | 1.6 | 1.8 | 1.6 | 2.0 | 1.4 | 1.6 | 1.6 | 1.6 | 1.6 | 1.4 | |
| 10 | 1.5 | 1.6 | E | E | E | E | 1.5 | 1.4 | 1.4 | 1.5 | 1.5 | 1.6 | 1.5 | 1.5 | 1.9 | 1.6 | 2.0 | 1.8 | 1.5 | 1.4 | 1.4 | 1.4 | 1.6 | 1.5 | |
| 11 | 1.6 | 1.4 | 1.7 | 1.7 | 1.5 | 1.5 | 1.5 | 1.5 | C | C | C | C | C | C | C | C | C | C | C | 1.5F | 1.5 | 1.6 | 1.5 | 1.5 | |
| 12 | E | E | E | E | E | E | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.6 | 1.6 | 1.8 | 1.5 | 1.5 | 1.6 | 1.6 | 1.5 | 1.6 | 1.6 | 1.6 | 1.7 | |
| 13 | 1.3 | 1.6 | 1.6 | E | 1.7 | E | 1.5 | 1.6 | 1.6 | 2.2 | 1.8 | 2.4 | 2.0 | 2.6 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.6 | 1.6 | 1.6 | E |
| 14 | 1.5 | E | E | E | E | E | 1.4 | 1.5 | 1.4 | 1.5 | 1.5 | 1.6 | 1.6 | 1.5 | 1.6 | 1.7 | 1.5 | 1.2 | 1.1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | |
| 15 | 1.5 | 1.5 | 1.6 | 1.2 | 1.4 | 1.4 | 1.4 | 1.4 | 1.6 | 1.6 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | 1.4 | 1.4 | 1.4 | 1.6 | 1.6 | 1.6 | 1.6 | 1.4 | |
| 16 | E | E | E | E | E | E | E | 1.1 | 1.4 | 1.6 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | 1.6 | 1.7 | 1.6 | 1.7 | |
| 17 | 1.5 | 1.7 | E | E | E | E | 1.1 | 1.1 | 1.4 | 1.4 | 1.6 | 1.8 | 1.8 | 1.6 | 1.5 | 1.6 | 1.8 | 1.8 | 1.2 | 1.6 | 1.6 | 1.6 | 1.8 | 1.6 | |
| 18 | 1.6 | 1.6 | E | E | E | E | 1.1 | 1.1 | 1.5 | 1.5 | 1.6 | 1.6 | 1.6 | 1.5 | 1.6 | 1.5 | 1.5 | 1.5 | 1.6 | 1.5 | 1.4 | 1.5 | 1.5 | 1.5 | |
| 19 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | E | B | 1.3 | 1.5 | 1.5 | 1.4 | 1.5 | 1.6 | 1.7 | 1.5 | 1.7 | 1.7 | 1.6 | 1.5 | 1.5 | 1.6 | 1.6 | 1.6 | 1.7 | |
| 20 | 1.7 | 1.7 | E | 1.2 | E | C | 1.4 | 1.5 | 1.4 | 1.6 | 1.7 | 1.8 | 1.5 | 1.6 | 1.6 | C | C | C | 1.2 | 1.6 | 1.6 | 1.7 | E | 1.6 | |
| 21 | 1.7 | 1.2 | E | 1.1 | 1.2 | 1.3 | 1.2 | 1.6 | 1.4 | 1.5 | 1.5 | 1.6 | 1.6 | 2.0 | 2.2 | 1.6 | 1.6 | 1.5 | 1.5 | 1.6 | 1.6 | 1.5 | 1.4 | 1.5 | |
| 22 | 1.3 | 1.4 | E | E | E | E | 1.3 | 1.4 | 1.5 | 1.5 | 2.7 | 2.7 | 1.9 | 1.6 | 1.6 | 1.6 | 1.5 | 1.2 | 1.1 | 1.4 | 1.5 | 1.5 | 1.4 | 1.4 | |
| 23 | 1.5 | 1.7 | 1.5 | 1.7 | 1.5 | 1.8 | 1.6 | 1.5 | 1.6 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 | 1.7 | 1.6 | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.7 | |
| 24 | 1.6 | 1.5 | E | E | E | E | 1.7 | 1.5 | 1.4 | 1.7 | 1.6 | 2.0 | 2.5 | 3.0 | 2.9 | 3.4 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | |
| 25 | 1.6 | 1.7 | 1.7 | 1.6 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 2.5 | 2.2 | 1.8 | 1.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | |
| 26 | 1.6 | 1.6 | 1.6 | 1.6 | 1.8 | 1.6 | 1.6 | 1.6 | 1.7 | 1.7 | 1.6 | 1.7 | 1.7 | 1.7 | 2.0 | 1.5 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 | 1.6 | |
| 27 | 1.7 | E | 1.6 | 1.8 | 1.6 | E | 1.7 | 1.5 | 1.7 | 1.6 | 1.6 | 1.9 | 2.2 | 1.7 | 1.7 | 1.5 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | |
| 28 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.8 | 1.8 | 1.6 | 2.2 | 1.8 | 2.2 | 1.6 | 1.6 | 1.6 | 1.7 | 1.6 | 1.5 | 1.5 | 1.5 | |
| 29 | 1.5 | E | 1.7 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.7 | 1.6 | 1.8 | 1.6 | 2.0 | 1.8 | 1.8 | 1.8 | 1.6 | 1.6 | 1.3 | 1.5 | 1.6 | 1.6 | 1.4 | |
| 30 | 1.5F | 1.4 | E | E | E | 1.3 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | 1.6 | 1.6 | 1.6 | 1.7 | 1.6 | 1.7 | 1.7 | 1.7 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | |
| 31 | 1.5 | 1.5 | E | E | E | 1.6 | 1.5 | 1.6 | 1.6 | 1.6 | 1.5 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.4 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 | |
| Mean Value | 1.6 | 1.5 | 1.6 | 1.5 | 1.5 | 1.6 | 1.5 | 1.5 | 1.5 | 1.6 | 1.6 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.6 | 1.6 | 1.5 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 | |
| Median Value | 1.5 | 1.4 | E | E | E | E | 1.5 | 1.5 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.7 | 1.8 | 1.7 | 1.6 | 1.6 | 1.5 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 | |
| Count | 31 | 31 | 31 | 31 | 31 | 30 | 30 | 31 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 29 | 29 | 29 | 29 | 31 | 31 | 31 | 31 | 31 | |

Manual Automatic

Sweep J... Mc to J7.5 Mc in J1.5 min

Y 11

IONOSPHERIC DATA IN JAPAN FOR MAY 1953

電波觀測報告 第5卷 第5号

1953年6月25日 印刷
1953年6月30日 發行

(不許複製非売品)

編集兼
發行 人

好 川 得 太 郎
東京都北多摩郡小金井町小金井新田一之久保573

發行所

郵 政 省 電 波 研 究 所
東京都北多摩郡小金井町小金井新田一之久保573
電 話 国分寺 138, 139, 151

印刷所

今 井 印 刷 所
東京都新宿区筑土八幡町8番地