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IONOSPHERIC DATA IN JAPAN

FOR MAY 1952

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PREPARED BY THE CENTRAL RADIO WAVE OBSERVATORY
THE RADIO REGULATORY COMMISSION

KOKUBUNJI, TOKYO, JAPAN

CRWO—F 41

THE CENTRAL RADIO WAVE OBSERVATORY
THE RADIO REGULATORY COMMISSION

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PREFACE

The radio administration in Japan has hitherto been carried out by the Radio Regulatory Agency. With the reorganization of part of the government offices effective on June 1, 1950, the Radio Regulatory Commission was established and the work of researches on radio propagation has become to fall under the charge of the radio wave observatories, auxiliary organs of the Radio Regulatory Commission.

The radio wave observatories are composed of the Central Radio Wave Observatory located at Kokubunji, Tokyo, and five local radio wave observatories established at Wakkanai, Akita, Hiraiso, Inubo and Yamagawa respectively.

The Central Radio Wave Observatory has the following four 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;

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, and physical basic studies of wave propagation in general; and

Administrative Section which shall conduct the general affairs of the observatory.

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 Radio Regulatory Agency 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.

Uyeda Hiroyuki
Chief, Central Radio Wave Observatory,
Radio Regulatory Commission

June, 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° 08.2' 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° 23.8' N
Long. 141° 41.1' E

Wakanaï

IONOSPHERIC DATA

135° E Mean Time

foF2

May, 1952

| 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 K | 3.8 F | 2.8 K | 2.9 K | (4.0)P | 3.4 K | 4.6 K | B K | A K | A K | B K | 5.5 K | 6.5 K | 4.2 K | 4.2 K | 6.3 K | 6.5 | 5.8 | 5.5 | 5.5 | 5.8 | (5.0)P | 3.5 | 4.1 | |
| 2 | 4.4 | 4.3 | 3.8 | 4.4 | (4.0)P | (4.0)P | 5.8 | 5.9 | 5.3 | 6.1 | B | B | (4.8)P | 6.3 P | 6.3 P | B | 6.3 P | 6.0 K | 5.3 P | 5.3 P | 5.3 P | 4.5 S | 5.1 P | 5.1 P | |
| 3 | 4.0 K | S | S | S | 3.5 K | A K | 3.8 K | A K | A K | A K | 5.8 K | 5.4 K | 6.0 K | 6.2 K | 6.6 K | 6.6 K | (6.7)P | 6.8 P | 6.0 K | 5.4 | 5.8 | S K | S K | 5.3 P | |
| 4 | 4.8 P | S | S | 4.3 K | 4.4 K | 4.7 K | 4.9 K | 4.9 K | 5.4 K | 5.4 K | 5.6 K | 5.6 K | 5.4 K | 5.4 K | 5.4 K | 5.4 K | 5.4 K | 5.4 K | 5.4 K | 5.4 K | 5.4 K | 5.4 K | 5.4 K | 5.4 K | 5.4 K |
| 5 | S K | S K | 4.0 | 4.0 | 3.2 K | A K | 4.4 K | B K | B K | 5.2 K | 5.3 K | 5.6 K | 5.8 K | 6.0 K | 6.3 K | B K | 6.0 K | 6.3 K | 6.3 K | 6.0 K | 6.0 K | 5.3 K | 5.3 K | 5.3 K | |
| 6 | S | S | S | 4.3 K | (4.6)P | 5.0 P | 4.0 K | 4.9 K | 4.9 K | 6.1 K | 5.0 K | 5.0 K | 5.8 K | 6.0 K | 6.3 K | 6.3 K | 6.4 | 6.2 | 6.2 | 6.2 | 6.0 K | 6.0 K | 6.0 K | 6.0 K | |
| 7 | S | S | S | S | S | S | B | B | A | 6.1 | B | C | B | 6.5 | 6.3 | 6.4 | 6.4 | C | C | (3.8)P | S | S | (4.3)P | C | |
| 8 | C | C | C | C | C | C | C | C | C | C | C | C | C | A | A | B | C | C | C | S | S | S | S | S | |
| 9 | C | C | C | C | C | C | C | C | C | 5.8 | (5.4)C | 5.1 | C | C | C | 6.2 | 6.4 | 6.4 | 6.3 S | 6.3 S | 6.3 S | 6.3 S | 6.3 S | 6.3 S | |
| 10 | S | S | S | S | S | 4.2 | 4.6 | A | 5.7 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 11 | C | C | C | C | C | 4.4 | 5.0 | 4.9 | 5.6 | C | C | C | C | C | C | C | C | C | C | 6.2 | 6.3 P | 5.8 P | S | S | |
| 12 | C | C | C | C | C | 4.4 | 5.0 | 5.1 | 5.0 | C | C | C | C | C | C | C | C | C | C | 5.5 | 4.0 | 4.0 | S | S | |
| 13 | 4.5 | S | S | S | S | S | B | B | B | 6.1 | B | B | 5.0 | 5.8 | (5.7)C | 5.6 | 5.0 | 5.0 | (5.7)P | 5.9 | S | S | S | S | |
| 14 | S | 5.0 | 4.8 P | 4.6 P | (4.5)S | (4.4)P | C | C | B | A | B | A | A | A | B | A | C | A | A | A | A | A | A | A | |
| 15 | A | 4.5 H | 3.4 | 3.8 | 4.2 | 5.0 | 4.2 | A | A | A | A | A | C | B | 6.0 | (5.9)C | 5.0 | 5.0 | S | S | S | 5.3 | (5.2)S | 5.2 P | |
| 16 | (4.1)S | 4.5 | 4.8 | 4.5 | 4.5 | 4.3 | 5.3 | 5.0 | A | B | 5.4 | 5.8 | 5.5 | 6.0 | 5.9 | 6.2 | 6.1 | 5.8 | 5.5 | 5.5 | 5.5 | 5.3 | S | 6.5 | |
| 17 | 5.4 F | 5.0 | 5.0 | 4.8 | 4.6 | 5.3 P | 5.1 | 5.0 | 5.3 | 5.6 | 5.2 | 5.7 | 5.4 | A | 5.4 | A | 5.6 | B | A | A | A | A | A | A | |
| 18 | S | 4.8 | 4.5 | 4.0 | S | B F | 5.1 | 4.8 | 4.8 | A | A | 5.7 | 6.0 | A | 6.0 | 6.3 P | 6.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | |
| 19 | 5.1 | A | 4.3 H | 3.9 | 4.5 | 5.1 | 4.8 | A | A | A | B | 6.4 | 6.0 | 5.6 | 5.6 | A | A | A | A | A | A | A | A | A | |
| 20 | 4.3 K | 4.2 K | A K | 4.2 K | 4.7 K | 4.6 K | (4.9)C | 5.2 K | A K | A K | A K | A K | A K | A K | A K | B K | 6.0 | 6.0 | (5.2)C | 5.2 K | A K | A K | A K | A K | |
| 21 | 4.6 K | 4.7 K | (4.2)S | 3.6 K | 4.4 K | 5.5 K | B K | B K | 5.6 P | A K | 5.0 K | 5.0 K | 5.0 K | B K | B K | 4.2 K | A K | A K | 5.8 K | 5.8 K | S K | S K | S K | S K | |
| 22 | 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 | B K | C | C | C | C | C | C | C | C | |
| 23 | 5.0 F | 4.7 F | 4.2 F | 4.9 F | 5.0 | 4.8 | 5.3 | A | 5.3 | 5.9 | A | A | A | A | A | 5.0 | 5.9 | 5.8 | 5.9 | 6.8 P | 6.8 P | 6.1 | A | 5.9 | |
| 24 | 5.2 | 4.9 | 5.2 | 5.0 | 4.4 | 6.0 | 6.1 | 6.1 | A | C | 5.4 | 5.6 | 5.8 | C | A | B | 5.9 | 6.0 | 6.0 | 6.1 | 5.9 | 5.9 | A | A | |
| 25 | A | S | 5.0 P | 4.7 | C | C | 5.7 | 5.5 | A | C | C | C | C | C | C | C | C | C | C | C | C | C | (5.9)P | 5.9 | |
| 26 | 5.3 P | S | 4.0 | S | C | C | C | 5.7 | 5.1 | C | C | C | C | C | C | C | 6.3 | 6.3 | 6.2 P | S | A | C | C | C | |
| 27 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | 5.9 | A | A | A | A | 4.6 | S | S | S | S | |
| 28 | S | C | C | (3.4)S | S | 4.2 | A | A | A | 5.0 | 5.7 P | 5.6 | B | B | 6.8 | T | A | A | 6.3 | (5.8)P | C | S | S | 5.7 S | |
| 29 | 5.1 P | S | (3.0)P | S | (4.6)P | S | A | O | C | A | A | 5.1 | A | A | A | 5.6 | 5.0 | 5.1 | S | S | (4.4)P | S | S | S | |
| 30 | C | C | C | C | C | C | C | C | C | A | B | 5.4 | A | B | 6.0 | B | 5.9 P | 6.0 | 5.7 | S | S | S | S | S | |
| 31 | S | S | S | S | S | 5.0 | C | C | C | 6.4 | (6.2)C | 6.1 | 6.0 | 6.3 | 6.6 P | (6.7)P | 6.4 P | (6.3)P | S | S | (5.9)P | S | (5.7)P | 5.5 | |
| Mean Value | 4.8 | 4.6 | 4.3 | 4.2 | 4.3 | 4.7 | 4.9 | 5.3 | 5.8 | 5.5 | 5.7 | 5.5 | 6.2 | 6.1 | 5.8 | 6.0 | 6.0 | 5.8 | 5.8 | 5.5 | 5.5 | 5.3 | 5.4 | 5.1 | 5.2 |
| Median Value | 4.8 | 4.7 | 4.2 | 4.3 | 4.4 | 4.7 | 4.9 | 5.2 | 5.3 | 6.0 | 5.4 | 5.6 | 6.0 | 6.1 | 6.2 | 6.0 | 6.0 | 5.8 | 5.8 | 5.5 | 5.5 | 5.8 | 5.3 | 5.5 | 5.2 |
| Count | 13 | 11 | 16 | 17 | 16 | 17 | 17 | 9 | 10 | 10 | 9 | 12 | 11 | 9 | 16 | 15 | 20 | 18 | 17 | 17 | 13 | 7 | 9 | 12 | |

Sweep - 1.2 Mc to 1.7.0 Mc in 2 min

Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

Wakkanai

Lat. 46° 23.6' N
Long. 141° 41.1' E

May, 1952

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 | S K | (420)F | 42K | 420K | (450)P | 390K | 390K | B K | B K | A K | A K | B K | 500K | U K | 370K | 370K | 320 | 330 | 370 | 350 | 370 | (370)P | 330 | 360 | |
| 2 | 420 | 350 | 370 | 420S | (360)P | 370 | 300 | A K | A K | 370 | 320 | B | B | U | 350P | 370K | (410)T | B | (240)T | S | S | (370)T | (320)T | 360 | |
| 3 | A | S | S | 420S | 420K | 340K | 320K | A K | A K | A K | B K | U K | U K | U K | 400K | 380K | (360)P | (330)P | 370K | S K | S K | S K | S K | (350)S | |
| 4 | (370)S | S K | S K | S K | 330K | 340K | 320K | W K | G K | C K | C K | B K | C K | C K | C K | C K | C K | 400K | 390K | 360K | 340 | 410 | C | C | C |
| 5 | C | C | 360 | 360 | 400K | A K | U K | B K | B K | U K | U K | U K | U K | 410K | 400K | B K | 390K | 320K | 330K | 330K | 340K | 340K | C | C | C |
| 6 | S K | S K | S K | 360 | (350)T | 300K | A K | U K | U K | 390K | B K | W K | B K | B K | U K | 380K | 380 | 340 | 330 | S | S | 320 | S | S | S |
| 7 | S | S | S | S | S | S | B | B | A | A | B | C | B | B K | 410 | 380 | 340 | C | C | C | (330)P | S | (370)P | C | |
| 8 | C | C | C | C | C | C | C | C | C | C | C | C | C | A | A | B | C | C | C | S | S | 440 | C | C | C |
| 9 | C | C | C | C | C | C | C | C | C | U | C | U | C | C | C | 350 | 320 | S | 340 | 340 | 340 | S | S | S | S |
| 10 | S | S | 410 | S | S | 320 | 310 | U | 360 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 11 | C | C | C | C | C | C | C | U | 350 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 12 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | 310 | 320 | (320)P | S | S | S | S |
| 13 | 400 | S | S | S | S | S | B | B | (410)B | B | B | B | U | U | C | C | C | C | 350 | 350 | 370 | S | S | S | C |
| 14 | S | S | (320)F | (310)S | (300)S | (280)P | C | C | C | C | B | C | U | U | C | C | C | C | 360 | 360 | 360 | S | S | S | C |
| 15 | A | 390H | 410 | 360 | 320 | 310 | B | A | A | A | B | A | C | B | A | A | C | A | A | A | A | A | A | A | A |
| 16 | (370)S | 360 | 330 | 360 | 330 | 290 | 300 | 340 | A | A | A | A | C | B | 390 | (370)C | 370 | 360 | S | S | S | S | 340 | (340)S | 350 |
| 17 | (370)P | 380 | 410 | 350 | 370 | (310)T | 330 | A | U | D | U | U | U | U | 430 | 380 | 390 | 330 | A | A | A | A | S | S | 320 |
| 18 | S | 370 | 340 | 360 | S | B F | 270 | 300 | 320 | A | U | U | U | A | U | A | A | B | A | A | A | A | A | A | A |
| 19 | 350 | A | 410H | 410 | 430 | 360 | 330 | 300 | 320 | A | B | A | A | A | 390 | 350 | 390 | 380 | S | S | S | S | S | S | S |
| 20 | (350)K | (360)T | A K | 340K | 400K | A K | C K | 320K | A K | A K | A K | A K | A | 400 | U | A | A | A | A | A | A | A | A | A | A |
| 21 | 350K | 340K | (340)S | 340K | 310K | 300K | B K | B K | (500)P | A K | A K | U K | U K | A K | B K | 400 | 400 | U | C | C | C | C | C | C | C |
| 22 | 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 | C K |
| 23 | 420F | 390F | 370F | 360F | 320 | 330 | 350 | A | A | 410 | A | A | A | B | A | U | 370 | 360 | 340 | (340)P | 320 | 320 | A | 360 | A F |
| 24 | 360 | 400 | 400 | 400 | 330 | 320 | 300 | 320 | A | C | A | U | U | C | A | B | 350 | 320 | 370 | 310 | 310 | S | A | A | A |
| 25 | A | S | (400)T | 320 | C | C | 320 | A | A | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 26 | S | S | S | S | C | C | C | 320 | A | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 27 | C | C | C | C | C | C | C | C | C | A | C | C | C | C | 380 | A | A | A | A | A | A | A | A | A | A |
| 28 | S | C | C | (380)S | S | 400 | A | A | A | A | A | B | B | B | 290 | T | A | A | (370)S | S | S | S | S | S | |
| 29 | (320)T | S | (380)P | S | (330)P | S | A | C | C | A | A | A | U | A | A | U | 500 | 410 | S | (370)S | S | S | S | S | |
| 30 | C | C | C | C | C | C | C | C | C | A | B | U | A | B | U | B | 350P | 390 | 350 | S | S | S | S | S | |
| 31 | S | S | S | S | S | S | C | C | C | 350 | C | U | U | U | 370 | 360P | (370)P | 350P | (350)P | S | S | S | S | S | |
| Mean Value | 370 | 380 | 380 | 370 | 360 | 340 | 330 | 320 | 380 | 390 | 320 | — | 500 | 380 | 380 | 380 | 380 | 380 | 350 | 340 | 340 | 340 | 340 | 340 | 350 |
| Median Value | 370 | 380 | 400 | 360 | 340 | 320 | 320 | 360 | 390 | 320 | — | — | 500 | 380 | 390 | 380 | 380 | 380 | 350 | 340 | 340 | 340 | 340 | 340 | 350 |
| Count | 11 | 10 | 16 | 16 | 16 | 14 | 6 | 5 | 5 | 1 | — | — | 2 | 4 | 11 | 11 | 19 | 17 | 16 | 16 | 11 | 5 | 7 | 11 | |

f_oF₂

Lat. 45° 23.6' N
Long. 141° 41.1' E

Wakanai

IONOSPHERIC DATA

135° E Mean Time

RF2

May, 1952

| 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 K 360K | A K 370 | A K 380K | A K 390K | A K 400K | 380K | B K 390K | B K 400K | A K 410K | A K 420K | A K 430K | B K 440K | 500K | 400K | 370K | 370K | 320 | 280 | 300 | 300 | 320 | 320 | 300 | 310 |
| 2 | 330 | 300 | 350 | 300 | 370 | 320 | 380 | 350 | 300 | 370 | 320 | 380 | 400 | 420K | 400K | 370K | 350K | 310K | 300K | 290 | S | 300A | 350 | 300 |
| 3 | A | A | 360 | 300K | A K 380K | W K 390K | W K 400K | W K 410K | W K 420K | C K 430K | C K 440K | C K 450K | C K 460K | C K 470K | C K 480K | C K 490K | 400K | 350K | A | 300 | 400 | C | 300K | 360K |
| 4 | 310K | S K 320 | S K 330 | 360K | 300K | 380K | 460K | 480K | 470K | 490K | 480K | 460K | 440K | 410K | 400K | 320K | 380K | 310K | 360K | 300K | 310K | 300K | 310K | S K |
| 5 | C | C | S K 300 | 320K | 330K | A K 340K | 460K | 450K | 450K | 390K | 400K | W K 410K | 380K | 350K | 310K | 380K | L | 330 | 320 | 280 | 300 | 300 | S | S |
| 6 | S K 300 | S K 310 | S K 320 | S K 330 | S K 340 | S K 350 | S K 360 | S K 370 | S K 380 | S K 390 | S K 400 | S K 410 | S K 420 | S K 430 | S K 440 | S K 450 | S K 460 | S K 470 | S K 480 | S K 490 | S K 500 | S K 510 | S K 520 | S K 530 |
| 7 | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| 8 | C | C | C | C | C | C | C | C | C | 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 | 310 | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| 11 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 12 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 13 | 340 | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| 14 | S | A | 320S | 300 | 350 | 300 | 320 | 340 | 370 | 350 | 380 | 400 | 420 | 440 | 460 | 480 | 500 | 520 | 540 | 560 | 580 | 600 | 620 | 640 |
| 15 | A | AH | 400 | 350 | 300 | 320 | 340 | 360 | 380 | 400 | 420 | 440 | 460 | 480 | 500 | 520 | 540 | 560 | 580 | 600 | 620 | 640 | 660 | 680 |
| 16 | 320 | 300 | 330 | 300 | 320 | 340 | 360 | 380 | 400 | 420 | 440 | 460 | 480 | 500 | 520 | 540 | 560 | 580 | 600 | 620 | 640 | 660 | 680 | 700 |
| 17 | 320 | 320 | 330 | 300 | 320 | 340 | 360 | 380 | 400 | 420 | 440 | 460 | 480 | 500 | 520 | 540 | 560 | 580 | 600 | 620 | 640 | 660 | 680 | 700 |
| 18 | 300 | 300 | 300 | 320 | 340 | 360 | 380 | 400 | 420 | 440 | 460 | 480 | 500 | 520 | 540 | 560 | 580 | 600 | 620 | 640 | 660 | 680 | 700 | 720 |
| 19 | 290 | A | 320H | 380 | 400 | 420 | 440 | 460 | 480 | 500 | 520 | 540 | 560 | 580 | 600 | 620 | 640 | 660 | 680 | 700 | 720 | 740 | 760 | 780 |
| 20 | 320K | 320K | A K 330K | A K 340K | A K 350K | A K 360K | A K 370K | A K 380K | A K 390K | A K 400K | A K 410K | A K 420K | A K 430K | A K 440K | A K 450K | A K 460K | A K 470K | A K 480K | A K 490K | A K 500K | A K 510K | A K 520K | A K 530K | A K 540K |
| 21 | 320K | 320K | [310K] | 300K | 300K | 300K | 300K | 300K | 300K | 300K | 300K | 300K | 300K | 300K | 300K | 300K | 300K | 300K | 300K | 300K | 300K | 300K | 300K | 300K |
| 22 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 23 | AF | 310F | 300 | 320 | 300 | 320 | 340 | 360 | 380 | 400 | 420 | 440 | 460 | 480 | 500 | 520 | 540 | 560 | 580 | 600 | 620 | 640 | 660 | 680 |
| 24 | 300 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 |
| 25 | A | 320 | 320 | 300 | C | 320C | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 |
| 26 | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| 27 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 28 | S | C | C | C | S | 460 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| 29 | 300 | A | 340 | 320 | 320 | S | A | C | C | A | B | 350 | A | B | 420 | B | 350 | 380 | 410 | 320 | A | S | S | |
| 30 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 31 | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| Mean Value | 310 | 320 | 320 | 320 | 320 | 310 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 |
| Minimum Value | 320 | 320 | 320 | 320 | 320 | 310 | 320 | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 |
| Count | 12 | 10 | 15 | 19 | 18 | 17 | 16 | 8 | 6 | 8 | 6 | 11 | 12 | 11 | 16 | 15 | 17 | 20 | 21 | 22 | 17 | 12 | 15 | 14 |

Sweep 1.0 Mc to 1.1 Mc in 2 min Manual Automatic

W 3

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 45° 23.6' N
Long. 141° 41.1' E

IONOSPHERIC DATA

Wakanai

May. 1952

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 | | | | | | A | A | A | 44 | A | B | B | 45 | 47 | 46 | 45 | 40 | Q | | | | | | | |
| 2 | | | | | | 3.9 | Q | A | A | 43 | 47 | B | B | B | Q | B | 3.9 | Q | | | | | | | |
| 3 | | | | | | Q | A | A | A | A | 4.2 | 4.5 | 4.7 | B | 4.4 | 4.5 | A | A | | | | | | | |
| 4 | | | | | | Q | 41 | C | 42 | C | C | B | C | C | C | C | 40 | 3.7 | | | | | | | |
| 5 | | | | | | 3.8 | B | B | B | 44 | B | 4.4P | 4.5 | B | B | B | 4.3 | 3.9 | 3.8 | | | | | | |
| 6 | | | | | | Q | A | A | 43 | B | A | 40 | 4.5B | B | 4.5 | 4.2 | L | B | | | | | | | |
| 7 | | | | | | B | B | A | A | A | 5.1 | C | 4.8 | 4.7 | L | 4.5 | Q | C | | | | | | | |
| 8 | | | | | | C | C | C | C | C | C | C | C | A | A | B | C | C | | | | | | | |
| 9 | | | | | | C | C | C | C | A | C | 4.5 | C | C | C | 4.3 | 3.8 | Q | | | | | | | |
| 10 | | | | | | B | A | 40 | C | C | C | C | C | C | C | C | C | C | | | | | | | |
| 11 | | | | | | 3.2 | 3.8 | B | C | C | C | C | C | C | C | C | C | L | | | | | | | |
| 12 | | | | | | C | C | A | C | C | C | 4.3P | C | C | C | C | C | C | | | | | | | |
| 13 | | | | | | B | A | A | A | 43 | 4.3 | 4.4 | B | 4.3 | [4.1]C | 3.9 | A | Q | | | | | | | |
| 14 | | | | | | C | C | C | A | A | B | 4.3 | C | A | A | A | C | A | | | | | | | |
| 15 | | | | | | B | A | A | A | A | A | A | C | B | 4.2 | [4.1]C | 4.0 | A | | | | | | | |
| 16 | | | | | | 3.8 | A | A | A | A | 4.3 | 4.5 | 4.8 | 4.5 | 4.2 | B | 4.0 | (3.6)P | | | | | | | |
| 17 | | | | | | Q | A | A | A | A | 44 | 4.3 | A | A | 4.4P | A | A | A | | | | | | | |
| 18 | | | | | | Q | Q | Q | Q | A | B | A | A | A | A | A | A | A | | | | | | | |
| 19 | | | | | | Q | A | A | A | A | B | A | A | A | A | A | A | A | | | | | | | |
| 20 | | | | | | C | Q | A | A | A | A | A | A | A | A | B | 4.0 | 3.9 | | | | | | | |
| 21 | | | | | | B | A | B | A | A | A | A | A | A | B | A | A | A | | | | | | | |
| 22 | | | | | | C | C | C | C | C | C | C | C | C | C | B | C | C | | | | | | | |
| 23 | | | | | | A | A | A | A | A | A | A | A | A | A | A | 3.6 | B | | | | | | | |
| 24 | | | | | | L | 3.8 | A | C | A | A | A | 4.5 | C | A | B | A | 3.8 | | | | | | | |
| 25 | | | | | | A | A | A | C | C | C | C | C | C | C | C | C | C | | | | | | | |
| 26 | | | | | | C | 4.0 | A | C | C | C | C | C | C | C | C | B | A | | | | | | | |
| 27 | | | | | | C | C | C | A | C | C | C | C | C | C | A | A | A | | | | | | | |
| 28 | | | | | | A | A | A | A | A | A | B | 4.4 | Q | 4.6 | 4.3 | A | Q | | | | | | | |
| 29 | | | | | | A | C | C | A | A | A | 4.7 | A | A | A | 4.1 | 4.0 | 3.8 | | | | | | | |
| 30 | | | | | | C | C | C | A | B | A | A | A | B | A | B | A | 3.9 | | | | | | | |
| 31 | | | | | | C | C | C | C | 4.5 | C | A | B | 4.5 | 4.5 | 4.1P | B | Q | | | | | | | |
| Mean Value | | | | | | 3.5 | 3.9 | 4.2 | 4.4 | 4.5 | 4.5 | 4.4 | 4.6 | 4.5 | 4.4 | 4.3 | 3.9 | 3.8 | | | | | | | |
| Median Value | | | | | | 3.5 | 4.0 | 4.2 | 4.4 | 4.4 | 4.4 | 4.4 | 4.5 | 4.5 | 4.4 | 4.3 | 4.0 | 3.8 | | | | | | | |
| Count | | | | | | 4 | 5 | 4 | 4 | 4 | 6 | 9 | 9 | 5 | 9 | 11 | 10 | 7 | | | | | | | |

foF1

Sweep 1.0 Mc to 1.7.0 Mc in 2 min

Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 45° 23.6' N
Long. 141° 41.1' E

Wakkanai

IONOSPHERIC DATA

RF1

May. 1952

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|--------------|----|----|----|----|----|-----|-----|-----|-----|-----|------------------|------------------|------------------|-----|-----|-----|-----|------------------|------------------|----|----|----|----|----|
| 1 | | | | | | A | A | A | 300 | A | B | B | 260 | 300 | 300 | 330 | 270 | Q | | | | | | |
| 2 | | | | | | 290 | A | A | A | B | 250 | B | B | B | Q | B | 280 | Q | | | | | | |
| 3 | | | | | | Q | A | A | A | A | 280 | B | B | B | B | B | A | A | | | | | | |
| 4 | | | | | | Q | B | B | B | C | C | B | C | C | C | C | 270 | 310 | | | | | | |
| 5 | | | | | | 300 | 280 | 270 | 270 | B | 250 | A | B | B | B | 280 | 260 | 270 ^B | | | | | | |
| 6 | | | | | | Q | A | A | A | B | A | A | B | B | B | 300 | A | 270 | B | | | | | |
| 7 | | | | | | B | B | A | A | A | B | C | 300 | 280 | B | 300 | Q | C | | | | | | |
| 8 | | | | | | C | C | C | C | C | C | C | B | A | A | B | C | C | | | | | | |
| 9 | | | | | | C | C | C | C | A | C | 200 | C | C | C | B | B | Q | | | | | | |
| 10 | | | | | | B | A | A | A | C | C | C | C | C | C | C | C | C | | | | | | |
| 11 | | | | | | B | B | B | B | C | C | C | C | C | C | C | C | 250 | | | | | | |
| 12 | | | | | | C | C | A | A | C | C | 200 | C | C | C | C | C | C | | | | | | |
| 13 | | | | | | A | A | A | A | A | B | B | B | B | C | 280 | A | Q | | | | | | |
| 14 | | | | | | C | C | A | A | B | 200 | C | A | A | B | A | C | A | | | | | | |
| 15 | | | | | | B | A | A | A | A | A | A | C | B | 220 | C | B | A | | | | | | |
| 16 | | | | | | B | A | A | A | A | 220 | 290 | 280 ^B | 300 | 260 | B | 260 | 290 | | | | | | |
| 17 | | | | | | Q | A | A | A | A | 270 ^A | 230 ^A | A | A | A | A | A | A | | | | | | |
| 18 | | | | | | Q | Q | Q | Q | A | B | A | A | A | A | A | A | A | | | | | | |
| 19 | | | | | | Q | A | A | A | A | B | A | A | A | A | A | A | A | | | | | | |
| 20 | | | | | | C | Q | A | A | A | A | A | A | A | A | B | A | 280 | | | | | | |
| 21 | | | | | | B | A | B | A | A | A | A | A | A | A | B | A | A | | | | | | |
| 22 | | | | | | C | C | C | C | C | C | C | C | C | C | B | C | C | | | | | | |
| 23 | | | | | | 300 | A | A | A | A | A | A | A | B | A | A | 300 | B | | | | | | |
| 24 | | | | | | 270 | 280 | A | A | C | A | A | A | A | C | A | B | A | 290 ^A | | | | | |
| 25 | | | | | | A | A | A | A | C | C | C | C | C | C | C | C | C | | | | | | |
| 26 | | | | | | C | A | A | A | C | C | C | C | C | C | C | C | B | A | | | | | |
| 27 | | | | | | C | C | C | C | A | C | C | C | C | A | A | A | A | | | | | | |
| 28 | | | | | | A | A | A | A | A | A | B | 260 | Q | A | A | A | A | | | | | | |
| 29 | | | | | | A | C | C | C | A | A | A | A | A | A | 280 | 300 | 300 | | | | | | |
| 30 | | | | | | C | C | C | C | A | A | A | A | A | A | B | A | 280 ^B | | | | | | |
| 31 | | | | | | C | C | C | C | 230 | C | A | B | B | A | 300 | B | Q | | | | | | |
| Mean Value | | | | | | 290 | 280 | 290 | 250 | 260 | 230 | 280 | 290 | 270 | 300 | 300 | 280 | 280 | | | | | | |
| Median Value | | | | | | 300 | 280 | 280 | 250 | 260 | 220 | 270 | 300 | 260 | 290 | 270 | 270 | 280 | | | | | | |
| Count | | | | | | 4 | 2 | 2 | 2 | 4 | 6 | 4 | 3 | 5 | 6 | 6 | 8 | 8 | | | | | | |

W 5

Sweep 1.0 Mc to 17.0 Mc in 2 min
 Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 49° 23.6' N
Long. 141° 41.1' E

Wakkanai

IONOSPHERIC DATA

May, 1952

foE

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 | | | | | | | 22 | 28 | 3.0 | A | B | A | 3.1 | 3.3 | 3.0 | 2.8 | 1.9 | | | | | | | |
| 2 | | | | | | | 24 | 29 | 3.0 | B | A | B | B | B | B | B | B | B | | | | | | |
| 3 | | | | | | | B | 3.1 | A | 3.3 | 3.3 | B | B | B | B | B | B | B | | | | | | |
| 4 | | | | | | | 24 | 28 | 3.1 | 3.3 | C | B | C | C | C | C | C | C | | | | | | |
| 5 | | | | | | | 26 | 28B | 3.0B | 3.2 | 3.3 | 3.4 | A | B | B | 3.3 | B | B | | | | | | |
| 6 | | | | | | | B | A | A | B | 3.0 | A | B | B | 3.2J | A | B | B | | | | | | |
| 7 | | | | | | | B | P | A | B | B | C | A | 3.0 | P | 2.8 | B | C | | | | | | |
| 8 | | | | | | | C | C | C | C | C | C | B | A | A | 2.8B | C | C | | | | | | |
| 9 | | | | | | | C | C | C | 3.0 | C | B | C | C | C | B | B | B | | | | | | |
| 10 | | | | | | | B | A | A | C | C | C | C | C | C | C | C | C | | | | | | |
| 11 | | | | | | | P | B | b | C | C | C | C | C | C | C | C | C | | | | | | |
| 12 | | | | | | | C | C | 3.1 | C | C | 3.4 | C | C | C | C | C | C | | | | | | |
| 13 | | | | | | | 22 | 26 | 2.8 | 3.0 | B | B | B | B | C | 3.0 | 2.7 | 2.1J | | | | | | |
| 14 | | | | | | | C | C | 3.1 | A | B | B | C | A | B | A | C | A | | | | | | |
| 15 | | | | | | | B | 2.5 | A | 3.1 | A | A | C | A | 3.0 | C | 2.9 | 2.8 | | | | | | |
| 16 | | | | | | | 2.7 | 2.8 | 3.0 | 3.0 | 3.2 | B | 3.0 | 3.2 | 3.3 | 3.2 | 2.7 | P | | | | | | |
| 17 | | | | | | | 2.6 | 2.7 | 3.1 | 3.2 | 3.1 | 3.1 | 3.0 | A | A | A | A | A | | | | | | |
| 18 | | | | | | | 2.5 | 2.8 | 2.9 | 3.0 | B | A | A | A | A | A | A | A | | | | | | |
| 19 | | | | | | | B | 3.0 | 2.9 | 3.2 | 3.3 | 3.3 | 3.2 | A | 3.5 | 3.2 | 2.9B | 2.4 | | | | | | |
| 20 | | | | | | | C | 2.9 | 3.1 | 3.2 | 3.2 | 3.2 | A | 3.0 | A | A | A | A | | | | | | |
| 21 | | | | | | | B | 2.7B | 3.0 | B | B | 3.3 | A | A | B | 3.0 | 2.7 | 2.5 | | | | | | |
| 22 | | | | | | | C | C | C | C | C | C | C | C | 2.8P | B | C | C | | | | | | |
| 23 | | | | | | | 2.6 | 2.9 | 3.1 | B | B | A | A | B | A | A | A | B | | | | | | |
| 24 | | | | | | | 2.4 | 2.9 | B | C | B | B | C | A | A | B | A | A | | | | | | |
| 25 | | | | | | | A | 2.8 | B | C | C | C | C | C | C | C | C | C | | | | | | |
| 26 | | | | | | | C | 2.6 | A | C | C | C | C | C | C | C | C | C | | | | | | |
| 27 | | | | | | | C | C | C | B | C | C | C | C | C | C | C | 2.8 | A | | | | | |
| 28 | | | | | | | 2.2 | 2.7 | 3.0 | A | A | 3.3 | B | B | A | 3.1 | 2.5 | 2.2 | | | | | | |
| 29 | | | | | | | B | C | C | A | A | A | B | A | A | A | A | S | | | | | | |
| 30 | | | | | | | C | C | C | A | A | A | A | A | 3.0 | 3.0* | 2.8 | 2.3 | | | | | | |
| 31 | | | | | | | C | C | C | 2.8 | C | B | B | A | A | B | A | B | | | | | | |
| Mean Value | | | | | | | 2.4 | 2.8 | 3.0 | 3.1 | 3.2 | 3.3 | 3.1 | 3.1 | 3.1 | 3.0 | 2.8 | 2.3 | | | | | | |
| Minimum Value's | | | | | | | 2.4 | 2.8 | 3.0 | 3.2 | 3.2 | 3.3 | 3.1 | 3.0 | 3.1 | 3.0 | 2.8 | 2.3 | | | | | | |
| Count | | | | | | | 11 | 18 | 15 | 12 | 17 | 7 | 3 | 5 | 8 | 10 | 9 | 9 | | | | | | |

foE

Sweep Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 46° 23.6' N
Long. 141° 41.1' E

Wakkanai

IONOSPHERIC DATA

f'F₂

135° E Mean Time

May. 1952

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

W 7

Sheep 1.0 Mc to 1.7.0 Mc in 2 min Manual Automatic

Lat. 45° 23.6' N
Long. 141° 41.1' E

Wakkanai

IONOSPHERIC DATA

fEs

May, 1952

1355 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 | E | 4.3 | 3.0 | 3.4 | 4.2 | 4.6 | 4.6 | 6.2 | 6.0 | G | 3.6 | G | G | G | G | G | G | E | E | E | E | E | E | |
| 2 | E | 2.8 | 3.4 | 4.4 | E | 3.6 | G | 4.8 | 5.0 | B | B | B | B | B | B | B | B | B | S | S | S | S | S | E | |
| 3 | 5.0 | 3.0 | 3.0 F | E | 3.0 | 4.4 | 3.0 | 6.0 | 6.0 | G | G | B | B | B | B | B | B | 4.7 | 3.6 | 5.0 | S | 3.4 | S | E | |
| 4 | E | S | S | E | E | E | G | G | G | C | C | C | C | C | C | C | C | B | C | 4.0 | C | C | C | C | |
| 5 | C | C | E | E | E | 4.2 | 3.2 | G | 3.5 | G | G | G | 5.5 | G | G | G | G | B | S | 2.3 | E | E | E | S | |
| 6 | S | S | S | E | C | S | B | 5.3 | 4.8 Y | B | 4.0 | B | B | F | G | 3.4 | B | B | S | E | E | E | S | S | |
| 7 | S | S | S | S | S | S | B | B | 6.0 | G | C | 3.8 | G | G | G | G | G | C | C | E | S | S | E | C | |
| 8 | C | C | C | C | C | C | C | C | C | C | C | B | B | 5.4 | 3.8 | 3.8 | C | C | 3.9 | 2.6 | E | C | C | C | |
| 9 | C | C | C | C | C | C | C | C | 4.2 | C | G | C | C | C | C | C | B | C | 2.8 | S | E | E | C | C | |
| 10 | E | S | S | S | E | E | B | 4.8 | 5.1 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 11 | C | C | C | C | C | E | B | B | B | C | C | C | C | C | C | C | C | G | 4.0 | 3.5 | 3.3 | 3.0 | S | S | |
| 12 | C | C | C | C | C | C | C | C | 5.8 | C | C | C | C | C | C | C | C | C | E | E | E | E | E | C | |
| 13 | E | S | S | S | S | S | 3.8 | 4.2 Y | 4.6 Y | 4.0 | B | B | B | G | G | G | G | G | 2.8 | 3.0 | 3.0 | S | S | S | |
| 14 | S | 3.6 | S | 3.0 | C | G | C | 4.9 | 6.0 | B | B | B | C | 6.0 | G | 6.0 | C | 6.0 | 6.5 | 9.0 | 9.2 | 6.0 | 6.0 | 5.0 | |
| 15 | 4.5 | 3.0 | 6.0 | 3.0 | 6.0 | B | 6.0 | 6.0 | 7.0 | 6.0 | 6.0 | 6.1 F | C | 3.8 | G | C | C | 5.0 | 5.6 | 3.8 | 3.0 | E | C | E | |
| 16 | 3.0 | E | E | E | E | S | G | 4.6 | 6.0 | 4.7 | 3.8 | 3.7 | G | G | G | G | G | G | 2.2 | 5.0 | 3.0 | 3.4 | E | 2.6 | |
| 17 | 3.2 | E | E | S | S | E | 3.5 | 5.0 | 5.0 | 7.5 | 4.0 | 3.9 | 5.4 | 5.7 | 5.0 | 6.1 | 5.5 | 4.7 | 7.5 | 8.5 | 8.2 | 7.0 | 4.6 | 5.5 | |
| 18 | 3.8 | E | E | 3.2 | 1.6 | 4.5 F | 4.1 | 5.0 | 4.4 Y | 8.2 | 8.0 | 6.0 | 5.0 | 6.5 | 6.0 | 6.0 | 7.0 | 6.0 | 5.0 | 3.0 | E | E | E | S | |
| 19 | 3.0 | 5.0 | 7.0 | 3.0 | 3.0 | 4.0 | 4.2 | 5.0 | 6.0 | 6.2 | G | 5.8 | 6.6 | 6.2 | 5.2 | 7.8 | 7.2 | 6.2 | 6.7 | 5.0 | 5.0 | 6.2 | S | E | |
| 20 | E | E | 5.2 | 2.8 | 3.0 | 4.5 | C | 5.2 | 6.4 | 8.5 | 5.7 | 6.0 | 6.0 | 5.8 | 4.8 | 3.4 | 4.4 | 3.3 | C | 3.2 | 5.0 | 3.2 | 3.1 | 3.1 | |
| 21 | 2.8 | E | C | E | E | B | B | 4.7 | 3.8 | 8.5 | 8.5 | 5.0 | 5.0 | 4.0 | G | G | 6.0 | 6.5 | 5.0 | 3.0 | S | S | S | S | |
| 22 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | 6.0 | 6.2 | 9.0 | 5.5 F | 5.9 F | |
| 23 | 4.6 | 2.6 | 3.3 | 2.7 | 2.5 | 3.9 | 5.1 | 6.1 | 5.6 | 6.2 | 9.6 | 8.7 | 6.8 | 5.7 | 6.2 | 5.8 | 3.6 | B | 4.8 | C | 5.6 | 4.8 | 6.0 | 2.6.5 | |
| 24 | E | E | E | E | E | 3.0 | 3.1 | G | 6.1 | C | 6.1 | 5.5 | 5.0 | C | 9.0 | B | 5.0 | 5.0 | 5.0 F | 2.0 | 3.8 | 3.0 | 9.0 | 7.5 | |
| 25 | 5.0 | 3.0 | 3.0 | E | C | C | 5.0 | 6.0 | 6.0 | C | C | C | C | C | C | C | C | C | C | C | C | C | S | 1.9 | 2.0.5 |
| 26 | S | S | E | S | C | C | C | 4.6 Y | 5.4 | C | C | C | C | C | C | C | G | 5.0 | 5.8 | 2.5.5 | 5.9 | C | C | C | |
| 27 | C | C | C | C | C | C | C | C | C | 6.9 | C | C | C | C | 5.3 | 12.4 | 9.0 | 9.9 | 6.0 | 3.0 | S | S | S | S | |
| 28 | S | C | C | 1.4 | S | 1.8 | 6.0 | 9.9 | 8.5 | 5.0 | 6.2 | G | B | B | 4.3 | 5.0 | 7.2 | 5.3 | 3.5 | 3.0 | C | 3.0 | 2.8 | 1.6 | |
| 29 | 2.7 | 3.0 | E | E | 2.7 | S | 6.0 | C | 6.8 | 7.1 | 9.5 | 8.7 | 7.4 | 8.8 | 4.0 | G | G | G | 1.8 | E | E | S | S | S | |
| 30 | C | C | C | C | C | C | C | C | 5.5 | 4.0 | 6.8 | 6.0 | 4.5 | 6.0 | B | 5.6 | 5.6 | B | 4.0 | 4.0 | S | S | S | S | |
| 31 | S | S | E | E | E | 3.0 | C | C | G | C | 5.8 | B | G | G | 3.8 | G | G | 3.9 | 3.0 | 3.0 | S | E | S | S | |
| Mean Value | 3.8 | 3.3 | 4.4 | 3.0 | 3.1 | 3.6 | 4.3 | 5.4 | 5.5 | 6.2 | 5.8 | 5.9 | 5.6 | 5.5 | 6.1 | 5.8 | 5.8 | 5.0 | 4.5 | 4.0 | 4.9 | 4.7 | 4.4 | 4.0 | |
| Median Value | 2.9 | 2.6 | E | E | 2.0 | 3.0 | 3.8 | 4.9 | 5.4 | 6.0 | 4.8 | 5.2 | 5.4 | 4.5 | 4.6 | 3.4 | 4.0 | 4.7 | 4.0 | 3.0 | 3.2 | 3.0 | 2.4 | 2.0 | |
| Count | 16 | 15 | 16 | 19 | 16 | 17 | 15 | 20 | 23 | 20 | 18 | 18 | 13 | 17 | 20 | 19 | 20 | 19 | 22 | 26 | 22 | 20 | 17 | 15 | |

fEs

Sweep 1.0 Mc to 17.0 Mc in 2 min

Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 45° 23.6' N
Long. 141° 41.1' E

Wakkanai

IONOSPHERIC DATA

(M3000)F2

May. 1952

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

Sweep 1.0... Mc to 1.7.0 Mc in 2... min Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 45° 23.6' N
Long. 141° 41.1' E

Wakkanai

IONOSPHERIC DATA

May. 1952

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 | S | 1.4 | 2.2A | 2.2A | 2.3A | 2.6 | 3.6A | A | 3.7 | A | A | B | 3.7 | 3.7 | 3.6 | 3.7 | 2.8 | 2.6 | 2.2 | 2.2 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 2 | 1.4 | 2.0A | 3.0A | 2.6A | 2.0 | 2.0A | 3.0 | 3.5 | 4.8A | 4.0 | 4.0 | B | B | 5.0 | 3.8 | B | 2.4 | 3.0 | 4.0S | 3.0S | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 3 | 3.8A | A | A | 2.0 | 2.0A | A | 2.0 | A | A | A | 3.7 | 4.0 | 4.2 | 4.8 | 4.1 | 4.0 | 3.8A | 4.0A | 2.4A | 3.0A | S | 2.8A | 2.2S | 2.0 | |
| 4 | 2.0 | S | S | 2.2 | 2.0 | 2.2 | 2.6 | 3.8 | 4.0 | C | C | B | C | C | C | C | 3.0 | 3.0 | A | 2.2A | 4.0A | C | C | C | |
| 5 | C | C | 1.6 | 1.4 | 1.4 | A | 3.0 | 2.8 | 3.3 | 3.4 | 4.5 | 3.6 | 3.8 | 4.7 | 4.7 | 3.8 | 2.8 | 2.7 | 3.6 | 3.8 | 2.2 | 2.0 | 2.0 | S | |
| 6 | S | S | S | 2.0 | [2.5]S | 3.0 | 2.6 | A | 3.8 | 4.6 | 4.5 | 3.4 | 4.5 | 4.4 | 3.6 | 3.4 | 3.0 | 3.8 | 3.0 | 2.0 | 2.2 | 2.2 | S | S | |
| 7 | S | S | S | S | S | S | B | B | A | 5.3A | 4.7 | C | C | 3.6 | 3.6 | 3.4 | 3.0 | C | C | 2.0 | 2.4 | B | 2.0 | C | |
| 8 | C | C | C | C | C | C | C | C | C | C | C | C | B | A | A | B | C | C | C | 3.5A | 2.2A | C | C | C | |
| 9 | C | C | C | C | C | C | C | C | C | 4.3A | [4.0]C | 3.6 | C | C | C | 3.9 | 3.6 | 2.5 | 3.3 | 2.6 | 2.4 | 2.2 | 2.2 | 2.2 | |
| 10 | 1.6 | S | 4.0S | S | 2.2 | 2.8 | 3.3 | A | 3.8A | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 11 | C | C | C | C | C | 1.5 | 3.0 | 3.5 | 4.5 | C | C | C | C | C | C | C | C | C | C | C | 3.0A | A | S | S | |
| 12 | C | C | C | C | C | C | C | C | A | C | C | 3.6 | C | C | C | C | C | C | C | 2.4 | 3.4A | 2.8 | 3.0A | S | |
| 13 | E | S | S | S | S | S | A | A | A | C | C | 3.6 | C | C | C | C | C | C | C | 2.2 | 2.2 | 1.3 | 1.8 | 1.4 | |
| 14 | S | 4.8S | 3.8S | 3.6 | [3.0]S | 2.3 | C | C | A | 4.0 | 4.0 | 3.9 | 4.5 | 3.8 | [3.5]C | 3.2 | 3.7 | 3.2 | 3.0 | 3.5 | 3.8 | S | S | S | |
| 15 | A | 2.0A | 2.2A | 2.0A | 2.2A | 2.2A | 3.6 | A | A | A | A | C | C | A | B | A | C | A | A | A | A | A | A | A | |
| 16 | 2.1 | 1.7 | 2.0 | 2.0 | 2.0 | 3.1S | 2.8 | 4.0A | A | A | 3.6 | 3.7 | 3.8 | 3.8 | 3.4 | 4.5 | 2.8 | 2.9 | 4.3A | A | 3.6 | 2.2 | [2.2]S | 2.2 | |
| 17 | 2.2A | 2.0 | 2.2 | 2.8S | 3.0S | 2.5 | 3.6 | 4.3A | 4.5A | 4.5A | 3.9 | 3.8 | 4.5A | A | 2.9 | 4.4 | 5.0A | 5.0A | A | A | 2.2A | A | 2.2 | 2.4A | |
| 18 | 2.2A | 1.9 | 2.1 | 2.0 | 2.2 | 2.4 | 2.8 | 2.8 | 4.0A | A | B | 5.0A | 5.0A | A | 4.5A | 5.0A | 4.5A | 3.2A | 3.0A | A | 2.0F | 2.2 | 2.2F | 3.0 | |
| 19 | 2.2A | A | E | 2.2A | 2.4A | 2.6A | 3.2 | A | A | A | B | 6.0A | A | 4.3A | 4.7A | A | A | A | A | A | A | A | S | 1.6 | |
| 20 | 2.0 | 1.2 | A | 2.0 | 3.0A | 4.0A | [3.8]C | 3.6 | A | A | A | A | A | A | A | 4.4 | 4.0A | 2.8 | [2.8]C | 2.9 | A | A | 2.7A | 2.2A | |
| 21 | 2.3A | 2.2 | [2.2]S | 2.2 | 2.2 | 2.7 | B | A | 4.6 | A | A | 4.7A | 4.8A | A | B | 3.6 | A | A | A | 2.6A | S | S | S | S | |
| 22 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | B | 3.9 | C | C | C | C | 4.1FA | A | 4.1FA | 4.4F | |
| 23 | 3.8 | 1.9 | 1.6 | 3.0 | 2.0 | 1.4 | 2.9 | A | 4.7A | 4.4A | A | A | A | B | A | 4.3A | 2.8 | 3.6 | 3.5A | A | 4.4A | 4.5 | A | 4.8S | |
| 24 | 2.0 | 2.0 | 2.0 | 2.0 | 2.2 | 2.4 | 3.3 | 2.9 | A | C | 4.7A | 4.6A | 4.1 | A | A | B | 4.5A | 3.2 | 2.7A | 3.0 | 3.0A | 5.0S | A | A | |
| 25 | A | 2.0 | 2.0 | 2.0 | C | 3.0C | 4.3A | 5.0A | A | C | C | C | C | C | C | C | C | C | C | C | C | S | 1.7 | 4.0S | |
| 26 | 5.5S | S | 1.2 | S | C | C | C | 3.6 | 4.6A | C | C | C | C | C | C | C | 4.6 | 4.5A | 4.0A | S | A | C | C | C | |
| 27 | C | C | C | C | C | C | C | C | C | A | C | C | C | C | 4.2A | A | A | A | A | 2.7A | S | S | S | S | |
| 28 | S | C | C | E | S | 2.2 | A | A | 4.8A | 5.7A | 5.0 | 3.5 | 3.5 | 4.1A | 4.3 | A | E | 3.2A | 3.2 | C | A | 2.7A | 2.3 | | |
| 29 | 1.4 | A | E | 1.4 | 3.4 | S | A | C | A | A | A | 4.5A | A | A | A | 3.6 | 3.0 | 2.8 | 2.7 | 2.6 | 1.7 | S | 1.8 | 1.5 | |
| 30 | C | C | C | C | C | C | C | C | C | A | A | 4.7A | A | A | 4.5 | B | A | 3.2 | 2.2 | A | A | S | S | S | |
| .31 | S | S | E | E | A | 4.0 | C | C | C | 3.6 | [4.0]C | 4.6A | 5.0 | 4.4 | 4.0 | 3.6 | 4.0 | 2.2 | 2.8A | 2.2 | 5.0S | 2.2 | 5.0S | 2.8S | |
| Mean | 2.5 | 2.1 | 2.2 | 2.2 | 2.3 | 2.6 | 3.1 | 3.6 | 4.2 | 4.4 | 4.3 | 4.3 | 4.3 | 4.2 | 3.9 | 4.0 | 3.5 | 3.1 | 3.0 | 2.8 | 2.8 | 2.6 | 2.5 | 2.6 | |
| Median | 2.1 | 2.0 | 2.0 | 2.0 | 2.2 | 2.5 | 3.0 | 3.6 | 4.2 | 4.4 | 4.0 | 4.0 | 4.4 | 4.3 | 3.9 | 3.8 | 3.6 | 3.0 | 3.0 | 2.6 | 2.4 | 2.2 | 2.2 | 2.2 | |
| Count | 15 | 12 | 17 | 20 | 18 | 19 | 17 | 11 | 12 | 10 | 12 | 16 | 14 | 11 | 16 | 17 | 19 | 20 | 21 | 22 | 18 | 12 | 17 | 15 | |

fminF

Sweep 1. D. Mc to 17.0 Mc in 2 min

Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

Lat. 46°28.6' N
Long. 141°41.1' E

Wakkanai

May. 1952

f_{minE}

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 | E | 1.2 | 1.2 | 1.2 | E | 1.4 | 1.4 | 1.4 | 2.7 | 4.6 | 2.2 | 1.4 | 2.8 | 2.4 | 2.4 | 2.4 | 1.4 | E | E | E | E | E | E |
| 2 | E | E | E | E | E | 1.4 | 2.0 | 1.4 | 1.8 | B | 3.0 | B | B | B | B | B | B | B | S | S | S | S | S | E |
| 3 | 2.0 | 1.6 | E | E | E | E | 2.1 | E | E | 2.6 | 2.9 | B | B | B | B | B | 2.8 | 2.6 | 2.2 | 1.4 | S | 2.0 | S | E |
| 4 | E | S | E | E | E | E | 2.3 | 2.2 | 2.2 | 2.6 | C | B | C | C | C | C | B | B | B | 1.8 | 1.7 | C | C | C |
| 5 | C | C | E | E | E | 2.0 | 2.0 | 2.8 | 3.0 | 2.6 | 2.7 | 2.7 | 2.6 | 2.6 | 2.5 | 2.2 | 2.2 | B | S | 2.0 | E | E | E | S |
| 6 | S | S | S | S | C | S | B | 2.8 | 2.2 | B | 2.6 | 2.7 | B | B | 2.6 | 2.2 | B | B | S | E | E | E | 2.2 | S |
| 7 | S | S | S | S | S | S | B | B | E | 3.6 | 2.0 | C | 2.8 | 2.6 | B | 2.1 | 2.0 | C | C | E | S | S | E | C |
| 8 | C | C | C | C | C | C | C | C | C | C | C | C | B | 2.2 | 2.2 | 2.8 | C | C | 2.0 | 1.2 | E | C | C | C |
| 9 | C | C | C | C | C | C | C | C | C | 2.7 | C | 2.6 | C | C | C | C | B | 2.3 | 2.2 | S | E | C | 2.2 | E |
| 10 | E | S | S | S | E | E | B | E | E | C | C | C | C | C | C | C | C | 1.9 | 2.1 | 2.4 | 2.2 | 1.5 | S | S |
| 11 | C | C | C | C | C | C | B | B | C | C | C | 2.6 | C | C | C | C | C | C | E | E | E | E | E | C |
| 12 | C | C | C | C | C | C | C | C | 2.8 | C | B | B | B | 2.7 | (2.2) ^c | 2.0 | 1.8 | 2.2 | 1.8 | 1.8 | 1.9 | S | S | S |
| 13 | E | S | S | S | S | S | E | 2.1 | 2.1 | B | B | B | C | 2.8 | 2.6 | 2.2 | (2.2) ^c | 2.0 | 1.4 | 1.6 | 1.4 | E | 2.0 | E |
| 14 | S | E | S | E | C | E | C | C | 1.3 | 2.0 | B | B | C | 2.7 | 2.2 | (2.2) ^c | 2.1 | 2.0 | 2.0 | 1.7 | 1.9 | E | S | E |
| 15 | E | E | E | E | E | E | B | E | 2.0 | 1.7 | 1.7 | 1.8 ^F | (2.2) ^c | 2.9 | 2.2 | (2.2) ^c | 2.2 | 1.4 | 1.4 | 1.1 | 1.8 | 1.4 | E | 2.2 |
| 16 | 1.7 | E | E | E | E | S | 1.7 | 2.2 | 2.0 | 2.5 | 2.8 | 3.2 | 2.6 | 3.0 | 2.8 | 2.2 | 2.2 | 2.2 | 1.5 | 1.8 | 1.8 | 2.0 | E | 2.0 |
| 17 | 1.4 | E | E | S | S | E | 1.6 | 2.0 | 1.7 | 2.2 | 2.7 | 2.4 | 2.1 | 2.1 | 2.1 | 2.2 | 2.0 | 1.9 | 1.5 | 1.8 | 1.8 | 2.0 | 1.4 | 2.0 |
| 18 | 1.4 | E | E | 1.2 | 1.4 | E | 1.4 | 1.5 | 2.4 | 2.8 | 5.0 | 3.0 | 3.0 | 2.8 | 2.2 | 2.2 | 1.4 | E | E | 1.3 | 1.4 | 2.0 | S | E |
| 19 | E | E | 2.0 | E | E | 2.0 | 2.6 | 2.2 | 2.2 | 2.2 | 2.8 | 2.8 | 2.8 | 2.4 | 2.4 | 2.4 | 2.4 | 2.2 | 2.2 | (1.9) ^c | 1.6 | 2.0 | 2.2 | 2.1 |
| 20 | E | E | 2.2 | 2.2 | 2.2 | 2.0 | (2.2) ^c | 2.5 | 2.4 | 2.4 | 2.7 | 2.6 | 3.3 | 2.4 | 2.8 | 2.4 | 2.4 | 2.2 | 2.0 | 1.8 | S | S | S | S |
| 21 | 2.2 | E | C | E | E | B | B | 2.9 | 2.3 | 3.2 | 3.3 | 2.2 | 2.2 | 2.2 | 2.3 | 2.2 | 2.2 | 2.2 | 2.0 | 1.8 | S | S | S | S |
| 22 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | 2.5 | 2.8 | C | C | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 ^F |
| 23 | 1.2 | 1.2 | 1.5 | 1.2 | E | 1.4 | 1.4 | 1.4 | 3.0 | 1.3 | 3.6 | 2.6 | 2.6 | 4.6 | 2.6 | 2.6 | 2.0 | B | 1.6 | 2.0 | 1.6 | 1.6 | 1.6 | 1.6 |
| 24 | E | E | E | E | E | 1.5 | 1.7 | 2.3 | 1.6 | C | 3.8 | 3.6 | 3.6 | C | 2.0 | B | 1.7 | 2.0 | 1.6 ^F | 1.6 | 2.0 | 2.0 | E | E |
| 25 | E | 2.0 | 2.0 | E | C | C | E | 2.2 | 3.0 | C | C | C | C | C | C | C | C | C | C | C | C | S | 1.4 | 1.3 |
| 26 | S | S | E | S | C | C | C | 2.1 | 2.2 | C | C | C | C | C | C | C | 1.4 | 2.2 | 2.1 | 2.2 | 3.8 | C | C | C |
| 27 | C | C | C | C | C | C | C | C | 3.8 | C | C | C | C | C | 2.4 | 1.6 | 1.4 | 1.3 | E | E | S | S | S | S |
| 28 | S | C | C | E | S | E | E | 1.3 | 1.4 | 3.0 | 2.6 | 2.4 | B | B | 2.6 | 2.6 | 1.8 | 3.6 ^S | 2.2 | 2.3 | C | 1.5 | 1.5 | 1.4 |
| 29 | 1.4 | E | E | E | E | S | 3.2 | C | C | 2.3 | 2.8 | 2.8 | 3.4 | 3.0 | 2.7 | 1.8 | 1.6 | 1.5 | 1.5 | E | E | S | S | S |
| 30 | C | C | C | C | C | C | C | C | C | 3.0 | 2.0 | 2.4 | 2.0 | 2.0 | 1.8 | B | E | B | 2.2 | E | E | S | S | S |
| 31 | S | S | E | E | E | E | C | C | C | 2.6 | (3.0) ^c | 3.4 | B | 1.4 | 1.4 | 1.4 | 1.4 | E | 1.4 | 1.4 | S | E | S | S |
| Mean | 1.6 | 1.6 | 1.8 | 1.5 | 1.6 | 1.7 | 2.0 | 2.0 | 2.1 | 2.0 | 3.0 | 2.7 | 2.6 | 2.6 | 2.4 | 2.2 | 1.9 | 2.0 | 1.8 | 1.7 | 1.9 | 1.8 | 1.8 | 1.7 |
| Median | E | E | E | E | E | E | E | E | 2.1 | 2.6 | 2.8 | 2.6 | 2.6 | 2.7 | 2.4 | 2.2 | 2.0 | 2.0 | 1.7 | 1.5 | 1.4 | E | 1.4 | E |
| Value | 1.6 | 1.5 | 1.6 | 1.9 | 1.6 | 1.7 | 1.6 | 2.0 | 2.3 | 2.1 | 1.9 | 1.8 | 1.4 | 1.7 | 2.1 | 2.0 | 2.1 | 1.9 | 2.4 | 2.7 | 2.2 | 2.0 | 1.7 | 1.5 |
| Count | 16 | 15 | 16 | 19 | 16 | 17 | 16 | 20 | 23 | 21 | 19 | 18 | 14 | 17 | 21 | 20 | 21 | 19 | 24 | 27 | 22 | 20 | 17 | 15 |

Automatic

Manual

Sweep 1.0 Mc to 17.0 Mc in ___ min

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 35° 43.5' N
Long. 140° 08.2' E

IONOSPHERIC DATA

Akita

May. 1952

f_oF₂

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|--------------------|--------------------|------------------|--------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|
| 1 | 3.9 ^K | 4.3 ^K | 3.7 ^K | 3.4 ^K | 3.2 ^K | 4.6 ^K | 4.7 ^K | G ^K | G ^K | 5.1 ^K | A ^K | B ^K | 6.6 | 6.9 | 8.0 | 6.7 | 7.0 | 6.1 | 6.1 | 6.5 | 6.1 | (5.4) ^S | 5.5 | 5.2 | |
| 2 | 4.6 | 4.8 | 4.3 | 4.3 | 4.3 | 5.4 | 6.5 | 6.2 | 5.9 ^H | 6.5 ^J | 6.4 ^J | 6.4 | 6.8 | 8.4 ^H | 9.4 | 8.3 | 7.4 | 7.2 | 5.6 | 6.5 ^P | 6.7 | (7.2) ^P | 6.3 | (6.1) ^S | |
| 3 | (5.4) ^F | 5.7 | 4.8 | 4.9 | 4.4 | 4.7 | 5.0 | 4.8 ^K | 4.8 ^K | A ^K | A ^K | A ^K | 6.1 ^K | A ^K | 7.2 ^K | 8.2 ^K | 7.2 ^K | 6.9 ^K | A ^K | 6.4 ^K | 6.4 ^K | 5.5 ^K | 5.2 ^K | 5.2 ^K | |
| 4 | 5.0 ^K | 4.5 ^K | 4.7 ^K | 4.6 ^K | 4.8 ^K | 4.8 ^K | 4.8 ^K | 4.6 ^K | G ^K | G ^K | 5.8 ^K | 5.7 ^K | A ^K | 5.8 ^K | 6.6 ^K | 6.4 ^K | 5.9 ^K | 5.7 ^K | 5.8 | 6.0 | 5.4 | 5.1 | 6.0 | 5.8 | |
| 5 | 4.5 | 5.2 | 5.0 | 4.2 | 3.6 | 4.5 | 5.3 | 5.3 ^K | 5.5 ^K | 5.6 ^K | 5.6 ^K | 5.4 ^K | 6.9 ^K | 7.9 | 7.8 | 8.2 | 6.6 | 6.7 | 6.4 | 6.4 | 5.7 | 4.6 | 4.3 | 4.1 | |
| 6 | 4.9 | 4.5 | 4.8 | 4.8 | 4.3 | 4.6 | 4.6 | 5.5 | 6.2 | 5.8 | 6.2 | 6.3 | 7.0 | 8.5 | 9.3 | 8.2 | 8.4 | 7.5 | 8.0 | 8.8 | 6.5 | 6.3 | 5.0 | 5.0 | |
| 7 | 4.8 | 4.6 | 4.5 | (4.2) ^S | 3.9 | 5.4 | 6.7 | 6.6 | 5.9 | 6.9 | 6.3 | 7.5 | 8.4 | 8.9 | 8.2 | 7.8 | 7.8 | 7.6 | 8.9 | 9.3 | 7.9 ^J | 9.2 | (7.2) ^J | 7.1 | |
| 8 | 5.0 ^J | A | A | 3.6 ^K | 3.7 ^K | 3.9 ^K | 3.4 ^K | 4.2 ^K | A ^K | A ^K | A ^K | A ^K | A ^K | 5.1 ^K | A ^K | 5.1 ^K | A ^K | 3.9 ^K | 4.2 ^K | 4.2 ^K | 4.8 ^K | 4.8 ^K | 4.7 ^K | 4.4 ^K | |
| 9 | 4.6 | 4.5 | 4.5 | 4.5 | 4.5 | 5.2 | 5.0 | 4.9 | 5.3 | 5.3 | 6.3 | 5.3 | 6.4 | 6.8 | 6.8 | 8.0 | 7.6 ^M | 7.0 | 6.5 | 6.2 | 6.2 | 6.0 | 4.6 | 5.1 | |
| 10 | 4.6 ^F | 5.0 | 4.7 | 4.5 | 4.3 | 4.5 | 5.0 | 6.0 | 5.7 | 5.7 | 5.1 | 6.8 ^J | 7.5 | 7.5 | 7.5 | 7.9 | 7.3 ^J | 7.0 | (7.0) ^J | 7.5 | 7.1 | 7.3 | 6.2 | 5.6 | |
| 11 | 4.7 | 4.7 | 4.6 | 4.3 | 4.2 | 5.4 | 5.5 | 6.4 | 6.0 | 5.9 | 5.5 | 5.8 | 6.2 | 6.8 | 7.8 | 8.4 | 8.3 | 7.2 | 6.1 | 6.4 ^J | 6.6 | 6.3 ^H | 5.9 | 5.4 | |
| 12 | 5.1 | 4.5 | 4.7 | (4.5) ^S | 4.2 | 4.8 | 6.0 | 6.1 | 6.7 | 5.8 | 5.8 | 5.3 | B | 8.0 | 9.1 | 9.1 | B ^S | 5.8 | 5.6 | 6.1 | 5.8 | 5.4 | 5.2 | 5.4 | |
| 13 | 5.3 | 4.9 | 4.6 | 4.4 | 4.5 | 5.0 | 4.9 | 5.2 | 5.1 | 5.3 ^K | 5.2 ^K | 5.4 ^K | 5.3 ^K | 5.6 ^K | 6.6 ^K | 7.2 ^K | 6.9 ^K | 6.8 ^K | 7.0 ^K | 6.8 ^K | 7.0 ^K | 5.6 ^K | 5.0 ^K | 4.7 ^K | |
| 14 | 4.7 ^K | 4.7 ^K | 4.9 ^K | 5.5 ^K | 4.0 ^K | 4.1 ^K | 4.5 ^K | (5.3) ^K | A ^K | 5.7 ^K | B ^K | 5.0 ^K | A ^K | A ^K | A ^K | 6.0 ^K | 6.2 ^K | 5.4 ^K | 5.4 ^K | 5.4 ^K | A ^K | 4.5 ^K | 4.5 ^K | A ^K | |
| 15 | A ^K | (4.0) ^K | 4.1 ^K | 4.6 ^F | 4.1 ^F | 4.9 | 5.0 | 5.1 | 6.0 | A | A | A | A | A | 6.4 | 6.7 | 6.9 | A | A | A | A | 5.4 | 5.4 | 5.4 | |
| 16 | 5.1 | 5.0 | 4.9 | 4.6 ^V | 4.4 | 4.9 | 5.5 | 6.0 | 5.2 | 4.8 | 5.3 | 6.1 | 5.7 | 5.7 | 6.4 | 7.0 | 6.8 ^J | 7.3 | 5.4 | A | A | 6.4 | 6.5 | 6.2 | 6.0 ^F |
| 17 | 5.8 | 5.5 | 5.2 | F | FS | 5.4 | 5.4 | 5.2 | 5.7 | 6.6 | 6.0 | 6.0 | A | A | 6.8 | 7.0 | 7.2 | 7.8 | A | F | A | A | A | A | |
| 18 | A | A | A | 3.8 ^F | 4.8 ^F | 5.1 | A | A | A | A | 6.2 | 6.0 | A | 8.1 | 7.5 | 5.8 | 5.8 | 5.9 | 6.0 | 6.9 | 6.5 | 6.6 | 6.6 | 6.2 ^H | |
| 19 | 4.5 | 5.0 | A | 3.9 ^F | F | 5.3 | 4.3 | A | A | A | A | C | C | 6.3 | 6.1 | 5.3 | 5.8 | 5.9 | 6.0 | 6.6 | 5.8 | 7.5 | 4.5 ^K | 4.4 ^K | |
| 20 | 4.0 ^K | 3.9 ^K | 4.0 ^K | 4.1 ^K | 4.3 ^K | 5.1 ^K | 6.4 ^K | A ^K | A ^K | A ^K | A ^K | A ^K | B ^K | 5.2 ^K | A ^K | 6.0 ^K | 6.2 ^K | 6.0 ^K | 6.1 ^K | 5.9 ^K | A ^K | 4.8 ^K | 5.0 ^K | 5.0 ^K | |
| 21 | 4.2 ^K | 4.4 ^K | 4.5 ^K | 4.5 ^K | 4.3 ^K | 4.1 ^K | 5.9 ^K | 5.1 ^K | 5.1 ^K | 5.3 ^K | 5.2 ^K | 5.5 ^K | 5.3 ^K | 5.4 ^K | 5.7 ^K | 6.0 ^K | 6.0 ^K | A ^K | A ^K | A ^K | 6.5 ^K | 4.8 ^K | 5.0 ^K | 5.0 ^K | |
| 22 | ASF ^K | AF ^K | 4.4 ^K | 3.8 ^K | 3.9 ^K | 4.4 ^K | A ^K | A ^K | A ^K | A ^K | A ^K | 5.0 ^K | 5.2 ^K | 5.3 ^K | 5.3 ^K | A ^K | A ^K | A ^K | A ^K | 7.6 | (7.6) ^F | A | A | 4.7 ^F | |
| 23 | 4.2 ^F | A | 4.5 ^F | 4.1 | 4.0 | 4.7 | 5.6 | 5.9 | 6.5 | A | A | A | 6.2 ^J | 6.2 | (6.1) ^B | A | A | BS | 6.4 | (7.2) ^C | 7.9 | A | A | F | |
| 24 | 5.4 ^F | 4.8 ^F | 4.9 ^F | 4.8 ^F | 4.6 ^F | 5.6 | 6.2 ^J | 5.8 | B | A | A | A | 6.1 | 6.7 ^J | 6.2 | 6.4 | 6.9 | 7.4 | 7.2 | (6.7) ^F | 6.2 ^F | 5.5 ^F | A | A | |
| 25 | A | FS | 5.0 | 4.7 | 4.7 ^V | 5.1 | 6.0 | B | 5.6 | A | 5.1 | 5.7 | 6.3 | 7.0 | 7.8 | 7.5 | 6.9 | 5.6 | 5.8 | 6.6 | 7.1 | 6.7 | 6.7 ^J | 6.0 ^P | |
| 26 | 5.6 | 5.1 | 4.8 | 4.7 | 4.7 | 5.7 | 6.2 | A | 6.3 ^J | A | A | 6.2 ^J | 6.4 ^J | 5.8 | A | A | A | A | A | A | A | A | A | A | |
| 27 | A | A | 5.1 ^F | 5.1 ^F | 4.5 ^F | 4.6 | 6.5 | A | A | 5.7 | A | 6.2 ^J | 6.8 | A | 8.5 | 7.1 | C | C | 5.8 | 6.9 | 5.3 | 5.0 | 5.3 ^B | 4.8 | |
| 28 | 5.1 ^B | 4.8 ^F | 4.9 ^F | A | A | A | 5.8 ^F | A | A | A | 6.6 | 6.4 | 5.6 | A | 7.1 | 7.8 | A | A | 6.4 | 6.8 | 6.6 | 6.6 | 6.0 | 5.9 | |
| 29 | A | 6.5 ^F | 5.4 ^F | 4.6 ^F | 5.3 ^F | 4.8 ^F | A | A | A | 5.9 | A | A | A | A | A | A | A | A | 5.0 | 6.0 | 6.3 ^F | 6.6 | 6.0 | 5.9 | |
| 30 | B | 4.7 | 4.6 | 3.8 | 3.8 | 4.8 | 6.0 | 6.5 | A | A | A | A | 7.6 | 7.3 | 7.2 | 7.3 | 7.2 | 7.2 | 6.5 | 6.6 | 6.2 ^S | 7.7 ^F | 7.7 ^F | 7.6 ^F | |
| 31 | 6.6 ^F | 6.0 ^F | 4.7 | 5.5 | 4.0 | 4.5 | 6.3 | 7.5 | 7.1 | 6.2 | 6.3 ^J | 6.1 ^J | 6.4 | 6.7 | 8.0 | 8.7 | 8.1 | 8.4 | A | A | A | 6.2 | 5.3 | 5.5 ^S | |
| Mean Value | 4.9 | 4.9 | 4.7 | 4.6 | 4.4 | 4.9 | 5.5 | 5.6 | 5.8 | 5.8 | 5.8 | 5.8 | 6.3 | 6.8 | 7.2 | 7.2 | 7.1 | 6.5 | 6.3 | 6.8 | 6.5 | 6.1 | 5.3 | 5.4 | |
| Median Value | 4.8 | 4.8 | 4.7 | 4.5 | 4.3 | 4.8 | 5.5 | 5.4 | 5.7 | 5.7 | 5.8 | 5.8 | 6.4 | 6.7 | 7.2 | 7.4 | 7.0 | 6.8 | 6.1 | 6.6 | 6.5 | 6.1 | 5.4 | 5.4 | |
| Count | 24 | 25 | 28 | 29 | 28 | 30 | 29 | 22 | 20 | 18 | 17 | 21 | 20 | 23 | 25 | 26 | 23 | 24 | 25 | 24 | 23 | 22 | 24 | 24 | |

Automatic Manual

Sweep 1.0 Mc to 17.0 Mc in 1.5 min

f_oF₂

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 39° 48.5' N
Long. 140° 08.9' E

Akita

IONOSPHERIC DATA

135° E Mean Time

$f_p F_2$

May-1952

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|--------------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|
| 1 | 320 ^K | 320 ^F | 350 ^K | 340 ^K | 310 ^K | 310 ^K | 290 ^K | G ^K | G ^K | A ^K | A ^K | B ^K | 360 | 350 | 270 | 260 | 270 | 260 | 300 | 300 | 310 | (350) ^K | 350 | 310 | |
| 2 | 360 | 340 | 340 | 350 | 310 | 310 | 310 | 290 | 280 ^M | (300) ^F | (310) ^F | 320 | 370 | 350 ^M | 310 | 290 | 280 | 280 | 290 | 340 | 350 | (330) ^F | 370 | (340) ^F | |
| 3 | (370) ^F | 370 | 350 | 350 | 330 ^K | 330 ^K | 300 ^K | U ^K | U ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | 350 ^K | 300 ^K | 290 ^K | A ^K | 310 ^K | 320 ^K | 350 ^K | 310 ^K | 300 ^K | |
| 4 | 330 ^K | 340 ^K | 370 ^K | 370 ^K | 320 ^K | 290 ^K | 290 ^K | 240 ^K | G ^K | G ^K | U ^K | U ^K | A ^K | A ^K | A ^K | 340 ^K | 300 | 310 | 330 | 310 | 300 | 310 | 330 | 360 | |
| 5 | 350 | 330 | 310 | 340 | 320 | 290 | 280 | 380 ^K | 300 ^K | U ^K | U ^K | U ^K | 390 ^K | 330 | 300 | 300 | 280 | 300 | 280 | A | 280 | 290 | 300 | 270 | 310 |
| 6 | 340 | 330 | 350 | 340 | 340 | 290 | 280 | 290 | A | A | 300 | 330 | 360 | 320 | 310 | 310 | 300 | 280 | 310 | 300 | 300 | 290 | 350 | 320 | |
| 7 | 340 | 330 | 290 | (310) ^F | 330 | 260 | 240 | 250 | 270 | U | 300 | 320 | 310 | 300 | 300 | 300 | 310 | 300 | 350 | 320 | (300) ^F | 290 | (350) ^F | 320 | |
| 8 | A | A | A | 410 ^K | 410 ^K | 350 ^K | (330) ^F | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | U ^K | A ^K | 270 ^K | U ^K | A ^K | A ^K | 310 ^K | 350 ^K | 370 ^K | |
| 9 | 380 | 370 | 350 | 320 | 300 | 240 | 220 | U | 290 | U | U | U | U | 340 | 310 | 300 | (290) ^F | 300 | 260 | 310 | 310 | 290 | 310 | 340 | |
| 10 | (310) ^F | 350 | 340 | 320 | 310 | 260 | 280 | 260 | 300 | U | U | U | (330) ^F | 300 | A | 310 | (270) ^F | 290 | (310) ^F | 310 | 290 | 280 | 300 | 300 | |
| 11 | 340 | 370 | 340 | 340 | 330 | 270 | 270 | 270 | 260 | 260 | U | U | U | 340 | 310 | 300 | 290 | 250 | (300) ^F | 310 | 310 ^N | 290 | 290 | 290 | |
| 12 | 320 | 340 | 310 | (330) ^F | 340 | 290 | 270 | 280 | 260 | 290 | 310 | U | B | 360 | 320 | 290 | B ^S | 270 | 290 | 290 | 280 | 320 | 330 | 340 | |
| 13 | 320 | 350 | 360 | 310 | 310 | 320 | 300 | 330 | 290 | U ^K | U ^K | U ^K | U ^K | U ^K | U ^K | 300 ^K | 300 ^K | 330 ^K | 280 ^K | 300 ^K | 280 | 300 ^K | 310 ^F | A ^K | |
| 14 | 360 ^K | 340 ^K | 310 ^K | 270 ^K | (250) ^F | (270) ^F | 270 ^K | U ^K | A ^K | A ^K | B ^K | U ^K | A ^K | A ^K | A ^K | 310 ^K | 300 ^K | 300 ^K | 290 ^K | A ^K | A ^K | A ^K | 310 ^K | A ^K | |
| 15 | A ^K | (350) ^F | 380 ^F | 310 ^F | 290 ^F | 280 | 270 | 270 | U | A | A | A | A | A | A | 310 | 400 | A | A | A | A | A | 320 | 330 | |
| 16 | 310 | 320 | 290 | 310 ^F | 330 | 260 | 290 | 260 | 270 | U | U | U | U | U | 320 | 310 | (270) ^F | 280 | 270 | A | A | A | 320 | 330 | |
| 17 | 310 | 340 | 320 | F | F ^S | 280 | 270 | 250 | 280 | 300 | U | U | U | A | A | 340 | 320 | 320 | 320 | A | F | A | A | A | |
| 18 | A | A | A | (300) ^F | (310) ^F | 230 ^F | 330 | A | A | A | A | A | A | A | A | 350 | 330 | A | 340 | 320 | 310 | 300 | 360 | 350 ^N | |
| 19 | 300 | 310 | A | 370 ^F | F | 220 | U | A | A | A | A | C | C | 320 | 310 | A | A | 300 | 330 | 320 | 330 | 290 | 300 ^K | 320 ^K | |
| 20 | 310 ^K | 320 ^K | 340 ^K | 320 ^K | 320 ^K | 300 ^K | 240 ^K | A ^K | A ^K | A ^K | A ^K | A ^K | B ^K | U ^K | A ^K | 330 ^K | 290 ^K | 290 ^K | 260 ^K | 300 ^K | A ^K | 320 ^K | 330 ^F | 310 ^F | |
| 21 | 320 ^K | 320 ^K | 340 ^K | 270 ^K | 240 ^K | 340 ^K | A ^K | 300 ^K | U ^K | U ^K | U ^K | U ^K | U ^K | U ^K | U ^K | B ^K | 320 ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | |
| 22 | ASF ^K | AF ^K | (280) ^F | 280 ^F | 290 ^K | 310 ^K | A ^K | A ^K | A ^K | A ^K | A ^K | U ^K | U ^K | U ^K | U ^K | U ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | A ^K | |
| 23 | (320) ^F | A | 320 ^F | 330 | 300 | 280 | 280 | 300 | 290 | A | A | A | A | U | (340) ^F | A | A | A | SB | 300 | C | A | FA | F | |
| 24 | (320) ^F | (340) ^F | (340) ^F | (320) ^F | 320 ^F | 230 | (290) ^F | 250 | B | A | A | A | U | (330) ^F | 340 | 330 | 300 | 300 | 280 | (250) ^F | (310) ^F | (300) ^F | A | A | |
| 25 | A | FS | 350 | 310 | 280 ^F | 300 | 280 | B | 260 | A | U | U | U | 370 | 320 | 300 | 290 | 310 | 320 | 320 | 350 | 350 | (300) ^F | 340 ^F | |
| 26 | 330 | 320 | 310 | 320 | 320 | 290 | 280 | A | (240) ^F | A | A | U | A | (320) ^F | U | A | A | A | A | A | A | A | A | A | |
| 27 | A | A | 320 ^F | (320) ^F | 320 ^F | A | 280 | A | C | U | A | (480) ^F | 450 | U | A | A | A | C | 340 | 300 | 280 | 320 | 350 ^F | 340 ^F | |
| 28 | 360 ^F | (340) ^F | (370) ^F | A | A | A | A | A | A | A | U | 320 | U | A | A | 350 | 290 | A | 300 | A | AS | AS | AS | A | |
| 29 | A | 360 ^F | (340) ^F | 350 ^F | (350) ^F | A | A | A | A | 370 | A | A | A | A | A | A | A | A | 340 | 320 | 310 ^F | 310 | BS | 320 | 310 |
| 30 | B | 340 | 340 | 350 | 360 | 320 | 300 | 290 | A | A | A | A | A | A | A | 310 | 300 | 300 | 290 | 320 | 310 ^F | (340) ^F | 350 ^F | | |
| 31 | 310 ^F | 290 ^F | 300 | 310 | 330 | 320 | 330 | 280 | 280 | 300 | U | U | 380 | 380 | 360 | 310 | 320 | 290 | A | A | A | A | 300 | 320 | 310 ^F |
| Mean Value | 330 | 340 | 330 | 330 | 320 | 290 | 280 | 280 | 280 | 300 | 310 | 350 | 370 | 340 | 320 | 310 | 290 | 290 | 300 | 300 | 300 | 310 | 320 | 320 | 320 |
| Median Value | 320 | 340 | 340 | 320 | 320 | 290 | 280 | 280 | 280 | 300 | 300 | 320 | 360 | 340 | 320 | 300 | 300 | 300 | 300 | 300 | 300 | 310 | 310 | 320 | 320 |
| Count | 23 | 25 | 28 | 29 | 28 | 29 | 26 | 18 | 16 | 7 | 4 | 5 | 8 | 15 | 21 | 24 | 20 | 23 | 23 | 22 | 20 | 22 | 24 | 23 | |

The Central Radio Wave Observatory
Koganei-machi, Khatama-gun, Tokyo, Japan

Lat. 35° 43.5' N
Long. 140° 08.2' E

Akita

IONOSPHERIC DATA

135° E Mean Time

May. 1952

RF2

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

RF2

Sweep 1.0 Mc to 17.0 Mc in 15 min

Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Kijakama-gun, Tokyo, Japan

Lat. 39° 43.5' N
Long. 140° 08.2' E

Akita

IONOSPHERIC DATA

135° E Mean Time

foF1

May. 1952

| 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 | 4.1 | 4.2 | 4.6 | A | 4.6 | 4.5 | 4.5 | 4.4 | 4.4 | 3.8 | 3.3 | Q | | | | | |
| 2 | | | | | | Q | L | Q | 3.9 | A | 4.5 | A | 5.2 | A | A | 4.4 | 4.4 | A | (3.7) ^L | | | | | |
| 3 | | | | | | Q | 3.5 | 4.2 | 4.5 | A | 4.5 | A | 4.8 | A | 4.5 | 4.4 | 4.1 | Q | A | | | | | |
| 4 | | | | | | Q | Q | Q | 4.3 | 4.3 | 4.5 | 4.5 | A | A | 4.4 | 4.2 | 4.2 | 4.0 | Q | | | | | |
| 5 | | | | | | Q | L | 4.0 | 4.2 | 4.4 | 4.4 | 4.7 | 4.6 | 4.6 | 4.7 ^A | 4.1 | 4.2 | Q | A | | | | | |
| 6 | | | | | | Q | Q | 4.2 | A | A | A | 4.5 | 4.6 | 4.7 | A | A | Q | Q | 3.4 ^J | | | | | |
| 7 | | | | | | Q | Q | Q | 4.1 | A | A | L | 4.8 | 4.7 | 4.6 | 4.5 | 4.4 | (3.7) ^L | Q | | | | | |
| 8 | | | | | | Q | Q | A | A | A | A | A | A | A | A | 4.2 | A | Q | A | | | | | |
| 9 | | | | | | Q | Q | 3.7 | 4.1 | L | 4.5 | 4.6 | 4.7 | 4.6 | 4.4 | 4.1 | Q | Q | Q | | | | | |
| 10 | | | | | | Q | 3.2 | 3.9 | 4.2 | 4.5 | 4.5 | 4.6 | A | 4.6 | A | 4.5 | Q | Q | A | | | | | |
| 11 | | | | | | Q | 3.6 | 3.9 | 4.1 | 4.4 | 4.6 | 4.5 | 4.7 | 4.7 | 4.5 | 4.4 | 3.9 | 3.7 | Q | | | | | |
| 12 | | | | | | Q | Q | A | A | A | 4.5 | 4.6 | 4.6 | 4.6 | 4.5 | 4.0 | 3.9 | 3.6 | 3.0 | | | | | |
| 13 | | | | | | Q | Q | Q | 3.9 | 4.2 | 4.5 | 4.6 | 4.5 | 4.5 | 3.9 | 4.2 | 4.0 | A | Q | | | | | |
| 14 | | | | | | Q | Q | 4.0 | A | A | B | 4.5 | A | A | A | A | 4.0 | A | A | | | | | |
| 15 | | | | | | Q | Q | Q | 4.4 | A | A | A | A | A | A | 4.3 | A | A | A | | | | | |
| 16 | | | | | | Q | Q | Q | A | A | A | 4.4 | 4.6 | 4.6 | 4.4 | 3.6 | 3.5 ^J | A | A | | | | | |
| 17 | | | | | | Q | 4.1 | Q | 4.7 | 4.7 | A | 4.5 | 4.5 ^J | A | A | 4.2 ^A | A | A | A | | | | | |
| 18 | | | | | | Q | Q | A | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 19 | | | | | | Q | 4.1 | A | A | A | A | 4.5 ^A | C | A | 4.4 | A | A | A | A | | | | | |
| 20 | | | | | | Q | Q | A | A | A | A | A | 4.4 | 4.4 | A | A | 4.0 | A | A | | | | | |
| 21 | | | | | | Q | A | 3.9 | 4.4 | 4.4 | 4.4 | 4.6 | 4.4 | 4.5 | 4.7 ^J | 4.4 | A | A | A | | | | | |
| 22 | | | | | | A | A | A | A | A | A | 4.5 | 4.5 | 4.5 | 4.2 | A | A | A | A | | | | | |
| 23 | | | | | | Q | Q | A | A | A | A | A | A | 4.8 ^A | A | A | A | B | Q | | | | | |
| 24 | | | | | | Q | 3.4 | Q | Q | A | A | A | 4.7 | A | 4.7 | 4.4 | A | 3.8 | Q | | | | | |
| 25 | | | | | | Q | 3.6 | Q | 4.3 ^A | A | 4.6 | 4.6 | 4.6 | A | A | A | 4.1 ^L | 3.9 | L | | | | | |
| 26 | | | | | | L | A | A | A | A | A | A | A | 4.5 ^A | 4.7 | A | A | A | A | | | | | |
| 27 | | | | | | A | A | A | C | 4.4 ^A | A | 4.5 ^A | A | A | 4.4 | 4.4 ^A | C | C | (3.0) ^L | | | | | |
| 28 | | | | | | A | A | A | A | A | 5.0 ^J | A | A | A | A | 4.4 | A | A | A | | | | | |
| 29 | | | | | | 2.9 | A | A | A | A | A | A | A | A | A | A | A | A | 3.7 | 3.3 | | | | |
| 30 | | | | | | Q | A | A | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 31 | | | | | | Q | L | A | 4.5 | A | A | 4.8 | 4.7 | 4.7 | A | A | A | A | A | | | | | |
| Mean Value | | | | | | 2.9 | 3.6 | 4.0 | 4.3 | 4.4 | 4.5 | 4.6 | 4.6 | 4.6 | 4.5 | 4.3 | 4.0 | 3.7 | 3.3 | | | | | |
| Median Value | | | | | | 2.9 | 3.6 | 4.0 | 4.2 | 4.4 | 4.5 | 4.6 | 4.6 | 4.6 | 4.4 | 4.4 | 4.0 | 3.7 | 3.4 | | | | | |
| Count | | | | | | 1 | 7 | 9 | 15 | 10 | 11 | 18 | 18 | 16 | 16 | 19 | 12 | 8 | 6 | | | | | |

Sweep 1.0 Mc to 17.0 Mc in 15 min Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 39° 43.5' N
Long. 140° 08.2' E

IONOSPHERIC DATA

Akita

May. 1952

h'F1

135° E Mean Time.

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|--------------|----|----|----|----|----|-----|-----|-----|-----|-----|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----|------------------|------------------|----|----|----|----|
| 1 | | | | | | Q | Q | 260 | A | A | A | 360 ^A | B | 240 | 210 | 220 | 210 | 210 | Q | | | | | |
| 2 | | | | | | Q | 240 | Q | 220 | A | 220 ^A | A | A | A | A | 250 ^A | A | A | 250 ^A | | | | | |
| 3 | | | | | | Q | 270 | 240 | A | A | A | A | 210 | A | A | B | 270 | Q | A | | | | | |
| 4 | | | | | | Q | Q | Q | 230 | 220 | A | B | A | A | A | 250 | 240 | 230 | Q | | | | | |
| 5 | | | | | | Q | 230 | 230 | 220 | 240 | 220 | 270 ^A | 210 | 230 | 220 ^H | 230 | 240 | 240 | A | | | | | |
| 6 | | | | | | Q | Q | 250 | A | A | A | 210 | 220 | A | A | A | Q | Q | 250 | | | | | |
| 7 | | | | | | Q | Q | Q | 210 | A | A | A | A | A | 210 | 220 | 220 | 220 | Q | | | | | |
| 8 | | | | | | Q | Q | A | A | A | A | A | A | A | A | A | A | Q | A | | | | | |
| 9 | | | | | | Q | Q | 210 | 220 | 200 | A | B | 250 ^B | 280 ^B | 260 ^B | 240 | Q | Q | Q | | | | | |
| 10 | | | | | | Q | 220 | 230 | 210 | 210 | 190 | 190 | A | 230 | A | 240 | Q | Q | A | | | | | |
| 11 | | | | | | Q | 230 | 230 | 230 | 220 | 200 | 200 | 200 | 200 | 230 | 230 | 230 | 240 | Q | | | | | |
| 12 | | | | | | Q | Q | A | A | A | A | 260 ^A | 230 ^A | 240 | 210 | 230 | 210 ^A | 230 | 250 | | | | | |
| 13 | | | | | | Q | Q | Q | 230 | 220 | 210 | 230 | A | 240 ^A | 220 | A | 230 | A | Q | | | | | |
| 14 | | | | | | Q | Q | Q | 230 | A | A | 250 | A | A | A | A | 250 | A | A | | | | | |
| 15 | | | | | | Q | Q | Q | 230 | A | A | A | A | A | A | A | A | A | A | | | | | |
| 16 | | | | | | Q | Q | Q | A | A | A | 200 | 230 | A | A | A | A | A | A | | | | | |
| 17 | | | | | | Q | 230 | Q | 230 | 240 | A | A | A | A | A | A | A | A | A | | | | | |
| 18 | | | | | | Q | Q | A | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 19 | | | | | | Q | 230 | A | A | A | A | A | C | A | A | A | A | A | A | | | | | |
| 20 | | | | | | Q | Q | A | A | A | A | A | 230 ^B | 210 | A | A | A | A | A | 250 ^A | | | | |
| 21 | | | | | | Q | A | A | 240 | 240 | 230 | B | A | A | B | A | A | A | A | | | | | |
| 22 | | | | | | A | A | A | A | A | A | A | 210 | 220 | A | A | A | A | A | | | | | |
| 23 | | | | | | Q | Q | A | A | A | A | A | A | A | A | A | A | B | Q | | | | | |
| 24 | | | | | | Q | 250 | Q | Q | A | A | A | A | A | A | A | A | A | Q | | | | | |
| 25 | | | | | | Q | A | Q | A | A | 230 | A | A | A | A | A | 240 | 220 | 240 | | | | | |
| 26 | | | | | | 240 | A | A | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 27 | | | | | | A | A | A | C | A | A | A | A | A | A | 260 | A | C | 260 | | | | | |
| 28 | | | | | | A | A | A | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 29 | | | | | | 240 | A | A | A | A | A | A | A | A | A | A | A | 280 | 240 | | | | | |
| 30 | | | | | | Q | A | A | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 31 | | | | | | Q | 240 | A | 270 | A | A | A | 210 | 220 | A | A | A | A | A | | | | | |
| Mean Value | | | | | | 240 | 240 | 240 | 230 | 220 | 210 | 240 | 220 | 230 | 230 | 240 | 230 | 230 | 250 | | | | | |
| Median Value | | | | | | 240 | 230 | 240 | 230 | 220 | 220 | 230 | 220 | 230 | 220 | 240 | 240 | 230 | 250 | | | | | |
| Count | | | | | | 2 | 9 | 9 | 12 | 8 | 7 | 9 | 10 | 11 | 9 | 10 | 10 | 7 | 7 | | | | | |

Sweep 1.0 Mc to 17.0 Mc in 15 min

Manual Automatic

h'F1

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 39° 43.6' N
Long. 140° 08.2' E

A k i t a

IONOSPHERIC DATA

foE

May. 1952

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 | | | | | 1.7 | 2.3 | 2.6 | 3.0 | 3.2 | 3.3 | 3.4 | B | 3.4 | 3.4 | 3.2 | 3.1 | 2.7 | 2.4 | 1.8 ^J | | | | | |
| 2 | | | | | A | 2.2 ^F | 2.5 | 3.0 | 3.3 | B | A | 3.1 | A | A | A | A | A | A | A | | | | | |
| 3 | | | | | 1.6 ^J | 2.5 | 2.5 | 3.0 | 3.3 | B | A | A | A | A | A | 3.0 | 2.8 | 2.4 | 1.8 | | | | | |
| 4 | | | | | 1.9 | 2.2 | 2.6 | 2.9 | 3.0 ^J | 3.3 | 3.4 | 3.4 | 3.4 | 3.3 | 3.2 | A | A | 2.4 | 2.2 | | | | | |
| 5 | | | | | A | 2.3 | 2.7 | 3.0 | 3.1 | 3.2 | 3.2 | 3.1 | 3.3 | 3.3 | 3.4 | 3.1 | 2.6 | 2.4 | A | | | | | |
| 6 | | | | | 1.7 | 2.3 | 2.8 | 3.0 ^H | 3.2 | 3.4 | 3.6 | 3.6 | A | A | 3.1 | 3.0 | 3.0 | 2.6 | 2.1 | | | | | |
| 7 | | | | | 1.8 | 2.2 | 2.8 | 3.0 | 3.3 | 3.3 | 3.3 | A | A | A | A | A | A | 2.5 | 2.0 | | | | | |
| 8 | | | | | A | 2.1 | 2.0 | 2.5 | 3.1 | 3.2 | 3.3 | 3.3 | B | 3.3 | 3.0 | 2.7 | 2.5 | 1.8 | | | | | | |
| 9 | | | | | 1.9 | 2.4 | 2.6 | 2.9 | 2.8 | 3.2 | 3.0 | B | A | A | A | 3.0 | 2.8 | 2.4 | A | | | | | |
| 10 | | | | | 1.5 | 2.3 | 2.7 | 2.9 | 3.1 | 3.4 | 3.4 | A | A | A | A | 3.2 | 2.9 | 2.4 | A | | | | | |
| 11 | | | | | A | 2.2 | 2.6 | 3.0 | 3.2 | 3.5 | 3.7 | 3.8 | 3.6 | 3.2 | 3.2 | 2.9 | 2.5 | A | | | | | | |
| 12 | | | | | A | 2.5 | 2.7 | 3.0 | 3.0 | 3.2 | 3.1 | 3.0 | 3.1 | 3.1 | 3.1 | A | A | A | A | | | | | |
| 13 | | | | | 1.8 | 2.2 | 2.6 | 2.8 | 3.0 | 3.3 | 3.4 | 3.3 | 3.4 | 3.0 | 3.0 | A | 2.8 | 2.5 | A | | | | | |
| 14 | | | | | 2.0 | 2.4 | 2.9 | 3.0 | 3.1 | 3.2 | A | A | A | A | A | 3.0 | 2.8 | 2.6 | 1.8 | | | | | |
| 15 | | | | | A | 2.2 | 2.7 | 3.0 | A | A | A | A | A | A | A | A | A | 2.6 | A | | | | | |
| 16 | | | | | 1.9 | 2.4 | 2.7 | 2.9 | 3.2 | 3.2 | 3.2 | A | A | A | A | A | 3.0 | A | A | | | | | |
| 17 | | | | | 1.8 | 2.4 | 2.8 | 2.9 | 3.0 | 3.0 | A | A | A | A | A | A | 3.0 | 2.4 | 1.9 | | | | | |
| 18 | | | | | 1.5 | 2.4 | 2.8 | 3.1 | 3.2 ^H | 3.3 ^H | 3.4 | 3.2 ^B | 3.3 | 3.3 | 3.3 | 3.0 | 2.7 | A | A | | | | | |
| 19 | | | | | A | 2.5 | 2.6 | 2.8 | 3.0 | 3.1 | 3.2 | C | A | 3.3 | 3.0 | A | 2.4 | A | A | | | | | |
| 20 | | | | | A | A | A | A | 3.2 | 3.3 | 3.2 | B | 3.4 | 3.0 | A | A | A | A | A | | | | | |
| 21 | | | | | A | 2.1 | 2.7 | 2.9 | 3.0 | 3.1 | A | 3.4 | 3.3 | A | A | A | 2.5 | A | A | | | | | |
| 22 | | | | | A | 2.2 | 2.8 | 2.9 | 3.0 | 3.1 | 3.1 | 3.2 | A | A | A | 3.1 | 2.8 | 2.5 | B | | | | | |
| 23 | | | | | 1.8 | 2.4 | 2.7 | 3.1 | 3.2 | 3.3 | 3.3 | 3.4 | 3.3 | 3.4 | 3.4 | A | A | A | B | | | | | |
| 24 | | | | | A | 2.3 | 2.5 | 2.9 | A | A | A | A | A | A | A | 2.9 | A | A | B | | | | | |
| 25 | | | | | 1.8 | A | 2.8 | 3.0 | 3.2 | A | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 2.9 | 2.9 | 2.6 | 2.0 | | | | | |
| 26 | | | | | A | A | 2.7 | 3.0 | 3.0 | 3.1 | 3.2 | A | A | A | A | A | A | A | A | | | | | |
| 27 | | | | | 1.8 | A | A | C | A | 3.2 | A | A | 3.2 | 3.4 | 3.4 | 3.3 | C | C | A | | | | | |
| 28 | | | | | A | A | A | A | 3.0 | 3.5 | A | 3.4 | A | A | A | 3.0 | 2.9 | A | A | | | | | |
| 29 | | | | | 1.8 | 2.4 | 2.8 | 3.0 | 3.1 | A | 3.2 | 3.2 | 3.3 | 3.1 | 3.1 | 2.8 | 2.7 | 2.5 | | | | | | |
| 30 | | | | | 1.2 | 1.8 | 2.5 | 2.8 | 3.1 | A | A | A | A | A | B | A | A | A | A | | | | | |
| 31 | | | | | 1.9 | 2.5 | 2.9 | 3.0 | 3.2 | 3.3 | 3.3 | 3.3 | 3.3 | 3.2 | 2.8 | 3.1 | 3.0 | 2.6 | 2.0 | | | | | |
| Mean Value | | | | | 1.2 | 1.8 | 2.3 | 2.7 | 3.0 | 3.1 | 3.2 | 3.3 | 3.3 | 3.3 | 3.2 | 3.1 | 2.8 | 2.5 | 2.0 | | | | | |
| Median Value | | | | | 1.2 | 1.8 | 2.3 | 2.7 | 3.0 | 3.1 | 3.2 | 3.3 | 3.3 | 3.3 | 3.2 | 3.0 | 2.8 | 2.5 | 2.0 | | | | | |
| Count | | | | | 1 | 18 | 26 | 28 | 28 | 27 | 24 | 23 | 15 | 14 | 16 | 18 | 18 | 20 | 11 | | | | | |

Sweep 1.0 Mc to 17.0 Mc in 15 min Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 39° 43.5' N
Long. 140° 08.2' E

IONOSPHERIC DATA

Akita

May. 1952

f'E

135° E Mean Time

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

f'E

Sweep 1.0 Mc to 17.0 Mc in 1.5 min

Manual Automatic

A 7

The Central Radio Wave Observatory
Koganei-machi, Kitakama-gun, Tokyo, Japan

Lat. 39° 43.5' N
Long. 140° 08.2' E

Akita

IONOSPHERIC DATA

135° E Mean Time

May. 1952

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 | 2.9 | 2.4 | 3.0 | 4.7 ^Y | 3.7 | 4.2 | 4.4 | 5.6 | 4.4 | 5.0 | G | 4.8 | 4.2 | 5.5 | 5.3 | 6.6 | 3.4 ^Y | 2.4 | E | E | E |
| 2 | 3.4 | 3.4 | 3.8 | 2.8 | 3.0 | 2.8 | 3.0 | G | G | 5.4 | 4.4 | 5.5 | 5.5 ^Y | 6.4 | 4.8 | 4.2 | 4.7 | 4.2 | 7.4 | 3.9 | E | 2.0 | E | E |
| 3 | 2.0 | 2.4 | 3.6 | E | 1.6 | 2.9 ^Y | 3.2 | 3.3 | 5.7 | 7.7 | 8.6 | 14.3 | 6.5 ^Y | 8.2 | 5.3 | G | 4.7 | 4.2 | 7.4 | 6.6 | 5.2 | 4.6 | 3.6 | 3.4 |
| 4 | E | 1.8 | E | E | E | G | 3.4 | 5.0 | 4.2 | G | 5.0 | 4.0 | 6.2 | 5.8 | 5.3 | 3.4 | 2.7 | 4.5 | G | 3.4 | E | 4.4 | 3.4 | E |
| 5 | E | 1.4 | 2.4 ^Y | 2.3 ^Y | G | 2.2 | G | 5.2 | 4.6 | 4.6 | 3.7 | 4.2 | G | 4.0 | G | G | 4.2 | 4.6 | 6.0 | 3.0 | 2.4 | E | E | E |
| 6 | E | E | 2.1 | 2.1 | E | 1.7 | 2.4 | 3.5 | 6.4 | 6.2 | 5.2 | G | G | 5.2 | 6.2 | 5.8 | G | G | 3.6 | 4.2 | 3.0 | 3.2 | 2.8 | 2.8 |
| 7 | 2.4 | 2.8 | 3.0 | C | 2.6 | 2.8 | 6.2 | 4.8 | 4.2 | 6.1 | 5.4 | 5.2 | 4.8 | 3.8 | 3.9 | 4.6 | 3.5 | G | E | E | E | E | E | E |
| 8 | 5.8 | 6.8 | 6.2 | E | E | 2.2 | 3.4 | 4.4 | 6.2 | 4.6 | 4.6 | 8.1 | 8.4 | 5.6 | 5.2 | 4.8 | 5.8 | 6.8 | 3.8 | 5.0 | 6.4 | 3.8 | 2.8 | E |
| 9 | E | E | 1.3 | 1.4 | 1.4 | 2.4 | G | 3.3 ^Y | 3.0 | G | 4.4 | 3.6 | 4.7 ^Y | 3.4 | 3.4 | G | 5.8 | 3.0 | 2.2 | 2.2 | 2.4 | 2.0 | 3.0 | 3.0 |
| 10 | E | E | 1.4 | 1.8 | 1.4 | G | G | G | 3.4 | 3.8 | G | G | 5.6 | 3.8 | 6.6 | G | G | 6.7 | 4.8 | 5.4 | 4.4 | 3.0 | 2.8 | 2.8 |
| 11 | E | 1.4 | 2.3 | 2.3 ^Y | 1.4 | 1.4 | 3.6 | 4.6 | 4.4 | G | G | G | G | G | G | 3.8 | 3.4 | G | 4.0 | 5.1 | 5.2 | 4.8 | 5.0 | 4.0 |
| 12 | 2.3 | 2.2 | 2.4 | 2.4 | 2.4 | 4.0 | 3.8 | 5.0 | 5.0 | 5.7 | 5.4 | 5.0 | 4.4 | 3.7 | 3.4 | 3.8 | 3.8 | 3.6 | 3.0 | 2.6 | E | 3.6 | 2.2 | E |
| 13 | 2.6 | 1.4 | E | 1.6 | 2.0 | G | G | G | 3.0 | G | G | G | 4.6 | 4.1 | G | 3.8 | G | 4.4 | 4.6 | 4.2 | 5.0 | 4.1 | 3.8 | 5.0 |
| 14 | 2.3 | 1.4 | 3.8 | 2.6 | 2.8 | G | 3.8 | 4.0 | 6.2 | 5.9 | 3.8 | 5.2 | 8.2 | 7.0 | 8.8 | 4.4 | G | 4.9 | 3.7 | 5.0 | 6.4 | 6.4 | 3.6 | 5.2 |
| 15 | 7.2 | 5.0 | 4.4 | 3.7 | 2.6 | 3.4 | G | 4.6 | 5.2 | 7.7 | 13.5 | 14.2 | 12.0 | 10.0 | 6.8 | 4.4 | 6.7 | 13.5 | 15.0 | 13.8 | 9.4 | 7.4 | 4.2 | 3.0 |
| 16 | E | 2.4 | 1.4 | 2.4 | 2.4 | G | G | G | 6.0 | 5.1 | 5.1 | 4.6 | 4.7 | 5.2 | 4.2 | 4.4 | 4.8 | 5.6 | 5.4 | 6.8 | 4.0 | E | E | 2.4 |
| 17 | 3.2 | E | 3.2 | 2.8 | E | G | 3.8 | 5.0 | 5.7 | 5.0 | 6.6 | 5.1 ^Y | 9.4 | 11.8 | 7.8 | 6.8 ^Y | 4.8 | 5.0 | 8.2 | 8.3 | 5.6 | 9.2 | 8.5 | 7.4 |
| 18 | 6.1 | 6.0 | 5.4 | 2.3 | 1.6 | G | 3.3 | 5.8 | 7.5 | 7.0 | 6.6 | 6.4 | 13.5 | 8.0 | 7.8 | 8.2 | 8.8 | 6.4 | 5.2 | 3.4 | E | 3.2 | 4.6 | 3.0 |
| 19 | 2.6 | 2.2 | 2.4 | 2.2 | 1.4 | 2.8 | G | 6.5 | 5.6 | 6.4 | 6.2 | C | C | C | G | 5.3 | 6.4 | 4.8 | 4.4 | 4.4 | 5.6 | 4.5 | 4.0 | 2.8 |
| 20 | 3.2 | 3.0 | 2.8 | 2.6 | 2.4 | 2.4 | 3.4 | 7.2 | 8.6 | 6.8 | 5.4 | 5.1 | 3.5 | G | 6.2 | 5.7 | 4.6 | 5.8 | 4.6 | 4.2 | 5.2 | 4.0 | 3.4 | 3.8 |
| 21 | 4.0 | 2.2 | 2.4 | 2.2 | 1.4 | 2.6 | 5.5 | 4.2 | 5.4 | 4.4 | G | 3.8 | 5.0 | 5.8 | 3.8 | 4.4 | 5.4 | 6.8 | 9.8 | 7.6 | 7.0 | 6.2 | 5.2 | 6.4 |
| 22 | 4.8 | 5.4 | 3.6 | 4.2 | 3.0 | 3.2 | 5.6 | 6.6 | 8.8 | 9.2 | 7.4 | 4.4 | 3.8 | 5.2 | 4.7 | 6.0 | 8.8 | 11.6 | 8.2 | 6.6 | 6.7 | 12.7 | 12.3 | 7.4 |
| 23 | 3.8 | 8.8 | 5.0 | 3.0 | 2.2 | G | 4.0 | 5.0 | 6.0 | 7.2 | 6.6 | 6.4 | 6.9 | 6.2 | 5.6 | 6.4 | 5.8 | 3.8 | 3.0 | C | 4.8 | 6.4 | 6.5 | 4.6 |
| 24 | 3.8 | 3.5 | 2.3 | 1.4 | 2.3 | 2.0 ^F | 3.6 | 5.4 | 5.8 | 8.6 | 7.4 | 7.4 | 5.6 | 5.8 | 4.4 | 5.0 | 4.4 | 5.0 | 3.4 | 5.0 | 5.4 | 5.0 | 6.6 | 6.8 |
| 25 | 6.2 | 4.6 | 5.3 ^F | 3.6 | 2.8 | 3.2 | 5.1 | 6.0 | 6.2 | 7.0 ^Y | 7.0 | 6.5 | 5.6 | 6.2 | 6.4 | 9.1 ^Y | 3.7 | G | 4.0 | 4.0 | 5.2 | 3.0 | 4.6 | 7.2 |
| 26 | 2.6 | 3.6 | 5.0 | 3.9 | 3.8 | 4.0 | 4.5 | 7.0 | 5.5 | 9.4 | 7.0 | 7.0 | 8.4 | 5.0 | 6.7 | 8.2 | 8.4 | 12.7 | 12.5 | 8.8 | 10.5 | 11.0 | 9.6 | 8.8 |
| 27 | 9.1 | 7.6 | 3.2 | 2.6 | 2.6 | 4.4 | 5.8 | 8.4 | C | 12.5 | 7.4 | 4.7 | 6.8 | 10.8 | G | 5.3 | C | C | 5.1 | E | 3.0 | 3.4 | 3.4 | 4.6 |
| 28 | 3.0 | 3.6 | 5.0 | 8.8 | 8.0 | 8.2 | 5.2 | 8.8 | 13.4 | 17.2 | 11.2 | 5.8 | 7.4 | 9.6 | 5.2 | 4.8 | 11.0 | 7.4 | 5.2 | 6.8 | 4.8 | 4.8 | 5.0 | 6.4 |
| 29 | 5.4 | 3.8 | 3.2 | 2.6 | G | G | 7.2 | 7.0 | 8.0 | 6.0 | 7.4 | 7.0 | 7.2 | 6.8 | 7.2 | 6.8 | 6.7 | G | G | 2.0 | 2.0 | 3.8 | E | E |
| 30 | E | E | E | 2.4 | 1.2 | 3.4 ^Y | 5.0 | 5.7 | 8.5 | 9.6 | 7.8 | 10.0 | 14.5 | 6.8 | 7.2 | 5.4 | 5.4 | 6.4 | 6.2 | 3.7 | 4.3 | 3.7 | 3.0 | 2.3 |
| 31 | 3.4 | 3.0 | 2.6 | 3.0 | 3.0 | 3.2 | 4.2 | 5.4 | 4.0 | 5.7 | 7.2 | 6.2 | 4.0 | 4.8 | 7.0 | 5.8 | 7.2 | 6.4 | 8.6 | 9.0 | 7.8 | 5.6 | 4.0 | 2.8 |
| Mean Value | 4.1 | 3.6 | 3.5 | 2.8 | 2.5 | 3.1 | 4.3 | 5.3 | 5.9 | 7.0 | 6.6 | 6.3 | 6.1 | 6.2 | 5.7 | 5.4 | 5.7 | 6.0 | 5.8 | 5.3 | 5.2 | 5.0 | 4.7 | 4.6 |
| Median Value | 2.6 | 2.4 | 3.0 | 2.4 | 2.2 | 2.4 | 3.6 | 5.0 | 5.6 | 6.0 | 5.6 | 5.2 | 5.6 | 5.7 | 5.2 | 4.8 | 4.8 | 5.0 | 4.6 | 4.3 | 4.8 | 4.0 | 3.6 | 3.0 |
| Count | 31 | 31 | 31 | 30 | 31 | 31 | 31 | 31 | 30 | 31 | 31 | 31 | 30 | 31 | 31 | 31 | 30 | 30 | 30 | 31 | 30 | 31 | 31 | 31 |

Automatic

Manual

Sweep 1.0 Mc to 17.0 Mc in 15 min

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 39° 43.5' N
Long. 140° 08.2' E

IONOSPHERIC DATA

Akita

May. 1952

(M3000)F2

135° E Mean Time

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

(M3000)F2

Sweep 1.0 Mc to 17.0 Mc in 1.5 min

Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 39° 43.5' N
Long. 140° 08.2' E

Akita

IONOSPHERIC DATA

135° E Mean Time

fminF

May. 1952

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|------------------|------------------|-------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----|
| 1 | 1.4 | 1.2 | E | 2.5 ^A | A | 1.8 | 2.6 | 3.0 | 3.8 | 4.1 | 4.7 ^A | 4.1 | 4.5 | 3.6 | 3.3 | 3.2 | 2.8 | 2.6 | 2.8 | 2.5 ^A | 1.9 | 1.5 | 1.5 | 1.5 | |
| 2 | 1.5 | 1.2 | 1.1 | A | 2.0 ^A | 1.7 | 2.2 | 2.8 | 3.3 | 4.6 ^A | 3.8 | 4.7 ^A | 4.2 | 5.6 ^A | 4.6 ^A | 3.6 | 4.8 ^A | 4.2 ^A | 3.0 ^A | 2.3 ^A | 1.5 | 1.5 | 1.5 | 1.5 | |
| 3 | 1.5 | 1.5 | 2.6 ^A | E | E | 2.3 | 2.4 | 3.1 | 4.2 ^A | A | A | A | 4.0 | A | 4.2 ^A | 4.2 | 3.0 | 3.0 | A | 5.0 ^A | 5.0 ^A | 4.4 ^A | 3.6 ^A | 2.6 ^A | |
| 4 | 1.6 | 1.5 | E | E | E | 2.0 | 2.6 | 2.8 | 3.2 | 3.6 | 4.5 ^A | 4.2 | A | 5.4 ^A | 4.4 ^A | 3.3 | 2.8 | 2.9 | 2.2 | 1.6 | 1.6 | 3.2 ^A | 2.4 ^A | 1.6 | |
| 5 | 1.4 | E | E | 1.1 | 1.2 | 1.8 | 2.4 | 2.8 | 3.6 | 4.0 | 3.5 | 4.2 | 3.4 | 3.7 | 3.4 | 3.6 | 3.1 | 2.5 | 5.4 ^A | 1.8 | 1.6 | 1.4 | 1.4 | 1.4 | |
| 6 | 1.4 | 1.2 | E | 1.2 | E | 1.7 | 2.5 | 3.0 | 5.6 ^A | 5.0 ^A | 5.0 ^A | 4.2 | 4.0 | 4.6 ^A | 4.2 ^A | 4.4 | 4.2 | 3.8 | 2.9 | 3.0 ^A | 2.6 ^A | 3.2 ^A | 1.6 | 2.4 ^A | |
| 7 | 1.8 | A | 2.0 ^A | [1.8] ^F | 1.6 | 1.9 | 2.5 | 2.9 | 3.5 | 5.5 ^A | 4.9 ^A | 4.4 ^A | 4.2 | 3.8 | 3.7 | 3.5 | 3.2 | 2.6 | 2.0 | 1.5 | 1.5 | 1.6 | 1.5 | 1.5 | |
| 8 | 4.8 ^A | A | A | 1.4 | 1.4 | 1.8 | N | 2.8 | A | A | A | A | A | A | A | 4.2 ^A | A | 3.2 | 3.8 | 5.0 | 2.8 ^A | 2.6 ^A | 2.4 ^A | 1.6 | |
| 9 | 1.6 | E | E | 1.1 | E | 1.9 | 2.4 | 3.0 | 3.1 | 3.8 | 3.4 | 3.6 | 4.8 ^A | 4.0 | 6.2 ^A | 4.0 | 3.8 | 3.0 | A | 5.0 ^A | 1.6 | 1.6 | 1.5 | 1.4 | |
| 10 | 1.4 | E | E | 1.2 | 1.2 | 1.8 | 2.4 | 2.8 | 3.1 | 3.2 | 3.5 | 3.8 | 3.8 | 3.6 | 3.2 | 3.2 | 3.0 | 2.7 | 2.7 | 4.6 ^A | 1.6 | 1.8 | 1.6 | 1.6 | |
| 11 | E | E | 1.4 | 1.2 | 1.2 | 1.3 | 2.5 | 3.8 ^A | 4.6 ^A | 4.6 ^A | 4.3 ^A | 4.2 ^A | 4.2 | 4.2 | 3.4 | 3.2 | A | 2.6 | 2.2 | 1.7 | 1.6 | 3.4 ^A | 1.6 | 1.6 | |
| 12 | 1.4 | 1.3 | 1.3 | 1.2 | 1.3 | 1.9 | 2.5 | 3.8 ^A | 3.4 | 3.6 | 3.4 | 3.9 | 4.1 | 3.9 | 3.4 | 3.8 | 3.0 | 4.1 ^A | 2.4 | 3.7 ^A | 3.0 ^A | 2.8 ^A | 3.5 ^A | 4.6 ^A | |
| 13 | 1.5 | 1.4 | 1.2 | 1.2 | 2.0 ^A | 2.0 ^A | 2.3 | N | 3.4 | 3.6 | 3.4 | 3.9 | 4.1 | 3.9 | 3.4 | 4.2 ^A | 3.2 | 3.8 ^A | 3.5 ^A | 4.4 ^A | A | A | A | A | |
| 14 | 1.5 | E | E | E | 1.4 | 2.0 | 2.4 | 3.0 | A | 5.4 ^A | A | 4.1 | A | A | A | 4.2 ^A | 3.2 | 6.4 ^A | A | A | A | A | A | A | |
| 15 | A | 3.4 ^A | 2.6 ^{AF} | 2.2 ^A | 1.9 | 1.8 | 2.6 | 3.0 | 3.6 | 4.8 ^A | A | A | A | A | 5.2 ^A | 3.7 | 6.4 ^A | A | A | A | A | A | A | A | |
| 16 | 1.4 | 1.4 | 1.4 | E | E | 1.9 | 2.5 | 2.8 | 4.2 ^A | 4.4 ^A | 4.4 ^A | 3.6 | 3.9 | 4.4 ^A | 3.9 | 3.4 | 3.8 | 5.2 ^A | 3.8 ^A | A | 1.7 | 1.7 | 1.7 | 1.6 | |
| 17 | 2.2 ^A | 1.6 | 1.8 | 1.5 | E | 1.9 | 2.6 | 2.9 | 3.2 | 3.4 | 4.8 ^A | 4.2 | 4.5 ^A | A | A | 4.2 ^A | 4.4 ^A | 4.6 ^A | 4.6 ^A | A | 1.7 | A | A | A | |
| 18 | A | A | A | E | 1.2 | 1.9 | 2.8 | A | A | A | 5.2 ^A | 5.4 ^A | [4.6] ^F | 4.8 ^A | 3.6 | 5.0 ^A | 6.1 ^A | 3.8 ^A | 3.8 ^A | 1.6 | 1.6 | 2.6 ^A | A | 2.2 ^A | |
| 19 | 1.4 | E | A | 1.3 | E | 1.7 | 2.8 | A | A | A | A | 4.5 ^A | 4.6 ^A | 4.8 ^A | 4.8 ^A | 4.4 ^A | 5.0 ^A | 4.6 ^A | 3.5 ^A | 3.0 ^A | 4.3 | 4.6 ^A | 1.8 | 1.5 | |
| 20 | 1.5 | A | 1.2 | 1.2 | 1.2 | 1.4 | 2.4 | A | A | A | A | A | 3.6 | 3.6 | 3.6 | 4.4 ^A | 3.8 ^A | 4.0 ^A | 2.8 | 3.6 ^A | A | 3.7 ^A | 1.8 | 1.7 | |
| 21 | A | 1.4 | 1.4 | 1.4 | 1.4 | 2.0 | 5.3 ^A | 2.8 | 3.3 | 3.9 | 3.7 | 4.6 | 4.3 | 4.3 ^A | 4.8 | 4.4 ^A | 5.1 ^A | A | A | A | 6.4 ^A | A | 2.2 ^A | A | |
| 22 | 2.4 ^A | A | 2.0 ^A | 3.0 ^A | A | 3.0 ^A | A | A | A | A | A | 4.3 ^A | 3.8 | 3.8 | 4.2 ^A | 4.4 ^A | 5.1 ^A | A | A | 6.2 ^A | 6.6 ^A | 5.6 ^A | A | 1.7 | |
| 23 | 1.9 | A | 1.6 | E | E | 1.8 | 2.5 | 4.6 ^A | 4.6 ^A | A | A | A | 6.6 ^A | 4.8 ^A | 4.8 ^A | A | A | 4.6 | 3.0 | C | A | A | 1.8 | 2.6 ^A | |
| 24 | 1.9 | 1.9 ^F | A | 1.3 | 1.3 | 2.0 | 2.3 | 2.9 | 2.9 | A | A | A | 4.4 ^A | 5.5 ^A | 4.0 ^A | 4.2 ^A | 4.2 ^A | 3.6 | 2.8 ^A | 3.4 ^A | 3.4 ^A | A | A | A | |
| 25 | A | A | A | 1.7 | 1.5 | 1.8 | 3.6 ^A | 2.9 | 4.3 ^A | A | 4.3 | 4.4 ^A | 4.4 ^A | 5.6 ^A | 5.4 ^A | 5.5 ^A | 3.1 | 2.6 | 2.0 | 2.8 ^A | 3.8 ^A | 2.0 ^A | 2.4 ^A | 3.4 ^A | |
| 26 | 1.5 | 2.0 ^A | 3.4 ^A | 2.3 ^A | 3.0 ^A | 2.4 | 3.7 ^A | A | 5.0 ^A | A | A | 5.0 ^A | 5.8 ^A | 4.5 ^A | 4.4 | 4.4 | A | A | A | A | A | A | A | A | |
| 27 | A | A | 3.0 ^A | 1.6 | 2.6 ^A | 4.4 ^A | 4.8 ^A | A | C | 4.4 ^A | A | 4.5 ^A | 5.4 ^A | 4.8 ^A | 4.3 ^A | 3.8 | A | A | 5.3 ^A | 5.8 | 3.2 ^A | 1.6 | A | A | |
| 28 | A | A | A | A | A | A | A | A | A | A | 5.4 ^A | 5.3 ^A | 4.8 ^A | A | A | 3.8 | A | A | A | 2.8 | 2.6 | 1.5 | A | 1.5 | |
| 29 | A | 1.6 | 1.8 | 1.7 ^F | 1.4 | 1.9 | A | A | A | 4.4 | A | A | A | A | A | 4.4 ^A | A | 2.8 | 2.6 | 1.6 | 1.5 | A | A | 1.5 | |
| 30 | 1.2 | 1.3 | E | E | 1.2 | 1.9 | 3.8 ^A | 5.0 ^A | A | A | A | A | A | 5.8 ^A | A | 4.6 ^A | 5.2 ^A | 4.4 ^A | 5.4 ^A | 2.4 ^A | 4.1 ^A | 2.9 ^A | 2.2 ^A | 1.5 | |
| 31 | 2.1 ^A | 1.8 | 1.4 | 1.4 | 1.4 | 1.8 | 2.1 | 3.0 | 3.6 | 4.8 ^A | 5.0 ^A | 4.4 ^A | 3.8 | 3.8 | 6.4 ^A | 5.1 ^A | 6.4 ^A | 5.0 ^A | A | A | A | 2.6 ^A | 2.2 ^A | 2.6 ^A | |
| Mean Value | 1.8 | 1.6 | 1.8 | 1.6 | 1.6 | 2.0 | 2.8 | 3.2 | 3.8 | 4.3 | 4.3 | 4.3 | 4.4 | 4.5 | 4.3 | 4.0 | 4.1 | 3.6 | 3.2 | 3.2 | 2.8 | 2.6 | 2.6 | 2.0 | |
| Median Value | 1.5 | 1.4 | 1.4 | 1.2 | 1.3 | 1.9 | 2.5 | 3.0 | 3.6 | 4.4 | 4.4 | 4.2 | 4.2 | 4.3 | 4.2 | 4.1 | 3.8 | 3.6 | 2.8 | 2.8 | 2.9 | 2.0 | 2.6 | 1.8 | |
| Count | 24 | 22 | 25 | 29 | 28 | 3.0 | 2.7 | 2.2 | 2.1 | 1.9 | 1.8 | 2.3 | 2.4 | 2.3 | 2.4 | 2.6 | 2.3 | 2.4 | 2.4 | 2.4 | 2.4 | 2.5 | 2.2 | 2.2 | 2.4 |

Sweep 1.0 Mc to 17.0 Mc in 15 min Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 39° 43.5' N
Long. 140° 08.2' E

IONOSPHERIC DATA

Akita

May. 1952

fminE

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 | 1.6 | 1.5 | 1.6 | 1.5 | 1.8 | 1.8 | 1.9 | 1.9 | 1.8 | 1.8 | 1.9 | 1.8 | 1.6 | 1.5 | 1.6 | E | E | E |
| 2 | 1.1 | E | E | E | E | E | 1.6 | 1.5 | 1.6 | 1.6 | 1.7 | 2.8 | 1.8 | 1.9 | 1.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | E | 1.5 | E | E |
| 3 | 1.8 | 2.0 | E | E | E | 1.5 | 1.6 | 1.6 | 2.0 | 2.2 | 2.0 | 1.9 | 2.0 | 2.0 | 1.8 | 1.8 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 4 | E | E | E | E | E | 1.6 | 1.6 | 1.7 | 1.7 | 1.9 | 2.1 | 2.0 | 1.9 | 2.0 | 2.0 | 1.9 | 1.8 | 1.7 | 1.6 | 1.5 | E | 1.6 | 1.6 | E |
| 5 | E | E | E | E | E | 1.2 | 1.6 | 1.6 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.6 | 1.6 | E | E | E |
| 6 | E | E | E | E | E | 1.2 | 1.6 | 1.6 | 1.8 | 2.6 | 1.8 | 1.8 | 1.9 | 2.0 | 2.0 | 2.0 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 7 | E | E | E | C | E | 1.4 | 1.5 | 1.6 | 1.8 | 1.9 | 2.0 | 2.0 | 2.0 | 1.8 | 1.9 | 1.7 | 1.7 | 1.6 | 1.5 | E | E | E | E | E |
| 8 | 1.1 | 1.1 | 1.2 | E | E | 1.4 | 1.4 | 1.6 | 1.6 | 2.3 | 1.8 | 1.9 | 2.4 | 2.1 | 1.8 | 1.8 | 1.8 | 1.8 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | E |
| 9 | E | E | E | E | E | E | 1.5 | 1.6 | 1.7 | 1.6 | 1.9 | 1.9 | 2.2 | 1.9 | 2.0 | 2.0 | 2.0 | 1.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | 1.4 |
| 10 | E | E | E | E | E | 1.2 | 1.5 | 1.5 | 1.6 | 1.8 | 1.9 | 1.8 | 1.9 | 2.0 | 1.7 | 1.9 | 1.6 | 1.6 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 11 | E | E | E | E | E | E | 1.5 | 1.5 | 1.5 | 1.6 | 1.8 | 2.0 | 2.4 | 2.0 | 1.9 | 2.0 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 12 | 1.9 | 1.1 | E | E | E | 1.2 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.7 | 1.8 | 1.7 | 2.0 | 1.9 | 1.6 | 1.6 | 1.5 | 1.9 | E | 1.7 | 1.6 | E |
| 13 | 1.3 | E | E | 1.2 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.8 | 1.8 | 2.0 | 1.9 | 2.0 | 1.9 | 2.0 | 2.1 | 1.6 | 1.4 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 |
| 14 | 1.5 | E | E | E | 1.4 | 1.8 | 1.8 | 2.1 | 2.3 | 2.3 | 1.9 | 1.8 | 1.9 | 1.9 | 2.2 | 1.8 | 1.6 | 1.7 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 15 | 1.2 | E | E | E | E | E | 1.6 | 1.6 | 1.6 | 1.6 | 1.9 | 1.9 | 1.8 | 1.9 | 1.8 | 1.8 | 1.6 | 1.7 | 1.6 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 16 | E | 1.4 | E | E | E | 1.4 | 1.6 | 1.8 | 1.6 | 1.6 | 1.6 | 1.8 | 1.9 | 1.6 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 | E | E | 2.0 |
| 17 | 1.2 | E | 1.2 | 1.1 | E | 1.4 | 1.6 | 1.6 | 1.6 | 2.0 | 2.2 | 2.0 | 2.0 | 2.2 | 1.8 | 1.8 | 1.8 | 1.8 | 1.7 | 1.6 | 1.6 | 1.6 | 1.5 | 1.5 |
| 18 | 1.5 | E | E | E | E | E | 1.5 | 1.5 | 1.6 | 1.7 | 2.0 | 2.2 | 2.2 | 1.9 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 19 | 1.6 | E | E | E | E | E | 1.5 | 1.5 | 1.6 | 1.7 | 1.8 | 2.0 | (2.0) ^C | 2.0 | 1.7 | 1.9 | 1.6 | 1.5 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 |
| 20 | 1.5 | 1.2 | 1.2 | 1.2 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.7 | 2.2 | 1.9 | 3.4 | 2.0 | 1.6 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 21 | 1.5 | E | E | E | E | E | 1.4 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 2.2 | 1.8 | 1.6 | 1.6 | 1.4 | 1.5 | 1.4 | 1.5 | 1.4 | 1.4 |
| 22 | 1.2 | E | E | E | 1.4 | 1.4 | 1.5 | 1.6 | 1.7 | 1.6 | 1.8 | 1.9 | 1.8 | 1.8 | 2.1 | 1.9 | 1.8 | 1.7 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 23 | 1.1 | E | E | E | E | 1.4 | 1.6 | 1.6 | 1.7 | 1.8 | 1.9 | 1.9 | 1.9 | 2.0 | 2.2 | 2.0 | 1.9 | 2.0 | 2.0 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 24 | E | E | E | E | E | 1.3 | 1.5 | 1.6 | 1.6 | 1.6 | 1.8 | 1.9 | 1.7 | 1.9 | 1.8 | 1.8 | 1.8 | 1.7 | 1.8 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 25 | 1.4 | 1.2 | E | E | E | E | 1.5 | 1.5 | 1.6 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 | 1.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.4 | 1.5 | 1.5 | 1.5 |
| 26 | 1.6 | E | E | E | E | E | 1.5 | 1.5 | 1.5 | 1.8 | 2.0 | 2.0 | 2.0 | 2.0 | 1.6 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 |
| 27 | 1.4 | E | E | 3.0 ^A | E | E | 1.6 | 1.6 | (1.6) ^C | 1.7 | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 | 1.6 | 1.6 | C | 1.5 | E | 1.6 | 1.6 | 1.4 | 1.4 |
| 28 | E | E | E | E | E | 1.2 | 1.2 | 1.4 | 1.6 | 1.7 | 1.8 | 2.0 | 2.2 | 1.9 | 1.9 | 1.9 | 1.7 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 29 | E | E | E | E | E | E | 1.6 | 1.5 | 1.6 | 1.7 | 1.7 | 1.7 | 1.8 | 1.7 | 1.8 | 2.2 | 1.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | E |
| 30 | E | E | E | E | 1.1 | 1.2 | 1.5 | 1.5 | 1.5 | 1.8 | 1.8 | 2.0 | 2.0 | 1.9 | 2.0 | 2.0 | 1.8 | 1.8 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.7 |
| 31 | 1.2 | E | E | E | E | 1.6 | 1.6 | 1.6 | 1.6 | 1.8 | 1.9 | 1.9 | 2.0 | 1.8 | 1.9 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.4 | 1.4 |
| Mean Value | 1.4 | 1.3 | 1.6 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.6 | 1.8 | 1.9 | 1.9 | 2.0 | 1.9 | 1.9 | 1.8 | 1.7 | 1.7 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 |
| Median Value | 1.1 | E | E | E | E | 1.2 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.9 | 1.9 | 1.9 | 1.8 | 1.8 | 1.6 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Count | 31 | 31 | 31 | 30 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 30 | 30 | 31 | 31 | 31 | 31 | 31 | 31 |

fminE

Sweep 1.0 Mc to 17.0 Mc in 15 min

Manual

Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 36° 42.4' N
Long. 139° 29.3' E

IONOSPHERIC DATA

May, 1952

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 | 4.9 ^K | 3.6 ^K | 3.7 ^K | 3.3 ^K | 3.3 ^K | 3.6 ^K | 4.7 ^K | 4.9 ^K | 4.9 ^K | 5.5 ^K | 6.1 ^K | 6.6 | 7.5 | C | C | C | A | A | 6.8 | 7.0 | 6.2 | 5.9 ^P | 5.9 | 5.9 | |
| 2 | 5.2 | 5.2 | 4.9 | 4.4 ^V | 4.8 | 5.4 | 6.3 | 6.7 | 6.6 ^P | 6.6 | 6.7 | 6.8 | 8.2 | 9.0 ^{JP} | 10.5 ^P | 8.8 ^P | 7.1 | 7.3 | 6.9 | 7.3 | 6.9 | 7.3 | 7.5 | 6.3 | 6.5 |
| 3 | 6.5 | 6.0 | 5.8 | 5.6 | 5.3 | 5.8 | 5.4 | 5.2 | 6.2 | 6.2 | 6.9 | A | A | 7.7 | 8.5 | 9.3 | 7.6 | 6.8 | 6.3 | 6.7 | 6.6 | A | 15.6 ^P | 5.8 | |
| 4 | 5.7 | 5.8 ^V | 4.6 | 4.7 | 4.9 | 4.9 | 5.0 | 5.5 | A | 5.5 | C | C | C | 7.3 | (7.1) ^P | 6.8 | (7.3) | 5.7 | 6.3 | 6.3 | 7.0 | 6.4 ^P | 6.2 ^P | C | |
| 5 | C | (6.0) ^P | (5.5) ^P | C | C | C | C | 5.8 | 5.9 | 5.6 | C | C | C | 10.0 ^P | C | C | C | C | 6.9 | 8.0 | 7.7 | 6.3 | (6.5) ^P | (6.8) ^F | |
| 6 | 5.9 | 5.8 | 5.5 | 5.4 | 4.4 | 5.8 | 5.3 | 5.9 | 6.8 | 6.3 | 5.7 | 16.7 ^A | 7.7 | (9.7) ^P | 10.2 | 10.5 ^P | 10.3 ^P | 8.7 | 8.4 | 8.8 | 7.1 | 7.0 | 5.4 | 5.8 | |
| 7 | 5.0 | 5.1 | 4.9 | 4.0 | 4.7 | 6.3 | 6.1 | 6.7 | 6.3 | 6.4 | 7.1 | 8.0 | (10.2) ^P | 10.0 | 9.7 | 9.4 | 8.6 ^P | C | C | C | C | C | C | C | |
| 8 | A | C | (4.7) | 4.8 | 4.2 | F | C | C | M | C | C | C | C | A | 5.2 ^K | 6.0 ^K | (5.4) ^K | 4.7 ^K | 4.8 ^K | A | A | A | 4.5 ^K | 4.8 ^K | |
| 9 | 4.5 ^K | 4.6 ^K | 4.9 ^K | 5.2 ^K | 4.8 ^K | 4.7 ^K | B | 5.0 ^K | 5.1 ^K | 6.1 ^P | 6.5 ^P | C | C | C | C | C | C | 7.3 | C | C | C | C | C | 4.3 ^P | |
| 10 | 4.0 | C | C | 4.3 ^{JP} | 4.3 | C | C | C | C | 5.5 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 11 | C | C | 4.9 | (4.8) ^{JP} | 4.8 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 12 | C | (4.4) | (4.5) ^P | (4.2) | (4.3) | C | C | C | C | C | C | 6.2 | 6.4 | 9.1 | 9.9 ⁷ | BS | 8.6 | 6.6 | 6.1 | 6.5 | 6.3 ^P | 5.5 | 5.2 | 5.3 | |
| 13 | 5.7 | 4.9 | 4.9 | 4.5 | 4.3 | 5.0 | 5.9 | 5.8 | A | 5.5 ^K | 6.0 ^K | 6.0 ^K | 5.6 ^K | 6.2 ^K | 7.2 ^K | 8.4 ^K | (7.8) ^K | 7.1 ^K | 7.3 ^K | 7.3 ^K | 7.6 ^K | 4.7 ^K | A | 4.6 ^K | |
| 14 | AF | 4.7 ^K | 4.9 ^K | 4.9 ^K | 2.5 ^K | 3.5 ^K | 6.8 ^K | A | 5.3 ^K | 6.2 ^K | 6.1 ^K | 5.9 ^K | 5.7 ^K | 6.2 | 7.6 ^K | 8.0 ^K | 7.0 ^K | 5.7 ^K | 6.0 ^K | 5.5 ^K | (5.0) ^K | 4.5 ^K | 4.3 ^K | 4.6 ^K | |
| 15 | C | C | C | C | C | C | C | 6.4 | 5.9 | 6.2 | 6.5 | 5.5 | 6.0 | 7.0 | 7.6 | 7.7 | 8.6 | 7.6 | 6.9 | 6.9 | A | 5.7 ^F | F | A | |
| 16 | AF | 4.6 | 5.1 | 4.3 | 4.0 | 4.8 | 5.5 | 5.9 | A | 5.5 | 6.2 | 6.3 | 6.4 | 6.4 | 7.3 | A | M | M | M | M | 6.5 | 6.0 ^F | A | A | |
| 17 | A | F | F | F | 4.4 ^F | 4.8 ^F | A | 5.7 | 5.8 | 5.5 | 5.7 | 6.1 | 6.3 | 6.8 | 7.5 | 8.2 | 8.5 | 8.5 | 8.5 | 8.0 | 8.0 | A | 4.3 | A | |
| 18 | A | A | A | F | 4.3 ^F | 4.1 | 5.1 | 4.9 | A | 6.0 | 6.4 | 6.7 | 8.5 | 8.9 | 9.0 | A | A | 7.6 | 6.8 | 7.5 | 8.5 | 7.1 | 6.1 | 6.1 | |
| 19 | 4.9 | 4.2 | 3.8 | 3.8 | 4.0 | 4.9 | 4.8 | 5.2 | A | A | 5.7 | A | A | 7.8 | 7.3 | 6.4 | 6.4 | 6.7 | 7.1 | 7.4 | 7.0 | 6.6 | 5.6 | 4.1 ^{MP} | |
| 20 | 3.8 ^K | 3.8 ^K | 3.9 ^K | 3.9 ^K | 3.8 ^K | 5.2 ^K | 5.2 ^K | A | A | A | A | A | 5.5 ^K | 5.2 ^K | 6.4 ^K | 6.5 ^K | 7.5 ^K | 6.6 ^K | 6.6 ^K | (6.2) ^K | (6.2) ^K | C | C | 5.0 ^K | |
| 21 | 4.4 ^K | 4.5 ^K | 4.4 ^K | 4.7 ^K | F | 3.8 ^K | 5.8 ^K | 5.3 ^K | 5.7 ^K | 5.2 ^K | 5.5 ^K | A | 6.0 ^K | 6.1 ^K | 6.8 ^K | 7.2 ^K | A | A | A | 6.3 ^K | A | F | A | F | |
| 22 | 4.8 ^K | A | 4.7 ^K | 4.1 ^K | F | A | 5.9 ^K | A | A | A | 5.5 ^K | 5.6 ^K | 5.7 ^K | 6.4 ^K | 6.4 ^K | 6.3 ^K | 6.5 ^K | 6.4 ^K | A | 8.5 ^P | 7.0 | A | A | A | |
| 23 | F | 4.1 | 4.2 | 4.3 | 3.7 | 4.7 | 5.4 | 5.8 | 6.3 | A | 5.1 | A | 6.6 | 7.2 | 7.7 | 7.5 | 6.5 | 6.4 | 6.9 | 8.1 | 7.4 | A | A | F | |
| 24 | F | F | F | F | 4.9 ^F | 5.2 | 5.7 | 6.0 | A | 5.2 ^J | 5.4 | A | A | A | A | 7.5 | 7.5 | 8.5 | 8.5 | A | 8.0 | 7.0 | 5.8 ^F | A | |
| 25 | AF | 5.7 ^F | 5.5 ^F | 5.1 | 4.7 | 5.0 | 6.0 | 7.0 | A | A | A | A | A | A | 9.1 | 8.7 | 8.0 | 6.1 | 6.2 | 7.1 | 6.8 | 6.4 | 6.0 | 6.0 | |
| 26 | AF | 5.7 ^F | A | F | F | 5.6 ^F | 7.1 | 6.6 | 5.9 | A | A | A | 7.3 | A | C | 6.8 | 7.9 | 7.5 | 7.5 | 8.7 | (7.5) ^S | C | ST | 7.5 | |
| 27 | 7.2 | 7.5 | 6.2 | (6.2) ^P | 5.8 | 5.3 | 6.0 | B | A | A | 6.8 | 7.4 | 8.4 | 10.5 ^P | (9.4) ^P | 6.5 | A | 6.5 | (7.5) ^P | 6.5 | B | 5.7 | 5.4 | | |
| 28 | 5.1 | 5.0 | 4.9 | (4.9) ^P | 4.6 | A | 5.4 | 4.5 | A | A | 6.5 | A | C | C | 8.0 | 9.0 ^P | 8.9 | 7.0 | 7.1 | 7.6 | 8.0 ^P | 7.7 | 7.2 ^P | AS | |
| 29 | AF | (7.2) ² | SF | 5.4 | 4.9 ^{JP} | 5.4 | 4.9 | A | A | 6.5 | 5.8 | A | 5.7 | A | 6.9 | 5.9 | 6.4 | 6.5 | 6.5 | 7.6 | 7.5 | 7.2 | F | 7.2 | |
| 30 | 6.0 | 5.7 | 5.2 | A | 4.0 ^{VF} | 4.9 | 6.7 | 7.5 | 6.6 | A | 5.4 | 5.8 | 6.4 | 7.4 | 8.7 | 9.1 | 8.4 | 8.5 | 7.6 | 7.8 | 7.7 | 7.7 | 7.6 ^{FF} | F | |
| 31 | (7.0) ^F | (7.0) ^F | 6.1 ^{FZ} | 3.8 | 3.9 | (4.5) ^P | 6.0 | 7.8 | 7.0 | 7.5 | 5.6 | 6.0 | A | A | 9.0 | 9.0 | 8.9 | 9.0 | 9.0 | A | 6.9 ^{BS} | (6.5) ^P | (6.5) ^P | 6.9 ^F | |
| Mean Value | 5.3 | 5.3 | 4.9 | 4.7 | 4.4 | 4.9 | 5.7 | 6.0 | 6.0 | 6.0 | 6.2 | 6.4 | 7.6 | 8.0 | 8.0 | 8.0 | 7.8 | 7.1 | 6.9 | 7.3 | 7.1 | 6.3 | 5.8 | 5.8 | |
| Median Value | 5.1 | 5.1 | 4.9 | 4.6 | 4.4 | 4.9 | 5.7 | 5.8 | 5.9 | 6.1 | 5.9 | 6.1 | 6.4 | 7.4 | 7.6 | 7.8 | 7.9 | 7.0 | 6.8 | 7.4 | 7.0 | 6.4 | 5.9 | 5.8 | |
| Count | 17 | 23 | 24 | 24 | 26 | 23 | 23 | 20 | 16 | 17 | 20 | 16 | 19 | 21 | 25 | 24 | 23 | 23 | 24 | 24 | 23 | 19 | 17 | 17 | |

K 1

Automatic

Manual

Sweep 1.0 Mc to 17.2 Mc in 2 min

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 35° 42.4' N
Long. 139° 28.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

May, 1952

h_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 | 330 ^K | 350 ^K | 340 ^K | 360 ^K | 310 ^K | 300 ^K | 270 ^K | A | K | U | K | U | 330 | C | C | C | A | A | 330 | 330 | 340 | 410 ^P | 360 | 370 |
| 2 | 370 | 400 | 340 | 380 ^V | 320 | 260 | 290 | 300 | 340 | U | 350 | A | 400 | (350) ^P | (350) ^P | 300 ^P | 300 ^P | 320 | 310 | 380 | 380 | 380 | 320 | 330 |
| 3 | 380 | 400 | 370 | 380 | 420 | 290 | 300 | 340 | U | U | 330 | A | A | 320 | 370 | 300 | 300 | 310 | 350 | 350 | 360 | A | 380 | A |
| 4 | 330 | 380 ^V | 370 | 400 | 340 ^F | 270 | 270 | 290 | A | U | C | C | C | 370 | (360) ^F | 310 | (310) | 320 | 240 | 340 | 340 | 320 | 310 | C |
| 5 | C | (380) | (390) | C | C | C | C | 300 | 310 | U | C | C | C | 350 | C | C | C | C | 370 | A | 270 | 360 | (370) ^F | (370) ^F |
| 6 | 370 | 400 | 350 | 330 | 400 | 280 | 300 | 310 | 300 | A | A | A | 380 | (340) ^P | 310 | (290) ^P | 310 ^P | 300 | 340 | 370 | 350 | 380 | A | 400 |
| 7 | 380 | 390 | 310 | 400 | 350 | 260 | 240 | 280 | 280 | A | 380 | A | (330) | 310 | 320 | 310 | 340 | C | C | C | C | C | C | C |
| 8 | A | C | (420) | 400 | 420 | F | C | C | C | C | C | C | C | A | U | 350 ^K | (340) ^A | 320 | 400 | A | A | 410 | 410 | 440 |
| 9 | 400 ^K | 450 | 400 ^K | 360 ^K | 290 ^K | 260 ^K | B | K | A | K | 350 ^P | 320 | C | C | C | C | C | C | C | C | C | C | C | C |
| 10 | C | C | C | 310 ^P | 350 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 11 | C | C | 370 ^P | (380) ^P | 380 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 12 | C | (320) | (370) | (330) | C | C | C | C | C | C | C | U | 480 | 400 | (320) ^P | BS | 310 | 290 | 310 | 320 | 320 | 330 | 380 | 370 |
| 13 | 380 | 350 | 370 | 350 | 320 | 340 | 290 | 340 | A | U | U | U | U | U | U | 360 ^K | (310) ^K | 310 ^K | 310 ^K | 310 ^K | 300 ^K | 330 ^K | A | A |
| 14 | AF | K | 350 ^K | 350 ^K | 250 ^K | 260 ^K | 260 ^K | A | U | U | 350 ^K | A | U | U | U | 350 ^K | 360 ^K | 290 ^K | 280 | 300 ^K | 300 ^K | 360 ^K | A | A |
| 15 | C | C | C | C | C | C | C | C | C | C | C | U | U | U | 350 | 340 | 320 | 310 | 270 | A | 300 | 350 ^F | F | A |
| 16 | AF | 400 | 350 ^Z | 350 | 350 ^F | 270 ^F | 290 | A | U | U | U | U | U | U | U | 340 | A | M | M | M | 320 | 350 ^F | A | A |
| 17 | A | F | F | F | 350 ^F | (310) ^F | A | A | U | U | U | U | U | U | 370 | 370 | 330 | 330 | 370 | (430) ^P | A | A | 450 | A |
| 18 | A | A | A | F | F | 260 ^F | 270 | A | A | A | 370 | 420 | A | 410 | 350 | 350 | A | 700 | 350 | 370 | 380 | 350 | 380 | 370 |
| 19 | 320 | 310 | S | 390 ^F | 360 ^F | 300 ^F | 280 | 300 | A | A | A | U | A | 350 | 320 | 350 | 350 | 350 | 320 | 310 | 310 | 310 | 370 | 310 |
| 20 | 400 ^K | 380 ^K | 350 ^K | 350 ^K | 320 ^K | 260 ^K | 270 ^K | A | A | A | A | A | U | U | U | 350 ^K | 320 ^K | 310 ^K | 310 ^K | 340 ^K | 340 ^K | C | C | C |
| 21 | 400 ^K | 350 ^K | 320 ^K | (300) ^K | F | 330 ^K | 300 ^K | K | U | U | U | A | U | U | U | 340 ^K | 300 ^K | A | A | A | A | F | A | F |
| 22 | 450 ^K | A | 320 ^K | 350 ^K | F | A | A | A | A | A | U | U | U | U | U | 350 ^K | 350 ^K | 350 ^K | 340 | 350 | 270 | A | A | A |
| 23 | F | 340 | 380 | 320 | 310 ^F | 280 | 210 | U | 200 | A | U | A | A | 350 | 320 | 300 | 320 | 310 | 320 | 310 | 310 ^P | A | A | F |
| 24 | F | F | F | F | 300 ^F | 250 | 250 | U | A | A | U | A | A | 350 | 320 | 350 | 330 | 320 | 320 | 330 | 330 | 350 | A | A |
| 25 | AF | 400 | 310 | 320 | 310 | 320 | 280 | 290 | A | A | A | A | A | A | 320 | 300 | 290 | 320 | 330 | 330 | 330 | 350 | 350 | 350 |
| 26 | AF | F | (300) ^F | F | F | 310 ^F | 260 | 260 | 300 | A | A | A | A | A | C | 350 | 330 | 330 | 300 | 330 | (320) ^S | C | 350 | 350 |
| 27 | 400 | 320 | 390 | (320) ^F | 380 ^F | A | 330 | B | A | A | A | U | 520 | 440 | 300 | (300) ^P | 300 | A | 350 | (330) ^P | 310 | B | 420 | 420 |
| 28 | 420 | 410 | 410 | (390) | 350 | A | 270 | 260 | A | A | 370 | A | C | C | A | 320 ^P | 320 | A | 330 | 350 | 350 | A | 270 | AS |
| 29 | AF | AF | SF | SF | (390) ^F | 330 | 330 | A | A | 370 | 380 | A | 480 | A | 330 | 370 | 350 | 390 | 320 | 350 | 350 | 370 | F | 350 |
| 30 | A | 350 | 340 | A | 390 ^{VF} | 320 | 310 | 280 | 200 | A | U | U | 390 | 400 | 350 | 330 | 350 | 330 | 320 | 330 | 350 | 370 ^{VF} | F | 370 |
| 31 | (350) ^F | (320) ^F | 320 | 350 | 400 | A | 330 | 290 | 300 | 270 ^P | A | U | A | A | 360 | 350 | 350 | 350 | 330 | 310 | A | (360) ^F | (400) ^F | 370 |
| Mean Value | 380 | 370 | 360 | 350 | 350 | 290 | 290 | 290 | 270 | 330 | 350 | 400 | 410 | 360 | 340 | 320 | 320 | 320 | 320 | 330 | 330 | 340 | 360 | 370 |
| Median Value | 380 | 360 | 350 | 350 | 350 | 290 | 290 | 290 | 300 | 340 | 350 | 400 | 390 | 350 | 340 | 320 | 320 | 320 | 320 | 330 | 340 | 360 | 380 | 370 |
| Count | 15 | 22 | 23 | 26 | 21 | 23 | 17 | 11 | 11 | 11 | 11 | 15 | 9 | 15 | 23 | 24 | 23 | 21 | 23 | 22 | 22 | 18 | 15 | 15 |

h_pF₂

Sweep 1 0 Mc to 17.2 Mc in 2..... min

Manual Automatic

K 2

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 35° 42.4' N
Long. 139° 28.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

h'f₂

May, 1952

| 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 ^K | 280 ^K | 290 ^K | 300 ^K | 250 ^K | 260 ^K | 260 ^K | 260 ^K | 270 ^K | 350 ^K | 390 ^K | 330 | 320 | C | C | C | A | A | 270 ^A | 270 ^A | 270 ^A | 300 | 300 | 300 |
| 2 | 200 | 300 | 240 | 270 | 260 | 230 | 240 | 260 | 300 | 330 | 350 | A | 370 | 330 | 300 | 270 | 270 | 270 | 300 | 300 | 300 | 310 | 250 | 300 |
| 3 | 300 | 310 | 290 | 250 | 300 | 260 | 270 | 250 | 330 | 350 | 330 | A | A | 320 | 310 | 280 | 280 | 280 | 270 | 310 | 340 | A | 340 | A |
| 4 | 320 | 310 | 290 | 350 | 270 | 240 | 270 | 280 | A | 470 | C | C | C | C | 350 | 320 | 310 | 290 | 290 | 310 | 260 | 270 | 260 | C |
| 5 | 340 | A | 300 | C | C | C | C | 300 | 310 | 470 | C | C | C | 310 | C | C | C | C | 290 | A | A | 230 | 270 | (290) |
| 6 | 310 | 290 | 270 | 250 | 250 | 250 | 250 | 300 | 270 | 280 | A | A | A | 330 | 300 | 290 | 280 | 250 | 270 | 250 | 240 | 260 | A | 320 |
| 7 | 260 | 300 | 270 | 300 | 260 | 230 | 230 | 250 | 260 | 270 | A | 360 | 320 | 300 | 300 | 300 | 300 | 300 | 250 | 270 | 240 | 260 | 310 | 260 |
| 8 | A | 340 | 340 | 340 | 350 | A | A | C | M | A | A | C | C | A | 480 | 340 ^K | 330 ^K | 320 ^K | 350 ^K | A | A | 310 ^K | 330 | 350 ^K |
| 9 | 320 ^K | 350 ^K | 310 | 250 ^K | 230 ^K | 240 ^K | 220 ^K | 260 ^K | A | 350 | 320 | 360 | 350 | B | 320 | 290 | 290 | 260 | A | A | A | 310 | A | 300 |
| 10 | 330 | A | A | 270 | 280 | 250 | 250 | 270 | C | B | C | C | 310 | 320 | 320 | 300 | C | C | A | A | A | C | A | 300 |
| 11 | 310 | 290 | 290 | 290 | 290 | 250 | 270 | 260 | C | C | C | C | C | C | C | (300) | 270 | 270 | 260 | A | A | 260 | 260 | 260 |
| 12 | 320 | 310 | 300 | 300 | 290 | 290 | 260 | C | C | C | C | 340 | 480 | 370 | 300 | 280 | 270 | 260 | 260 | 250 | 250 | 260 | 250 | 290 |
| 13 | 270 | 260 | 260 | 270 | 270 | 270 | 330 | A | 360 ^K | 340 ^K | 340 ^K | 310 ^K | 340 ^K | 350 ^K | 350 ^K | 300 | 300 | 300 | 300 | 250 | 250 | 230 | A | AF |
| 14 | AF | AF | A | 240 ^K | 200 ^K | 230 | 240 | A | 440 ^K | 340 ^K | A | 350 | 430 | 410 | 320 | 290 | 270 | 270 | 270 | 270 | 240 | 280 | A | 310 |
| 15 | C | C | C | C | C | C | C | C | 290 | 290 | 300 | 430 | 380 | 350 | 320 | 310 | 300 | 260 | 260 | A | A | AF | AF | A |
| 16 | A | 290 ^F | 260 | 250 | 260 | 260 | 270 | 250 | 270 | A | 380 | 340 | 340 | 370 | 330 | A | M | M | M | M | M | A | A | A |
| 17 | A | A | 260 | AF | 320 ^F | 250 | A | A | 270 | 310 | 310 | 350 | 370 | 360 | 360 | 320 | 300 | 280 | 310 | A | A | A | A | A |
| 18 | A | A | A | F | 300 | 220 | 240 | A | A | A | 360 | 400 | 440 | 400 | 310 | 320 | 320 | 300 | A | A | 270 | 250 | 270 | 270 |
| 19 | 250 | 250 | 330 | A | 290 | 220 | 280 | 280 | A | A | A | 420 | A | 320 | 320 | 350 | 340 | 310 | 300 | 250 | 270 | 250 | 270 | 270 |
| 20 | 330 ^K | 340 ^K | 300 ^K | 290 ^K | 260 ^K | 240 ^K | 250 ^K | A | A | A | A | A | 410 | 490 | 350 | 350 | 300 | 300 | 290 | 280 | 250 | C | C | 310 |
| 21 | 330 ^K | 300 ^K | 250 ^K | 220 ^K | 250 ^K | 220 ^K | 280 ^K | 320 ^K | 310 ^K | 470 ^K | 470 ^K | A | 400 ^K | 390 ^K | 340 ^K | 300 ^K | 300 ^K | A | A | A | A | A | A | A |
| 22 | 390 ^K | 340 ^K | 270 ^K | 250 ^K | 250 ^K | A | 290 | A | A | A | 400 ^K | 420 | 400 | 370 | 350 | 340 | 330 | 320 | A | 280 | 240 | A | A | A |
| 23 | 270 ^F | 260 | 320 | A | 280 | 240 | 290 | 310 | 290 | A | A | A | A | 350 | 310 | 300 | 300 | 320 | 290 | 250 | 230 | A | A | F |
| 24 | A | 320 | 300 | 300 | 230 ^F | 240 ^F | 250 | 240 | A | A | 350 | A | A | 340 | 320 | 340 | 310 | 310 | A | A | A | A | AF | AF |
| 25 | AF | AF | 280 | 250 | 250 | 290 | 270 | 260 | A | A | A | A | A | A | 310 | 290 | 280 | 310 | A | A | 260 | 300 | 280 | AF |
| 26 | 350 | 250 | A | F | 270 | 240 | 250 | 250 | H | A | A | A | 340 | A | C | 340 | 320 | 290 | 310 | 270 | AF | C | 350 | 300 |
| 27 | 350 | 310 | A | A | 330 | A | 320 | B | A | A | A | 470 | 500 | 400 | 270 | 280 | 290 | A | 270 | 250 | 270 | AF | AF | 370 |
| 28 | 350 | 350 | 350 | A | AF | A | 250 | 250 | A | A | 360 | A | C | C | A | 310 | 300 | A | 300 | A | 270 | A | A | 280 |
| 29 | AF | AF | SF | SF | 310 | 270 | 300 | A | A | 350 | 370 | A | 450 | A | 330 | 370 | 340 | 330 | 300 | 280 | 300 | A | A | 280 |
| 30 | A | 280 | 260 | A | 320 | 260 | 310 | 280 | 300 | A | 280 | 460 | 390 | 320 | 320 | 320 | 320 | 290 | 270 | 280 | 250 | 290 | 300 | 300 |
| 31 | 250 | 270 | 230 | 310 | 350 | A | 330 | 280 | 300 | 270 | 320 | 430 | A | A | 330 | 320 | 320 | 300 | 280 | A | A | A | 330 | 300 |
| Mean Value | 310 | 310 | 280 | 280 | 270 | 250 | 270 | 280 | 310 | 350 | 350 | 380 | 380 | 360 | 330 | 310 | 290 | 280 | 270 | 270 | 260 | 280 | 290 | 300 |
| Median Value | 320 | 300 | 280 | 290 | 270 | 250 | 270 | 270 | 300 | 350 | 350 | 380 | 380 | 350 | 320 | 300 | 300 | 290 | 290 | 260 | 260 | 280 | 280 | 300 |
| Count | 21 | 24 | 24 | 21 | 24 | 24 | 26 | 21 | 15 | 15 | 16 | 15 | 18 | 22 | 26 | 28 | 24 | 24 | 23 | 21 | 19 | 17 | 18 | 21 |

h'wp... 1.0 Mc to 17.2 Mc in 2 min Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 36° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

foF1

May. 1952

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 | A | 4.4 | 4.7 | 4.3 | 4.5 | C | C | C | A | A | A | | | | | |
| 2 | | | | | | Q | Q | L | 4.4 | 4.6 | A | A | 5.0 | A | A | A | A | A | A | | | | | |
| 3 | | | | | | Q | L | 3.7 | 4.3 | 4.5 | A | A | A | 4.5 | 4.4 | 4.4 | 3.9 | A | A | | | | | |
| 4 | | | | | | Q | Q | A | 4.5 | 4.4 | C | C | C | C | C | A | 4.0 | Q | L | | | | | |
| 5 | | | | | | C | C | 4.0 | A | 4.7 | C | C | C | C | C | C | C | C | C | | | | | |
| 6 | | | | | | Q | L | L | 4.4 | 4.4 | A | A | A | A | 4.7 | A | 4.0 | 4.2 | L | | | | | |
| 7 | | | | | | Q | Q | Q | A | L | A | A | 4.8 ^L | A | 4.7 | 4.8 | L | 4.6 | 3.6 | Q | | | | |
| 8 | | | | | | | A | A | M | A | A | A | A | A | A | 4.2 | [3.8] ^A | 3.5 | | | | | | |
| 9 | | | | | | Q | Q | L | A | 4.6 | 4.5 | 4.7 | 4.6 | B | 4.7 | 4.4 | 4.2 | L | | | | | | |
| 10 | | | | | | Q | Q | 3.8 | 4.1 | 4.3 | A | 4.7 | 4.6 | 4.5 | 4.6 | A | A | A | A | | | | | |
| 11 | | | | | | Q | L | A | A | A | 4.8 | 4.4 | 4.5 | 4.3 | 4.6 | A | A | A | A | | | | | |
| 12 | | | | | | Q | A | A | A | A | A | 4.6 | 4.6 | 4.4 | 4.4 | 4.3 | 3.9 | L | Q | | | | | |
| 13 | | | | | | Q | L | 4.0 | 4.5 ^J | 4.4 | 4.5 | 4.4 ^H | 4.3 | 4.3 | 4.5 | 4.1 | C | L | L | | | | | |
| 14 | | | | | | Q | A | A | 4.2 | A | A | 4.6 | 4.3 | 4.2 | 4.1 | 3.8 | L | Q | | | | | | |
| 15 | | | | | | C | C | 4.2 | L | A | 4.5 | 4.9 | 4.5 | 4.5 | 4.4 | 4.1 | 4.0 | A | M | | | | | |
| 16 | | | | | | Q | L | L | A | A | A | A | A | A | 4.4 | A | A | M | M | | | | | |
| 17 | | | | | | Q | A | A | A | 4.5 | 4.4 | 4.5 | 4.5 | A | 4.4 | 4.3 | 4.1 | A | A | | | | | |
| 18 | | | | | | Q | Q | A | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 19 | | | | | | Q | 3.6 | L | A | A | A | A | A | A | 4.5 | A | A | A | A | | | | | |
| 20 | | | | | | Q | L | A | A | A | A | A | 4.4 | 4.4 | 4.2 | A | 4.0 | 3.7 | A | | | | | |
| 21 | | | | | | Q | L | L | A | 4.5 | 4.4 | A | A | 4.5 | 4.3 | 4.2 | A | A | L | | | | | |
| 22 | | | | | | A | L | A | A | A | 4.7 | 4.7 | 5.0 | 4.5 | 4.5 | 4.3 | A | A | A | | | | | |
| 23 | | | | | | Q | L | A | A | A | 4.3 ^J | A | A | A | 4.4 | 4.3 | 4.2 | A | A | L | | | | |
| 24 | | | | | | Q | L | A | A | 4.4 ^J | 4.5 | A | A | A | 4.3 | A | 4.2 | A | A | A | | | | |
| 25 | | | | | | L | L | A | A | A | A | A | A | A | A | 4.5 | 4.2 | 3.7 | A | | | | | |
| 26 | | | | | | L | A | A | A | A | A | A | A | A | A | C | 4.5 | A | A | A | | | | |
| 27 | | | | | | A | A | A | A | A | A | 4.5 | 4.3 | 4.4 | 4.4 | 4.3 | 4.2 | A | Q | | | | | |
| 28 | | | | | | A | A | Q | A | A | A | A | C | C | A | 4.4 | A | A | A | | | | | |
| 29 | | | | | | A | A | A | A | A | A | 4.5 ^H | 4.6 ^H | A | 4.5 ^H | 4.3 | 4.1 | 3.9 | L | | | | | |
| 30 | | | | | | Q | A | 4.0 | 4.3 | A | 4.3 | 5.0 ^H | 4.7 | 4.5 | 4.5 ^H | A | 4.3 | 3.7 | Q | | | | | |
| 31 | | | | | | | (4.0) ^L | 4.1 | 4.4 | A | A | A | A | A | 4.5 | 4.3 | 4.2 | 4.2 | A | A | | | | |
| Mean Value | | | | | | | 3.8 | 4.0 | 4.3 | 4.5 | 4.5 | 4.6 | 4.6 | 4.5 | 4.4 | 4.3 | 4.1 | 3.7 | | | | | | |
| Median Value | | | | | | | 3.8 | 4.0 | 4.4 | 4.4 | 4.5 | 4.6 | 4.6 | 4.5 | 4.4 | 4.3 | 4.1 | 3.7 | | | | | | |
| Count | | | | | | | Z | T | 9 | 12 | 10 | 13 | 15 | 18 | 18 | 20 | 18 | 6 | | | | | | |

foF1

Sweep 1.0 Mc to 17.2 Mc in 2 min

Manual Automatic

K4

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

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

IONOSPHERIC DATA

135° E Mean Time

R'F1

May. 1952

| 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 | A | 250 | A | A | A | C | C | C | A | A | A | | | | | |
| 2 | | | | | | Q | Q | 240 | 250 ^A | 230 | A | A | A | A | A | A | A | A | A | | | | | |
| 3 | | | | | | Q | Q | 250 | A | 220 | A | A | A | 210 | 230 | 240 | 250 | A | | | | | | |
| 4 | | | | | | Q | Q | A | A | 240 | C | C | C | C | C | A | 300 | Q | 250 | | | | | |
| 5 | | | | | | C | C | 260 | A | A | C | C | C | C | C | C | C | C | C | | | | | |
| 6 | | | | | | Q | Q | 250 | 260 | 250 | A | A | A | 270 ^A | A | 200 | 270 | 240 | | | | | | |
| 7 | | | | | | Q | Q | Q | A | 240 | A | A | A | A | A | 240 | 240 | 230 | Q | | | | | |
| 8 | | | | | | | A | A | M | A | A | A | A | A | A | A | A | A | | | | | | |
| 9 | | | | | | | Q | Q | 240 | 250 | A | 220 | 210 | 200 | 230 | A | 240 | 230 | | | | | | |
| 10 | | | | | | Q | Q | 250 | A | 210 | A | B | 240 | 240 | 250 | A | A | A | A | | | | | |
| 11 | | | | | | Q | Q | 250 | A | A | 200 | 200 | 200 | 190 | 230 | 230 | 240 | 260 | A | | | | | |
| 12 | | | | | | Q | Q | 250 | A | A | A | 210 | 200 | 210 | 210 | 230 | 240 | 240 | Q | | | | | |
| 13 | | | | | | Q | Q | 250 | A | A | 210 | 210 | 200 | 200 | 220 | 230 | C | A | 260 | | | | | |
| 14 | | | | | | Q | Q | A | A | 220 | A | A | 220 | 210 | 230 | 250 | 240 | 260 | Q | | | | | |
| 15 | | | | | | C | C | 250 | 250 | A | 200 | 250 | 200 | 200 | 210 | 240 | 250 | A | | | | | | |
| 16 | | | | | | Q | Q | 250 | A | A | A | A | A | A | A | A | M | M | M | | | | | |
| 17 | | | | | | Q | Q | A | A | 250 | 220 | 200 | 210 | A | A | 250 | 250 | A | A | | | | | |
| 18 | | | | | | Q | Q | A | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 19 | | | | | | Q | Q | 210 | 250 ^A | A | A | A | 230 | A | A | A | A | A | A | | | | | |
| 20 | | | | | | Q | Q | 240 | A | A | A | A | 240 | 230 | 220 | A | 240 | 250 | A | | | | | |
| 21 | | | | | | Q | Q | 250 | A | 350 ^A | 250 | A | A | 270 | 220 | 250 | A | A | 250 ^A | | | | | |
| 22 | | | | | | A | A | 260 | A | A | A | 230 | 200 | 250 | 220 | 240 | A | A | A | | | | | |
| 23 | | | | | | Q | Q | 250 ^A | A | A | 220 | A | A | A | A | A | 260 | A | A | | | | | |
| 24 | | | | | | Q | Q | 240 | A | 270 | 240 | A | A | A | A | A | A | A | 250 ^F | | | | | |
| 25 | | | | | | 250 ^F | 240 | A | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 26 | | | | | | 240 | 240 | A | A | A | A | A | A | A | A | A | 250 | 240 | A | | | | | |
| 27 | | | | | | A | A | A | A | A | A | A | A | A | C | 240 | A | A | A | | | | | |
| 28 | | | | | | A | A | Q | A | A | A | 240 | 230 | A | 250 | 230 | A | A | Q | | | | | |
| 29 | | | | | | A | A | A | A | A | A | A | C | C | A | 220 | 200 | A | A | | | | | |
| 30 | | | | | | Q | A | 260 | 260 | A | 230 | AH | 260 | 220 | 240 ^H | A | 270 | A | 260 | | | | | |
| 31 | | | | | | 250 | A | 270 | A | A | A | A | A | A | A | B | A | A | Q | | | | | |
| Mean Value | | | | | | 250 | 240 | 250 | 260 | 250 | 220 | 210 | 220 | 230 | 230 | 240 | 250 | 250 | 250 | | | | | |
| Median Value | | | | | | 250 | 250 | 250 | 260 | 240 | 220 | 200 | 220 | 220 | 230 | 240 | 240 | 240 | 240 | | | | | |
| Count | | | | | | 1 | 14 | 7 | 7 | 11 | 7 | 9 | 14 | 14 | 15 | 16 | 16 | 16 | 16 | | | | | |

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 35° 42.4' N
Long. 139° 29.3' E

IONOSPHERIC DATA

Kokubunji Tokyo

May. 1952

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

f_oE

Sweep 1.0 Mc to 17.2 Mc in 2 min

Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Khatama-gun, Tokyo, Japan

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

IONOSPHERIC DATA

135° E Mean Time
f_oF₂

May, 1952

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

Sweep 1.0 Mc to 17.2 Mc in 2 min Manual Automatic

K 7

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 35° 42.4' N
Long. 139° 29.8' E

Kokubunji Tokyo

IONOSPHERIC DATA

fEs

May. 1952

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 | 2.0 | 2.1Y | 2.4 | 2.3 | E | G | 3.3 | 5.8 | 5.2 | 4.7 | 4.7 | 4.7 | 4.3 | C | C | C | 10.1 | 9.0 | 6.7 | 3.7 | 3.0 | 2.6 | E | M | |
| 2 | E | E | E | 2.1Y | 3.1F | 3.2 | 3.2 | 3.9 | 4.5 | 4.5 | 7.0 | 7.6 | 5.8 | 7.6 | 7.0 | 5.9 | 5.8 | 6.0F | 6.0F | 4.6F | 4.5 | 4.8 | 2.4 | E | |
| 3 | 5.5 | 3.0 | 2.5 | 2.6F | 2.9F | 2.5 | 3.5 | 4.0 | 5.3 | 6.7 | 8.0 | 10.2 | 9.5 | G | 4.4 | 3.7 | 3.6 | 6.0 | 7.0 | 7.7 | 4.7 | 6.8 | 4.3 | 6.8 | |
| 4 | 4.0 | 3.5 | 3.3 | 4.0 | 3.7 | 2.9 | 4.8 | 4.9 | 5.5 | 3.2 | C | 5.8 | 5.8 | C | 5.8 | 6.5 | 4.5 | G | 4.9 | 5.5 | 3.2 | 3.0 | 4.7 | 4.9 | |
| 5 | 4.3 | 4.7 | 4.0 | C | C | C | C | 3.9 | 6.0 | 5.4 | C | C | C | C | C | C | C | C | C | 5.5 | 8.0 | 5.9 | 3.3 | E | C |
| 6 | E | E | E | E | 2.4Y | G | 2.9 | 3.3 | 4.9 | 6.0 | 6.5 | 7.5 | 8.8 | 4.8 | 6.8 | B | G | 4.5 | 3.9 | 2.9 | 2.9 | 3.8 | 6.0 | 3.9 | |
| 7 | 2.9 | 3.9 | 2.4F | 2.4 | 2.6 | G | 3.8 | 4.9 | 5.8 | 4.6 | 6.7 | 5.4 | 6.4 | 5.4 | 5.4 | 4.9 | G | G | 2.5 | E | 2.0 | 1.9 | E | 2.4 | |
| 8 | 6.8 | 4.4 | 2.9 | 2.5 | 2.3 | 4.2 | 4.0 | 4.0 | M | 5.5 | 6.9 | 5.0 | 5.3 | 8.0 | 5.0 | 8.5Y | 8.0Y | 5.5 | 5.0 | 5.9 | 4.3 | 5.7 | 4.0 | 4.0 | |
| 9 | 2.9 | 2.4 | 2.6 | 2.4FY | 2.4Y | G | G | G | 4.9 | G | G | G | 4.3 | 4.3 | 3.3 | G | G | G | 4.3 | 4.0 | 3.3 | 2.9 | 4.5 | 2.9 | |
| 10 | E | 3.0 | 3.0 | 2.7 | 2.9 | G | G | G | 4.5 | 4.3 | 4.5 | G | G | G | G | 5.5 | 5.5 | 7.5Y | 6.5 | 5.5 | 5.7 | 4.3 | 3.9 | 2.4 | |
| 11 | 2.8F | 2.4Y | 1.5 | E | 2.4 | 2.5 | G | 4.7 | 5.5Y | 5.8 | G | 4.5 | G | G | 4.0 | G | G | 4.1 | 3.8 | 4.5 | 3.9 | 4.78 | 3.0 | 3.8 | |
| 12 | 3.8 | 3.0 | 2.5 | 2.5Y | 2.6 | 2.8 | 3.7 | 4.2 | 4.9 | 5.5 | 5.5 | 4.3 | 3.9 | G | 3.8 | 3.6 | 3.9 | 4.0 | 3.3 | 2.9 | 2.9 | 2.4 | 4.0 | 3.1 | |
| 13 | 2.3 | E | 2.4Y | 2.5 | 2.9S | 2.6 | 3.6 | 5.8 | 6.0 | 5.0 | 4.2 | 3.9 | G | G | 4.0 | 4.3 | C | 3.7 | 2.9 | 3.0 | 5.5Y | 4.3 | 7.0 | 5.8F | |
| 14 | 5.5F | 4.7 | 6.0 | 3.3 | 3.0F | 3.0 | 3.9 | 5.5 | 4.0 | 8.8 | 10.2 | 9.0 | 5.7 | 4.0 | 4.4 | 4.5 | 4.7 | 3.5 | 3.3 | 2.7 | 4.5 | 3.0 | 6.0F | 3.2 | |
| 15 | C | C | C | C | C | C | C | 4.5 | 5.1 | 5.9 | 4.6 | 6.0 | 5.5F | 5.6 | 4.3F | 4.9 | G | 5.4 | 6.7 | 8.5 | 8.0 | 3.5 | 6.0 | 6.7 | |
| 16 | 6.0 | 3.7 | 2.9 | 2.4FY | 2.0Y | 2.9 | 3.3 | 4.9 | 5.7 | 6.5 | 5.8 | 6.0 | 5.7 | 4.9 | 5.0 | 10.0 | M | M | M | M | 7.0 | 5.5 | 6.7Y | 8.5Y | |
| 17 | 7.0 | 4.5F | 3.2F | 4.8F | 3.8F | 2.5F | 5.9 | 7.0 | 7.6Y | 7.0 | 5.0 | 5.2 | 5.0 | 7.5 | 5.7 | 4.6 | 4.3 | 6.5 | 8.3 | 8.5 | 9.4 | 9.8 | 9.0 | 7.5 | |
| 18 | 6.8 | 5.5Y | 5.2 | 4.5 | 2.5F | 2.5 | 3.2 | 5.5 | 5.8 | 7.8 | 6.5 | 6.6 | 7.6 | 5.5 | 6.5 | 7.0 | 9.9 | 7.2 | 10.0 | 7.0 | 4.4 | 3.2 | 4.2 | 3.0 | |
| 19 | 3.8 | 3.8Y | 2.5 | 3.8 | 2.5 | 2.6 | G | 4.0 | 6.0 | 6.1 | 5.6 | 6.6 | 8.3 | 4.5 | 5.5 | 5.1 | 5.3 | 4.2 | 4.2 | 3.5 | 4.4 | 5.5 | 2.4F | 3.6F | |
| 20 | 3.6 | 2.7 | 2.4 | 2.4 | 2.6 | 2.9 | 4.0 | 5.4 | 6.7 | 6.0 | 8.0 | 7.6 | 4.8 | 4.6 | 4.5 | 5.0 | 4.2 | 4.2 | 4.9 | 2.9 | 2.7 | C | C | 6.4 | |
| 21 | 3.0 | 3.8 | 2.5 | 2.8 | 2.7F | 2.6 | 3.4 | 4.7 | 5.3 | 4.9 | 4.9 | 6.5 | 6.7 | 6.4 | 5.4 | 4.5 | 7.1 | 7.4 | 3.1 | 3.9 | 8.7 | 5.7 | 9.0 | 5.5 | |
| 22 | 7.0 | 6.7 | 3.5 | 3.2 | 3.0 | 4.7 | 4.0 | 6.5 | 6.2 | 6.8F | 7.3 | 6.6 | 4.3 | 7.5 | 9.0 | G | 5.5 | 4.9 | 10.0 | 8.8 | 9.3 | 9.0 | 8.0 | 7.4 | |
| 23 | 3.8 | 7.0 | 3.8 | 5.8 | 2.5F | 3.0 | 4.9 | 5.7 | 6.1 | 7.0 | 8.3 | 7.4 | 7.5 | 7.5 | 5.5 | 6.5 | 5.4 | 6.9 | 5.8F | 3.7F | 3.4 | 7.0 | 6.8 | 5.7 | |
| 24 | 5.1 | 4.3 | 3.8 | 3.8 | 4.4 | 4.3 | 4.0 | 5.9 | 8.7 | 6.0 | 8.5 | 10.1 | 7.5 | 4.9 | 5.3 | 6.6F | 7.0F | 8.3 | 7.2 | 7.8 | 7.8 | 6.5F | 8.5 | 6.4F | |
| 25 | 4.5F | 5.5F | 3.5F | 2.4 | 3.2 | 4.7F | 3.8F | 5.6 | 8.0 | 7.9 | 8.0 | 10.0 | 9.8 | 10.1 | 8.4 | 5.8 | G | G | 3.8 | 3.0 | 3.2 | 7.2 | 3.9 | 7.2 | |
| 26 | 7.0F | 7.2 | 6.5 | 4.5 | 3.3 | 3.0 | G | 4.8 | 4.8 | 7.0 | 8.5 | 9.5 | 7.2 | 12.5 | C | 5.0 | 6.7 | 6.5 | 6.0 | 4.8 | 4.6F | C | 4.5 | 7.1 | |
| 27 | 7.0 | 6.5 | 7.5 | 6.7 | 5.2 | 5.5 | 6.0 | 5.2 | 10.5 | 10.5 | 10.0 | 6.0S | 5.5 | 5.1 | 5.2 | 4.6 | 4.8 | 7.0 | 3.7 | 3.9 | 3.1F | 4.3F | 4.6F | 3.9 | |
| 28 | 4.5 | 3.5 | 3.5 | 3.8 | 4.3F | 6.6 | 4.9 | 6.0 | 7.6 | 10.5 | 10.8 | 11.5 | C | C | 8.0 | 9.3 | 9.0 | 8.5 | 4.2 | 8.5Y | 6.5S | 6.8 | 4.2 | 7.2 | |
| 29 | 6.7 | 7.3 | 4.3 | 4.5 | 2.3 | 4.0 | G | 5.5 | 8.0 | 8.5 | 6.7F | 8.0 | 5.8 | 7.5 | 4.1 | G | G | 3.6 | 3.1F | 2.9 | 4.8 | 6.7 | 4.7F | 3.5 | |
| 30 | 5.5 | 3.9F | 4.5Y | 7.5 | 3.1F | 3.8 | 6.7 | 4.2 | 5.0 | 9.5 | 4.1 | 6.5 | 5.4 | 6.5 | 4.9 | 5.2 | 4.2 | 4.8 | 4.9 | 4.3 | 3.2F | 5.8 | 5.6F | 4.2 | |
| 31 | 3.0 | 2.9 | 3.5F | 4.0 | 4.5F | 6.9 | 3.9 | 4.5 | 5.0 | 6.3 | 6.3 | 5.5 | 10.7 | 10.0 | G | G | G | 5.8 | 5.8 | 9.0 | 6.7S | 9.0S | 3.5 | 3.1 | |
| Mean Value | 4.7 | 4.3 | 3.5 | 3.6 | 3.0 | 3.6 | 4.1 | 5.0 | 6.0 | 6.5 | 6.7 | 6.9 | 6.4 | 6.6 | 5.5 | 5.7 | 6.0 | 5.7 | 5.3 | 5.2 | 4.9 | 5.1 | 5.2 | 5.0 | |
| Median Value | 4.2 | 3.8 | 3.1 | 2.8 | 2.9 | 2.9 | 3.7 | 4.9 | 5.6 | 6.0 | 6.5 | 6.5 | 5.7 | 5.4 | 5.1 | 5.0 | 4.6 | 5.4 | 4.9 | 4.4 | 4.5 | 4.8 | 4.5 | 4.2 | |
| Count | 30 | 30 | 30 | 29 | 29 | 29 | 29 | 31 | 30 | 31 | 29 | 30 | 29 | 27 | 28 | 28 | 28 | 28 | 29 | 30 | 30 | 29 | 30 | 29 | |

Sweep 1.0 Mc to 17.2 Mc in 2 min

Manual Automatic

fEs

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

135° E Mean Time

(M3000)F2

May. 1952

| 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 ^P | 2.8 ^P | 2.9 ^P | 2.8 ^K | 3.0 ^K | 3.1 ^K | 3.5 ^K | A ^K | 2.5 ^K | 3.0 ^K | 2.8 ^K | 3.0 | 3.0 | C | C | C | A | A | 2.9 | 3.0 | 2.9 | 2.6 ^P | 2.7 | 2.7 |
| 2 | 2.8 | 2.6 | 2.8 | 2.7 ^T | 3.0 | 3.5 | 3.2 | 3.5 | 3.3 | 3.0 | 2.9 | 2.9 | 2.6 | (2.7) ^F | (2.9) ^P | 2.9 ^P | 3.1 ^P | 3.0 | 3.0 | 2.7 | 2.7 | 2.7 | 3.0 | 2.6 |
| 3 | 2.6 | 2.5 | 2.7 | 2.7 | 2.7 | 3.1 | 3.1 | 3.0 | 3.0 ^P | 3.1 | 2.9 | A | A | 3.1 | 2.9 | 3.2 | 3.2 | 3.0 | 2.8 | 2.8 ² | 3.0 ^{2P} | A | 2.6 | 2.8 |
| 4 | 2.7 | 2.7 ^T | 2.8 | 2.6 | 2.9 ^F | 3.2 | 3.3 | 3.3 | A | 2.5 | C | C | C | 2.9 | (2.9) ^P | 3.1 | (3.0) ^P | 2.9 | 2.9 | 2.9 | 3.0 | 2.7 ^P | 3.0 ^P | C |
| 5 | C | (2.6) ^P | (2.6) ^P | C | C | C | C | 3.1 | 3.1 | 2.5 | C | C | C | 2.9 ^P | C | C | C | C | 3.0 | 3.1 | 3.3 | 2.7 | (2.6) ^P | (2.6) ^F |
| 6 | 2.7 | 2.6 | 2.8 | 3.0 | 2.6 | 3.1 | 3.1 | 3.1 | 3.3 | 3.3 | 3.0 | (2.8) ^A | 2.7 | (2.7) ^F | 3.1 | (2.2) ^F | 3.0 ^F | 3.1 | 2.9 | 2.9 | 2.8 | 2.8 | 2.5 | 2.7 |
| 7 | 2.7 | 2.7 | 3.0 | 2.7 | 2.8 | 3.3 | 3.5 | 3.3 | 3.3 | 3.0 | 3.1 | 2.7 | (3.0) ^F | 3.0 | 3.1 | 3.1 | 2.8 ^P | C | C | C | C | C | C | C |
| 8 | A | C | (2.6) ^P | 2.6 | 2.5 | F ^K | C ^K | C ^K | M ^K | C ^K | C ^K | C ^K | C ^K | A ^K | 2.4 ^K | 2.9 ^K | {3.0 ^A | 3.0 ^K | 2.6 ^K | A ^K | A ^K | 2.6 ^K | 2.6 ^K | 2.5 ^K |
| 9 | 2.6 ^K | 2.4 ^K | 2.7 ^K | 2.7 ^K | 3.1 ^K | 3.2 ^K | B ^K | 3.3 ^K | A ^K | 2.9 ^P | 3.0 ^P | C | C | C | C | C | C | 2.9 | C | C | C | C | C | 2.8 ^P |
| 10 | 2.7 | C | C | 3.0 ^P | 2.9 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 11 | C | C | 2.7 | (2.6) ^T | 2.6 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 12 | C | (2.8) ^P | (2.8) ^P | (2.9) ^P | (2.8) ^P | C | C | C | C | C | C | 3.0 | 2.4 | 2.6 | (2.8) ^T | B ^S | 3.1 | 3.2 | 3.1 | 3.1 | 2.5 ^P | 2.8 | 2.8 | 2.8 |
| 13 | 2.8 | 2.9 | 2.7 | 3.0 | 2.7 | 3.0 | 3.4 | 3.0 | A | 2.9 ^K | 3.0 ^K | 3.2 ^K | 2.6 ^K | 2.9 ^K | 3.1 ^K | 2.9 ^K | {3.0 ⁵ | 3.0 ^K | 3.0 ^K | 3.1 ^K | 3.1 ^K | 2.8 ^K | A ^K | A ^F |
| 14 | A ^F | 2.9 ^K | 2.9 ^K | 3.3 ² | 3.4 ^F | 3.4 ^K | 3.5 ^K | A ^K | 2.6 ^K | 2.9 ^K | 2.9 ^K | 2.9 ^K | 2.6 ^K | 2.6 ^K | 3.0 ^K | 3.2 ^K | 3.3 ^K | 3.5 ^K | 3.1 ^K | 3.1 ^K | (2.7) ^K | 2.8 ^K | 3.2 ^K | 2.8 ^K |
| 15 | C | C | C | C | C | C | C | 3.2 | 3.2 | 3.2 | 3.2 | 2.7 | 2.8 | 2.8 | 3.0 | 3.1 | 3.1 | 3.3 | 3.1 | 3.1 | A | 3.0 ^F | F | A |
| 16 | A ^F | 2.6 ^F | 2.7 ² | 2.8 | 2.8 | 3.2 | 3.4 | 3.4 | 3.5 | A | 2.9 | 3.1 | 3.0 | 2.9 | 3.0 | A | M | M | M | M | 2.9 | 2.9 ^F | A | A |
| 17 | A | F | F | F | 2.8 ^F | (3.1) ^F | A | A | A | 3.4 | 3.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.8 | 2.9 ^P | 2.7 ^P | 3.1 ^P | (2.5) ^P | 2.8 ^P | 2.9 | 2.4 ^P | A |
| 18 | A | A | A | F | 2.8 ^F | 3.4 ^F | 3.3 | 3.2 | A | A | A | 2.7 | 2.4 | 2.7 | 2.9 | 2.9 | A | 3.2 | 2.8 | 2.7 | 2.8 ^P | 2.9 | 2.7 | 3.0 ^P |
| 19 | 3.0 | 3.0 | 2.7 | 2.8 | 2.8 ^F | 3.2 | 3.2 | 3.0 | A | A | A | 2.7 | A | 2.7 | 3.1 | 2.8 | 2.8 | 2.8 | 2.9 | 3.0 | 2.8 ^P | 2.7 ^F | 2.9 | 2.8 ^P |
| 20 | 2.6 ^K | 2.6 ^F | 2.8 ^F | 2.8 ^F | 2.9 ^K | 3.2 ^K | 3.3 ^K | A ^K | A ^K | A ^K | A ^K | A ^K | 2.7 ^K | 2.6 ^K | 2.8 ^K | 2.8 ^K | 2.8 ^K | 3.0 ^K | (2.9) ^K | 2.9 ^K | (2.8) ^K | C ^K | C ^K | 2.7 ^K |
| 21 | 2.5 ^K | 2.6 ^F | 2.9 ^F | 2.9 ^F | F ^K | 3.1 ^K | 3.1 ^K | 3.0 ^K | 3.1 ^K | 2.5 ^K | A ^K | A ^K | 2.7 ^K | 2.7 ^K | 2.9 ^K | 2.9 ^K | A ^K | A ^K | (2.9) ^K | 2.9 ^K | (2.8) ^K | C ^K | C ^K | 2.7 ^K |
| 22 | 2.5 ^K | A ^K | 3.0 ^K | 2.8 ^K | F ^K | A ^K | 3.2 ^K | A ^K | A ^K | A ^K | A ^K | 2.8 ^K | 2.7 ^K | 2.7 ^K | 2.9 ^K | 2.9 ^K | 2.8 ^K | 3.0 ^K | A | 2.8 ^K | 3.2 | A | F | A |
| 23 | F | 2.6 ^F | 2.7 ^F | 2.9 ^F | 3.0 ^F | 3.2 | 3.1 | 3.0 | 3.2 | A | 2.4 | A | A | 2.9 | 3.0 | 3.1 | 3.0 | 3.0 | 3.0 | 3.0 ^F | 3.1 | A | A | F |
| 24 | F | F | F | F | 3.0 ^F | 3.4 | 3.3 | 3.5 | A | A | 3.2 | A | A | 3.0 | 3.1 | 2.9 | 3.0 | 2.9 | A | 3.0 ^P | 3.3 | 2.7 ^F | A | AF |
| 25 | AF | 2.6 ^F | 2.8 ^F | 3.0 ² | 3.1 | 3.2 | 3.3 | 3.4 | A | A | A | A | A | A | 3.0 | 3.1 | 3.2 | 3.0 | 2.9 | 2.8 | 2.9 | 2.8 ^F | 2.9 | 2.8 ^F |
| 26 | AF | (3.0) ^T | A | F | F | 3.0 ^F | 3.3 | 3.5 | 3.0 ^H | A | A | A | 2.9 | A | C | 2.9 | 3.0 | 3.2 | 2.9 | 2.9 | (3.0) ^S | C | S ^F | 2.9 |
| 27 | 2.6 ^F | 2.9 ^F | 2.7 | (2.9) ^P | 2.7 ^F | 2.7 | 2.9 | B | A | A | A | 2.3 | 2.3 | 2.4 | 3.0 ^P | (3.1) ^F | 3.2 | A | 2.7 | (2.7) ^P | 3.0 | B | 2.6 | 2.5 |
| 28 | 2.6 | 2.8 | 2.5 | (2.7) ^P | 2.8 | A | 3.4 | 3.2 | A | A | 2.9 | A | C | 2.8 | 2.8 ^P | 3.1 | 3.0 | 2.9 | 2.9 | 2.8 ^P | 2.9 | 2.8 ^P | 2.9 | 2.8 ^P |
| 29 | AF | (2.7) ² | S ^F | S ^F | (2.6) ^F | 2.9 | 2.9 | A | A | 2.8 | 2.8 | A | 2.6 | A | 3.3 | 2.9 | 2.8 | 2.9 | 2.9 | 2.8 | 2.7 | 2.7 | F | 2.8 |
| 30 | 2.9 | 2.7 | 3.0 | A | 2.7 ^F | 2.9 | 3.1 | 3.3 | 3.3 | A | 3.3 | 2.6 | 2.7 | 2.6 | 2.8 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.8 | 2.7 ² | 2.7 ^F | F |
| 31 | (2.9) ^F | (3.0) ^F | 3.1 ^F | 2.8 | 2.8 ^F | (3.0) ^F | 2.9 | 3.3 | 3.2 | 3.3 ^P | 3.2 | 2.7 | A | A | 2.9 | 2.9 | 2.8 | 3.0 | 3.1 | A | 2.6 ⁵ | (2.7) ^P | (2.6) ^F | 2.6 ^F |
| Mean Value | 2.7 | 2.7 | 2.8 | 2.7 | 2.8 | 3.1 | 3.2 | 3.2 | 3.1 | 2.9 | 2.9 | 2.7 | 2.7 | 2.8 | 3.0 | 3.0 | 3.0 | 3.1 | 2.9 | 2.9 | 2.9 | 2.8 | 2.7 | 2.7 |
| Median Value | 2.7 | 2.7 | 2.8 | 2.8 | 2.8 | 3.2 | 3.3 | 3.2 | 3.2 | 3.0 | 2.9 | 2.8 | 2.7 | 2.9 | 2.9 | 2.9 | 3.0 | 3.0 | 2.9 | 2.9 | 2.9 | 2.8 | 2.7 | 2.8 |
| Count | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

The Central Radio Wave Observatory
Koganei-machi, Kitakama-gun, Tokyo, Japan

Lat. 35° 42.4' N
Long. 139° 29.3' E

IONOSPHERIC DATA

Kokubunji Tokyo

fminF

May. 1952

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 | 1.1 | 1.2 | E | 1.8 | 2.2 | A | 4.2 ^A | 3.5 | 4.0 | 4.2 | 4.7 | C | C | A | A | A | 4.3 ^A | 3.1 | 2.2 ^A | 1.7 | 1.3 | 1.5 |
| 2 | 1.2 | E | E | E | E | 1.7 | 2.1 | 2.8 | 3.9 ^A | 3.4 | 5.0 ^A | 6.2 ^A | 4.6 ^A | 5.3 ^A | 4.6 ^A | 4.7 ^A | 5.0 ^A | 4.1 ^A | 5.1 ^A | A | A | 3.3 ^A | 1.6 | 1.5 |
| 3 | 1.7 | E | 1.7 | 1.2 | 1.5 | 1.7 | 2.1 | 2.7 | 4.2 | 3.5 | 5.7 | A | A | C | 3.5 | 3.4 | 3.2 | 4.1 ^A | 3.1 ^A | 2.3 ^A | 4.0 ^A | A | 3.2 ^A | 5.0 ^A |
| 4 | 2.3 | 2.1 | 1.1 | 3.3 ^A | 1.1 | 2.0 | 2.3 | 3.9 ^A | 4.2 ^A | 3.3 | C | C | C | C | 4.5 ^A | 5.2 ^A | 3.6 ^A | 2.5 | 2.2 | 4.0 ^A | 1.5 | 1.7 | 2.7 ^A | C |
| 5 | A | A | E | C | C | C | C | 3.6 | 4.4 ^A | 4.1 | C | C | C | C | C | C | C | C | 3.7 ^A | 7.2 ^A | A | 1.9 | 1.6 | (1.4) ^C |
| 6 | 1.3 | E | E | E | 1.0 | 1.6 | 1.9 | 3.0 | 3.5 | 3.8 | 5.0 ^A | A | 5.6 ^A | 4.2 | 5.0 ^A | 3.3 | 3.4 | 2.7 | 3.4 ^A | 1.7 | 2.0 | 1.8 ^F | 4.6 ^A | A |
| 7 | 1.4 | 1.7 | 1.6 | 1.4 | 1.1 | 1.6 | 3.0 | 2.8 | 4.7 ^A | 3.3 | 6.3 ^A | 4.4 ^A | 5.1 ^A | 4.5 ^A | 4.2 ^A | 3.3 | 2.9 | 2.5 | 1.9 | 1.4 | 1.4 | 1.4 | 1.5 | 1.5 |
| 8 | A | 1.2 | 1.8 | 1.7 | 1.5 | A | A | A | M | A | A | A | A | A | 4.3 | 4.1 | A | 3.2 | A | A | A | 1.8 | 1.9 | 2.0 ^A |
| 9 | 1.8 | 1.4 | A | 1.0 | A | 1.8 | 2.4 | 3.5 | 4.8 ^A | 3.5 | 3.6 | 3.8 | 3.7 | A | 3.4 | 3.3 | 3.3 | A | A | A | A | 2.2 ^A | A | 1.9 |
| 10 | 1.4 | A | A | 1.8 | 2.0 | 1.9 | 2.5 | 3.3 | 3.6 | 3.6 | A | 4.2 | 3.8 | 3.8 | 3.8 | A | A | A | A | A | A | A | 1.8 | 1.6 |
| 11 | 1.5 | 1.2 | 1.3 | E | 1.1 | 1.8 | 2.4 | 4.0 ^A | A | A | 4.0 | 3.8 | 3.6 | 3.6 | 3.5 | 3.5 | 3.3 | 2.5 | 3.3 ^A | A | 1.5 | 1.5 | 1.5 | 1.8 |
| 12 | 1.9 | 1.9 | 1.8 | 1.8 | 1.2 | 2.1 | A | A | A | A | A | 3.5 | 3.5 | 3.5 | 3.4 | 3.2 | 3.3 | 2.9 | 2.3 | 1.8 | 1.9 | 1.7 | 1.7 | 1.4 |
| 13 | 1.2 | E | E | E | E | 1.7 | 3.0 | 3.5 | 4.3 ^A | 4.0 | 3.5 | 3.5 | 3.5 | 3.5 | 3.2 | (3.1) ^C | 3.0 | 3.0 | 2.2 | 1.8 | 1.9 | A | A | AF |
| 14 | AF | AF | A | 1.9 | 1.3 | 1.7 | 2.3 | A | 3.5 | 5.0 ^A | 5.5 ^A | 4.7 ^A | 3.5 | 3.5 | 3.6 | 3.5 ^A | 3.3 | 3.1 | 2.5 ^A | 1.7 | 1.8 | 1.8 | A | 2.2 ^{AF} |
| 15 | C | C | C | C | C | C | C | 3.6 ^A | 3.7 ^A | 5.3 ^A | 3.5 | 4.3 | 3.5 | 3.6 | 3.3 | 3.3 | 3.2 | 4.1 ^A | 6.0 ^A | A | A | 3.5 ^{AF} | A | A |
| 16 | A | 1.7 | 1.6 | 1.1 | E | 1.7 | 2.3 | 2.8 | 4.7 ^A | A | 4.7 ^A | 4.7 ^A | 4.5 ^A | 4.0 | 4.3 ^A | A | M | M | M | M | M | 1.8 | A | A |
| 17 | A | A | A | AF | 1.8 ^F | 2.0 | A | A | 4.2 ^A | 4.0 | 3.5 | 3.5 | 3.6 | 4.6 | 3.6 | 3.5 | 2.8 | 3.7 ^A | 3.6 ^A | 6.1 ^A | A | A | 1.8 | A |
| 18 | A | A | A | A | 1.8 | 1.7 | 2.5 | 4.0 ^A | A | A | 4.3 | 5.3 ^A | 5.9 ^A | 4.6 ^A | 4.5 ^A | 5.6 ^A | A | 5.8 ^A | A | A | 1.9 | 1.8 | 1.9 | 1.8 |
| 19 | 1.8 ^F | 1.5 | 2.2 ^A | 2.8 ^A | 1.4 | 1.7 | 2.3 | 3.4 ^A | A | A | A | 4.6 ^A | A | 3.5 | 4.5 | 4.4 | 4.1 | 3.5 | 3.5 ^A | 2.1 ^A | 2.5 ^A | 3.5 ^A | 1.5 | 2.6 ^A |
| 20 | A | A | 1.2 | 2.4 | 1.8 | 1.8 | 2.9 | A | A | A | A | A | 5.4 ^A | 3.5 | 3.0 | 4.3 | 3.3 | 2.7 | 3.9 ^{MF} | 1.9 ^F | 1.8 | C | C | 1.7 |
| 21 | A | 1.6 ^A | 1.0 | A | E | 1.8 | 2.3 | 3.8 ^A | 4.5 ^A | 3.9 | 4.0 | A | A | 4.2 | 3.4 | 3.9 | A | A | A | 2.5 ^A | A | A | A | A |
| 22 | 2.3 ^A | 2.7 ^A | 2.1 ^A | 1.8 | 1.4 | A | 3.3 ^A | A | A | A | 4.5 | 3.5 | 3.5 | 4.0 | 3.5 | 3.4 | 4.9 ^A | 3.8 | A | A | A | A | A | A |
| 23 | 1.4 | E | 2.2 ^A | 1.1 | E | 1.8 | A | 4.7 ^A | 4.8 ^A | A | 4.0 | A | A | 5.5 ^A | 4.0 | 3.9 | 3.4 | 3.9 ^A | 2.0 | 1.5 | 1.7 | A | A | 3.0 ^A |
| 24 | A | A | 1.7 ^F | A | E | 1.7 | 2.3 | A | A | 3.1 | 4.1 ^A | A | A | 3.9 | 4.6 ^A | 3.8 | 4.2 ^A | 6.3 ^A | A | 6.7 ^A | A | 3.5 ^{AF} | A | AF |
| 25 | AF | 3.6 ^{MF} | 1.2 | E | 1.6 | 2.0 ^F | 2.2 | 4.3 ^A | A | A | A | A | A | A | 4.8 | 3.3 | 3.1 | 2.6 | 3.1 | 1.8 | 2.0 ^A | 3.5 ^A | 3.5 ^A | 5.0 ^A |
| 26 | AF | 1.1 | A | A | A | 2.0 | 3.3 | 4.1 ^A | 4.2 | A | A | A | 5.2 ^A | A | C | 3.5 | 6.1 ^A | 6.0 ^A | 4.8 ^A | 4.5 ^A | AF | A | A | 3.6 ^A |
| 27 | 5.0 ^{AF} | 5.0 ^{AF} | 5.0 ^{AF} | 5.0 ^{AF} | 3.2 ^A | A | 4.1 ^A | A | A | A | A | A | 3.5 | 4.2 ^A | 3.7 | 3.4 | 3.9 | A | 2.2 ^F | A | AF | AF | 2.8 ^{AF} | |
| 28 | 3.0 ^{AF} | 2.5 ^{AF} | 2.2 ^{AF} | AF | AF | A | 3.5 ^A | 3.0 | A | A | 5.0 ^A | A | C | C | 7.2 ^A | 3.2 | 3.5 | 5.8 ^A | 3.8 | 5.2 ^A | 1.8 | 6.3 ^A | 2.1 | 1.9 |
| 29 | AF | A | AF | 5F | 1.1 | 1.9 | 3.5 ^A | A | A | 4.5 ^A | 4.6 ^A | 3.6 | 3.7 | A | 4.2 | 3.5 | 3.6 | 3.6 ^A | 2.2 | 1.6 | 3.5 ^A | A | A | 2.4 ^{AF} |
| 30 | A | 2.0 ^{AF} | 1.7 | A | E | 1.9 | 5.3 ^A | 3.4 | 3.5 | A | 4.0 | 4.2 ^A | 4.0 | 3.3 | 3.9 | 4.4 | 3.2 | 3.2 ^A | 2.0 | 1.7 | 1.6 | 1.9 | 1.7 | 1.8 |
| 31 | 1.6 | 1.7 | 1.3 | 2.3 ^A | 1.9 | 3.4 ^A | 2.8 | 3.5 ^A | 4.0 | 5.0 ^A | 4.8 ^A | 4.5 ^A | A | A | 3.5 | 3.8 | 3.9 ^A | 5.0 ^A | 4.9 ^A | A | 5.0 ^A | 5.2 ^A | A | 1.7 |
| Mean Value | 1.9 | 2.0 | 1.8 | 2.0 | 1.6 | 1.9 | 2.7 | 3.5 | 4.2 | 3.9 | 4.5 | 4.2 | 4.2 | 4.0 | 4.1 | 3.8 | 3.7 | 3.8 | 3.3 | 3.1 | 2.2 | 2.7 | 2.1 | 2.3 |
| Minimum Value | 1.6 | 1.6 | 1.6 | 1.4 | 1.2 | 1.8 | 2.4 | 3.5 | 4.2 | 3.8 | 4.3 | 4.2 | 3.7 | 3.8 | 3.8 | 3.5 | 3.4 | 3.6 | 3.3 | 2.1 | 1.9 | 1.8 | 1.8 | 1.8 |
| Count | 17 | 2.2 | 2.5 | 2.1 | 2.7 | 2.5 | 2.5 | 2.1 | 1.9 | 1.7 | 2.1 | 1.9 | 2.1 | 2.2 | 2.8 | 2.7 | 2.4 | 2.4 | 2.3 | 2.1 | 1.7 | 2.0 | 1.7 | 2.2 |

Sweep 1.0 Mc to 1.7.2 Mc in 2 min

Manual Automatic

fminF

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

Lat. 35° 42.4' N
Long. 139° 29.8' E

Kokubunji Tokyo

f_{minE}

135° E Mean Time

May. 1952

| 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 | E | E | E | E | 1.3 | 1.3 | 1.3 | 1.7 | 1.7 | 2.0 | 1.6 | C | C | 2.2 | 1.6 | 1.3 | 1.3 | 1.3 | E | 1.4 | E | 1.8 |
| 2 | E | E | E | E | E | E | 1.2 | 1.2 | 1.2 | 1.6 | 1.6 | 1.6 | 1.7 | 1.3 | 1.6 | 1.7 | 1.3 | 1.6 | 1.5 | 1.2 | 1.5 | 1.5 | 1.7 | E |
| 3 | E | E | E | E | E | E | 1.0 | 1.6 | 1.7 | 1.6 | 1.7 | 1.7 | 1.8 | 1.7 | 1.3 | 1.6 | 1.6 | 1.6 | 1.7 | E | 1.3 | 1.5 | E | 1.6 |
| 4 | E | E | 1.0 | E | E | E | 1.0 | 1.6 | 1.7 | 1.7 | C | C | 1.9 | C | C | 2.1 | 1.6 | 1.6 | 1.6 | 1.4 | 1.2 | 1.4 | 1.2 | 1.4 |
| 5 | 1.0 | E | E | C | C | C | 1.7 | 1.3 | 1.7 | 1.7 | C | C | C | C | C | C | C | 1.6 | 1.0 | 1.5 | 1.5 | E | C | C |
| 6 | E | E | E | E | E | E | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 3.1 | 3.0 | 2.3 | 2.3 | B | 1.6 | 1.6 | 1.6 | 1.3 | 1.4 | 1.4 | 1.6 | 1.4 |
| 7 | 1.6 | E | E | E | E | E | 1.7 | 1.7 | 1.7 | 1.6 | 2.3 | 2.3 | 2.6 | 2.2 | 2.5 | 1.5 | 1.7 | 1.7 | 2.1 | E | 1.3 | 1.7 | E | 1.8 |
| 8 | 1.7 | E | E | E | E | E | 1.3 | 2.0 | [2.0] | 1.7 | 2.1 | 2.0 | 2.0 | 1.9 | 1.7 | 1.7 | 1.5 | 1.5 | 1.3 | 1.4 | 1.4 | 1.5 | 1.4 | 1.4 |
| 9 | 1.2 | E | E | E | E | E | 1.0 | 1.3 | 1.7 | 1.3 | 1.9 | 1.9 | 1.9 | 2.0 | 1.3 | 1.4 | 1.7 | 1.7 | 1.6 | 1.5 | 1.4 | 1.5 | 1.7 | 1.5 |
| 10 | E | E | E | E | E | E | 1.7 | 1.7 | 2.6 | 1.7 | 1.7 | 1.9 | 1.9 | 1.9 | 1.3 | 1.4 | 1.7 | 1.4 | 1.4 | 1.5 | 1.4 | 1.5 | 1.7 | 1.4 |
| 11 | 1.5 | E | E | E | E | E | 1.3 | 1.7 | 1.3 | 1.3 | 1.3 | 1.9 | 1.9 | 1.9 | 1.7 | 1.3 | 1.3 | 1.7 | 1.7 | 1.2 | 1.5 | 1.5 | 1.6 | 1.5 |
| 12 | 1.5 | E | E | E | E | E | 1.2 | 1.3 | 1.7 | 1.3 | 1.7 | 1.3 | 1.7 | 1.3 | 1.7 | 1.6 | 1.3 | 1.3 | 1.3 | 1.1 | E | 1.3 | 1.2 | 1.4 |
| 13 | 1.6 | E | 1.1 | E | E | E | 1.4 | 1.6 | 1.6 | 1.7 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.2 | 1.2 | 1.3 | 1.6 | 1.6 | 1.1 | 1.6 |
| 14 | 1.5 | E | E | E | E | E | 1.6 | 1.7 | 1.7 | 1.4 | 1.7 | 1.3 | 1.7 | 1.7 | 1.7 | 1.6 | 1.4 | 1.2 | 1.2 | 1.3 | 1.2 | 1.3 | 1.2 | 1.3 |
| 15 | C | C | C | C | C | C | 1.6 | 1.4 | 1.3 | 1.7 | 1.7 | 1.3 | 1.3 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | 1.4 | 1.7 | 1.1 | 1.6 | 1.6 |
| 16 | 1.2 | E | E | E | E | E | 1.1 | 1.2 | 1.3 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.7 | M | M | M | M | M | E | 1.6 | 1.3 |
| 17 | 1.1 | E | E | E | E | E | 1.2 | 1.2 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.6 | 1.3 | 1.3 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 |
| 18 | 1.5 | E | E | E | E | E | 1.2 | 1.4 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.5 | 1.6 | 1.4 | 1.3 | 1.3 | 1.7 | 1.5 | 1.5 | 1.4 |
| 19 | 1.1 | E | E | E | E | E | 1.2 | 1.3 | 1.3 | 1.0 | 1.6 | 1.7 | 1.3 | 1.7 | 1.6 | 1.6 | 1.3 | 1.6 | 1.2 | 1.1 | 1.6 | 1.5 | 1.7 | 1.6 |
| 20 | 1.0 | E | E | E | E | E | 1.1 | 1.1 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.4 | 1.7 | 1.6 | 1.3 | 1.2 | 1.3 | 1.2 | C | C | 1.5 |
| 21 | 1.0 | E | E | E | E | E | 1.2 | 1.1 | 1.4 | 1.3 | 1.6 | 1.6 | 1.7 | 1.6 | 1.3 | 1.7 | 1.6 | 1.2 | 1.2 | 1.2 | 1.6 | 1.5 | 1.7 | 1.5 |
| 22 | 1.3 | E | E | E | E | E | 1.3 | 1.2 | 1.3 | 1.6 | 1.7 | 1.3 | 1.9 | 1.7 | 1.3 | 1.4 | 1.4 | 1.6 | 1.5 | 1.5 | 1.5 | 1.6 | 1.5 | 1.2 |
| 23 | 1.2 | E | E | E | E | E | 1.1 | 1.2 | 1.7 | 1.7 | 1.7 | 1.7 | 1.3 | 1.3 | 1.7 | 1.6 | 1.6 | 1.3 | 1.1 | 1.1 | 1.1 | 1.4 | 1.5 | 1.6 |
| 24 | E | E | E | E | E | E | 1.4 | 1.3 | 1.6 | 1.3 | 1.7 | 1.3 | 1.3 | 1.3 | 1.7 | 1.4 | 1.3 | 1.2 | 1.2 | 1.6 | 1.6 | 1.7 | 1.2 | 1.6 |
| 25 | E | E | E | E | E | E | 1.1 | 1.3 | 1.7 | 1.7 | 1.3 | 2.0 | 1.3 | 1.7 | 1.7 | 1.6 | 1.3 | 1.4 | 1.2 | E | 1.5 | 1.2 | 1.5 | 1.6 |
| 26 | 1.6 | E | E | E | E | E | 1.2 | 1.2 | 1.4 | 1.7 | 1.7 | 1.3 | 1.7 | 1.3 | 1.8 | 1.7 | 1.6 | 1.7 | 1.4 | 1.1 | [1.2] | 1.4 | 1.5 | 1.6 |
| 27 | 1.5 | E | E | E | E | E | 1.2 | 1.7 | 1.7 | 1.6 | 1.6 | 1.3 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.4 | 1.2 | 1.5 | 1.5 | 1.5 | 1.4 | 1.2 |
| 28 | 1.2 | E | E | E | E | E | 1.6 | 1.7 | 1.3 | 1.7 | 1.7 | 1.7 | C | C | 1.7 | 1.7 | 1.6 | 1.3 | 1.3 | 1.3 | 1.6 | 1.6 | 1.5 | 1.6 |
| 29 | 1.2 | E | E | E | E | E | 1.6 | 1.7 | 1.4 | 1.6 | 1.7 | 1.3 | 1.3 | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.2 | 1.9 | 1.2 | E | 1.4 | 1.7 |
| 30 | 1.2 | E | E | E | E | E | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.9 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.3 | 1.2 | 1.3 | 1.1 | 1.6 | 1.3 |
| 31 | 1.1 | E | E | E | E | E | 1.2 | 1.4 | 1.6 | 1.3 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.3 | 1.2 | 1.3 | 1.1 | 1.6 | 1.4 | 1.2 |
| Mean Value | 1.3 | E | 1.1 | E | 1.3 | 1.4 | 1.4 | 1.5 | 1.7 | 1.6 | 1.3 | 1.3 | 1.9 | 1.3 | 1.3 | 1.7 | 1.6 | 1.4 | 1.4 | 1.2 | 1.3 | 1.4 | 1.3 | 1.4 |
| Median Value | 1.2 | E | E | E | E | E | 1.3 | 1.6 | 1.7 | 1.7 | 1.7 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.6 | 1.4 | 1.3 | 1.3 | 1.5 | 1.5 | 1.5 | 1.5 |
| Count | 30 | 30 | 30 | 29 | 29 | 29 | 29 | 31 | 31 | 31 | 29 | 27 | 29 | 27 | 28 | 29 | 29 | 29 | 30 | 30 | 30 | 30 | 30 | 30 |

Sheep 1.0 Mc to 1.72 Mc in 2.0 min

Manual Automatic

K 11

The Central Radio Wave Observatory
Koganei-machi, Klatama-gun, Tokyo, Japan

Lat. 35° 42.4' N
Long. 139° 29.3' E

Kokubunji Tokyo

IONOSPHERIC DATA

YPF2

May. 1952

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 | 90 ^F K | 100 ^P | 70 ^K | 80 ^K | 90 ^K | 100 ^K | 80 ^K | A ^K | U ^K | U ^K | U ^K | U | 90 | C | C ^{3P} | C | A | A | 80 | 100 | 80 | 110 ^F | 70 | 80 | |
| 2 | 80 | 100 | 120 | 100 ^V | 50 | 120 | 60 | 30 | 50 | 80 | 80 | A | 80 | (70) | (70) ^P | 70 ^P | 100 ^P | 70 | 100 | 70 | 80 ^Z | 70 | 80 | 70 | |
| 3 | 90 | 100 | 80 | 100 | 90 | 70 | 80 | 90 | U | U | U | A | A | 60 | 90 | 100 | 60 | 90 | 110 | 90 ^Z | 90 ^{ZP} | A | 90 | A | |
| 4 | 80 | 70 ^V | 70 | 90 | 90 ^F | 130 | 80 | 60 | U | U | C | C | C | 60 | (80) ^P | 60 | (100) ^P | 80 | 70 | 70 | 70 | 70 ^F | 90 ^F | C | |
| 5 | C | (110) ^P | (80) ^P | C | C | C | C | 100 | 60 | U | C | C | C | 90 ^F | C | C | C | C | 80 | 80 | A | 70 | 60 | (80) ^P | |
| 6 | 90 | 100 | 120 | 70 | 120 | 110 | 100 | 70 | 60 | 40 | A | A | 70 | (120) ^P | 100 | (90) ^P | 110 ^P | 100 | 60 | 80 | 100 | 100 | A | 100 | |
| 7 | 110 | 70 | 90 | 70 | 100 | 100 | 80 | 90 | 60 | 70 | A | 80 | (110) ^F | 100 | 70 | 80 | 90 ^F | C | C | C | C | C | C | C | |
| 8 | A | C | (80) ^P | 100 | 90 | F ^K | C ^K | C ^K | M ^K | C ^K | C ^K | C ^K | C ^K | A ^K | U ^K | 150 ^K | (120) ^K | 100 ^K | 130 ^K | A ^K | A ^K | 70 ^F | 90 ^K | 140 ^K | |
| 9 | 100 ^K | 130 ^K | 160 ^K | 150 ^K | 120 ^K | 110 ^K | 80 ^K | 70 ^K | A ^K | 100 ^P | 80 ^P | C | C | C | C | C | C | C | C | C | C | C | C | 80 ^P | |
| 10 | C | C | C | 90 ^F | 80 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 11 | C | C | 110 | (110) ^P | 110 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 12 | C | (150) ^P | (60) ^P | (100) ^P | (100) ^P | C | C | C | C | C | C | U | 170 | (80) ^J | 85 | 60 | 60 | 80 | 80 | 60 | 70 ^F | 70 | 50 | 80 | |
| 13 | 80 | 60 | 100 | 80 | 110 | 70 | 60 | 60 | A | U ^K | U ^K | U ^K | U ^K | U ^K | 90 ^K | 80 ^K | 90 ^K | 70 ^K | 70 ^K | 70 ^K | 100 ^K | 120 ^K | A ^K | | |
| 14 | AF ^K | 60 ^K | 80 ^K | 80 ^K | 50 ^K | 110 ^K | 40 ^R | A ^K | U ^K | 70 ^K | A ^K | U ^K | U ^K | U ^K | 40 ^K | 60 ^K | 50 ^K | 60 ^K | 100 ^K | 100 ^K | 100 ^K | 60 ^K | 80 ^K | | |
| 15 | C | C | C | C | C | C | C | C | 50 | 50 | A | 50 | U | 100 | 60 | 60 | 70 | 60 | A | 50 | A | 60 ^F | F | A | |
| 16 | AF | 100 ^V | 60 ^Z | 70 | 80 | 100 | 70 | 80 | 70 | A | U | U | U | U | 60 | A | M | M | M | M | 90 | 60 ^F | A | A | |
| 17 | A | F | F | F | 70 ^F | (60) ^F | A | A | 70 | U | U | U | U | U | 100 | 160 | 120 ^P | 150 ^P | 140 ^P | 140 ^P | A | A | 150 ^P | A | |
| 18 | A | A | A | F | 110 ^F | 140 ^F | 80 | 80 | A | A | A | 60 | A | 130 | 70 | 80 | A | 60 | 120 | 80 | 130 ^P | 70 | 90 | 70 ^P | |
| 19 | 80 | 90 | U | 80 | 70 ^F | 70 | 80 | 100 | A | A | A | U | A | 150 | 90 | 70 | 60 | 90 | 100 | 70 | 110 ^P | 80 ^F | 110 | 100 ^P | |
| 20 | 120 ^K | 120 ^K | 100 ^K | 80 ^K | 90 ^K | 70 ^K | 80 ^K | A ^K | A ^K | A ^K | A ^K | A ^K | U ^K | U ^K | 170 ^K | 160 ^K | 130 ^K | 140 ^K | 110 ^K | 110 ^K | 110 ^K | 60 ^K | 80 ^K | 140 ^K | |
| 21 | 120 ^K | 140 ^K | 130 ^K | 140 ^K | F ^K | 120 ^K | 110 ^K | 100 ^K | U ^K | U ^K | U ^K | A ^K | A ^K | 90 ^K | 100 ^K | 70 ^K | A ^K | A ^K | 110 ^K | 70 ^K | A ^K | F ^K | A ^K | F ^K | |
| 22 | 100 ^K | A ^K | 80 ^F | 100 ^F | F ^K | A ^K | 100 ^K | A ^K | A ^K | A ^K | U ^K | U ^K | U ^K | U ^K | 80 ^K | 120 ^K | 100 ^K | 70 ^K | A | 50 | A | 60 ^F | F | A | |
| 23 | F | 90 ^F | 100 ^F | 80 ^F | 110 ^F | 120 | 90 | U | 90 | A | U | A | A | 90 | 80 | 90 | 70 | 70 | 90 | 120 ^P | 90 | A | A | F | |
| 24 | F | F | F | F | 130 ^F | 50 | 60 | 60 | A | A | U | A | A | 50 | 60 | 70 | 70 | 70 | 90 | A | A | 80 ^F | A | AF | |
| 25 | AF | 100 ^F | 60 ^F | 90 ^Z | 100 | 90 | 110 | 70 | A | A | A | A | A | A | 80 | 80 | 60 | 80 | 70 | 90 | 70 | 60 ^F | 100 | AF | |
| 26 | AF | (100) ^F | A | F | F | 90 ^F | 90 | 50 | 140 ^H | A | A | A | 70 | A | C | 60 | 70 | 50 | 100 | 100 | (90) ^S | C | SF | 90 | |
| 27 | 70 | 90 | 80 | (100) ^P | 90 ^F | A | 110 | B | A | A | A | U | 90 | 130 | 120 ^F | (80) ^P | 100 | A | 70 | (130) ^P | 90 | B | 90 | 120 | |
| 28 | 80 | 140 | 110 | (130) ^P | 100 | A | 120 | 140 | A | A | A | A | C | C | A | 90 ^P | 70 | A | 110 | 100 | 100 ^P | A | 80 ^P | AS | |
| 29 | AF | AF | SF | SF | (110) ^F | 70 | 110 | A | A | 50 | U | A | A | A | 100 | 50 | 130 | 70 | 100 | 100 | 90 | 60 ^Z | F | 150 | |
| 30 | A | 150 | 70 | A | 60 ^F | 100 | 100 | 90 | 70 | A | U | U | 70 | 100 | 90 | 90 | 100 | 100 | 90 | 70 | 60 | 80 ^Z | 70 ^F | F | |
| 31 | (100) ^F | (80) ^F | 80 ^F | 100 | 70 ^V | A | 70 | 60 | 50 | 90 ^F | A | U | A | A | 70 | 70 | 60 | 70 | 60 | 70 | BS | (120) ^P | 190 ^P | 160 ^F | |
| Mean Value | 90 | 100 | 90 | 100 | 90 | 100 | 90 | 80 | 70 | 70 | 80 | 70 | 90 | 90 | 80 | 80 | 90 | 90 | 100 | 90 | 90 | 90 | 80 | 80 | 100 |
| Median Value | 90 | 100 | 80 | 90 | 90 | 100 | 80 | 70 | 80 | 70 | 80 | 70 | 80 | 90 | 80 | 80 | 90 | 90 | 100 | 90 | 90 | 90 | 70 | 90 | 90 |
| Count | 15 | 22 | 23 | 23 | 26 | 21 | 23 | 18 | 11 | 7 | 6 | 2 | 8 | 15 | 23 | 24 | 23 | 21 | 23 | 22 | 22 | 18 | 15 | 15 | |

Sweep 1.0 Mc to 17.2 Mc in 2 min

YPF2

May. 1952

Automatic

Lat. 31° 12.5' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

135° E Mean Time

f_oF2

May, 1952

| 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 ^K | 4.8 ^K | 4.4 ^K | 3.8 ^K | 3.6 ^K | 3.3 ^K | 4.1 ^K | 5.1 ^K | 5.4 ^K | 7.0 ^P | 7.1 | C | C | C | C | C | C | (1.00) ^P | C | C | 5.0 ^P | C | C | C |
| 2 | C | C | C | C | C | 5.2 ^J | 5.5 ^J | 6.2 | 6.3 | C | C | 8.5 | (9.0) ^P | 11.4 | 12.5 | C | C | C | 8.6 | 6.4 | C | C | (5.3) ^J | C |
| 3 | C | C | C | C | 5.4 | [5.6] ^C | 5.8 | 6.2 | 5.4 | 5.8 | A | C | C | 9.3 ^P | C | C | 7.6 ^J | A | A | A | A | M | 4.2 | S |
| 4 | A | 5.2 | A | 4.5 | 4.5 ^H | 4.6 | 4.7 | (6.5) ^P | 5.5 | [5.8] ^J | 6.2 | C | C | (9.5) ^P | C | 9.0 ^P | 8.0 | C | A | A | A | S | 5 | 5.8 |
| 5 | S | 5.9 | 5.8 | 4.1 | 4.2 | 4.0 | 5.6 | 6.5 | 6.1 | C | 6.0 | C | C | C | C | 10.7 | 8.1 ^J | 8.3 | 8.5 ^J | 9.0 ^P | 4.5 | 6.2 | 6.2 | 5.2 |
| 6 | 6.1 | [6.2] ^S | 6.4 ^P | 4.4 | 4.4 | (6.4) ^P | [6.2] ^S | C | C | C | C | C | C | 11.0 | C | C | C | C | 8.7 | 8.8 | 8.5 | 6.5 | 5.2 | 4.9 ^J |
| 7 | 5.6 | 5.8 | 5.7 | 5.0 ^V | 3.2 | 4.8 | (4.9) | 6.0 | 6.1 | 6.5 ^P | 6.6 | 8.7 | 10.6 | (11.4) ^P | 12.1 | 12.1 | 10.8 | 11.2 | 10.9 ^J | 11.9 ^J | 12.0 | 8.8 | 7.9 ^J | 7.6 |
| 8 | 6.3 ^P | 7.5 | [7.9] ^S | 8.3 | 5.8 | 4.8 | 3.9 ^H | C ^K | A ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | 6.9 ^K | 5.7 ^K | C ^K | A ^K | A ^K | 5.5 ^K | A ^K | 4.4 ^K | A ^K |
| 9 | 4.7 ^K | 4.3 ^K | 4.0 ^K | 4.2 ^K | 3.6 ^K | 2.7 ^K | 4.3 ^K | 4.9 ^K | 5.6 ^H | 6.2 ^P | 6.5 | 7.0 | 7.6 | (9.0) ^P | 12.1 | [11.6] ^C | 11.0 | 9.9 ^J | 8.6 ^J | A | 6.5 | 5.5 | 5.1 | 5.4 |
| 10 | 5.0 | FS | 5.5 | 5.2 ^F | 4.5 ^F | 4.4 | 5.7 | 6.2 | 5.4 | 5.9 | 6.5 | 7.2 | 8.4 | 9.2 | 9.0 | 9.0 ^P | C | C | C | C | 8.2 ^J | (5.7) ^P | A | A |
| 11 | (5.8) ^P | 5.2 | 5.3 | 5.2 ^H | F | F | C | C | 5.8 | 5.7 | 6.2 | C | C | C | C | C | C | C | C | C | 8.8 | A | 5.9 | 5.6 ^P |
| 12 | S | A | 6.0 | F | FS | FS | C | C | (6.5) ^P | 6.1 | 6.1 | 7.1 | 9.2 | 11.5 | 12.5 | 12.5 ^P | 11.5 | C | C | C | 6.8 | 4.7 | 4.5 | 5.4 ^J |
| 13 | 5.4 | 5.5 | 5.2 | 5.2 | 4.4 ^H | 4.4 ^F | 5.8 | [5.8] ^C | 5.7 | A | C | 7.2 | [7.1] ^C | 7.0 | 8.5 | 9.0 | (10.4) ^P | 9.1 | 8.5 | C | 7.4 | 4.6 | 4.2 ^H | (5.0) ^P |
| 14 | S | A | 6.0 | 4.1 | F | 2.6 ^F | 4.5 | 5.1 | 6.2 | 6.7 | 7.0 | 7.4 | 7.7 | (8.5) ^P | A | 9.2 | 8.2 | 7.1 | 6.8 | 5.9 | C | C | 4.8 | 4.2 |
| 15 | 4.1 | 4.8 | 4.8 | 4.1 | 3.5 ^F | (5.1) ^P | 6.1 | 6.1 | 6.2 | C | A | A | 6.0 | [7.0] ^C | 8.0 | 8.5 | 9.2 ^P | 8.0 | 6.5 | 6.6 | 6.7 | 6.0 | 5.9 ^J | A |
| 16 | A | F | 4.5 | 4.5 ^F | 4.0 | 4.0 | 5.4 ^P | 6.2 | 6.2 | 5.4 | 5.4 ^P | A | 6.8 | A | A | 8.4 ^P | 8.2 | 6.5 | 5.9 | (6.0) ^P | 7.3 | 5.0 ^P | C | C |
| 17 | S | A | A | A | A | F | (5.6) ^P | [6.3] ^C | 7.0 | A | A | C | 6.2 ^P | 7.2 | A | A | 8.4 | 8.4 | A | A | A | A | 5.0 | 4.4 ^J |
| 18 | A | 4.7 | A | A | 3.3 | A | A | 4.8 | 5.2 | 6.5 | C | A | C | 6.2 ^P | 7.4 | 9.1 | 9.0 | 9.3 ^P | (9.8) ^P | 8.1 | 7.1 | C | S | 7.5 |
| 19 | 6.7 | 4.2 | 3.7 | 3.7 ^F | 3.8 ^F | F | 4.7 | 5.2 | 6.2 | 6.3 ^J | 6.3 ^J | 7.1 | 8.2 | [8.4] ^P | (8.5) ^P | 9.7 | (9.3) ^P | 9.7 | 10.3 ^J | 9.0 ^P | A | 5.3 ^P | 5.6 ^P | A |
| 20 | A | 4.8 ^F | 4.5 | 3.9 ^J | (4.7) ^P | 5.2 ^P | 5.4 | 5.0 | (5.5) ^P | C | A | C | C | C | C | C | A | 7.2 | A | A | 6.6 | [6.0] ^S | (5.3) ^P | S |
| 21 | FS | FS | F | 4.7 ^P | 2.8 ^K | 3.1 ^K | C ^K | C ^K | C ^K | C ^K | C ^K | 6.7 ^K | 7.5 ^K | 8.8 ^K | 8.6 ^K | A ^K | 6.5 ^K | [6.4] ^K | 6.2 ^K | A | 7.2 | 7.0 ^H | S | A |
| 22 | A | A | A | 4.2 | 4.0 | 4.1 | 4.8 | 6.2 | A | A | A | C | 6.9 | A | 7.9 | 7.7 | 8.0 | 8.2 | 8.7 | 8.3 | A | A | A | A |
| 23 | A | A | A | A | 3.6 | 3.7 ^J | 4.9 | 6.4 | C | C | A | A | (7.5) ^P | 9.7 | 9.6 ^P | 9.6 ^P | (8.0) ^P | 7.3 | 8.5 | 8.9 | 9.0 | 5.4 ^P | 4.5 | A |
| 24 | 4.2 | A | (4.5) ^P | F | F | 4.5 | 5.7 ^J | 5.8 ^J | A | C | A | 7.1 | A | (9.0) ^P | 9.8 | S | C | C | C | S | 9.0 ^P | A | A | A |
| 25 | A | S | (6.6) ^S | F | FH | 4.5 | (5.3) ^P | 6.6 | 5.6 ^J | 5.8 ^J | 6.2 | 6.7 | 8.1 | (8.9) ^P | (9.3) ^P | (9.4) ^P | 8.1 | [8.8] ^C | 8.7 ^J | 9.0 ^P | 8.0 | 7.8 | 7.1 | 6.0 |
| 26 | 6.1 | F | 5.6 ^F | 4.9 | 5.0 | 5.7 ^J | 5.9 | 5.8 | 5.8 | [6.2] ^C | 6.7 | 7.2 | 8.0 | 8.3 | 9.0 | 9.0 | [8.8] ^C | 8.7 ^J | 9.0 ^P | 8.7 | 7.5 | 6.7 | 6.7 ^J | 7.5 |
| 27 | 6.7 | (7.0) ^P | C | C | C | C | 6.7 | 6.0 | C | C | 5.6 ^J | 6.1 | 6.8 | 8.5 | (9.4) ^P | [8.7] ^C | 8.0 | 6.5 | 6.8 | 7.8 | 7.0 | 6.7 | A | A |
| 28 | AS | 4.8 | A | 4.7 ^B | 4.7 | 4.5 | 5.0 | 5.4 ^P | 6.5 | 6.8 | A | A | 6.8 | 8.4 | 9.0 | 8.7 | 7.6 | 7.4 | 8.9 | 8.5 | 8.7 | 8.1 | 7.5 | 7.3 |
| 29 | 7.2 | 7.0 | 7.0 | 6.2 | 5.9 ^J | 6.1 | 5.2 | 5.7 | A | A | A | A | A | C | C | 8.4 | 7.9 | 8.4 | 8.8 | 9.0 | 8.7 ^J | (8.3) ^P | 7.4 ^P | 7.4 |
| 30 | A | AS | 6.6 ^J | 5.1 | A | (6.2) ^P | 6.4 | 6.1 | 6.8 | [6.5] ^C | 6.2 | 8.1 | 9.2 | 8.6 | 9.2 | (9.9) ^J | 9.6 | [9.5] ^C | 9.8 ^P | 8.4 | 8.5 | 7.7 | 7.8 | 7.0 |
| 31 | [7.2] ^S | 7.3 | 6.3 | 3.9 ^F | 3.9 | 4.3 | 5.7 ^J | 7.2 | 7.1 | 6.5 | 6.3 | A | A | 8.0 | 9.4 ^P | 9.5 | (9.9) ^J | 9.6 | [9.2] ^J | 8.9 | 6.8 | (6.8) ^S | [6.9] ^S | 7.0 |
| MEAN Value | 5.8 | 5.6 | 5.5 | 4.7 | 4.3 | 4.4 | 5.3 | 5.9 | 6.0 | 6.1 | 6.4 | 7.1 | 7.4 | 8.7 | 9.7 | 9.3 | 8.8 | 8.5 | 8.3 | 8.2 | 7.8 | 6.3 | 5.8 | 5.9 |
| MEDIAN Value | 5.8 | 5.2 | 5.6 | 4.5 | 4.1 | 4.4 | 5.4 | 6.1 | 6.1 | 6.2 | 6.3 | 7.1 | 7.3 | 8.6 | 9.2 | 9.0 | 8.3 | 8.4 | 8.6 | 8.4 | 7.5 | 6.0 | 5.6 | 5.8 |
| Count | 15 | 17 | 21 | 22 | 22 | 24 | 28 | 27 | 21 | 17 | 17 | 14 | 20 | 22 | 20 | 21 | 24 | 23 | 21 | 18 | 23 | 19 | 23 | 17 |

Sweep 1.0 Mc in 22.0 Mc in 2 min

Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 31° 12.6' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

May. 1952

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 | 33 ^K | 32 ^K | 34 ^K | 30 ^K | 33 ^K | 32 ^K | (260) ^K | 260 ^K | 300 ^K | 290 ^P | 310 | C | C | C | C | C | C | (300) ^F | C | C | 250 ^P | C | C | C |
| 2 | C | C | C | C | C | (260) ^F | (250) ^F | 250 | 250 | C | C | 350 | (350) ^F | 320 | 300 | C | C | C | 300 | 300 | C | C | (350) ^F | C |
| 3 | C | C | C | C | 300 | (280) ^C | 250 | 300 | 300 | 360 | A | C | C | C | 300 ^P | C | (300) ^F | C | A | A | A | M | 390 | S |
| 4 | A | 300 | A | 370 | 340 ^H | 320 | A | (270) ^P | A | C | 300 | C | C | C | (300) ^P | C | 300 | C | A | A | S | S | S | 340 |
| 5 | S | 350 | 350 | 350 | 310 | 300 | 270 | 250 | C | C | C | C | C | C | C | C | 300 | (300) ^F | 350 | (300) ^F | 240 ^P | 300 | 390 | 350 |
| 6 | 350 | (330) ^S | 310 ^P | 270 | 320 | 380 | (250) ^S | 250 | 290 | C | C | C | C | C | C | C | 300 | C | 350 | 300 | 300 | 300 | 390 | (350) ^F |
| 7 | 360 | 350 | 300 | 350 | 280 | 230 | 220 | 260 | 250 | 300 ^P | 330 | 380 | 340 | A | 300 | 300 | 350 | 300 | (350) ^F | (300) ^F | 260 | 360 | (340) ^F | 340 |
| 8 | 390 ^P | 370 | (360) ^S | 350 | 390 | 400 | 440 ^K | C | A | C | C | C | C | C | C | C | 300 | C | A | A | A | A | 400 | A |
| 9 | 400 ^K | (350) ^F | 300 ^F | 300 ^F | 280 ^F | 250 ^F | 240 ^K | 240 | 300 | 320 ^H | 340 | 300 | 380 | (350) ^F | 300 | [300] ^C | 300 | C | A | A | A | A | 400 | A |
| 10 | 350 | FS | 320 | 300 ^F | 290 ^F | 250 | 250 | 220 | 230 | 300 | 340 | 340 | 350 | 310 | 310 | 350 ^F | C | C | C | C | (280) ^F | 260 | 400 | 390 |
| 11 | (330) ^F | 350 | 350 | 350 ^H | F | F | C | C | 240 | 290 | 350 | C | C | C | C | C | C | C | C | C | 250 | A | 400 | 300 ^P |
| 12 | S | A | 300 | F | FS | FS | C | C | C | (250) ^P | A | 360 | 450 | 400 | A | 310 | 300 ^P | 280 | C | C | 250 | A | 400 | 300 ^P |
| 13 | 330 | 370 | 320 | 320 | 360 ^H | 350 ^F | 260 | [300] ^C | 330 | A | C | A | C | 370 | 370 | 320 | (300) ^F | 280 | 300 | C | 260 | 250 | 350 ^H | (360) ^P |
| 14 | S | A | 290 | 250 | F | 300 ^F | 250 | 300 | 350 | 340 | 320 | 350 | 350 | (360) ^F | A | 370 | 270 | 300 | 270 | 300 | C | C | 350 | 320 |
| 15 | 370 | 300 | 300 | 270 | 340 ^F | (250) ^P | 260 | A | C | A | A | A | C | C | C | 340 | 310 | 290 ^P | 260 | 290 | 300 | 270 | 300 | (310) ^F |
| 16 | A | F | 290 | 280 ^F | 350 | 310 | 260 ^P | 250 | 250 | 290 | A | A | 340 | A | A | 300 | 270 | 290 | 290 | 300 | A | 320 | A | C |
| 17 | S | A | A | A | A | F | (270) ^P | C | A | A | A | C | 350 ^P | 350 | A | A | A | A | A | A | A | A | C | 320 |
| 18 | A | 370 | A | A | 280 | A | 240 | 250 | 350 | C | A | C | 450 ^P | 450 | 320 | 350 | 310 ^F | (290) ^F | 300 | A | C | S | 350 | [330] ^S |
| 19 | 310 | 250 | 350 | 390 ^F | 350 ^F | F | 290 | 280 | 350 | 300 ^P | (370) | 310 | 370 | [360] ^C | (350) ^F | (350) ^F | (360) ^F | (320) | (300) ^F | 290 ^P | A | 250 ^H | 320 ^P | A |
| 20 | A | 350 ^F | 330 | (280) ^F | (300) ^F | 340 ^F | 250 | 260 | (330) ^F | C | A | C | C | C | A | A | A | A | A | C | 300 | [300] ^S | (310) ^F | S |
| 21 | FS | FS | F | 250 ^P | 250 ^P | 310 ^K | C | C | C | C | C | 400 | 400 | 400 | 350 | 310 ^K | A | C | (310) ^F | A | B | 360 ^H | S | A |
| 22 | A | A | A | 300 | 300 | 290 | 300 | 250 | A | A | A | C | 320 | A | 350 | 330 | 300 | 310 | 290 | 250 | A | A | A | A |
| 23 | A | A | A | A | 260 | 300 ^K | 280 | 290 | C | A | A | 350 | (350) ^F | 320 | 310 ^P | 300 ^F | (300) ^F | 350 | 360 | 270 | 240 | 330 ^P | 350 | A |
| 24 | 350 | A | (380) ^F | F | F | 270 | A | (250) ^F | A | C | A | 350 | (310) ^F | 320 | S | C | C | C | C | S | 250 ^P | A | A | A |
| 25 | A | S | (300) ^S | F | FH | 250 | (270) ^F | 250 | (290) ^F | (350) ^F | 450 | A | 400 | (400) ^P | (330) ^F | (290) ^F | 290 | 330 | 310 | 320 | 270 | 330 | S | 360 ^V |
| 26 | B | F | (310) ^F | 350 | 350 | (260) | 230 | 240 | 280 | [300] ^C | 330 | 310 | 300 | 320 | 330 | 340 | [320] ^F | (300) ^F | 290 ^P | 310 | 320 | 370 | (370) ^F | 340 |
| 27 | 350 | (320) ^P | C | C | C | C | (270) ^F | 250 | C | C | U | (480) ^P | 580 | (320) ^F | [300] ^C | 270 | 350 | 330 | 330 | 330 | 250 | A | A | A |
| 28 | AS | 400 | A | 360 ^S | 300 | 270 | 280 | 270 ^P | 300 | 300 | 300 | A | 400 | 350 | 330 | 300 | 340 | 370 | 340 | 340 | 310 | 300 | 360 | 370 |
| 29 | 360 | 340 | 300 | 370 | (370) ^F | 300 | 300 | 340 | A | A | A | A | A | C | C | 300 | 340 | 340 | 320 | 300 | (300) ^F | (340) ^F | (300) ^F | 350 |
| 30 | A | AS | A | A | A | A | M | 310 | A | 260 | 300 | C | 390 | 360 | 320 | 350 | 350 | [320] ^F | 300 ^F | 310 | 300 | 350 | 350 | 360 |
| 31 | [340] ^S | 310 | 240 | 300 ^F | 340 | 340 | (280) ^F | 300 | 260 | A | 350 | A | A | 390 | 370 ^F | 320 | (340) ^F | 320 | C | A | 300 | (350) ^S | [380] ^S | 400 |
| Mean Value | 350 | 340 | 320 | 320 | 320 | 300 | 270 | 270 | 290 | 300 | 340 | 360 | 360 | 350 | 330 | 310 | 310 | 310 | 310 | 300 | 280 | 310 | 350 | 340 |
| Median Value | 350 | 350 | 310 | 300 | 320 | 300 | 260 | 260 | 300 | 300 | 330 | 350 | 360 | 350 | 320 | 310 | 300 | 300 | 300 | 300 | 280 | 300 | 350 | 350 |
| Count | 14 | 17 | 20 | 21 | 22 | 24 | 25 | 25 | 18 | 15 | 13 | 11 | 18 | 20 | 18 | 21 | 23 | 21 | 20 | 15 | 22 | 18 | 22 | 17 |

f_oF₂

Every 1.0 Mc to 2.0 Mc in 2 min

Manual

Automatic

Y 2

The Central Radio Wave Observatory
Koganei-machi, Kitakama-gun, Tokyo, Japan

Lat. 31° 12.6' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

135° E Mean Time

May, 1952

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 | 270 ^K | 250 ^K | 270 ^K | 260 ^K | 270 ^K | 250 ^K | 240 ^K | 230 ^K | 240 ^K | 240 ^K | 300 | 320 | C | C | C | C | C | 260 | 240 | [230 ^F] | 220 | 250 | 300 | 300 | |
| 2 | 290 | 300 | 260 | 270 | 250 | 220 | 230 | 240 | 220 | 240 | 350 | 350 | 340 | 300 | 260 | 270 | 250 | 240 | 250 | 270 | 250 | A | 320 | 350 | |
| 3 | 300 | 300 | 280 | 250 | 240 | 230 | 230 | 250 | 300 | A | A | 350 | 340 | 290 | 290 | 280 | 260 | A | A | A | A | M | 340 ^A | 320 ^A | |
| 4 | A | 290 ^A | A | 350 ^A | 300 ^A | 240 | 250 ^A | 250 ^A | 300 ^A | A | 300 ^A | A | 350 | 290 | 280 | 290 | 290 | A | A | A | A | 250 | 280 | A | 260 |
| 5 | 270 | 290 ^A | 250 | 290 | 290 ^A | 250 | 250 | 240 | C | C | 250 | 340 | 350 | 290 | 290 | 270 | 260 | 260 | A | 260 ^A | 220 ^A | 220 ^A | 300 | 300 | |
| 6 | 300 | 290 | 250 | 210 | 250 | 300 | 240 | 240 | 250 | 280 | 320 | 440 | 380 | [340 ^F] | 290 | 280 | 280 | 250 | 350 ^A | 270 ^A | 240 ^A | 250 ^A | 300 | 300 ^A | |
| 7 | 300 ^A | 300 ^A | 270 ^A | 290 | 250 | 210 | 210 | 250 | 250 | 290 | 320 | 350 | 310 | A | A | 280 ^A | 300 ^A | 270 ^A | A | A | 250 | 210 ^A | 300 | 270 | 280 |
| 8 | 330 | 300 | 290 | 290 | 290 | 300 | 290 ^H | A | A | C | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| 9 | 300 ^K | 300 ^K | 260 | 240 | 230 | 230 | 200 ^K | 200 ^K | 240 ^H | 320 | 330 | 300 | 360 | 350 | 300 | [280 ^F] | 270 | 260 | 260 | A | A | A | A | A | A |
| 10 | 300 | 290 | 250 | 250 | 200 ^F | 240 | 210 | 220 | 220 | 300 | 340 | 320 | 310 | 300 | 300 | 320 | 300 | 270 | A | A | C | 270 ^A | 250 | A | |
| 11 | 270 | 300 | 300 | 300 ^H | 270 ^F | 250 ^F | 250 | 240 | 240 | 280 | 950 | C | 300 | 300 | 300 | 300 | 280 | 270 | 260 | 240 | 210 ^A | A | 300 | 290 ^A | |
| 12 | 300 ^F | A | 250 | 250 ^F | 300 ^F | 270 | [250 ^C] | 230 | 240 ^A | 250 | 300 ^A | 340 ^A | 450 | 360 | 350 | 300 | 270 | 250 | 240 | 240 | 250 ^A | 250 | 290 | 280 | |
| 13 | 280 | 240 ^F | 280 | 250 | 300 ^H | 290 | 250 | 250 | 330 ^A | A | A | 310 | A | 370 | 350 | 310 | 280 | 250 | 260 | 240 | 200 ^A | 230 | 300 ^H | 320 | |
| 14 | 300 | A | 250 ^A | 240 | 240 | 250 | 250 | 300 | 340 | 320 | 310 | 340 | 350 | A | A | 270 | 260 | 280 | 250 | 200 ^A | C | C | 270 | 300 ^A | |
| 15 | 310 | 260 | 250 | 250 | 270 | 240 | 250 | 300 ^F | C | A | A | A | C | C | 320 | 300 | 270 | 250 | 250 | 250 | 250 | 250 | 270 | 270 ^A | |
| 16 | A | 280 | 250 | 230 | 280 | 250 | 240 | 240 | 250 | 290 | 330 ^A | A | 340 ^A | A | A | 290 | 260 | 290 ^A | A | A | A | 260 | 300 ^A | 220 ^A | |
| 17 | 250 | A | A | A | A | 280 | 250 | 230 | A | 290 | A | A | 350 | 320 | A | A | A | 320 ^A | A | A | A | A | A | 310 ^A | |
| 18 | A | 300 ^A | A | A | A | 250 | 230 | 250 | 320 | C | A | C | 450 | 450 | 300 | 320 | 300 | 280 ^A | 290 | A | A | A | 350 ^A | 290 | |
| 19 | 230 ^A | 220 | 290 | 300 ^F | 300 ^F | 290 ^F | 220 | 240 | 300 | 300 | 350 | 300 | 350 | 330 | 340 | 320 | 340 | 290 | 260 | 250 ^A | A | A | 360 ^H | 300 ^A | |
| 20 | A | 300 ^F | 250 | 250 | 250 | 250 | 210 | 250 | 330 ^A | A | A | A | A | A | A | A | A | 270 ^A | A | A | A | A | 250 | 270 | |
| 21 | 270 | 300 | 290 | 220 | 200 ^K | 250 ^K | 250 ^K | 240 ^A | A | C | C | 400 ^K | 390 ^K | 330 ^K | 300 ^K | A | 310 ^K | 350 ^K | 300 ^K | A | A | A | 270 ^K | 300 ^F | |
| 22 | A | A | 270 | 250 | 260 | 250 | 250 | 240 | A | A | A | A | A | A | A | 340 | 320 | 300 | 260 | 210 ^A | A | A | A | A | |
| 23 | A | A | A | A | 250 ^A | 250 | 250 ^A | 280 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | |
| 24 | 260 ^A | A | 330 | 300 ^F | 250 | 240 | 250 ^A | 240 ^A | A | C | A | 350 | A | 300 | 300 | 290 | 300 | 330 | 300 | 210 ^A | 200 ^A | 240 | 300 ^F | A | |
| 25 | A | 250 | 260 | 210 ^A | 210 ^A | 220 | 220 | 240 | 290 | 350 | 450 | 420 ^A | 380 ^A | 380 ^A | 310 | 270 | 290 | 300 | 260 | 250 ^A | 250 ^A | A | A | A | |
| 26 | 400 | 300 ^F | 300 ^A | 290 ^A | 336 ^A | 230 | 200 | 210 | 260 | [300 ^F] | 330 | 310 | 300 | 310 | 300 | 310 | 300 | 280 | 260 | 240 | 260 | 230 | 250 | 270 ^A | |
| 27 | 270 | 260 | 300 ^A | 250 | C | C | 290 | 230 | [320 ^F] | 400 | 500 | 470 | 570 | 410 ^A | 310 | 270 | 260 | 340 | 300 | 270 | 210 | A | A | A | |
| 28 | 350 ^A | 300 ^A | A | 300 ^A | 250 ^A | 210 ^A | 250 | 250 | 300 ^A | 300 | A | 400 | 340 | 310 | 290 | 320 | 350 ^A | 300 ^A | 300 ^A | 300 ^A | 250 ^A | 250 ^A | 290 ^A | 290 | |
| 29 | 290 | 270 | 250 ^A | 280 | 300 | 250 | 270 | 340 | A | A | A | A | A | C | C | 300 ^A | 320 | 300 | 280 | 250 | 240 | 250 | 250 | 290 ^A | |
| 30 | A | A | A | A | A | A | M | 240 | A | 250 | 300 | 390 | 390 | 350 | 300 | 320 ^A | 320 ^A | 300 | 270 | 250 | 290 | 330 | 350 ^A | 300 ^A | |
| 31 | 300 ^A | 270 ^A | 200 ^A | 240 | 300 | 260 | 250 | 280 | 250 | 260 ^A | 350 | A | A | A | 370 | 350 | 300 | 300 ^A | 300 ^A | 270 ^A | A | 300 | 300 ^A | 310 ^A | |
| Mean Value | 290 | 280 | 270 | 260 | 260 | 250 | 240 | 250 | 280 | 300 | 340 | 360 | 370 | 340 | 310 | 300 | 290 | 280 | 270 | 250 | 250 | 270 | 290 | 290 | |
| Median Value | 300 | 290 | 260 | 250 | 260 | 250 | 250 | 240 | 290 | 290 | 330 | 350 | 350 | 330 | 300 | 300 | 290 | 280 | 260 | 250 | 240 | 250 | 250 | 300 | |
| Count | 23 | 24 | 25 | 27 | 28 | 28 | 30 | 29 | 22 | 17 | 19 | 18 | 24 | 23 | 23 | 27 | 28 | 28 | 24 | 20 | 24 | 22 | 26 | 22 | |

Sweep 1.0 Mc to 22.0 Mc in 2 min

Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

IONOSPHERIC DATA

Yamagawa

Lat. 31° 12.6' N
Long. 130° 37.7' E

f_oF1

May. 1952

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 | L | Q | A | A | A | 5.0 | C | | C | C | 3.8 | Q | | | | | |
| 2 | | | | | | | Q | Q | Q | 4.5 | B | A | 5.0 | 4.8 | A | 4.5 | 4.1 | L | 3.0 | | | | | |
| 3 | | | | | | | Q | L | B | A | A | A | 4.7 | 5.0 | 4.5 ^H | 4.5 | A | A | A | | | | | |
| 4 | | | | | | | Q | A | A | A | A | A | A | A | 4.5 ^H | 4.5 | 4.0 | A | A | | | | | |
| 5 | | | | | | | Q | 3.5 | C | C | 4.0 | 4.7 | A | 4.7 | 4.7 | 4.5 | 4.5 ^H | A | A | | | | | |
| 6 | | | | | | | Q | 3.4 | 4.0 | 4.5 | 4.6 | 5.0 | 5.0 | [4.8] ^C | 4.6 | A | 4.5 | 4.0 | A | | | | | |
| 7 | | | | | | | Q | A | A | L | L | 5.0 | 5.0 | A | A | A | A | A | A | | | | | |
| 8 | | | | | | | Q | A | A | 4.0 | A | A | A | A | A | A | 4.2 | A | A | | | | | |
| 9 | | | | | | | Q | Q | Q | 4.5 | A | 4.7 | 4.9 | 4.8 | 4.5 | [4.4] ^C | 4.2 | L | L | | | | | |
| 10 | | | | | | | Q | L | Q | 4.5 | 5.0 | 4.7 | 4.7 | 4.7 | 4.8 | A | A | A | A | | | | | |
| 11 | | | | | | | Q | Q | A | L | 4.7 | A | 4.7 | 4.6 | A | A | 4.4 | 4.0 | A | | | | | |
| 12 | | | | | | | C | Q | A | A | A | A | A | A | A | A | 4.3 | 4.0 | L | | | | | |
| 13 | | | | | | | 3.1 | Q | A | A | A | A | A | A | B | 4.5 | 4.3 | 4.0 | L | | | | | |
| 14 | | | | | | | Q | L | 4.0 | 4.2 ^H | 4.4 | 4.6 | B | 4.8 | B | A | 4.2 | 4.0 | L | | | | | |
| 15 | | | | | | | 3.5 | A | C | A | A | A | C | C | 4.4 | 4.3 | [4.0] ^C | 3.8 | A | | | | | |
| 16 | | | | | | | Q | Q | A | 4.2 | A | A | A | A | A | A | 4.2 | A | A | | | | | |
| 17 | | | | | | | Q | A | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 18 | | | | | | | A | Q | A | A | A | A | A | A | A | 4.6 | A | A | A | | | | | |
| 19 | | | | | | | Q | Q | L | 4.4 | A | A | B | A | A | A | 4.2 | A | A | | | | | |
| 20 | | | | | | | Q | L | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 21 | | | | | | | Q | A | A | C | C | 4.8 | B | 4.7 | B | A | 4.7 | L | A | | | | | |
| 22 | | | | | | | Q | Q | A | A | A | A | A | A | A | 4.4 | A | A | A | | | | | |
| 23 | | | | | | | Q | A | A | A | A | A | A | A | A | 4.4 | A | A | A | | | | | |
| 24 | | | | | | | A | Q | A | C | A | A | A | A | A | A | A | 4.1 | A | | | | | |
| 25 | | | | | | | Q | 3.7 | A | A | 5.0 ^H | A | A | A | A | 4.6 | 4.4 | 4.0 | A | | | | | |
| 26 | | | | | | | Q | Q | L | C | A | A | A | A | A | 4.4 | 4.2 | 4.0 | A | | | | | |
| 27 | | | | | | | L | Q | C | 4.5 | 4.8 | (4.8) ^B | 4.5 | A | B | 4.4 | 4.5 | 4.2 | 3.2 | | | | | |
| 28 | | | | | | | A | Q | A | A | 4.7 | A | B | B | 4.6 | 4.5 | 4.5 | A | A | | | | | |
| 29 | | | | | | | L | A | A | A | A | A | A | C | C | A | A | 4.0 | L | | | | | |
| 30 | | | | | | | M | Q | A | 4.0 | 4.5 | B | 5.0 | B | 4.5 | 4.5 | A | 4.4 | Q | | | | | |
| 31 | | | | | | | Q | 4.0 | 4.2 | A | 5.0 | A | A | 4.8 | 4.9 | 4.2 | A | A | A | | | | | |
| Mean Value | | | | | | | 3.3 | 3.6 | 4.1 | 4.3 | 4.7 | 4.8 | 4.9 | 4.8 | 4.6 | 4.5 | 4.3 | 4.0 | 3.1 | | | | | |
| Median Value | | | | | | | 3.3 | 3.6 | 4.0 | 4.4 | 4.7 | 4.8 | 5.0 | 4.8 | 4.6 | 4.5 | 4.2 | 4.0 | 3.1 | | | | | |
| Count | | | | | | | 2 | 4 | 3 | 10 | 10 | 8 | 9 | 10 | 11 | 16 | 18 | 13 | 2 | | | | | |

f_oF1

Sweep 1.0 Mc to 2.2.0 Mc in 2 min Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 31° 12.5' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

R/F1

May. 1952

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 | 230 | Q | A | A | A | 250 | C | C | C | C | 240 | Q | | | | | |
| 2 | | | | | | | Q | 230 | Q | 250 | B | A | B | 200 | A | 220 | 240 | 210 | 210 | | | | | |
| 3 | | | | | | | Q | 230 | 250 | A | A | A | 210 | A | 220 | 280 | A | A | A | | | | | |
| 4 | | | | | | | Q | A | A | A | A | A | A | A | 240 ^H | 240 | 250 | A | A | | | | | |
| 5 | | | | | | | Q | 230 | C | C | 230 | A | A | 200 | 230 | 230 | 200 ^H | A | A | | | | | |
| 6 | | | | | | | Q | 240 | 230 | 240 | 210 | 220 | B | C | 200 | A | A | 240 | A | | | | | |
| 7 | | | | | | | Q | A | A | 250 | 210 | 210 | 220 | A | A | A | A | A | A | | | | | |
| 8 | | | | | | | Q | A | A | 250 | A | A | A | A | A | A | A | A | A | | | | | |
| 9 | | | | | | | Q | Q | Q | 200 | A | 200 | 200 | 250 | 220 | [230 ^C | 240 | 220 | 240 ^A | | | | | |
| 10 | | | | | | | Q | 210 | Q | A | A | 240 | A | A | A | A | A | A | A | | | | | |
| 11 | | | | | | | Q | Q | A | 200 | 240 | A | B | 220 | A | A | 240 | 240 | A | | | | | |
| 12 | | | | | | | C | Q | A | A | A | A | A | A | A | A | A | A | 240 | 230 | | | | |
| 13 | | | | | | | 250 | Q | A | A | A | A | A | A | B | 220 | 250 | 220 | 250 ^A | | | | | |
| 14 | | | | | | | Q | 220 | 200 | 200 ^H | 210 | 260 | B | 250 | A | A | 220 | 250 ^A | 250 | | | | | |
| 15 | | | | | | | 220 | A | C | A | A | A | C | 200 | 200 | 200 | 230 | 230 | A | | | | | |
| 16 | | | | | | | Q | Q | A | 250 | A | A | A | A | A | A | A | A | A | | | | | |
| 17 | | | | | | | Q | A | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 18 | | | | | | | A | Q | A | A | A | A | A | A | A | 240 | A | A | A | | | | | |
| 19 | | | | | | | Q | Q | 240 | A | A | A | A | A | A | A | A | 230 | A | | | | | |
| 20 | | | | | | | Q | 220 | A | A | A | A | A | A | A | A | A | A | A | | | | | |
| 21 | | | | | | | Q | A | A | C | 240 | 250 | 250 | B | A | A | 220 | 220 | A | | | | | |
| 22 | | | | | | | Q | Q | A | A | A | A | A | A | A | A | 200 | A | A | | | | | |
| 23 | | | | | | | Q | A | A | A | A | A | A | A | A | A | 200 | A | A | | | | | |
| 24 | | | | | | | A | Q | A | C | A | A | A | A | A | A | A | A | A | | | | | |
| 25 | | | | | | | Q | 220 | A | A | 240 ^H | A | A | A | A | 250 | 200 | 220 | 210 | A | | | | |
| 26 | | | | | | | Q | Q | 220 | C | A | A | A | A | A | 200 | 260 | 250 | 240 | 220 | | | | |
| 27 | | | | | | | 250 | Q | C | A | 230 | 220 | 250 | A | A | 240 | 240 | 210 | 250 | | | | | |
| 28 | | | | | | | A | Q | A | A | 250 | A | 230 | B | 200 | 200 | 250 | A | A | | | | | |
| 29 | | | | | | | 250 | A | A | A | A | A | A | C | C | A | A | 240 | 250 | | | | | |
| 30 | | | | | | | M | Q | A | 210 | 200 | 240 | 240 | 230 | 250 | 190 | A | 240 | Q | | | | | |
| 31 | | | | | | | Q | 250 | 220 | A | 260 | A | A | A | 250 | A | A | A | A | | | | | |
| Mean Value | | | | | | | 240 | 230 | 220 | 230 | 230 | 230 | 230 | 220 | 220 | 220 | 230 | 230 | 240 | | | | | |
| Median Value | | | | | | | 250 | 230 | 220 | 240 | 230 | 230 | 240 | 240 | 220 | 220 | 240 | 240 | 240 | | | | | |
| Count | | | | | | | 4 | 9 | 6 | 9 | 10 | 8 | 8 | 8 | 10 | 15 | 14 | 15 | 8 | | | | | |

Yamagawa

IONOSPHERIC DATA

foE

May, 1952

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

foE

Frequency in Mc to 22.0 Mc in 2 min

Manual

Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 31° 12.6' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

135° E Mean Time

f_oF₂

May. 1952

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

Sweep 1.0 Mc to 22.0 Mc in 2 min Manual Automatic

IONOSPHERIC DATA

135° E Mean Time

May. 1952

fEs

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|------------------|------------------|------------------|------------------|------------------|------------------|-----|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|-----|
| 1 | 2.0 | 2.0 | E | E | 2.1 | 2.2 | 2.5 | 3.5 | G | 4.5 | 6.0 | 6.2 | 5.0 ^Y | C | C | C | C | G | 3.5 | C | E | E | E | E | |
| 2 | E | E | 2.1 | E | 2.5 | E | B | G | G | G | 5.5 | 5.5 ^Y | 4.9 | 5.2 | 3.7 | 3.8 | 5.4 | 8.0 ^Y | 8.4 ^Y | 11.7 ^Y | 11.8 ^Y | M | 6.4 | 4.1 | |
| 3 | E | E | E | E | E | E | B | G | G | 5.5 | 6.0 | 5.5 | 5.3 | 6.0 | G | G | 4.7 | 5.0 | 8.5 ^Y | 6.2 ^Y | 3.5 ^Y | 6.0 | 5.5 | 3.2 | |
| 4 | 5.0 | 4.0 | 5.0 | 4.2 | 4.2 | 1.8 | 5.3 | 5.0 | 5.5 | 6.0 | 4.4 | 5.3 | 5.5 | 4.7 | 3.8 | 4.2 | 4.3 | 4.7 | 6.0 | 4.7 | 4.6 | 4.7 | 3.0 | 2.5 | |
| 5 | 5.0 | 3.5 | 2.6 | 3.0 | 3.2 | 2.5 | 3.4 | 3.5 | C | C | 4.4 | 5.3 | 3.8 | C | G | 4.5 | 5.0 | 3.8 | 7.6 ^Y | 5.9 ^Y | 4.0 | 4.4 ^Y | 2.5 | 2.5 | |
| 6 | 2.1 | E | 2.1 | E | 3.0 | E | 2.5 | G | 3.7 | 4.8 | 3.9 | 4.5 ^Y | 3.8 | C | G | 4.5 | 5.0 | 3.8 | 7.0 | 5.9 | 4.0 | 7.0 ^Y | 5.0 | 3.5 | |
| 7 | 3.3 ^F | 5.0 | 4.2 ^F | 3.4 | 4.8 | 3.1 | 2.6 | 5.3 | 5.0 | 4.7 ^Y | 4.2 | 4.8 | 5.0 | 6.5 | 12.0 | 8.4 | 7.5 | 7.0 | 5.5 | 4.0 | 7.0 | 7.0 ^Y | 5.0 | 3.5 | |
| 8 | 2.8 | 2.5 | 3.0 | 2.5 | 3.0 | 2.6 | 3.4 | 5.0 | 12.5 ^Y | 4.8 | 6.0 | 5.0 | 5.7 | 5.0 | 4.6 | 5.0 | 5.3 | 7.0 | 6.3 | 8.5 | 5.5 ^Y | 5.9 | 4.7 | 6.0 | |
| 9 | 5.0 | 3.5 | E | 2.5 ^F | 2.5 | E | 2.5 | 3.5 | 4.4 | 4.5 ^Y | 5.3 | 4.7 | 4.6 | G | G | C | G | G | 3.4 | 12.5 ^Y | 2.2 | 3.3 | 4.5 ^F | 4.7 | |
| 10 | 2.4 | 2.4 | 2.8 | 2.3 | E | E | G | G | 4.1 ^Y | 4.7 | 5.0 | 5.0 | 5.0 ^Y | 5.2 | 5.4 | 5.7 | 6.0 | 7.0 ^Y | 7.1 ^Y | C | 7.5 | 4.5 | 4.4 | 6.0 ^Y | |
| 11 | 2.2 | 2.4 | 2.6 | 3.5 | 2.5 | 2.4 | 2.2 | 4.2 | 5.5 | 5.0 | 4.8 ^Y | 6.0 ^Y | G | G | 5.0 | 5.0 | 4.8 ^Y | G | 4.0 | 4.0 | 4.0 | 8.0 ^Y | 5.5 | 4.5 | |
| 12 | 5.0 | 6.0 ^F | 3.5 | 2.5 | 5.5 ^Y | E | C | 4.3 | 5.5 | 5.5 ^Y | 6.0 | 6.2 | 9.0 | 6.8 | 10.0 | 6.0 | 6.0 | 3.7 | 3.4 | 3.5 | 3.6 | 2.7 | 2.3 | 3.0 | |
| 13 | 2.8 | 3.5 | 3.0 | 2.6 | E | 2.0 | 3.1 | 5.0 | 4.9 | 6.1 | 4.6 | 6.2 ^Y | 7.4 ^Y | 3.8 | 3.8 | 4.5 | 4.5 | 3.6 | 3.7 | 2.9 | 2.5 | 2.9 | 3.0 | 3.3 | |
| 14 | 3.5 | 4.2 ^F | 4.5 | 4.0 | 5.0 ^F | 3.6 ^F | 3.1 | G | 3.9 | 4.2 ^Y | 3.6 | 3.8 | 3.8 | 3.8 | 12.8 | 7.4 | 3.7 | 4.5 | 3.6 | 4.0 ^F | C | C | 2.5 | 3.3 | |
| 15 | 3.7 | 3.5 | 3.5 ^F | 3.3 | E | 3.5 | 3.6 | 6.1 ^Y | C | 7.5 ^Y | 7.7 ^Y | 8.5 ^Y | 4.5 ^Y | C | G | G | G | 3.8 | 4.3 | 3.3 | 3.7 | 4.5 | 4.2 | 6.2 ^Y | |
| 16 | 7.0 ^Y | 7.5 ^Y | 8.2 ^Y | E | E | 2.2 ^Y | 3.1 | 4.0 | 5.0 | 4.5 | 6.2 ^Y | 6.7 ^Y | 7.5 ^Y | 9.0 ^Y | 12.5 ^Y | 5.0 | 4.5 | 5.2 | 5.0 | 6.0 | 4.8 ^F | 7.3 ^Y | 5.0 ^F | 3.5 | |
| 17 | 4.4 | 4.2 | 4.5 | 4.5 | 4.4 | 3.4 | 5.0 | 4.5 | 7.1 ^Y | 9.5 ^Y | 13.0 ^Y | 6.0 ^Y | 6.0 ^Y | 6.0 ^Y | 12.7 ^Y | 9.0 ^Y | 9.0 ^Y | 8.0 ^Y | 8.6 ^Y | 9.1 ^Y | 11.5 ^Y | 7.0 ^Y | 5.0 | 4.5 | |
| 18 | 6.0 ^F | 4.5 | 5.0 ^F | 4.5 | 2.5 ^F | 3.5 | 4.3 | 3.0 | 5.2 | 4.8 | 7.6 ^Y | 6.0 ^Y | 4.6 | 4.9 | 6.8 ^Y | 5.0 ^Y | 5.0 | 7.0 ^Y | 5.1 | 6.0 | 5.0 | 5.0 | 5.0 | 4.6 | 4.0 |
| 19 | 3.4 | 1.8 | 2.4 | 2.5 ^F | 2.0 | 2.4 | 2.6 | 3.5 | 3.5 | 3.8 | 4.5 | 5.0 | 4.5 | 6.2 ^Y | 6.0 ^Y | 6.0 ^Y | G | 4.9 | 5.0 | 4.5 | 8.0 ^Y | 5.0 | 6.0 ^Y | 4.8 | |
| 20 | 4.9 | 3.0 | 3.0 | 3.4 | 3.5 ^F | 2.3 | 2.4 | 3.5 | 5.0 | 6.0 ^Y | 8.7 ^Y | 6.0 ^Y | 5.0 ^Y | 7.0 ^Y | 11.0 ^Y | 12.2 ^Y | 10.0 | 5.0 | 12.5 ^Y | 5.2 | 3.8 | 3.8 | 2.7 | 3.3 | |
| 21 | 3.1 | 3.5 | 3.0 | 2.4 | 2.3 | 2.5 | 4.0 | 4.5 | 4.5 | C | G | G | 4.5 | G | 4.5 | 11.3 ^Y | 4.0 | G | 5.0 | 8.5 ^Y | 5.0 | 5.0 | 4.5 | 4.7 | |
| 22 | 4.5 ^F | 5.0 | 5.0 | 4.5 | 2.9 | 3.4 | 3.8 | 6.0 | 8.6 ^Y | 11.6 ^Y | 8.0 | 6.0 ^Y | 6.0 ^Y | 10.0 ^Y | 4.5 | G | 5.0 | 7.0 | 8.5 ^Y | 8.4 ^Y | 11.8 ^Y | 6.0 ^Y | 7.1 ^Y | 6.7 ^Y | |
| 23 | 5.0 | 7.9 ^Y | 4.5 ^F | 7.0 ^F | 4.0 | 3.4 | 4.3 | 5.0 | 5.0 ^F | 6.0 ^Y | 7.5 ^Y | 11.7 ^Y | 6.0 ^Y | 5.0 ^Y | 5.0 | G | 4.5 | 5.0 | 6.3 | 4.2 ^F | 3.5 | 2.5 ^F | 3.1 | 4.7 | |
| 24 | 7.0 ^F | 6.0 ^F | 4.5 ^F | 2.5 ^F | 2.5 ^F | 3.0 ^F | 5.0 | 4.5 | 8.3 ^Y | C | 8.5 ^Y | 8.0 ^Y | 8.5 ^Y | 6.0 ^Y | 8.4 ^Y | 6.0 ^Y | 7.0 ^Y | 5.9 ^Y | 7.2 | 7.8 | 8.2 | 6.8 | 6.8 | 8.0 | |
| 25 | 7.4 | 4.6 | 4.5 | 3.5 ^F | 2.5 ^Y | 2.4 | G | G | 4.5 | 5.0 | 4.5 | 7.3 | 7.0 | 8.4 | G | G | G | G | 5.2 | 4.5 | 3.0 | 3.2 | 3.5 | 4.5 ^F | |
| 26 | 5.9 ^Y | 3.4 | 6.1 | 4.5 | 3.7 | 2.5 | 3.3 | G | G | C | 4.5 | 6.2 | 6.2 ^Y | 5.0 ^Y | G | 4.5 | 3.8 | 3.3 | 3.2 | 2.8 | 7.0 ^Y | 4.4 ^Y | 3.1 | 3.1 | |
| 27 | 2.5 | 2.9 | 6.2 ^Y | 3.8 | C | C | 3.5 | G | C | 4.5 ^Y | G | G | G | 6.9 ^Y | 5.0 | 4.4 ^Y | 3.8 | 3.8 | G | 3.7 | 4.5 | 8.2 ^Y | 5.9 ^Y | 7.5 ^Y | |
| 28 | 7.5 ^Y | 4.5 | 8.0 ^Y | 7.0 ^Y | 3.5 | 3.0 | 4.5 | 4.5 | 4.6 | 5.0 | 4.0 | 6.8 ^Y | G | 4.5 | G | G | 3.8 | 6.1 ^Y | 6.5 | 6.0 | 4.3 | 3.0 | 3.5 | 2.3 | |
| 29 | 2.0 | 3.0 | 3.5 | 3.0 | E | 2.5 | 3.5 | 4.5 | 9.0 ^Y | 10.0 ^Y | 10.7 ^Y | >9.0 | 11.5 ^Y | C | C | 7.1 ^Y | 5.0 | 4.3 | 3.7 | 3.6 ^F | 2.4 | 1.9 | 2.0 | 4.4 | |
| 30 | 8.3 | 7.6 | 7.2 | M | 7.3 ^Y | M | 4.3 | 4.3 | 6.0 | 4.5 | G | 4.3 | 4.3 ^Y | G | G | 7.0 ^Y | 4.0 | 4.5 | 4.3 | 5.0 | 4.6 | 7.3 ^Y | 5.0 | 5.0 | |
| 31 | 5.0 | 5.0 | 5.0 | 3.2 | 3.7 | 3.0 | 3.0 | 3.9 | 4.0 | 6.0 ^Y | 4.4 | 10.5 ^Y | 8.5 ^Y | 4.4 ^Y | 4.4 | 4.2 | 7.0 | 6.8 ^Y | 8.0 ^Y | 7.2 ^Y | 4.5 | 4.5 ^F | 4.5 | 5.0 | |
| Mean Value | 4.4 | 4.2 | 4.3 | 3.6 | 3.5 | 2.7 | 3.5 | 4.4 | 5.6 | 5.7 | 6.2 | 6.3 | 5.9 | 5.9 | 7.0 | 6.0 | 5.4 | 5.4 | 5.9 | 5.8 | 5.4 | 4.8 | 4.3 | 4.4 | 4.4 |
| Median Value | 4.4 | 3.5 | 3.5 | 3.1 | 2.7 | 2.5 | 3.3 | 4.0 | 5.0 | 5.0 | 5.2 | 6.0 | 5.0 | 5.0 | 4.6 | 4.5 | 4.8 | 4.7 | 5.2 | 4.7 | 4.5 | 4.5 | 4.5 | 4.4 | 4.4 |
| Count | 31 | 31 | 31 | 30 | 30 | 29 | 27 | 31 | 28 | 27 | 30 | 31 | 31 | 27 | 29 | 29 | 30 | 31 | 31 | 29 | 30 | 29 | 31 | 31 | 31 |

Automatic

Manual

Sweep 1.0 Mc to 22.0 Mc in 2 min

fEs

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 31° 12.6' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

May. 1952

(M3000)F2

135° E Mean Time

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----|
| 1 | 2.9 ^K | 3.0 ^K | 3.0 ^K | 3.1 ^K | 3.0 ^K | 3.0 ^K | 3.4 ^K | 3.4 ^K | 3.1 ^K | 3.2 ^P | 3.6 | C | C | C | C | C | C | (3.3) ^P | C | C | 3.5 ^P | C | C | C | |
| 2 | C | C | C | C | C | (3.5) ^P | (3.6) ^P | 3.5 | 3.4 | C | C | 2.9 | (2.9) ^P | 3.0 | 3.2 | C | C | C | 3.2 | C | C | C | (3.0) ^S | C | |
| 3 | C | C | C | C | 3.2 | (3.3) ^C | 3.4 | 3.2 | 3.1 | 2.9 | A | C | C | 3.2 ^P | C | C | (3.3) ^P | A | A | A | A | M | 2.7 | S | |
| 4 | A | 2.7 | 2.8 | 2.9 | 3.0 ^H | 3.0 | 3.5 | (3.3) ^P | 3.3 | (3.4) ^P | 3.3 | C | C | C | C | 3.2 ^P | 3.1 | C | A | A | S | S | A | 2.9 | |
| 5 | S | 2.7 | 2.8 | 2.9 | 3.1 | 3.1 | 3.4 | 3.6 | C | C | 3.3 | C | C | (3.1) ^P | C | C | 3.2 | (3.2) ^P | 3.0 | (3.4) ^P | 3.6 ^P | 3.2 | 2.7 | 2.9 | |
| 6 | 2.8 | (3.0) ^S | 3.1 ^P | 3.3 | 3.0 | 2.7 | (3.6) ^P | (3.5) ^S | 3.4 | 3.2 | C | C | C | C | 3.1 | C | C | C | 3.0 | 3.3 | 3.3 | 3.1 | 2.7 | (2.8) ^P | |
| 7 | 2.8 | 2.9 | 3.0 | 2.8 ^V | 3.2 | 3.5 | 3.6 | 3.3 | 3.3 | 3.2 ^P | 3.0 | 2.8 | 3.0 | (3.0) ^C | 3.1 | 3.1 | 3.0 | 3.2 | (3.0) ^P | (3.1) ^P | 3.4 | 2.8 | (2.9) ^P | 2.9 | |
| 8 | 2.7 ^P | 2.7 | (2.7) ^S | 2.7 | 2.7 | 2.7 | 2.5 ^H | C ^K | A ^K | C ^K | C ^K | C ^K | C ^K | C ^K | C ^K | 3.1 ^K | 3.2 ^K | C ^K | A ^K | A ^K | 3.0 ^K | A ^K | 2.6 ^K | A ^K | |
| 9 | 2.7 ^K | 2.8 ^K | 3.0 ^K | 3.4 ^K | 3.2 ^K | 3.3 ^K | 3.7 ^K | 3.7 ^K | 3.7 ^K | 3.0 ^P | 3.0 | 3.4 | 2.8 | (2.9) ^P | 3.2 | (3.2) ^C | 3.3 | (3.3) ^P | (3.1) ^P | A | 3.3 | 3.3 | 2.7 | 2.7 | |
| 10 | 2.9 | F ₅ | 3.0 | 3.1 ^F | 3.4 ^F | 3.3 | 3.5 | 3.8 | 3.7 | 3.2 | 3.1 | 3.0 | 3.0 | 3.0 | 3.1 | 3.1 ^P | C | C | C | (3.3) ^P | (3.2) ^P | A | A | A | |
| 11 | (3.0) ^P | 2.9 | 2.9 | 3.0 ^H | F | F | C | C | 3.7 | 3.3 | 3.0 | C | C | C | C | C | C | C | C | C | (3.3) ^P | (3.2) ^P | A | A | |
| 12 | S | A | 3.0 | F | F ₅ | F ₅ | C | C | C | (3.5) ^P | 3.0 | 2.9 | 2.4 | 2.7 | 3.0 | 3.2 | 3.2 ^P | 3.3 | C | C | 3.2 | 3.2 | 3.0 | (3.0) ^P | |
| 13 | 2.9 | 2.7 | 2.9 | 2.9 | 2.8 ^H | 2.9 ^F | 3.4 | (3.2) ^C | 2.9 | A | C | 3.3 | (3.0) ^C | (3.0) ^C | 2.7 | 3.1 | (3.2) ^P | 3.3 | 3.1 | C | 3.4 | 3.2 | 2.9 ^H | (2.8) ^P | |
| 14 | S | A | 3.3 | 3.3 | F | 3.0 ^F | 3.6 | 3.1 | 2.9 | 3.1 | 3.5 | 2.9 | 2.9 | (2.8) ^P | A | 3.3 | 3.3 | 3.1 | 3.4 | 3.2 | C | 2.7 | 2.4 | | |
| 15 | 2.6 | 3.1 | 3.2 | 3.2 | 2.9 ^F | (3.4) ^P | 3.3 | 3.6 | C | A | A | A | C | C | 3.0 | 3.1 | 3.2 ^P | 3.2 | 3.3 | 3.2 | 3.2 | 3.0 | (3.1) ^P | A | |
| 16 | A | F | 3.2 | 3.2 | 2.8 | 3.0 | 3.3 ^P | 3.5 | 3.5 | 3.3 | 3.1 ^P | A | A | A | A | 3.2 ^P | 3.3 | 3.3 | 3.1 | 3.3 | 3.0 | 3.2 ^P | C | C | |
| 17 | S | A | A | A | A | F | (3.3) ^P | (3.4) ^C | 3.4 | A | A | C | 2.9 ^P | 3.0 | A | A | 2.6 | 3.1 | A | A | A | A | 3.0 | (3.4) ^P | |
| 18 | A | 2.7 | A | A | 3.1 | A | 3.7 | 3.5 | 3.0 | C | A | C | 2.6 ^P | 2.5 | 3.1 | 3.0 | 3.2 ^P | (3.3) ^P | 3.1 | 3.0 | C | S | 2.9 | (3.0) ^P | |
| 19 | 3.1 | 3.5 | 2.8 | 2.7 ^F | 2.8 ^F | F | 3.1 | 3.2 | 2.9 | 3.1 ^P | (2.9) ^P | 3.1 | 2.8 | (2.8) ^C | (2.9) ^P | (3.0) ^P | (2.7) ^P | (3.1) ^P | (3.2) ^P | 3.2 ^P | A | 3.5 ^H | 3.0 ^P | A | |
| 20 | A | 2.9 ^F | 2.9 | (3.3) ^P | (3.1) ^P | 2.8 ^P | 3.5 | 3.3 | (3.0) ^P | C | A | C | C | C | A | A | A | A | 3.3 | A | C | 3.0 | (3.0) ^S | (3.1) ^P | S |
| 21 | F ₅ | F ₅ | F | 3.5 ^P | 3.2 ^K | 3.1 ^K | C ^K | C ^K | C ^K | C ^K | C ^K | 2.6 ^K | 2.7 ^K | 2.9 ^K | 3.1 ^K | A ^K | (3.3) ^K | (3.2) ^K | (3.1) ^K | A | 2.9 | 2.8 ^H | S | A | |
| 22 | A | A | A | 3.2 | 3.1 | 3.2 | 3.2 | 3.5 | A | A | A | C | 2.9 | A | A | 3.1 | 3.1 | 3.1 | 3.3 | 3.5 | 3.6 | 3.0 | A | A | |
| 23 | A | A | A | A | 3.3 | 3.1 ^Z | 3.2 | 3.2 | C | C | A | (2.9) ^P | 3.0 | 3.0 ^P | 3.1 ^P | 3.1 ^P | 3.2 | 3.1 | 3.2 | 3.2 | 3.6 | 2.8 ^P | 3.0 | A | |
| 24 | 2.9 | A | (2.6) ^P | F | F | 3.3 | (3.6) ^P | (3.5) ^P | A | C | A | 2.8 | A | (3.1) ^P | 3.0 | S | C | C | C | S | 3.6 ^P | A | A | A | |
| 25 | A | S | (3.1) ^S | F | F _H | 3.3 | (3.2) ^P | 3.7 | (3.3) ^P | (2.9) ^P | 2.6 | 2.6 | 2.8 | (2.7) ^P | (3.0) ^P | (3.2) ^P | 3.2 | 3.0 | 3.0 | 2.9 | 3.2 | 3.1 | 2.8 | 2.8 ^V | |
| 26 | 2.8 | F | (3.2) ^F | 2.9 | 2.8 | (3.4) ^P | 3.7 | 3.6 | 2.9 | (3.0) ^C | 3.1 | 3.3 | 3.1 | 3.0 | 2.9 | 2.9 | (3.1) ^P | (3.3) ^P | 3.2 ^P | 3.0 | 3.0 | 2.8 | (2.7) ^P | 3.0 | |
| 27 | 2.8 | (3.1) ^P | C | C | C | C | 3.3 | 3.6 | C | C | (2.5) ^P | 2.4 | 2.1 | 2.5 | (3.0) ^P | (3.2) ^C | 3.3 | 3.0 | 3.0 | 3.2 | 3.4 | A | A | A | |
| 28 | A _S | 2.7 | A | 2.8 ^S | 3.1 | 3.2 | 3.2 | 3.3 ^P | 3.0 | 3.3 | 3.2 | A | A | 3.0 | 3.0 | 3.2 | 2.9 | 2.8 | 2.9 | 2.9 | 3.1 | 3.0 | 2.8 | 2.7 | |
| 29 | 2.7 | 2.9 | 3.2 | 2.7 | (2.8) ^S | 2.9 | 3.1 | 2.9 | A | A | A | A | C | C | C | 3.0 | 2.9 | 2.8 | 3.0 | 3.0 | (3.1) ^P | 3.0 | 2.8 | 2.7 | |
| 30 | A | A _S | (3.1) ^V | 2.9 | A | A | (3.5) ^P | 3.4 | 3.2 | 3.2 | 3.2 | (3.0) ^C | 2.7 | 2.8 | 3.0 | 2.9 | 2.8 | (2.9) ^P | 3.0 ^P | 3.0 | 3.0 | (3.0) ^P | (3.1) ^P | 2.9 | |
| 31 | (3.0) ^S | 3.1 | 3.6 | 3.0 ^V | 3.0 | 3.0 | (3.3) ^P | 3.3 | 3.3 | 3.6 | 2.9 | A | A | 2.7 | 2.7 ^P | 3.1 | (2.9) ^P | 3.1 | (3.2) ^C | 3.3 | 3.0 | (2.8) ^S | (2.7) ^S | 2.6 | |
| Mean Value | 2.8 | 2.9 | 3.0 | 3.0 | 3.0 | 3.1 | 3.4 | 3.4 | 3.2 | 3.2 | 3.1 | 2.9 | 2.8 | 2.9 | 3.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.2 | 3.2 | 3.0 | 2.9 | 2.9 |
| Median Value | 2.8 | 2.9 | 3.0 | 3.0 | 3.0 | 3.1 | 3.4 | 3.4 | 3.2 | 3.2 | 3.1 | 2.9 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.2 | 3.1 | 3.2 | 3.2 | 3.0 | 2.8 | 2.9 | |
| Count | 15 | 17 | 21 | 2.2 | 2.2 | 2.4 | 2.8 | 2.7 | 2.1 | 1.7 | 1.7 | 1.4 | 1.9 | 2.1 | 2.0 | 2.1 | 2.4 | 2.3 | 2.1 | 1.8 | 2.3 | 1.9 | 2.3 | 1.7 | |

Sweep 1.0 Mc to 22.0 Mc in 2 min

Manual Automatic

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 31° 12.6' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

May. 1952

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 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.9 | 2.4 | 3.0 | 4.3 ^A | 4.9 ^A | 5.5 ^A | 4.2 | C | C | C | 3.0 | 2.2 | 2.5 | [2.1] ^C | 1.7 | 1.6 | 1.6 | 1.6 |
| 2 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 2.0 | 2.6 | 3.0 | 4.0 | 5.0 | 5.2 ^A | 4.2 | 4.2 | 5.8 ^A | 3.1 | 3.0 | 2.2 | 2.1 | 1.6 | 1.5 | A | 4.1 | 4.9 |
| 3 | 1.6 | 1.6 | 1.5 | 2.0 | 1.6 | 1.6 | 2.0 | 2.7 | 3.5 | 5.2 ^A | A | 5.1 ^A | 4.2 | 5.0 ^A | 3.6 | 4.1 | 4.7 ^A | A | A | A | A | M | A | A |
| 4 | A | 2.9 ^A | A | 3.3 ^A | A | 1.2 | A | 4.5 ^A | 4.8 ^A | A | 4.7 ^A | A | 5.1 | 4.7 | 3.9 | 3.8 | 3.4 | A | A | 4.0 ^A | A | 1.9 | 2.8 ^A | A |
| 5 | 1.8 | 2.0 ^A | 1.9 | 1.9 | 2.6 ^A | 1.5 | 1.8 | 2.8 | C | C | 3.5 | 4.4 | 5.0 ^A | 3.9 | 3.8 | 3.8 | A | 4.0 ^A | A | 4.0 ^A | A | A | 1.7 | 1.7 |
| 6 | 1.6 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.9 | 2.5 | 3.0 | 3.3 | 3.9 | 4.0 | 4.7 | [4.1] ^C | 3.5 | 4.5 | 4.2 | 3.0 | A | 5.0 ^A | 3.6 ^A | 2.7 ^A | 1.7 | A |
| 7* | A | 2.8 ^A | 2.0 ^A | 2.0 ^A | 2.8 ^A | 1.7 | 2.1 | 5.0 ^A | 4.2 ^A | 4.1 | 4.5 | 3.8 | - | A | A | 7.8 ^A | 7.0 ^A | 6.3 ^A | 3.6 ^A | 3.0 ^A | A | 2.2 ^A | 2.5 ^A | 2.5 ^A |
| 8 | 1.9 | 2.1 ^A | 2.0 ^A | E | 1.7 | 1.7 | 2.3 | A | A | 3.3 | A | A | A | A | A | 4.8 | 4.0 | A | A | A | A | A | 1.6 | A |
| 9 | 1.6 | 1.8 | 1.6 | 1.7 | 1.6 | 1.3 | 2.0 | 2.6 | A | 3.7 | 5.0 ^A | 3.7 | 4.0 | 4.2 | 3.5 | [3.4] ^C | 3.3 | 2.8 | A | A | 1.7 | 1.6 | A | A |
| 10 | 1.6 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 2.1 | 2.7 | 3.3 | 4.0 ^A | 4.2 ^A | 4.6 ^A | 4.5 ^A | 4.8 ^A | 5.5 ^A | 6.7 | 6.7 ^A | A | C | 6.8 ^A | 2.8 ^A | A | A |
| 11 | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 | 1.8 | 2.2 | 4.0 | 4.7 ^A | 3.5 | 4.1 ^A | A | 4.5 | 4.2 | 5.7 | 5.1 | 3.5 | 3.3 | 3.5 | 2.5 ^A | A | A | 2.9 ^A | 2.8 ^A |
| 12 | 1.9 ^F | A | 1.7 | 1.6 | 2.0 ^F | 1.7 | [2.2] ^C | 2.6 | 4.9 ^A | 5.0 ^A | 4.6 ^A | 4.6 ^A | 5.0 ^A | 5.5 ^A | 9.8 ^A | 5.3 | 4.1 | 2.9 | 2.5 | 2.7 ^A | 2.6 ^A | 1.8 | 1.7 | 1.7 |
| 13 | 1.6 | 1.7 ^F | 1.6 | 1.6 | 1.6 | 1.6 | 2.0 | 4.0 ^A | 4.5 ^A | A | A | 6.5 | A | 5.7 | 6.5 | A | 3.5 | 2.7 | 3.0 ^A | 1.7 | A | 1.7 | 1.7 | 1.6 |
| 14 | 1.6 | A | 2.7 ^A | 1.6 | 1.7 | 1.3 | 2.4 | 2.6 | 3.0 | 3.5 | 3.6 | 4.2 | 5.5 | 4.0 | A | 5.7 ^A | 3.3 | 3.3 | 2.8 | A | C | C | 1.5 | 2.2 ^A |
| 15 | 1.4 | 1.7 | 1.3 | 1.6 | E | 1.6 | 2.3 | A | C | A | A | A | A | C | 3.4 | 3.0 | 4.0 ^A | 4.7 ^A | 4.3 ^A | A | 1.5 | 4.2 ^A | A | 1.6 |
| 16 | A | 1.5 | 1.6 | 1.0 | 1.0 | 1.6 | 2.3 | 2.7 | 5.6 | 4.0 | 4.7 ^A | A | 5.6 ^A | A | A | 5.6 | 4.0 ^A | 7.4 ^A | A | A | A | A | A | 2.6 ^A |
| 17 | 1.6 | A | A | A | 1.3 | 2.0 | A | A | 6.9 ^A | A | A | A | 4.7 | 5.5 | A | A | A | 7.4 ^A | A | A | A | A | A | A |
| 18 | A | A | A | A | 1.3 | A | 3.2 ^A | 2.8 | 4.8 ^A | 4.8 ^A | A | A | 4.7 | 5.0 | 6.5 | 4.2 | 4.7 | 6.6 ^A | 5.5 | 6.5 ^A | A | 2.8 ^A | A | 1.8 |
| 19 | 2.2 ^A | 1.4 | 1.3 | 1.4 ^F | 1.3 ^F | E | 2.4 | 2.5 | 3.0 | 4.0 ^A | 4.4 ^A | 5.5 | 5.5 | 5.6 ^A | 5.7 ^A | 6.5 | 3.0 | 4.9 ^A | 4.5 ^A | 3.9 ^A | A | 3.1 ^A | 4.3 ^A | A |
| 20 | A | 1.6 ^F | 1.7 | 1.7 | 1.7 | 1.6 | 2.2 | 2.2 | 4.5 ^A | A | A | A | A | A | A | A | A | 4.9 ^A | A | A | 2.8 ^A | 2.1 ^A | 1.6 | 1.7 |
| 21 | 1.7 | 1.6 | 1.7 | 1.3 | 1.6 | 1.3 | 2.0 | A | A | C | C | 4.0 | 4.1 | 4.2 | 5.7 | A | 3.4 | 2.8 | 4.2 ^A | A | A | 2.0 ^A | 1.9 ^F | A |
| 22 | A | A | 1.8 | 1.6 | 1.8 | 1.6 | 1.9 | 2.5 | A | A | A | A | 5.6 ^A | A | 5.9 | 3.1 | 4.3 | 6.0 ^A | 4.3 ^A | A | A | A | A | A |
| 23 | A | A | A | A | 2.7 ^A | 1.6 | 2.3 | 5.0 | A | A | A | A | 6.5 | 5.6 | 5.6 | 3.4 | 4.2 | 4.0 | 6.5 | A | A | 1.6 | 1.6 ^F | A |
| 24 | 2.0 ^A | A | 1.8 | 1.6 ^F | 1.3 | 1.6 | A | A | A | C | A | 5.6 ^A | 5.8 ^A | 5.6 ^A | 6.5 ^A | 5.7 ^A | 5.5 ^A | 3.8 ^A | 6.3 ^A | 6.4 ^A | 5.5 ^A | A | A | A |
| 25 | A | 1.9 | 3.0 | A | A | 1.3 | 2.2 | 2.6 | 4.5 ^A | 4.7 ^A | 4.1 ^A | 5.9 ^A | 5.8 ^A | 5.8 ^A | 4.2 | 3.2 | 2.8 | 2.8 | 4.5 ^A | 2.6 ^A | 1.6 | 2.0 ^A | 2.4 ^A | A |
| 26 | 5.6 ^A | 1.7 | 4.2 ^A | A | A | 1.6 | 2.2 | 2.7 | 3.3 | [4.4] ^C | 5.6 | 5.5 ^A | 5.5 ^A | 5.6 | 3.5 | 4.0 | 3.1 | 3.1 | 2.4 | 1.6 | 5.7 ^A | 1.8 | 1.6 | 1.9 |
| 27 | 1.6 | 1.5 | 2.0 ^A | 1.3 | C | C | 2.1 | 2.8 | [3.6] ^C | 4.3 ^A | 3.7 | 3.5 | 4.0 | 5.7 ^A | 5.7 | 3.7 | 3.4 | 2.7 | 2.6 | 3.0 ^A | 2.0 ^A | A | A | A |
| 28 | 3.0 ^A | A | A | A | 2.2 ^A | A | 3.4 | 3.3 | 4.2 ^A | 5.0 ^A | 4.1 | A | 4.2 | 5.5 | 3.5 | 3.2 | 3.8 | 5.5 ^A | 5.6 ^A | 5.6 ^A | 2.7 ^A | 2.2 ^A | 2.3 ^A | 1.6 |
| 29 | 1.6 | 1.5 | 2.2 ^A | 1.5 | 1.6 | 1.6 | 1.9 | 4.7 | A | A | A | A | A | C | C | 6.4 ^A | 4.2 ^A | 3.1 | 2.9 | 2.0 | 1.6 | 1.5 | 1.6 | 2.7 ^A |
| 30 | A | A | A | A | A | A | M | 2.7 | A | 3.7 | 3.5 | 4.0 | 4.3 | 4.1 | 4.0 | 3.4 | 5.6 ^A | 2.8 | 3.5 ^A | 2.5 | 6.0 | 5.6 | 6.5 ^A | 2.8 ^A |
| 31 | 2.0 ^A | 2.5 ^A | A | A | 1.6 | 1.8 | 2.0 | 2.7 | 3.0 | 5.5 ^A | 4.3 | A | A | 4.2 | 4.4 ^A | 4.2 ^A | 6.5 ^A | 6.3 ^A | 7.2 ^A | A | 5.5 | 2.1 ^A | A | A |
| Mean Value | 1.9 | 1.8 | 1.9 | 1.7 | 1.7 | 1.6 | 2.2 | 3.1 | 4.1 | 4.2 | 4.4 | 4.7 | 4.8 | 4.9 | 5.0 | 4.5 | 4.2 | 4.1 | 4.0 | 3.3 | 3.2 | 2.5 | 2.5 | 2.2 |
| Median Value | 1.6 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 2.1 | 2.7 | 4.2 | 4.0 | 4.4 | 4.5 | 4.7 | 5.0 | 4.8 | 4.2 | 4.0 | 3.3 | 3.6 | 2.6 | 2.6 | 2.1 | 1.8 | 1.8 |
| Count | 22 | 22 | 24 | 24 | 25 | 27 | 28 | 26 | 21 | 20 | 19 | 18 | 23 | 23 | 23 | 26 | 27 | 27 | 28 | 22 | 18 | 21 | 20 | 1.7 |

Manual Automatic

Sweep 1.0 Mc to 2.0 Mc in 2 min

fminF

Y 10

The Central Radio Wave Observatory
Koganei-machi, Kitatama-gun, Tokyo, Japan

Lat. 35° 12.5' N
Long. 130° 37.7' E

Yamagawa

IONOSPHERIC DATA

135° E Mean Time

f_{min}E

May, 1952

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

1.0 Mc to 22.0 Mc in 2 min

Manual Automatic

Y 11

IONOSPHERIC DATA IN JAPAN FOR MAY 1952

電波觀測報告 第4卷 第5号

1952年6月25日 印刷
1952年6月30日 發行

(不許複製非売品)

編 集 兼
者 行 人

菅 野 菊 雄
東京都北多摩郡小金井町小金井新田一之久保573

發 行 所

電波監理委員会 中央電波觀測所
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