

ION.ANT.— 24

IONOSPHERIC DATA AT SYOWA STATION (ANTARCTICA)

January 1975—June 1975

CONTENTS

| | Page |
|---|------|
| Introduction | 1 |
| Location of Syowa Station | 1 |
| Specifications of the Ionosonde used at Syowa Station | 1 |
| Symbols and Terminology | 1 |
| Ionospheric Data | 5 |
| Graph of Monthly Median Values | 5 |
| Tables of Hourly Values | 9 |
| <i>f</i> -plots (Regular World Days) | 75 |

RADIO RESEARCH LABORATORIES
MINISTRY OF POSTS AND TELECOMMUNICATIONS
TOKYO, JAPAN



INTRODUCTION

Vertical soundings of ionosphere at Syowa Station, Antarctica, have been carried out by the Radio Research Laboratories through the sponsorship of the National Institute of Polar Research of Japan.

LOCATION OF SYOWA STATION

| Geographic | | Geomagnetic | |
|-------------|-------------|-------------|-----------|
| Latitude | Longitude | Latitude | Longitude |
| 69° 00.4' S | 39° 35.4' E | 69.8° S | 78.2° E |

SPECIFICATIONS OF THE IONOSONDE USED AT SYOWA STATION

| Items | Specifications |
|--|--|
| Frequency Range | 500 kHz–15 MHz |
| Transmitting Power | 10 kW (peak value) |
| Duration of Sweep | 30 sec |
| Transmitted Pulse Width | 100 μ sec |
| Recurrence Frequency of Transmitted Pulse | 50 Hz (by power source frequency) |
| Frequency Scale | every 1 MHz |
| Height Range | 900 km |
| Height Scale | every 50 km |
| Total Receiver Gain | 120 dB |
| Recording Method | 35 mm film and video fax for ionograms |
| Power Supply | 100 volt AC, 2.5 kVA |
| Transmitting Antenna and Receiving Antenna | 30 m height vertical delta terminated by 600 Ω respectively |

SYMBOLS AND TERMINOLOGY

All symbols and terminology in the tables or figures of ionospheric data are used in accordance with the "URSI Handbook of Ionogram Interpretation and Reduction (Second Edition 1972)".

a. Characteristics of Ionosphere

| | |
|---------------|--|
| f_{xI} | Top frequency of spread F trace |
| f_oF2 | Ordinary wave critical frequency for the $F2$, $F1$, E and Es including particle E layers respectively |
| f_oF1 | |
| f_oE | |
| f_oEs | |
| f_{min} | Lowest frequency which shows vertical ionospheric reflections |
| $M(3000)F2$ | Maximum usable frequency factor for a path of 3000 km for transmission by $F2$ layer. |
| $h'F2$ | Minimum virtual height on the ordinary wave for the $F2$, whole F and Es layers respectively. |
| $h'F$ | |
| $h'Es$ | |
| Types of Es | See below b. (iii) |

b. Symbols

(i) Descriptive Letters.

The following letters are entered after, or used to replace, a numerical value on the monthly tabulation sheets.

| | |
|---|---|
| A | Measurement influenced by, or impossible because of, the presence of a lower thin layer, for example, <i>Es</i> . |
| B | Measurement influenced by, or impossible because of, absorption in the vicinity of <i>f_{min}</i> . |
| C | Measurement influenced by, or impossible because of, any non-ionospheric reason. |
| D | Measurement influenced by, or impossible because of, the upper limit of the normal frequency range. |
| E | Measurement influenced by, or impossible because of, the lower limit of the normal frequency range. |
| F | Measurement influenced by, or impossible because of, the presence of spread echoes. |
| G | Measurement influenced or impossible because the ionization density of the layer is too small to enable it to be made accurately. |
| H | Measurement influenced by, or impossible because of, the presence of stratification. |
| K | Presence of particle <i>E</i> layer. |
| L | Measurement influenced by or impossible because the trace has no sufficiently definite cusp between layers. |
| M | Interpretation of measurement questionable because the ordinary and extraordinary components are not distinguishable. |
| N | Conditions are such that the measurement cannot be interpreted. |
| O | Measurement refers to the ordinary component. |
| P | Man-made perturbation of parameters—Presence of polar spur traces. |
| Q | Range spread present. |
| R | Measurement influenced by, or impossible because of, attenuation in the vicinity of a critical frequency. |
| S | Measurement influenced by, or impossible because of, interference or atmospheric. |
| T | Value determined by a sequence of observations, the actual observation being inconsistent or doubtful. |
| V | Forked trace which may influence the measurement. |
| W | Measurement influenced or impossible because the echo lies outside the height range recorded. |
| X | Measurement refers to the extraordinary component. |
| Y | Lacuna phenomena, severe layer tilt. |
| Z | Third magneto-electronic component present. |

(ii) Qualifying Letters

The following letters are entered in the first column before a numerical value on the monthly tabulation sheets.

| | |
|---|--|
| A | Less than. Used only when <i>f_bEs</i> is deduced from <i>f_oEs</i> because total blanketing of higher layer is present. |
| D | Greater than. |
| E | Less than. |
| I | Missing value has been replaced by an interpolated value. |
| J | Ordinary component characteristic deduced from the extraordinary component. |

| | |
|---|--|
| M | Mode interpretation uncertain. |
| O | Extraordinary component characteristic deduced from the ordinary component. |
| T | Value determined by a sequence of observations, the actual observation being inconsistent or doubtful. |
| U | Uncertain or doubtful numerical value. |
| Z | Measurement deduced from the third magneto-electronic component. |

(iii) Description of Type of *Es*

When more than one type of *Es* trace is present on the ionogram, the type for the trace used to determine f_oEs must be written first. The number of multiple traces is indicated after the type letter.

The types are:

| | |
|---|---|
| f | An <i>Es</i> trace which shows no appreciable increase of height with frequency. |
| l | A flat <i>Es</i> trace at or below normal <i>E</i> layer minimum virtual height or below the particle <i>E</i> layer minimum virtual height. |
| c | An <i>Es</i> trace showing a relatively symmetrical cusp at or below f_oE . |
| h | An <i>Es</i> trace showing a discontinuity in height with the normal <i>E</i> layer trace at or above f_oE . The cusp is not symmetrical, the lower frequency end of the <i>Es</i> trace lying clearly above the high frequency end of the normal <i>E</i> trace. |
| q | An <i>Es</i> trace which is diffuse and non-blaketing over a wide frequency range. |
| r | An <i>Es</i> trace showing an increase in virtual height at the high frequency end similar to group retardation. |
| a | An <i>Es</i> trace having a well-defined fiat or gradually rising lower edge with stratified and diffuse traces present above it. |
| s | A diffuse <i>Es</i> trace which rises steadily with frequency and usually emerges from another type <i>Es</i> trace. |
| d | A weak diffuse trace at heights below 95 km associated with high absorption and large f_{min} . |
| n | The designation 'n' is used to denote an <i>Es</i> trace which cannot be classified into one of the standard types. |
| k | The designation k is used to show the presence of particle <i>E</i> . When $f_oEs > f_oE$ (particle <i>E</i>) the <i>Es</i> type precedes k. |

c. Definitions of the CNT, MED, UQ and LQ.

Median count (CNT) is the number of values from which a median has been computed. In addition to numerical values, the count may include certain descriptive letters.

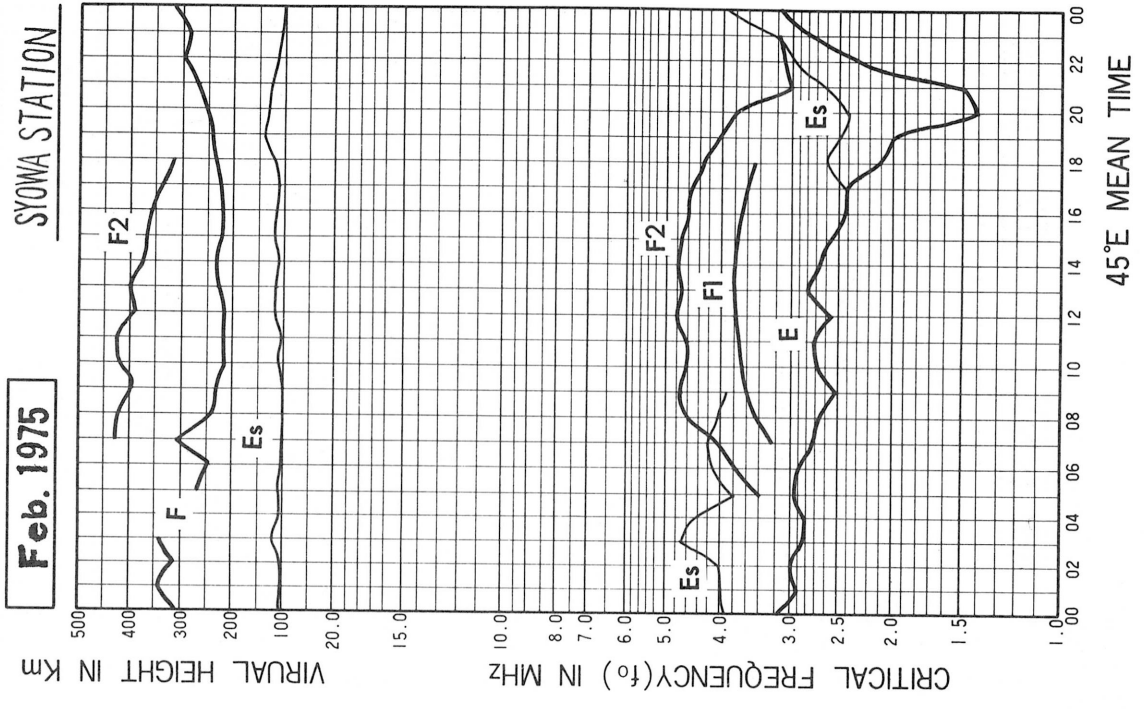
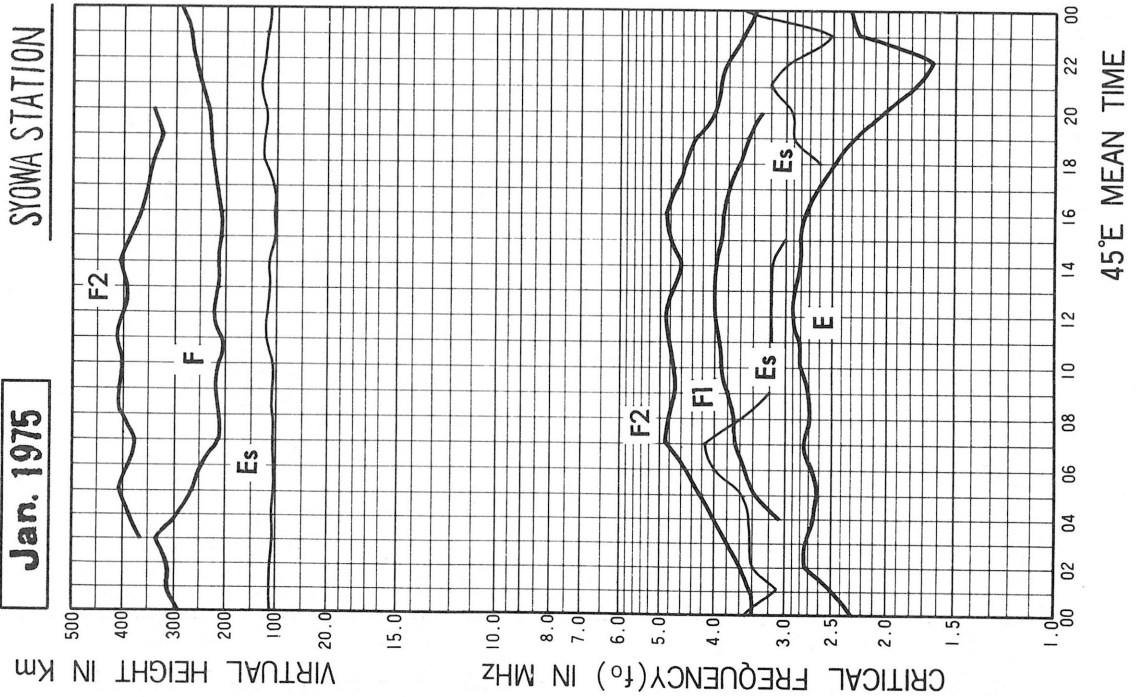
Median (MED) of a set of numbers is the middle value when the numbers are arranged in order of magnitude, or the average of the two middle values if there is an even number of values.

Upper quartile (UQ) is the median value the upper half of the values when they are ranked according to magnitude; the lower quartile (LQ) is the median value of the lower half.

d. *f*-plot.

f-plots of ionospheric data are illustrated only the periods of the Regular World Days of every month.

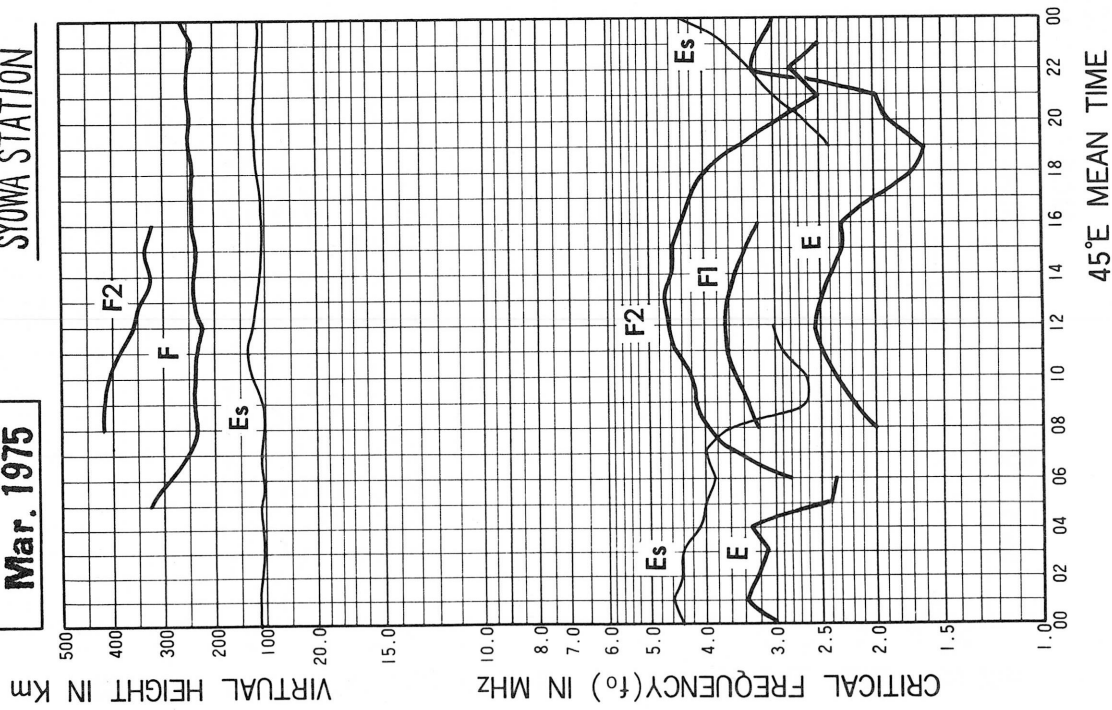
IONOSPHERIC DATA
MONTHLY MEDIAN CHARACTERISTICS



IONOSPHERIC DATA
MONTHLY MEDIAN CHARACTERISTICS

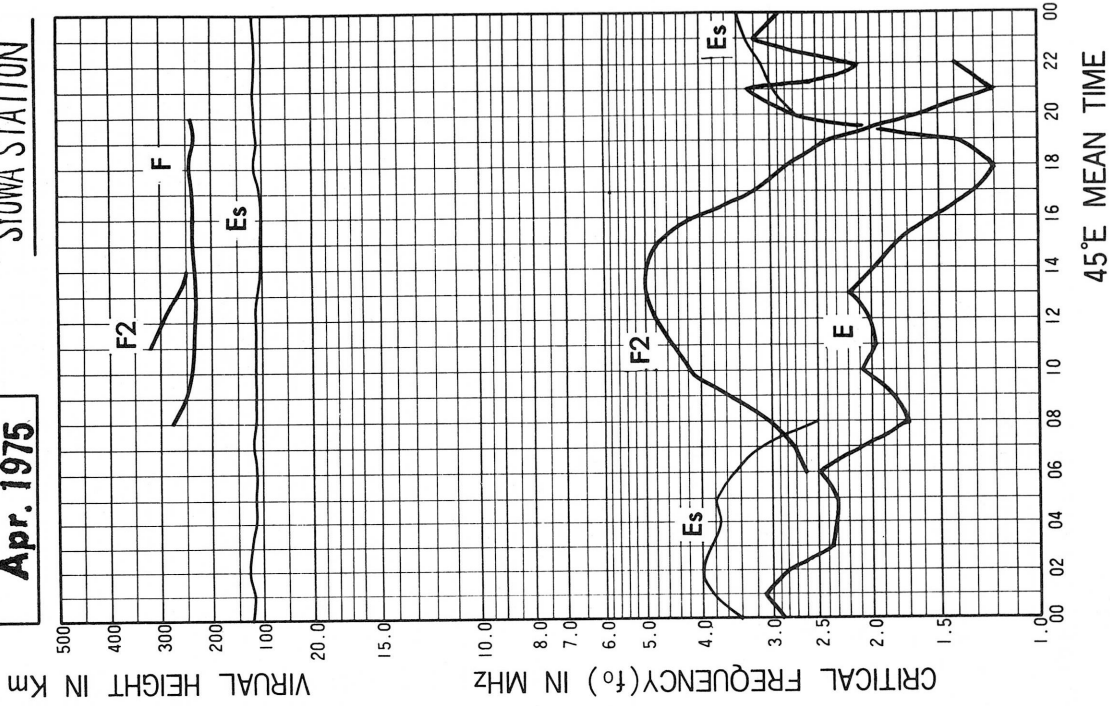
Mar. 1975

SYOWA STATION



Apr. 1975

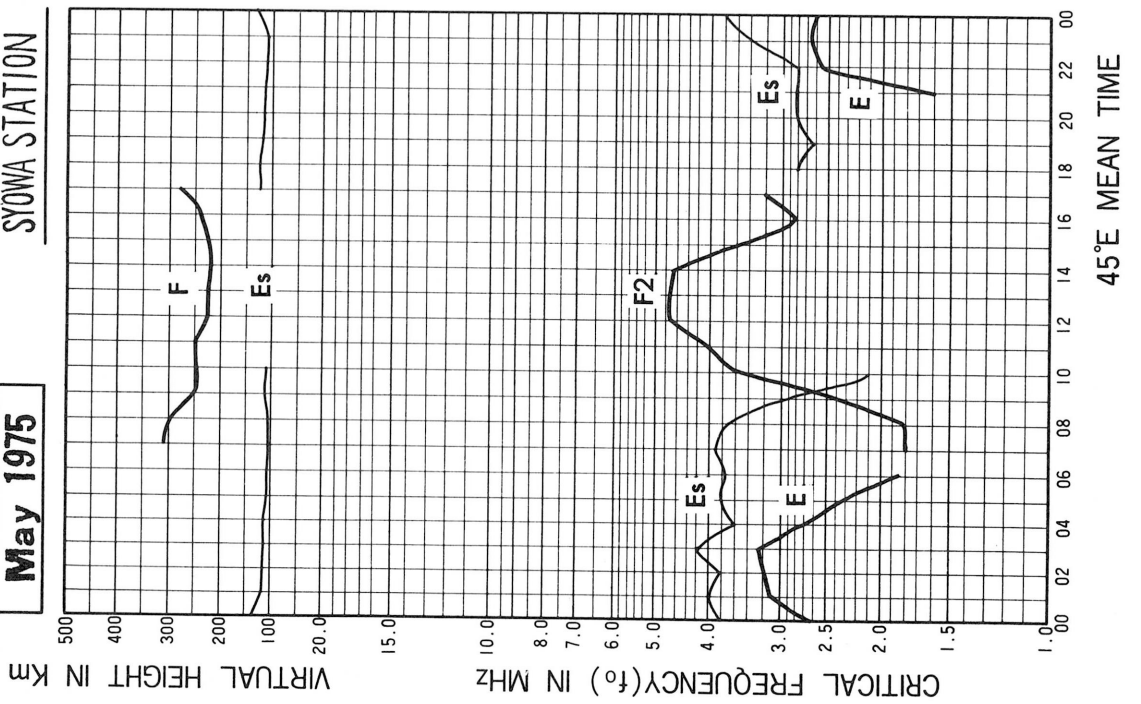
SYOWA STATION



IONOSPHERIC DATA
MONTHLY MEDIAN CHARACTERISTICS

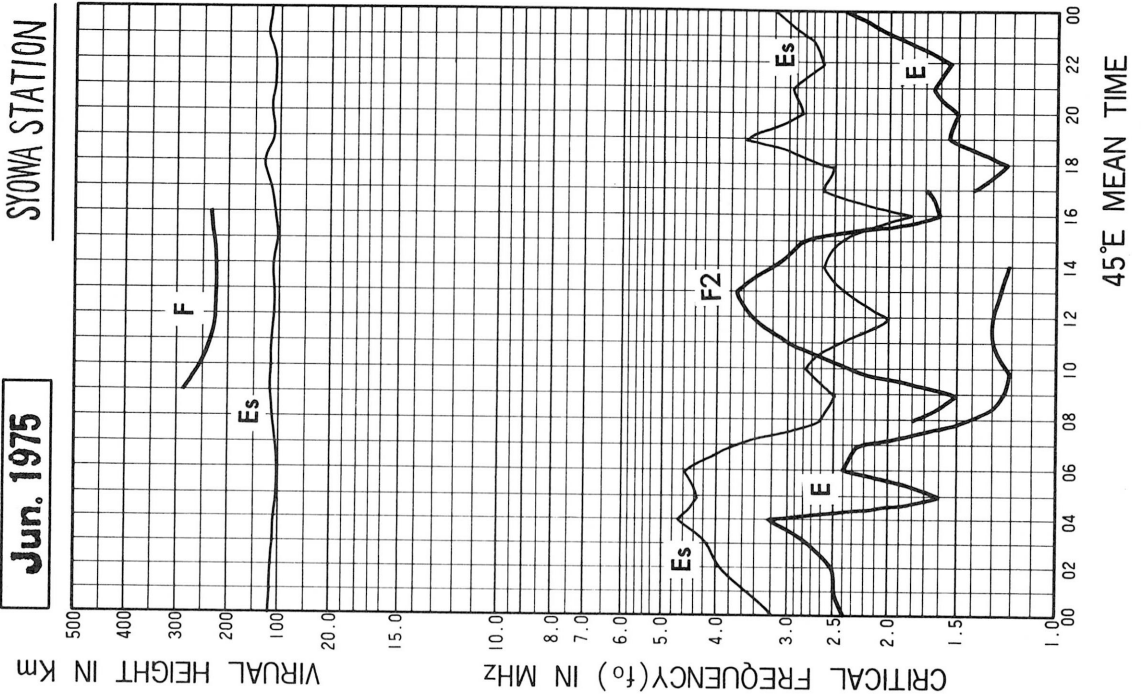
May 1975

SYOWA STATION



Jun. 1975

SYOWA STATION



45°E MEAN TIME

45°E MEAN TIME

IONOSPHERIC DATA

JAN. 1975

FXI (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69 00.4 S, Long. 39 35.4 E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | 49 | 56 | A | 50 | A | 52 | A | R | 50 | 52 | X | 51 | O R | O R | X | X | X | X | X | X | X | X | 42 |
| 2 | X | X | X | R | O R | A | R | 58 | 62 | 67 | 68 | 62 | 57 | X | X | X | X | X | X | X | X | X | X | 37 |
| 3 | R | X | S | X | O S | X | 72 | 76 | 75 | 70 | X | X | X | X | 70 | 71 | X | X | 65 | 56 | 51 | 48 | 44 | S |
| 4 | R | 46 | 60 | 60 | A | A | A | A | A | X | R | 49 | B | X | 57 | B | O R | R | R | R | 43 | R | A | A |
| 5 | 42 | A | A | R | 45 | A | B | B | R | R | B | B | B | B | B | 64 | B | R | R | R | X | O R | 51 | 47 |
| 6 | B | A | 43 | B | B | B | R | O R | B | X | X | O R | 59 | 59 | 60 | X | B | B | X | B | X | B | 45 | A |
| 7 | A | 56 | A | 40 | B | R | R | A | 46 | R | R | B | B | B | O R | O R | 57 | B | A | 52 | 42 | O R | 50 | 50 |
| 8 | X | X | 47 | 47 | 50 | 51 | A | A | B | A | 50 | B | B | B | 52 | 56 | R | O R | O R | A | A | 57 | 50 | A |
| 9 | O R | A | O R | O R | 54 | 55 | 55 | 53 | 53 | R | 57 | O R | 57 | 57 | X | 58 | 57 | X | O R | 51 | X | X | 43 | X |
| 10 | 43 | 41 | X | S | 54 | 60 | 70 | 64 | 58 | 56 | 59 | X | X | X | O R | X | O R | X | R | X | 51 | 55 | X | S |
| 11 | X | S | S | S | 45 | 50 | 58 | 64 | 66 | 70 | 62 | 60 | X | X | X | X | X | X | X | 52 | 56 | 58 | X | X |
| 12 | X | X | X | 50 | 56 | 57 | 60 | 65 | 71 | 70 | 65 | 66 | 60 | X | X | X | 54 | X | 51 | 52 | X | 55 | 55 | 52 |
| 13 | 46 | R | S | S | 67 | B | A | R | 75 | A | O R | X | R | B | O R | B | 53 | R | O R | O R | 47 | A | R | A |
| 14 | A | 40 | A | B | A | 42 | B | B | R | A | O R | B | B | B | O R | O R | B | R | R | R | R | 41 | A | B |
| 15 | A | R | X | R | R | R | 52 | R | R | R | O R | O R | O R | R | X | X | 60 | 51 | X | O R | 45 | 41 | O R | S |
| 16 | 45 | A | 41 | A | R | O R | R | R | O R | O R | 50 | 49 | O R | O R | O R | O R | O R | O R | R | 48 | R | O R | A | |
| 17 | A | B | B | A | A | O R | R | 51 | B | B | O R | R | B | B | B | R | B | R | O R | R | X | 42 | X | B |
| 18 | B | A | A | B | R | B | A | A | B | B | R | O R | O R | B | B | B | B | O R | B | B | 46 | 46 | 39 | A |
| 19 | A | B | A | B | B | B | B | R | A | R | R | R | O R | O R | O R | B | R | O R | O R | 50 | 51 | O R | 40 | 35 |
| 20 | 40 | 42 | B | O R | B | B | O R | R | B | O R | O R | O R | O R | O R | O R | O R | X | X | X | X | X | 40 | O R | A |
| 21 | B | A | A | A | 40 | A | A | 52 | 51 | 50 | 48 | 51 | O R | O R | O R | O R | X | X | X | O R | X | 41 | 43 | 41 |
| 22 | X | O R | O R | 45 | S | 54 | 54 | 53 | 57 | 58 | C | X | X | X | O R | X | X | X | X | 52 | 47 | 34 | A | X |
| 23 | X | A | R | O R | 46 | O R | R | A | 48 | 54 | 52 | 52 | O R | X | X | X | X | X | X | 44 | 45 | R | R | A |
| 24 | A | A | 36 | O R | B | 45 | R | A | O R | R | 49 | 50 | 49 | 50 | 52 | 52 | X | 51 | 47 | 45 | 42 | 37 | 38 | 38 |
| 25 | 40 | 38 | 40 | U S | 45 | 47 | 53 | 59 | 58 | 59 | 58 | 53 | 55 | X | X | X | X | X | X | X | 43 | X | X | 40 |
| 26 | R | 40 | 41 | 45 | 56 | O R | 52 | 55 | 57 | 57 | 57 | 55 | 56 | X | X | X | 58 | 55 | 54 | 49 | 49 | 47 | 48 | 46 |
| 27 | R | R | O R | O R | S | 53 | R | 68 | 64 | 71 | 60 | 61 | 61 | X | B | B | B | 58 | 43 | O R | 57 | 41 | A | A |
| 28 | A | 40 | A | 39 | A | B | A | A | A | O R | 47 | 50 | B | B | O R | O R | O R | O R | O R | O R | 43 | 45 | 39 | O R |
| 29 | U S | O R | A | B | A | 46 | B | R | 56 | 65 | 59 | 53 | 51 | 55 | X | X | X | X | 60 | 53 | O R | 49 | 47 | S |
| 30 | O R | 35 | 47 | R | A | X | O R | 57 | 59 | 61 | 60 | 59 | 60 | 60 | 59 | 60 | 61 | 55 | X | O R | 50 | X | 46 | D S |
| 31 | R | A | A | O R | 45 | R | 58 | 60 | 60 | 66 | 58 | 56 | X | X | X | 57 | 59 | 61 | X | R | 37 | R | 37 | A |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| CNT | 16 | 17 | 17 | 18 | 16 | 17 | 14 | 15 | 19 | 21 | 25 | 25 | 23 | 22 | 27 | 25 | 23 | 24 | 25 | 22 | 29 | 25 | 24 | 19 |
| MED | 42 | 42 | 43 | 46 | 50 | 47 | 54 | 58 | 57 | 57 | 57 | 53 | 55 | X | 52 | 54 | 55 | X | X | 51 | 48 | 46 | 44 | 44 |
| UQ | 46 | 47 | 47 | 50 | 55 | 54 | 58 | 64 | 63 | 66 | 60 | 59 | 60 | X | X | 58 | 58 | X | X | X | X | X | 50 | 48 |
| LQ | 40 | 40 | 40 | 43 | 45 | 45 | 52 | 53 | 52 | 50 | 50 | 50 | O R | X | O R | X | X | 50 | X | 49 | 46 | 45 | 41 | 40 |

JAN. 1975

FXI (0.1 MHz)

IONOSPHERIC DATA

JAN. 1975

FOF2 (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | F | F | A | F | A | F | A | A | F | F | 48 | 44 | 42 | E G 40 | 47 | 48 | 49 | 46 | 44 | 43 | 40 | 39 | F 36 | |
| 2 | V 32 | J 41 | S 44 | J 44 | R | 41 | A | R | F 49 | 52 | 59 | U 57 | 55 | 50 | 48 | 50 | 48 | 47 | 48 | 48 | 48 | 46 | 45 | 39 | F 29 |
| 3 | 38 | 36 | S | 47 | U 55 | J 61 | J 65 | U 68 | F 68 | F 63 | 61 | 56 | 56 | 60 | F 63 | F 64 | 57 | 56 | U 54 | F 49 | F 42 | F 40 | F 36 | U 39 | |
| 4 | R | U 38 | F | F | A | A | A | A | A | E G 42 | R | F 43 | B | 42 | F 49 | B | U 53 | R | R | R | U 34 | R | A | A | |
| 5 | F | A | A | R | F 36 | A | B | B | R | R | B | B | B | B | B | F 57 | B | B | R | A | 40 | 40 | F | F 41 | |
| 6 | B | A | U 36 | B | B | B | R | 44 | B | 46 | 55 | 50 | 52 | 53 | 54 | 62 | B | B | F | B | 41 | B | F 39 | A | |
| 7 | A | F | A | F | B | A | R | A | F | A | R | B | B | B | E G 38 | 43 | 50 | R | A | F 45 | F 36 | 39 | F 42 | F 43 | |
| 8 | 40 | 41 | F 40 | F 40 | F 42 | F 42 | A | A | B | A | F | B | B | B | F 45 | F 48 | R | F 37 | E 35 | A | A | F | F | A | |
| 9 | U 38 | A | U 36 | U 37 | F | F | F | F | F | F 46 | F 46 | U 49 | U 47 | U 50 | F 50 | F 50 | F 50 | F 50 | 46 | 45 | 46 | 43 | F 37 | 36 | |
| 10 | F 36 | Z 34 | 34 | U 38 | F 48 | U 52 | U 47 | F 48 | F 49 | 53 | F 56 | 61 | 64 | 63 | 51 | 50 | F 48 | R | 43 | F 45 | 49 | 49 | S 48 | | |
| 11 | 46 | 40 | 38 | 45 | F 38 | F | 51 | F 56 | F | F 62 | F 55 | 54 | 55 | 55 | 58 | 54 | 52 | 47 | 47 | 46 | F 48 | 51 | 49 | 46 | |
| 12 | V 48 | 49 | 48 | F 40 | F 42 | U 43 | F 50 | F 55 | U 59 | U 60 | U 55 | U 57 | 52 | 54 | 53 | 52 | F 48 | Z 45 | F 45 | F 45 | 48 | F 48 | F 45 | V 42 | |
| 13 | F 30 | R | F | F | U 40 | B | A | A | A | A | F 43 | E G 40 | B | B | F 45 | B | U 47 | R | E 35 | E 35 | F 40 | A | R | A | |
| 14 | A | F | A | B | A | F | B | B | R | A | E G 39 | B | B | B | E G 39 | 42 | B | R | R | A | A | U 35 | A | B | |
| 15 | A | R | F 31 | A | R | A | F | A | R | R | E G 38 | E 38 | E 40 | R | 43 | 45 | F 44 | F 44 | 45 | 42 | F 37 | U 33 | U 47 | 43 | |
| 16 | F | A | F | A | R | U 39 | R | R | U 44 | 44 | F 43 | U 43 | U 42 | 45 | 46 | 45 | 49 | 40 | E G 32 | R | U 34 | R | 37 | A | |
| 17 | A | B | B | A | A | F | J 35 | F | B | B | E G 38 | R | B | B | B | R | B | B | F 42 | R | 46 | F 36 | 32 | B | |
| 18 | B | A | A | B | R | B | A | A | B | B | R | E G 39 | E 39 | B | B | B | B | 45 | B | B | F 38 | F 39 | F 31 | A | |
| 19 | A | B | A | B | B | B | B | A | A | R | R | B | U 42 | U 42 | U 44 | B | B | B | 48 | 47 | F 45 | 44 | F 41 | U 34 | F 29 |
| 20 | F 32 | F | B | 42 | B | B | F 41 | R | B | F 42 | U 44 | 45 | 43 | 43 | E G 40 | E 40 | 46 | 44 | 47 | 48 | 44 | F 31 | 27 | A | |
| 21 | B | A | A | A | F | A | A | F 43 | F 43 | F 43 | F 42 | 45 | 46 | E G 41 | 43 | 44 | 45 | 44 | 45 | 40 | F 40 | F 34 | F 27 | F 32 | |
| 22 | F 30 | U 32 | F 35 | U 37 | F 42 | F 45 | F 46 | F 50 | 52 | I 50 | 50 | 50 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 46 | F 40 | U 26 | A | 33 | |
| 23 | 35 | A | A | U 32 | F | F | A | A | F 42 | F 48 | 46 | 46 | 46 | 46 | 46 | 45 | 45 | 44 | 42 | 35 | U 36 | R | R | A | |
| 24 | A | A | F | U 34 | B | F | R | A | E G 37 | R | F 42 | F 42 | F 42 | 44 | F 46 | 46 | 50 | 44 | 41 | F 38 | 36 | F 29 | F 31 | F 30 | |
| 25 | U 28 | U 29 | F 31 | F 34 | U 36 | F | U 44 | U 49 | F 47 | F 49 | F 50 | 48 | 49 | 47 | 46 | 44 | 45 | 43 | 44 | 45 | F 37 | 32 | 36 | F 31 | |
| 26 | A | U 26 | U 35 | F | F | U 40 | 44 | 49 | 48 | 47 | 50 | 49 | 50 | 50 | 51 | 51 | F 49 | F 48 | 42 | 42 | 41 | 42 | 40 | F 40 | |
| 27 | R | R | U 33 | 37 | S | U 45 | R | U 53 | 52 | F 47 | U 47 | U 50 | 53 | 53 | B | B | B | U 49 | E 36 | U 46 | F | F 31 | A | A | |
| 28 | A | F 32 | A | F 32 | A | B | A | A | A | 38 | 41 | 44 | B | B | 41 | 44 | 43 | 45 | 44 | 38 | F 36 | U 36 | F | U 27 | |
| 29 | F 25 | F 29 | A | B | A | F | B | A | U 42 | F 47 | U 46 | U 46 | 45 | 49 | 50 | 52 | 52 | 50 | U 46 | 40 | F 42 | F 37 | S | F | |
| 30 | U 28 | F 28 | F | R | A | R | E 35 | F 47 | F 47 | F 51 | U 51 | F 51 | F 52 | F 53 | F 52 | F 53 | U 51 | F 48 | 47 | F 46 | F 42 | 45 | 39 | F | |
| 31 | R | A | A | U 38 | F 38 | R | U 50 | F 49 | U 49 | F 52 | F 50 | 50 | 47 | 49 | 48 | 50 | F 52 | F | 48 | R | F 30 | A | F | A | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | 14 | 13 | 12 | 14 | 9 | 9 | 11 | 13 | 10 | 21 | 25 | 25 | 23 | 22 | 27 | 25 | 23 | 23 | 25 | 22 | 28 | 24 | 20 | 17 | |
| MED | 34 | 34 | 36 | 38 | 40 | U 42 | 45 | 49 | 48 | 47 | F 47 | 48 | 49 | 48 | 46 | 48 | 49 | 47 | 45 | 44 | F 40 | F 39 | 38 | 36 | |
| UQ | 38 | 40 | 39 | 40 | F 42 | U 45 | 50 | 53 | F 51 | F 52 | F 51 | 50 | F 52 | 53 | 50 | F 52 | 50 | 48 | 47 | F 46 | 44 | 42 | 41 | 42 | |
| LQ | F 30 | F 29 | F 33 | U 34 | F 38 | U 40 | F 42 | F 47 | F 44 | F 44 | F 43 | 44 | 44 | 44 | 44 | 45 | 46 | 44 | 42 | 40 | F 36 | F 34 | 33 | F 31 | |

The Radio Research Laboratories, Japan

JAN. 1975

FOF2 (0.1 MHz)

IONOSPHERIC DATA

JAN. 1975

FOF1 (0.01 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | F | A | A | 380 | 400 | 390 | 400 | 400 ^H | 400 | 390 | 400 | 400 | 380 | L | L | | | | |
| 2 | | | | | | A | A | F | F | 390 | 390 | 400 | 410 | 410 | 420 | 400 | 410 | 400 | 390 | U | 380 | 360 | L | L | |
| 3 | | | | A | 320 | U | F | F | 370 | 380 | 400 | 400 | 410 | A | 410 | 410 | 410 | 420 | H | 380 | L | | | | |
| 4 | | | | | | A | A | A | A | 420 | R | 380 | B | 400 | 400 | B | U | F | F | 350 | F | A | | | |
| 5 | | | | | | A | B | B | A | A | B | B | B | B | B | 390 | B | R | F | A | 330 | | | | |
| 6 | | | | | | B | A | A | B | 380 | 400 | 410 | 410 | 410 | 400 | 400 | B | B | 380 | B | L | | | | |
| 7 | | | | | | A | A | A | U | F | A | A | B | B | B | 380 | 380 | U | F | B | A | L | | | |
| 8 | 250 | 270 | | L | A | 330 | A | A | B | A | 370 | B | B | B | 390 | 380 | 380 | 370 | 350 | A | A | | | | |
| 9 | | | | | | F | U | F | U | F | 380 | 390 | 390 | 400 | 400 | 400 | 410 | F | F | 390 | F | U | L | L | |
| 10 | | | 280 | 300 | F | F | F | 350 | 380 | 390 | 390 | 390 | 390 | B | 410 | 410 | 400 | 410 | 400 | L | L | L | L | L | |
| 11 | | | 290 | 310 | F | F | F | 350 | 360 | 390 | 390 | 390 | 400 | 410 | 410 | 420 | 420 | 410 | 400 | L | L | L | L | L | |
| 12 | | | 280 | 330 | F | F | U | F | F | 410 | 380 | 400 | 410 | 410 | 420 | 420 | 410 | 410 | 410 | L | L | L | L | L | |
| 13 | | | | | B | A | A | B | A | 380 | 400 | F | B | B | 390 | B | 380 | 370 | 350 | 350 | 330 | | | | |
| 14 | | | | | | B | B | A | A | 390 | B | B | B | B | 390 | 370 | B | 360 | 340 | A | | | | | |
| 15 | | | | | A | U | F | A | R | R | 380 | 380 | 400 | 380 | 400 | 390 | 390 | F | F | F | L | L | | | |
| 16 | | | | | A | A | A | R | 380 | 390 | 390 | 390 | 400 | 390 | B | 370 | 350 | U | F | 350 | 330 | | | | |
| 17 | | | | | | U | F | F | B | B | F | R | B | B | B | 390 | B | B | L | L | 330 | L | L | L | |
| 18 | | | | | B | A | A | B | B | R | 390 | 390 | B | B | B | B | 370 | B | B | | | | | | |
| 19 | | | | | B | B | A | A | U | R | R | B | 380 | 400 | 390 | B | B | B | 380 | 330 | A | | | | |
| 20 | | | | | B | 340 | 350 | B | 370 | 390 | 390 | 400 | 400 | 400 | 400 | 390 | 390 | 370 | 340 | L | L | | | | |
| 21 | | | | | A | A | F | 350 | 360 | 370 | 390 | 390 | 400 | 410 | 400 | 400 | F | F | 380 | 360 | L | | | | |
| 22 | | | U | L | 280 | 300 | 340 | 360 | 360 | 370 | 390 | I | C | 400 | 400 | 410 | 410 | 400 | 390 | H | U | H | L | 310 | |
| 23 | | | | | | A | A | 370 | 370 | 380 | 390 | 400 | 400 | 390 | 400 | 390 | 380 | L | | | | | | | |
| 24 | | | | | F | A | A | 370 | 370 | 390 | 390 | 380 | 400 | 400 | 390 | 380 | U | L | U | L | L | A | | | |
| 25 | | | A | 300 | 320 | 340 | 370 | 370 | 380 | 380 | 400 | 400 | 400 | 400 | 400 | 390 | 380 | U | L | 360 | L | A | | | |
| 26 | | | | | A | 350 | 370 | 370 | 380 | 380 | 400 | 400 | H | 400 | 380 | F | 400 | 400 | 380 | L | L | | | | |
| 27 | | | | | | A | F | A | U | F | 390 | 390 | 390 | 380 | B | B | B | 370 | U | F | U | F | | | |
| 28 | | | | | B | A | A | A | 360 | 370 | 370 | B | B | 380 | 380 | 380 | 380 | B | | | | | | | |
| 29 | | | | | F | B | A | 370 | 370 | F | F | F | 390 | H | 400 | F | 380 | 370 | 360 | 350 | L | L | L | L | |
| 30 | | | | | L | 350 | 350 | 360 | 370 | 380 | 380 | F | F | 380 | 400 | 390 | 380 | 390 | 380 | L | L | L | L | L | |
| 31 | | | | | | 330 | 350 | 360 | U | F | 380 | 380 | 390 | 400 | H | 390 | 390 | 380 | 380 | 360 | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | | 1 | 2 | 4 | 6 | 7 | 13 | 13 | 16 | 23 | 26 | 25 | 21 | 23 | 27 | 25 | 24 | 24 | 21 | 7 | 5 | | | | |
| MED | | 250 | 275 | 285 | 305 | 340 | 350 | 370 | 370 | 380 | 390 | 390 | 400 | 400 | 400 | 390 | 390 | 380 | 360 | 350 | 330 | | | | |
| UQ | | | 295 | 320 | 345 | 350 | 370 | 380 | 390 | 400 | 400 | 400 | 410 | 400 | 400 | 400 | 400 | 385 | 380 | 360 | 330 | | | | |
| LQ | | | 280 | 300 | 330 | 340 | 350 | 365 | 370 | 380 | 390 | 390 | 390 | 400 | 390 | 390 | 380 | 370 | 350 | 345 | 330 | | | | |

The Radio Research Laboratories, Japan

JAN. 1975

FOF1 (0.01 MHz)

IONOSPHERIC DATA

JAN. 1975

FOE (0.01 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00' 4" S, Long. 39° 35' 4" E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|---------|---------|---------|---------|---------|-----------|---------|---------|---------|---------|-----------|-------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | K 360 | U F 190 | 190 | A | U A 195 | A | 255 | K 390 | A | 290 | 270 | 280 | 280 | 290 | 285 | U A 280 | 280 | U A 260 | 230 | H 200 | 210 | A 170 | 160 | R A | |
| 2 | H 130 | Z 225 | K 250 | K 280 | U K 340 | 400 | A | 280 | 265 | 270 | 290 | 290 | 295 | 290 | 260 | U A 280 | A | 250 | 250 | 240 | H 220 | 175 | 130 | F 180 | |
| 3 | U F 180 | 250 | K A | A | K 280 | 205 | 200 | 260 | 260 | 280 | 290 | 300 | 295 | 295 | A | 275 | A | 260 | A | R 250 | 200 | 170 | F 225 | K 225 | |
| 4 | K 450 | K 330 | K 325 | K 430 | A | A | A | A | A | 350 | K 345 | 280 | B | B | A | B | 265 | 270 | R | A | H 220 | 340 | K 380 | K 410 | |
| 5 | U K 260 | A | B | A | K 300 | B | B | B | A | A | B | B | B | B | B | R | B | B | 250 | A | A 230 | K 380 | U K 250 | U K 370 | |
| 6 | B | B | K 315 | B | B | B | A | A | B | 260 | 300 | R 295 | 280 | 290 | A | A | B | B | 240 | R 240 | B | 200 | B | K 280 | |
| 7 | A | U K 290 | A | 260 | K B | A | A | A | 270 | A | B | B | B | B | 270 | A | 260 | R | U B 260 | 245 | H 210 | B | 130 | 130 | |
| 8 | 150 | 160 | 165 | 250 | K 265 | 285 | A | A | B | A | B | B | B | B | 280 | 270 | 270 | 260 | R 225 | A | A | 155 | 120 | K 450 | |
| 9 | A | A | U K 300 | K 365 | 210 | U A 220 | U K 280 | 270 | U A 285 | A | 290 | 295 | 285 | 280 | A | 290 | 285 | 255 | U R 255 | 230 | 195 | 180 | A 180 | U A 160 | |
| 10 | 150 | 150 | H 210 | H 220 | U F 230 | U A 210 | A | 280 | 280 | 270 | 265 | R | B | 290 | B | R 280 | B | 270 | B | 230 | 220 | 190 | 125 | A | |
| 11 | A 125 | 120 | C | A | A | 240 | 250 | 255 | 270 | 270 | 280 | A | 300 | 290 | A | 280 | A | 260 | 245 | A | A | A | A | A | |
| 12 | A | A | 180 | 180 | K 320 | K 300 | K 300 | K 320 | H 275 | 270 | 280 | 310 | 305 | A | 300 | 295 | 290 | 270 | 270 | 225 | 210 | H 175 | 110 | U F 150 | |
| 13 | K 270 | K 320 | K 295 | A | 200 | B | A | A | B | A | A | 280 | B | B | 315 | B | 265 | 280 | A | 250 | 200 | A | K 380 | A | |
| 14 | K 260 | U K 220 | A | B | A | U K 260 | B | B | A | A | 325 | B | B | B | B | 265 | B | A | B | A | A | 160 | A | B | |
| 15 | B | K 310 | K 280 | A | A | B | 260 | A | A | B | 270 | B | 280 | 290 | H 280 | H 280 | 260 | 245 | 240 | B | H 180 | K 250 | K 360 | U K 330 | |
| 16 | U K 220 | K 370 | K 280 | B | K 370 | K 350 | K 355 | K 375 | K 355 | K 320 | 270 | 280 | 295 | 280 | 280 | B | B | B | 260 | Y | 270 | A | K 320 | K 390 | |
| 17 | B | B | B | 300 | B | A | 250 | U R 290 | B | B | 325 | A | B | B | B | B | B | B | B | B | B | K 220 | 150 | U R 150 | B |
| 18 | B | B | B | B | A | B | A | B | B | B | 340 | 305 | 320 | B | B | B | B | 250 | B | B | 200 | 160 | A | K 345 | |
| 19 | K 330 | B | K 350 | B | B | B | B | A | A | U A 295 | 300 | R B | 290 | 290 | 290 | R B | B | B | B | A | B | B | 160 | B | 120 |
| 20 | 110 | 115 | B | K 270 | B | B | 270 | K 320 | B | 270 | B | R | 290 | U R 300 | 280 | 270 | 265 | 260 | 240 | 220 | 200 | 140 | A | A | |
| 21 | B | U K 280 | A | A | 240 | A | A | 240 | 260 | 270 | 280 | 280 | 290 | 290 | 290 | 280 | 270 | 250 | B | B | 185 | 280 | B | K 240 | |
| 22 | 220 | K 270 | K 270 | A | 190 | 220 | 230 | 250 | 270 | 260 | H I C 290 | 290 | 295 | 290 | U A 295 | 290 | 270 | 270 | 250 | 210 | A | U K 220 | K 350 | K 220 | |
| 23 | K 310 | A | K 330 | U K 260 | U K 260 | U K 290 | A | A | K 320 | 275 | A | 280 | 270 | 270 | 290 | 275 | 250 | 250 | 250 | 200 | U A 180 | 340 | K 370 | K 350 | |
| 24 | K 300 | 400 | U K 280 | A | B | 205 | A | B | A | H 270 | H 280 | 280 | 275 | 275 | 275 | B | B | 270 | 240 | 200 | 195 | 210 | K 150 | F 140 | |
| 25 | K 230 | 150 | A | K 260 | K 270 | 215 | A | A | A | 250 | 260 | 275 | 280 | 270 | 280 | A | A | 270 | 250 | H 240 | 215 | K 320 | 175 | 140 | F 130 |
| 26 | B | 165 | 250 | K 320 | 170 | A | U A 250 | 255 | 250 | 275 | 280 | H 280 | 290 | H 280 | 270 | 270 | 260 | A 260 | H | R | U A 220 | 200 | 140 | 165 | U A 130 |
| 27 | K 300 | K 300 | A | K 315 | K 225 | F U K 340 | 280 | F | A | K 320 | A | 290 | 280 | B | B | B | B | A | 230 | A | U K 400 | K 200 | A | A | |
| 28 | B | K 300 | U K 230 | K 270 | A | B | A | A | U A 290 | 280 | 270 | B | B | 280 | 270 | 270 | 270 | B | B | U B 225 | 170 | 130 | A | F 170 | |
| 29 | 180 | A | A | B | A | U K 270 | B | A | 290 | A | 270 | 280 | 280 | A | 280 | 270 | B | A | 250 | B | 185 | I C 130 | U A 150 | A | |
| 30 | K 220 | K 250 | U K 220 | K 330 | K 360 | K 310 | U K 320 | 210 | H 250 | 255 | 270 | 290 | 280 | 290 | 280 | 280 | 270 | 250 | B | A | 170 | 130 | 120 | A | |
| 31 | K 310 | A | A | U K 290 | U K 240 | U K 370 | 300 | K 220 | H 230 | 260 | 280 | 270 | 270 | H 275 | 270 | 270 | U R 270 | 260 | 225 | B | K 270 | A | K 210 | K 410 | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | 21 | 21 | 18 | 16 | 18 | 17 | 14 | 16 | 16 | 21 | 25 | 21 | 22 | 19 | 19 | 20 | 17 | 21 | 19 | 15 | 26 | 25 | 22 | 20 | |
| MED | K 230 | K 250 | K 275 | K 275 | K 262 | K 260 | 265 | 275 | 270 | 270 | 280 | 280 | 288 | 290 | 280 | 280 | 270 | 260 | 245 | 225 | 200 | 175 | 162 | K 222 | |
| UQ | K 300 | K 300 | K 300 | K 318 | K 315 | K 300 | K 300 | 305 | 282 | 290 | 290 | 290 | 295 | 290 | 290 | 280 | 270 | 270 | 250 | 235 | 220 | 210 | K 320 | K 360 | |
| LQ | 180 | 165 | 220 | K 260 | 210 | 220 | 250 | 252 | 255 | 270 | 270 | 280 | 280 | 280 | 278 | 270 | 265 | 250 | 240 | 212 | 195 | 155 | 130 | 145 | |

JAN. 1975

FOE (0.01 MHz)

IONOSPHERIC DATA

JAN. 1975

FOES (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00' 4" S, Long. 39° 35' 4" E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------|--------|---------|----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|----------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| 1 | J A 59 | J A 26 | G D S 78 | 59 | 53 | 45 | 50 | 42 | 32 | 30 | 94 | 30 | 30 | 41 | 40 | 41 | 37 | 31 | 40 | J A 36 | J A 26 | 30 | 27 | |
| 2 | 20 | J A 27 | J A 27 | 28 | J A 35 | J A 63 | 40 | G | G | G | G | 32 | J A 44 | J A 36 | J A 34 | J A 31 | J A 39 | G 23 | 30 | G | G | G | G | |
| 3 | J A 25 | J A 36 | 38 | 33 | 36 | 23 | 25 | 30 | 31 | G | 70 | J A 66 | D C 140 | J A 94 | 41 | 61 | J A 65 | G | J A 28 | 29 | 28 | J A 39 | 31 | K 22 |
| 4 | K 45 | K 33 | K 32 | 57 | 61 | 51 | 62 | 50 | 51 | 35 | K 34 | 32 | B E B 32 | 30 | B | G | G | G | J A 35 | G | K 35 | K 38 | K 41 | |
| 5 | J A 73 | J A 60 | 59 | 33 | 41 | 60 | B | B | 40 | 40 | B | B | B | B | B | G | B | B | 31 | J A 41 | 29 | K 38 | 32 | J A 73 |
| 6 | B | J A 44 | K 31 | B | B | B | 39 | 39 | B | 30 | 33 | G | G | 34 | 34 | 30 | B | R | 32 | B | G | B | 33 | 53 |
| 7 | J A 44 | 32 | 49 | 31 | B | 40 | 40 | J A 64 | 36 | 45 | 38 | B | B | B | G | 28 | G | R | 77 | J A 84 | 40 | J A 34 | J A 36 | D S 46 |
| 8 | J A 36 | J A 26 | J A 29 | J A 34 | 29 | 31 | 50 | 52 | B | 51 | 30 | B | B | B | 30 | 30 | G | G | G | 48 | J A 44 | 84 | 29 | 49 |
| 9 | 39 | J A 45 | J A 74 | K 35 | 65 | J A 25 | 32 | 34 | 53 | 46 | 34 | 32 | 34 | 34 | G | 35 | G | G | G | 28 | 24 | 20 | G | J A 24 |
| 10 | J A 23 | J A 25 | 29 | G | 34 | 22 | 42 | 30 | 28 | J A 64 | 33 | G | E B 46 | J A 123 | E B 36 | 35 | 40 | 32 | E B 34 | 39 | J A 26 | 35 | 42 | J A 24 |
| 11 | J A 24 | 16 | E C 20 | J A 25 | 33 | G | J A 54 | G | G | J A 34 | G | 30 | G | 33 | J A 32 | 30 | J A 37 | 29 | 30 | 33 | J A 46 | J A 40 | 30 | 23 |
| 12 | 36 | J A 30 | J A 33 | 24 | K 32 | J A 32 | 33 | 38 | 29 | G | G | 61 | 39 | J A 38 | G | G | G | 31 | G | G | 22 | 22 | 21 | 23 |
| 13 | 34 | 52 | J A 47 | J A 27 | 28 | B | 46 | J A 42 | 67 | 57 | 40 | 32 | B | B | G | B | G | G | 33 | 30 | J A 34 | 109 | K 38 | J A 46 |
| 14 | 101 | 25 | J A 75 | B | 46 | J A 31 | B | B | 36 | 45 | 37 | B | B | B | 31 | G | B | 35 | E B 32 | J A 39 | J A 39 | J A 94 | J A 77 | B |
| 15 | 52 | 31 | 67 | 33 | 30 | 40 | 37 | 42 | 35 | E B 32 | G | 39 | 47 | G | 40 | 31 | G | G | 29 | E B 26 | J A 29 | 31 | 39 | 35 |
| 16 | J A 50 | J A 119 | 32 | 47 | K 37 | K 35 | K 35 | 41 | K 35 | K 32 | G | 33 | 32 | 36 | 33 | E B 43 | E B 31 | E B 30 | G | G | K 27 | 35 | K 33 | J A 97 |
| 17 | J A 80 | B | B | J A 105 | 55 | 38 | 30 | 42 | B | B | G | 32 | B | B | B | E B 32 | B | B | 32 | 29 | J A 46 | G | G | B |
| 18 | B | 38 | 42 | B | 28 | B | 45 | 57 | B | B | K 34 | G | G | B | B | B | B | G | B | B | 26 | 23 | 23 | K 34 |
| 19 | 38 | B | 41 | B | B | B | B | 40 | 55 | 36 | G | B | G | G | 33 | B | B | E B 45 | 34 | E B 26 | 35 | J A 34 | E B 32 | 18 |
| 20 | 22 | 26 | B | J A 39 | B | B | 28 | 47 | B | G | E B 34 | G | 36 | 32 | 35 | 36 | 38 | J A 34 | G | J A 23 | 21 | G | 24 | 38 |
| 21 | B | J A 62 | J A 40 | 46 | 30 | J A 54 | 42 | 58 | G | 32 | G | 32 | G | G | 36 | 35 | G | G | E B 26 | E B 26 | G | J A 33 | E B 18 | K 24 |
| 22 | K 30 | K 27 | K 27 | 25 | G | 28 | G | J A 44 | J A 30 | J A 29 | C | 36 | 34 | 30 | J A 34 | J A 34 | 32 | G | J A 35 | G | J A 33 | 27 | K 35 | 25 |
| 23 | K 31 | J A 51 | K 33 | 37 | K 30 | K 29 | 42 | 46 | K 32 | G | 29 | G | 30 | 32 | 30 | G | 29 | 30 | G | 31 | J A 32 | K 34 | K 37 | J A 41 |
| 24 | J A 44 | 47 | J A 34 | 40 | B | 29 | 43 | 45 | 42 | 28 | G | G | G | G | J A 34 | E B 31 | E B 28 | G | G | G | 27 | 25 | 19 | 21 |
| 25 | 32 | 26 | 26 | K 26 | K 27 | 26 | 32 | 40 | J A 27 | G | G | G | 30 | J A 31 | 31 | 33 | J A 63 | 30 | 25 | 22 | K 32 | J A 24 | G | G |
| 26 | 27 | 27 | J A 39 | 47 | J A 61 | 40 | 39 | G | J A 49 | G | G | 32 | 36 | 46 | J A 54 | 30 | J A 29 | G | G | 35 | 27 | 26 | G | 25 |
| 27 | K 30 | K 30 | J A 34 | 45 | K 32 | 51 | 32 | 49 | J A 51 | 55 | J A 35 | G | 71 | E B 32 | B | B | B | 28 | 30 | J A 40 | J A 40 | 23 | 52 | 47 |
| 28 | 47 | K 32 | J A 66 | J A 39 | J A 66 | B | 52 | 58 | 80 | 34 | G | 31 | B | B | G | G | G | E B 27 | E B 36 | 38 | 52 | D C 140 | 28 | J A 25 |
| 29 | J A 27 | 27 | 34 | B | 48 | 30 | 70 | 50 | G | 35 | G | 30 | 31 | 30 | 29 | G | E B 30 | 29 | 27 | 27 | J A 26 | E C 21 | 30 | 25 |
| 30 | 31 | 30 | J A 28 | K 33 | 46 | J A 41 | J A 38 | 39 | J A 51 | G | 34 | G | G | G | G | G | G | G | E B 25 | 24 | 20 | J A 26 | J A 36 | J A 24 |
| 31 | K 31 | 43 | 47 | 34 | J A 34 | 42 | K 30 | G | G | 33 | G | 30 | 33 | 31 | 28 | 28 | G | G | G | E B 33 | K 30 | 32 | 25 | 47 |
| CNT | 28 | 29 | 29 | 26 | 26 | 25 | 28 | 29 | 26 | 29 | 29 | 26 | 23 | 23 | 27 | 26 | 24 | 27 | 30 | 29 | 31 | 30 | 31 | 29 |
| MED | 35 | 31 | 34 | 34 | 34 | 35 | 40 | 42 | 36 | 32 | E G 29 | 32 | 32 | 32 | 32 | 30 | E G 29 | E G 23 | 26 | 29 | 29 | 32 | 30 | 25 |
| UQ | 46 | 44 | J A 47 | 45 | 48 | 42 | 45 | 50 | 51 | 40 | 34 | 32 | 30 | 35 | 34 | 34 | 38 | 30 | 32 | 38 | J A 36 | 38 | 36 | 46 |
| LQ | 28 | 27 | 29 | 28 | 30 | 29 | 32 | 38 | 28 | G | G | G | G | 28 | 30 | G | G | G | G | E G 24 | 25 | 23 | 22 | 24 |

JAN. 1975

FOES (0.1 MHz)

IONOSPHERIC DATA

JAN. 1975

F=MIN (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------|-------------------|-------------------|-------------------|----|-------------------|----|----|-------------------|-------------------|----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----|----|-------------------|-------------------|----|-------------------|-------------------|-------------------|
| 1 | 9 | 8 | 10 | 16 | 9 | 12 | 10 | 10 | 10 | 9 | 9 | 10 | 10 | 9 | E ₁₆ C | 9 | 9 | 9 | 9 | 9 | 10 | 8 | 15 | 9 |
| 2 | 7 | 7 | 8 | 10 | 20 | 13 | 15 | 9 | 9 | 9 | 9 | E ₉ C | 9 | 9 | 10 | 10 | 9 | 9 | E ₁₇ C | 9 | 9 | E ₁₀ C | E ₉ C | 9 |
| 3 | 9 | 9 | 12 | 9 | 9 | 9 | 9 | 8 | 8 | 9 | 9 | 9 | 9 | 10 | E ₁₀ C | E ₂₂ C | 9 | 11 | 10 | 16 | 9 | 10 | 8 | 9 |
| 4 | 16 | 7 | 7 | 9 | 10 | 15 | 10 | 15 | 15 | 10 | 25 | 15 | B | 32 | 12 | B | 18 | 12 | 11 | 9 | 9 | 10 | 9 | E ₂₂ C |
| 5 | 9 | 16 | 20 | 15 | 9 | 30 | B | B | 24 | 21 | B | B | B | B | B | 23 | B | B | 21 | 13 | 13 | 10 | 9 | E ₁₇ C |
| 6 | B | 22 | 13 | B | B | B | 22 | 14 | B | 13 | 14 | 15 | 20 | 15 | 11 | 15 | B | B | 22 | B | 10 | B | 9 | 34 |
| 7 | 15 | 10 | 22 | 9 | B | 23 | 14 | 13 | 9 | 13 | 32 | B | B | B | 22 | 21 | 10 | B | 26 | E ₁₀ C | 13 | 24 | 9 | 9 |
| 8 | 7 | 9 | 9 | 9 | 10 | 8 | 12 | 22 | B | 20 | 10 | B | B | B | 15 | E ₂₀ C | 24 | 17 | 10 | 10 | 11 | 9 | 8 | 22 |
| 9 | 11 | 9 | 9 | 13 | 9 | 9 | 8 | 11 | 11 | 11 | 16 | 17 | 15 | 16 | 23 | 10 | 9 | 16 | 21 | 22 | 12 | 12 | 9 | 11 |
| 10 | 7 | 8 | 10 | 9 | E ₁₃ C | 10 | 14 | 9 | 9 | 9 | 10 | 27 | 46 | 13 | 36 | 22 | 30 | 16 | 34 | 13 | 12 | 11 | 10 | 9 |
| 11 | 7 | 9 | E ₂₀ C | 10 | 14 | 12 | 10 | 9 | 8 | 9 | E ₁₈ C | 14 | 11 | 9 | 10 | 12 | 10 | 13 | 14 | 10 | 9 | 10 | 12 | 12 |
| 12 | 9 | 8 | 8 | 10 | 10 | 10 | 10 | 10 | E ₁₀ C | 10 | 9 | 10 | 10 | 10 | 12 | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | E ₁₀ C |
| 13 | 10 | 15 | 8 | 8 | 8 | B | 9 | 13 | 39 | 15 | 13 | 10 | B | B | 13 | B | 22 | 24 | 21 | 23 | 9 | 9 | 16 | 11 |
| 14 | 18 | 8 | 10 | B | 10 | 9 | B | B | 13 | 15 | 20 | B | B | B | 29 | 19 | B | 14 | 32 | 10 | 14 | 10 | 14 | B |
| 15 | 28 | 15 | 10 | 20 | 12 | 29 | 10 | 16 | 22 | 32 | 15 | 32 | 20 | 13 | 10 | 16 | 12 | 10 | 11 | 26 | 10 | 10 | 9 | 10 |
| 16 | 10 | 15 | 13 | 27 | 12 | 17 | 22 | 17 | 22 | 19 | 10 | 10 | 10 | 10 | 12 | 43 | 31 | 30 | 11 | 15 | 11 | 10 | 9 | 10 |
| 17 | 22 | B | B | 13 | 28 | 9 | 9 | 10 | B | B | 16 | 29 | B | B | B | 32 | B | B | 26 | 26 | 19 | 9 | 10 | B |
| 18 | B | 30 | 26 | B | 10 | B | 23 | 33 | B | B | 23 | 13 | 15 | B | B | B | B | 24 | B | B | 11 | 11 | E ₁₀ C | 15 |
| 19 | 20 | B | 15 | B | B | B | B | 20 | 18 | 15 | 28 | B | 16 | 22 | 20 | B | B | 45 | 20 | 26 | 22 | 9 | 32 | 9 |
| 20 | 8 | 10 | B | 18 | B | B | 15 | 20 | B | 24 | 34 | 27 | 15 | 25 | 18 | 14 | 14 | 14 | 9 | 10 | 9 | 13 | 12 | 12 |
| 21 | B | 9 | 15 | 10 | 9 | 18 | 14 | 9 | 10 | 10 | 10 | 10 | 13 | 13 | 11 | 10 | 10 | 8 | 26 | 26 | 11 | 10 | 18 | 9 |
| 22 | 10 | 9 | 10 | 9 | E ₁₄ C | 13 | 10 | 9 | 9 | 10 | C | 16 | 16 | 18 | 13 | 10 | 10 | 10 | 10 | 10 | 9 | 12 | 10 | 9 |
| 23 | E ₂₄ C | 16 | 14 | 12 | E ₁₂ C | 15 | 20 | 15 | 11 | 11 | E ₁₈ C | 12 | 13 | 12 | 12 | 22 | 12 | 12 | 21 | 15 | 9 | 10 | 10 | 13 |
| 24 | 10 | 14 | 9 | 11 | B | 10 | 21 | 31 | 13 | 14 | 10 | 10 | 9 | 10 | 9 | 31 | 28 | 13 | 21 | 11 | 9 | 13 | 11 | 8 |
| 25 | 9 | 9 | 10 | 10 | 8 | 10 | 9 | 12 | 10 | 9 | E ₁₃ C | 9 | 9 | 9 | 9 | 9 | 10 | 10 | 9 | E ₁₀ C | 10 | 11 | 11 | 10 |
| 26 | 23 | 9 | 11 | 25 | 10 | 15 | 11 | 12 | 9 | 9 | 10 | 10 | 10 | 9 | 9 | 9 | 10 | 12 | 18 | 15 | 10 | 10 | 10 | 9 |
| 27 | 8 | 10 | 20 | 20 | 20 | 15 | 13 | E ₁₉ C | 18 | 11 | 10 | E ₁₃ C | 11 | 32 | B | B | B | 22 | 12 | 11 | 10 | 9 | 10 | 12 |
| 28 | 20 | 10 | 12 | 12 | 18 | B | 28 | 24 | 15 | 11 | 10 | 21 | B | B | 23 | 15 | 21 | 27 | 36 | 22 | 11 | 10 | 10 | 14 |
| 29 | 8 | 10 | 14 | B | 9 | 13 | 65 | 23 | 12 | 10 | 10 | 10 | 10 | 14 | 10 | 22 | 30 | 16 | 22 | 22 | 15 | E ₂₁ C | 10 | E ₁₅ C |
| 30 | 13 | E ₁₃ C | 9 | 10 | 11 | 11 | 11 | 10 | 10 | 9 | 11 | 15 | 14 | 12 | 13 | 14 | 11 | 15 | 25 | 18 | 10 | 12 | E ₁₀ C | 9 |
| 31 | 10 | 15 | 24 | 10 | 9 | 13 | 10 | 9 | 9 | 13 | 20 | 10 | 10 | 10 | 10 | 11 | 16 | 15 | 20 | 33 | 9 | 15 | 14 | 9 |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| CNT | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 30 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| MED | 10 | 10 | 12 | 12 | 10 | 13 | 13 | 13 | 12 | 11 | 12 | 14 | 15 | 14 | 12 | U | 17 | 16 | 15 | 20 | 15 | 10 | 10 | 10 |
| UQ | 20 | 15 | 16 | 20 | 19 | 26 | 22 | 20 | 22 | 15 | 20 | 27 | D ₄₆ B | D ₃₂ B | 22 | 27 | 30 | 24 | 24 | 22 | 12 | 12 | 12 | 13 |
| LQ | 9 | 9 | 10 | 10 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 12 | 10 | 10 | 9 | 10 | 9 | 9 |

The Radio Research Laboratories, Japan

JAN. 1975

F=MIN (0.1 MHz)

IONOSPHERIC DATA

JAN, 1975

M(3000)F2 (0.01)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | F | F | A | F | A | F | A | A | F | F | F | F | R | G | 270 | 300 | 295 | 305 | 295 | 325 | 315 | 330 | F | F | | | | | | |
| 2 | V | J | S | J | R | 290 | A | R | F | F | F | F | F | F | F | F | 270 | 300 | 315 | 325 | 330 | 335 | 330 | F | F | | | | | | |
| 3 | 305 | 280 | S | 320 | F | J | S | F | U | F | F | F | F | F | F | F | 295 | 305 | U | F | F | 290 | F | F | F | | | | | | |
| 4 | R | U | F | F | A | A | A | A | A | G | R | F | B | B | B | F | F | R | R | R | R | U | F | A | A | | | | | | |
| 5 | F | A | A | R | F | A | B | B | R | R | B | B | B | B | B | F | B | B | R | A | 300 | 275 | F | F | F | | | | | | |
| 6 | B | A | F | B | B | B | R | 260 | B | 265 | 305 | 275 | 275 | 270 | 260 | 265 | B | B | F | B | 305 | B | F | A | A | | | | | | |
| 7 | A | F | A | F | B | A | R | A | F | A | R | B | B | B | G | 255 | 280 | B | A | F | 335 | 360 | 320 | 310 | F | F | | | | | |
| 8 | 270 | 285 | F | F | F | F | A | A | B | A | F | B | B | B | F | F | R | G | G | A | A | F | F | A | A | | | | | | |
| 9 | R | A | F | F | F | F | F | F | F | F | F | F | F | F | F | F | 300 | 300 | 300 | 305 | 300 | 325 | 315 | F | 305 | | | | | | |
| 10 | F | Z | 265 | U | F | F | U | F | F | F | F | F | F | F | F | F | 300 | F | R | 315 | F | 310 | 310 | 320 | S | | | | | | |
| 11 | 325 | 300 | 300 | 290 | 270 | F | F | F | F | F | F | F | F | F | F | F | 325 | 320 | 330 | 305 | 325 | 330 | 330 | 305 | 305 | | | | | | |
| 12 | V | 305 | 300 | 290 | 270 | 250 | U | F | F | F | F | F | F | F | F | F | 315 | 355 | Z | F | F | 325 | 335 | 330 | V | | | | | | |
| 13 | A | R | F | F | F | B | A | A | A | A | 250 | G | B | B | B | F | F | R | G | G | 275 | A | R | A | A | | | | | | |
| 14 | A | F | A | B | A | F | B | B | R | A | G | B | B | B | G | 220 | B | R | R | A | A | F | A | B | B | | | | | | |
| 15 | A | R | A | A | R | A | F | A | R | R | G | G | G | R | 240 | 265 | 280 | F | F | 275 | 285 | 290 | U | F | R | | | | | | |
| 16 | F | A | F | A | R | R | R | R | U | R | 255 | 250 | F | R | C | 260 | 260 | 245 | 260 | 230 | G | R | F | R | A | | | | | | |
| 17 | A | B | B | A | A | R | R | F | B | B | G | R | B | B | B | R | B | B | 265 | R | 325 | 315 | 315 | B | B | | | | | | |
| 18 | B | A | A | B | R | B | A | A | B | B | R | G | G | B | B | B | B | 265 | B | B | 285 | 330 | 310 | F | A | | | | | | |
| 19 | A | B | A | B | B | B | B | A | A | R | R | B | R | R | R | B | B | R | 305 | 305 | F | 320 | 315 | U | R | F | | | | | |
| 20 | F | F | B | 320 | B | B | F | R | B | F | R | 270 | 260 | 255 | G | G | 310 | 280 | 315 | 325 | 325 | 305 | F | 330 | A | | | | | | |
| 21 | B | A | A | A | F | A | A | 300 | F | 280 | F | 255 | F | 285 | 265 | G | 270 | 245 | 295 | 290 | 280 | 325 | 300 | 325 | 315 | F | 345 | | | | |
| 22 | 335 | U | F | 305 | U | F | F | 310 | 285 | 260 | 280 | 285 | C | 270 | 300 | 285 | 320 | 290 | 300 | 315 | 315 | 305 | 290 | F | A | 325 | | | | | |
| 23 | 300 | A | A | F | F | F | A | A | 240 | 270 | 270 | 280 | R | 280 | 285 | 270 | 265 | 280 | 305 | 355 | U | 280 | R | R | A | A | | | | | |
| 24 | A | A | F | R | B | F | R | A | G | R | 260 | 265 | F | 260 | 265 | F | 275 | 320 | 265 | H | 325 | 315 | 280 | 320 | 335 | F | 320 | | | | |
| 25 | U | F | F | 305 | F | F | F | U | F | F | F | F | F | F | F | F | 285 | 290 | 290 | 280 | 285 | 305 | 310 | 325 | 260 | 335 | 330 | F | 325 | | |
| 26 | A | U | F | U | F | F | A | 270 | 275 | 270 | 270 | 265 | 280 | 295 | 280 | 300 | 310 | 300 | 325 | 335 | 320 | 315 | 330 | 325 | 300 | F | F | | | | |
| 27 | R | R | U | R | 270 | S | F | R | U | F | F | F | F | U | F | F | 250 | B | B | B | F | G | U | 270 | F | 330 | A | A | | | |
| 28 | A | F | A | F | A | B | A | A | A | 225 | 265 | 250 | B | B | R | 275 | 275 | 290 | 325 | 320 | 295 | U | F | F | U | F | 305 | F | 305 | | |
| 29 | 260 | F | 285 | A | B | A | F | B | A | U | F | F | U | F | U | F | 260 | F | 280 | 270 | 275 | 280 | 315 | F | F | 310 | 310 | F | 325 | S | F |
| 30 | U | R | F | F | R | A | R | G | F | F | F | F | U | F | F | F | F | F | U | F | F | 320 | 310 | 335 | 325 | 305 | F | F | F | | |
| 31 | R | A | A | F | 315 | R | U | F | 265 | Z | U | F | 290 | F | 280 | 280 | 275 | 295 | 280 | 285 | F | 300 | F | A | F | A | A | F | A | | |
| CNT | 12 | 13 | 9 | 10 | 6 | 4 | 9 | 11 | 16 | 20 | 20 | 24 | 20 | 20 | 25 | 25 | 21 | 21 | 24 | 22 | 27 | 22 | 19 | 17 | | | | | | | |
| MED | 305 | 285 | F | 280 | 285 | F | 280 | 260 | F | 270 | F | 275 | F | 265 | 270 | 275 | 278 | 270 | 275 | 295 | 300 | 305 | 312 | 305 | F | 322 | 320 | 310 | F | F | |
| UQ | 320 | 300 | F | 310 | 315 | 285 | 275 | 282 | F | 275 | F | 280 | 275 | 280 | 282 | 285 | 290 | 290 | 300 | 315 | 318 | 325 | 325 | 330 | 330 | 325 | F | F | F | F | |
| LQ | 285 | 280 | F | 275 | F | F | F | 265 | F | F | F | F | F | F | F | F | 280 | 290 | 272 | 305 | 290 | F | F | F | F | F | F | F | F | F | F |

The Radio Research Laboratories, Japan

JAN, 1975

M(3000)F2 (0.01)

IONOSPHERIC DATA

JAN. 1975

H^oF₂ (KM)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | F | A | A | 510 | 525 | 415 | 460 | R | G | 420 | 360 | 350 | 340 | L | L | | | |
| 2 | | | | | | A | R | 330 | 410 | 345 | 360 | 350 | 400 | 450 | 365 | 380 | 430 | 355 | 320 | 295 | L | L | | |
| 3 | | | 300 | 310 | 395 | 330 | 320 | 320 | 345 | 345 | 365 | 375 | 355 | 360 | 280 | 345 | 305 | 300 | U F | L | | | | |
| 4 | | | | | A | A | A | A | G | R | 500 | B | 375 | 450 | B | U F | R | R | R | | | | | |
| 5 | | | | | A | B | B | A | A | B | B | B | B | B | B | 425 | B | B | R | A | 350 | | | |
| 6 | | | | | B | A | A | B | 440 | 325 | 425 | 395 | 400 | 405 | 385 | B | B | 425 | B | L | | | | |
| 7 | | | | | A | A | A | F | A | A | B | B | B | G | 500 | 380 | B | A | L | | | | | |
| 8 | 340 | 360 | 390 | 410 | 445 | A | A | B | A | U F | B | B | B | F | 475 | 480 | R | G | G | A | A | | | |
| 9 | | | | | F | F | F | F | 440 | 475 | 405 | 450 | 400 | 410 | 400 | 375 | 355 | 350 | 350 | 325 | L | L | | |
| 10 | | 430 | 400 | 355 | 360 | 395 | U F | 400 | 420 | 435 | 405 | 400 | 350 | 325 | 325 | 350 | 350 | 300 | L | L | L | L | L | |
| 11 | | | 330 | 420 | 460 | 375 | 370 | 400 | 345 | 395 | 370 | 350 | 390 | 370 | 330 | 295 | L | L | L | L | 265 | | | |
| 12 | | | 380 | 440 | 410 | 340 | 395 | 350 | 350 | 355 | 350 | 385 | 360 | 320 | 340 | 310 | L | | L | 240 | L | | | |
| 13 | | | | | B | A | A | A | A | 505 | G | B | B | F | 475 | B | 405 | 430 | G | G | 390 | | | |
| 14 | | | | | | B | B | R | A | G | B | B | B | G | 620 | B | R | R | A | | | | | |
| 15 | | | | | A | F | A | R | R | G | G | G | G | R | 575 | 450 | 420 | 395 | 395 | L | L | | | |
| 16 | | | | | 450 | R | A | U R | 500 | 500 | 515 | R | U C | 610 | 485 | 475 | B | 490 | 595 | G | R | F | | |
| 17 | | | | | | F | F | B | B | G | R | B | B | B | B | R | B | B | L | L | 285 | L | L | |
| 18 | | | | | B | A | A | B | B | R | G | G | B | B | B | B | B | 435 | B | B | | | | |
| 19 | | | | | B | B | A | A | R | R | B | R | R | R | R | B | B | E R | 370 | 320 | 315 | 300 | | |
| 20 | | | | | R | 450 | R | B | 430 | R | 430 | 500 | 540 | R | G | G | 350 | 405 | 310 | 290 | L | | | |
| 21 | | | | | A | A | 365 | 420 | 450 | 500 | 400 | E R | 450 | G | 460 | E R | 540 | 390 | 400 | 400 | L | | | |
| 22 | | | 360 | U E | 325 | 400 | 410 | 360 | 370 | 380 | 400 | 345 | 400 | 340 | 380 | 350 | 315 | 300 | L | 335 | | | | |
| 23 | | | | | A | A | U F | 530 | 400 | 420 | 400 | R | 405 | 405 | 450 | 425 | 400 | L | | | | | | |
| 24 | | | | | F | A | A | G | R | 500 | 450 | 480 | 480 | 430 | 420 | 300 | 280 | L | | L | | | | |
| 25 | | | 365 | F | 380 | 400 | 380 | 380 | 400 | 380 | 350 | 425 | 385 | 385 | 395 | L | 400 | 340 | L | L | F | 360 | | |
| 26 | | | | | A | 420 | 375 | 400 | 410 | 400 | 390 | 350 | 375 | 350 | 320 | 340 | 290 | L | L | | | | | |
| 27 | | | | | | R | 355 | 355 | 420 | F | 400 | 395 | 380 | 450 | B | B | B | 330 | G | 355 | | | | |
| 28 | | | | | B | A | A | A | 650 | 500 | 430 | B | B | R | 420 | 450 | 375 | 300 | | | | | | |
| 29 | | | | | F | B | A | 470 | 390 | U H | U H | 400 | 450 | 450 | 390 | 400 | 370 | 380 | 300 | F | L | L | L | |
| 30 | | | | | L | G | 365 | 420 | 370 | 390 | 375 | 350 | 355 | 355 | 330 | 300 | 320 | L | L | | 250 | | | |
| 31 | | | | | | 350 | 380 | 380 | 350 | 380 | 370 | 400 | 355 | 395 | 380 | 350 | 280 | 305 | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| CNT | | 1 | 2 | 7 | 7 | 8 | 10 | 12 | 17 | 21 | 25 | 24 | 21 | 20 | 25 | 23 | 23 | 23 | 17 | 6 | 6 | 3 | | |
| MED | | 340 | 395 | 365 | 380 | 405 | 388 | 372 | 410 | 410 | 405 | 408 | 398 | 395 | 405 | 382 | 360 | 350 | 340 | 320 | 342 | 250 | | |
| UQ | | | | 385 | 415 | 448 | 420 | 388 | 440 | 450 | 505 | 450 | 460 | 450 | 475 | 444 | 412 | 400 | 425 | 355 | 360 | 258 | | |
| LQ | | | | 345 | 332 | 378 | 350 | 360 | 380 | 370 | 380 | 382 | 375 | 368 | 365 | 360 | 348 | 310 | 305 | 295 | 300 | 245 | | |

The Radio Research Laboratories, Japan

JAN. 1975

H^oF₂ (KM)

IONOSPHERIC DATA

JAN. 1975

H^oF (KM)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | F | U F 280 | A | F | A | 225 | A | A | 250 | 220 | 195 | 220 | 200 | 200 | 190 | 205 | 240 | 210 | 225 | 220 | 230 | 250 | 270 | |
| 2 | 250 | 300 | 320 | U H 300 | 400 | A | A | 255 | 205 | 210 | 195 | 200 | 220 | 230 | 200 | 200 | 200 | 200 | 225 | 230 | 230 | 230 | 230 | 260 | |
| 3 | 280 | 350 | E A 400 | A | A | 230 | 220 | 210 | 200 | 230 | A | A | A | A | 230 | 200 | A | 210 | 200 | 230 | 250 | 255 | 260 | 275 | |
| 4 | R | 480 | F | A | A | A | A | A | A | 250 | R | 215 | B | 240 | 220 | B | 205 | 230 | 260 | A | 260 | R | A | A | |
| 5 | F | A | A | A | 300 | A | B | B | A | A | B | B | B | B | B | 225 | B | R | 225 | A | A | 425 | F | 380 | |
| 6 | B | A | U F 340 | B | B | B | A | A | B | 220 | 250 | 200 | 220 | 215 | 205 | 200 | B | B | 250 | B | 235 | B | 295 | B | |
| 7 | A | F | A | 345 | B | A | A | A | 250 | A | B | B | B | B | 220 | 225 | 220 | B | A | 240 | 230 | A | 260 | 265 | |
| 8 | 305 | 310 | 290 | 385 | A | H | A | A | B | A | 210 | B | B | B | 225 | 240 | 225 | 205 | E Y 270 | A | A | U F 250 | A | A | |
| 9 | A | A | 425 | A | F | 225 | U F 300 | F | 230 | A | U H 205 | 210 | 200 | 200 | 225 | 210 | 210 | 210 | H | 240 | 235 | 240 | H | 250 | |
| 10 | 295 | 300 | 320 | 300 | 255 | 210 | A | 200 | 240 | 200 | 270 | 230 | B | 280 | 230 | 230 | A | 210 | B | 210 | 225 | 230 | 230 | 250 | |
| 11 | H | 250 | 245 | 250 | A | H | 280 | 200 | 190 | 190 | 200 | 200 | 225 | 200 | H | 205 | 200 | 200 | 240 | 230 | 230 | 250 | 240 | 250 | |
| 12 | 250 | 250 | 245 | 320 | A | 300 | 240 | 300 | U H 180 | 240 | 220 | U H 180 | 230 | 210 | 200 | 250 | 200 | 200 | 200 | 200 | 200 | 220 | 240 | 255 | |
| 13 | A | 325 | F | 230 | 230 | B | A | A | B | A | 225 | 200 | R | B | 250 | B | 240 | 240 | A | 250 | 275 | A | R | A | |
| 14 | A | 340 | A | B | A | U F 260 | B | B | A | A | 280 | B | B | B | 215 | 230 | B | A | B | A | A | 250 | F | A | B |
| 15 | A | R | A | A | A | A | F | A | R | 215 | 205 | A | 220 | 200 | 190 | 200 | 250 | 205 | E | 240 | 235 | 315 | 300 | 305 | |
| 16 | F | A | F | A | R | A | A | A | R | 290 | 225 | 205 | 200 | 200 | 240 | B | 220 | 250 | E Y 250 | 210 | 300 | A | 345 | A | |
| 17 | A | B | B | A | A | A | 250 | A | B | B | 250 | R | B | B | B | 225 | B | B | 230 | 265 | 260 | 260 | 260 | B | |
| 18 | B | A | A | B | A | B | A | A | B | B | R | 230 | 230 | B | B | B | B | 250 | B | B | 240 | 240 | 275 | A | |
| 19 | A | B | A | B | B | B | B | A | A | 235 | R | B | 230 | 230 | 215 | B | B | R | 240 | 200 | A | 280 | B | 245 | |
| 20 | 275 | 240 | B | A 260 | B | B | 240 | 300 | B | 225 | 225 | 240 | 225 | 200 | 245 | 200 | 200 | 200 | 220 | 200 | 210 | H 265 | 280 | A | |
| 21 | B | A | A | A | 255 | A | A | 230 | 200 | 190 | 200 | 280 | 210 | 195 | 215 | 200 | 200 | U H 200 | 215 | 220 | 225 | 300 | 290 | 255 | |
| 22 | 280 | 340 | 305 | 300 | 250 | 270 | 220 | U H 200 | 200 | H | 190 | 200 | 225 | 230 | 200 | 200 | U H 190 | U H 190 | 200 | 195 | 225 | 260 | 330 | A | 275 |
| 23 | 350 | A | A | 400 | F | A | A | A | U F 255 | 200 | 210 | 255 | 225 | 210 | 200 | 230 | 200 | 245 | 220 | 230 | 300 | R | R | A | |
| 24 | A | A | F | A | B | A | A | A | U A 300 | 200 | U H 195 | 205 | 200 | 210 | 225 | U H 200 | 225 | 200 | 225 | 235 | 275 | 275 | 250 | 265 | |
| 25 | 325 | 300 | 280 | A | 350 | 230 | 200 | U F 230 | 200 | 190 | 210 | 200 | 200 | 210 | 200 | 230 | 210 | 225 | 210 | H 215 | A | 255 | 240 | 255 | |
| 26 | B | 295 | 400 | F | F | A | 250 | 200 | 200 | 200 | 200 | 215 | H | 225 | 225 | U H 190 | 200 | 205 | 225 | 200 | 225 | 245 | 245 | 240 | 265 |
| 27 | R | R | E A 400 | 410 | U F 310 | U F 350 | A | F | A | 210 | F | 200 | U F 200 | 200 | 225 | B | B | B | 225 | 220 | E A 320 | F | 250 | A | A |
| 28 | A | E R 480 | A | 360 | A | B | A | A | A | H | 200 | 215 | B | B | 230 | 225 | 220 | 220 | B | E A 275 | 225 | 250 | 300 | 300 | |
| 29 | 425 | A | A | B | A | F | B | A | 230 | 245 | 220 | U H 190 | 200 | 235 | 200 | H 230 | Y | 200 | 230 | 225 | 230 | 220 | 330 | U H 340 | |
| 30 | 420 | 350 | 325 | U R 500 | A | 400 | 375 | U H 200 | 210 | 200 | 210 | 200 | 200 | 205 | 215 | 200 | 200 | 205 | 225 | 215 | 220 | 240 | 255 | U H 300 | |
| 31 | R | A | A | 400 | 295 | A | U H 330 | 210 | 210 | 230 | U H 220 | 195 | 220 | 210 | 200 | 200 | 200 | 220 | 215 | 250 | 350 | A | 330 | A | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | 12 | 16 | 14 | 14 | 9 | 11 | 13 | 12 | 16 | 23 | 25 | 23 | 21 | 22 | 27 | 25 | 22 | 25 | 25 | 25 | 25 | 24 | 22 | 19 | |
| MED | 288 | 312 | 309 | 332 | 295 | 260 | 250 | 210 | 208 | 215 | 210 | 205 | 220 | 210 | 215 | 205 | 205 | 210 | 220 | 228 | 235 | 250 | 260 | 265 | |
| UQ | 338 | 348 | 400 | 400 | 310 | 300 | 280 | 242 | 235 | 238 | 225 | 220 | 225 | 225 | 225 | 230 | 220 | 230 | 228 | 238 | 260 | 270 | 295 | 288 | |
| LQ | 262 | 298 | 280 | 300 | 255 | 230 | 225 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 210 | 215 | 225 | 240 | 240 | 255 | |

The Radio Research Laboratories, Japan

JAN. 1975

H^oF (KM)

IONOSPHERIC DATA

JAN. 1975

H^oEs (KM)

45° E Mean Time (G. M. T. + 3h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-------|-----|-------|-----|-----|-----|-----|-------|-------|-------|-------|---|
| 1 | K 160 | K 135 | G | 100 | 100 | 100 | 140 | K 140 | 100 | 130 | 100 | 130 | 100 | 100 | 100 | 100 | 95 | 95 | 100 | 115 | 100 | 160 | 130 | 100 | |
| 2 | 130 | K 155 | K 130 | K 110 | K 120 | K 125 | 95 | G | G | G | G | 105 | 110 | 100 | 100 | 100 | 100 | 100 | G | G | G | G | G | | |
| 3 | 105 | K 130 | 105 | 110 | K 100 | 105 | 100 | 110 | 105 | G | 120 | 105 | 105 | 105 | 100 | 160 | 100 | G | 100 | 160 | 150 | 130 | 140 | K 105 | |
| 4 | K 100 | K 100 | K 100 | K 100 | 95 | 100 | 100 | 100 | 100 | K 100 | K 105 | 115 | B | B | 100 | B | G | G | G | 100 | G | K 105 | K 100 | K 120 | |
| 5 | K 100 | 95 | 100 | 95 | K 100 | 140 | B | B | 100 | 100 | B | B | B | B | B | G | B | B | 160 | 100 | 120 | K 110 | K 100 | K 150 | |
| 6 | B | 100 | 100 | B | B | B | 110 | 100 | B | 150 | 130 | G | G | 105 | 110 | 100 | B | B | 175 | B | G | B | K 100 | 120 | |
| 7 | 100 | K 125 | 100 | K 140 | B | 100 | 100 | 180 | 160 | 100 | 100 | B | B | B | G | 110 | G | B | 130 | 150 | 140 | 140 | 125 | 105 | |
| 8 | 120 | 130 | 125 | K 120 | K 105 | K 130 | 100 | 105 | B | 100 | 95 | B | B | B | 135 | 100 | G | G | G | 100 | 100 | 150 | 180 | K 125 | |
| 9 | 100 | 100 | 115 | K 100 | 115 | 100 | K 100 | 130 | 140 | 150 | 120 | 125 | 115 | 110 | 110 | G | 100 | G | G | 145 | 130 | 120 | G | 100 | |
| 10 | 100 | 140 | 125 | G | 100 | 100 | 100 | 100 | 100 | 125 | 110 | G | B | 115 | B | 110 | 110 | 145 | B | 135 | 125 | 130 | 115 | 130 | |
| 11 | 100 | 140 | C | 100 | 105 | G | 170 | G | G | 100 | G | 100 | G | 100 | 100 | 100 | 100 | 100 | 125 | 105 | 100 | 100 | 100 | 100 | |
| 12 | 100 | 100 | 95 | 160 | K 100 | K 100 | K 100 | K 100 | 100 | G | G | 100 | 120 | 100 | G | G | G | 155 | G | G | 100 | 150 | 130 | 130 | |
| 13 | K 100 | K 140 | K 190 | 100 | 115 | B | 95 | 100 | 150 | 155 | 100 | 110 | B | B | G | B | G | G | 115 | 150 | 130 | 145 | K 110 | 100 | |
| 14 | K 100 | K 100 | 100 | B | 100 | 120 | B | B | 100 | 100 | 100 | B | B | B | 130 | G | B | 100 | B | 100 | 105 | 120 | 160 | B | |
| 15 | 130 | K 100 | 95 | 100 | 90 | 100 | 145 | 100 | 100 | B | G | 130 | 125 | G | 120 | E 130 | G | G | 150 | B | 100 | K 100 | K 170 | K 105 | |
| 16 | K 130 | K 100 | K 155 | 100 | K 100 | K 105 | K 105 | K 130 | K 105 | K 100 | G | 125 | 130 | 115 | 120 | B | B | B | G | G | K 105 | 100 | K 100 | K 150 | |
| 17 | 110 | B | B | K 120 | 100 | 125 | 100 | 155 | B | B | G | 120 | B | B | B | B | B | B | 150 | 155 | 130 | K 100 | G | G | B |
| 18 | B | 120 | 100 | B | 100 | B | 100 | 100 | B | B | K 100 | G | G | B | B | B | B | G | B | B | 140 | 150 | 100 | K 110 | |
| 19 | K 150 | B | K 100 | B | B | B | B | 100 | 100 | 100 | G | B | G | G | 140 | B | B | B | 100 | B | 145 | 145 | B | 125 | |
| 20 | 140 | 125 | B | K 110 | B | B | 130 | K 100 | B | G | B | G | 120 | E 140 | 120 | 110 | 105 | 110 | G | 100 | 120 | G | 110 | 110 | |
| 21 | B | 120 | 100 | 100 | 90 | 100 | 105 | 150 | G | 100 | G | 100 | G | 100 | 100 | 100 | G | G | B | B | G | K 140 | B | K 100 | |
| 22 | K 100 | K 100 | K 100 | 100 | G | E 180 | G | 100 | 110 | 105 | C | 120 | 110 | 110 | 110 | 100 | 105 | G | 125 | G | 100 | K 150 | K 105 | K 120 | |
| 23 | K 120 | 150 | K 105 | K 105 | K 100 | K 100 | 100 | 100 | 100 | G | 105 | G | 125 | 125 | 100 | G | 105 | 120 | G | 180 | 130 | K 105 | K 105 | K 105 | |
| 24 | K 120 | 140 | K 140 | 100 | B | 140 | 110 | 125 | 100 | 105 | G | G | G | G | 100 | B | B | G | G | G | 150 | K 150 | 130 | 130 | |
| 25 | K 150 | 160 | 110 | K 110 | K 100 | 130 | 160 | 110 | 100 | G | G | G | 100 | 105 | 100 | 100 | 95 | 100 | 100 | 100 | 110 | K 105 | G | G | |
| 26 | 130 | 110 | K 110 | K 150 | 105 | 100 | 100 | G | 105 | G | G | 140 | 115 | 110 | 145 | 100 | 105 | 100 | G | 150 | 140 | 125 | G | 140 | |
| 27 | K 100 | K 110 | K 115 | K 190 | K 130 | 150 | 110 | 175 | 100 | 160 | K 100 | G | 110 | B | B | B | B | 105 | 150 | 100 | K 100 | K 100 | 150 | 100 | |
| 28 | 100 | 100 | K 100 | K 100 | 115 | B | 100 | 100 | 110 | 115 | G | 130 | B | B | G | G | G | B | B | 130 | 150 | 130 | 125 | 120 | |
| 29 | 130 | 110 | 115 | B | 100 | K 105 | 150 | 100 | G | 100 | G | 125 | 110 | 110 | 110 | G | B | 105 | 145 | 150 | 125 | C | 120 | 130 | |
| 30 | K 115 | K 110 | K 100 | K 100 | K 100 | K 100 | 150 | 150 | G | 100 | G | G | G | G | G | G | G | G | B | 100 | 100 | 100 | 115 | 140 | |
| 31 | K 120 | K 105 | K 105 | K 100 | K 100 | K 100 | 100 | G | G | 100 | G | 120 | 100 | 110 | 100 | 100 | G | G | G | B | 105 | 100 | K 150 | K 100 | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | 28 | 29 | 27 | 25 | 25 | 24 | 27 | 25 | 21 | 20 | 14 | 17 | 15 | 17 | 21 | 15 | 11 | 12 | 15 | 20 | 27 | 26 | 24 | 27 | |
| MED | 112 | 110 | K 105 | K 100 | 100 | 101 | 100 | 100 | 100 | 100 | 100 | 120 | 110 | 108 | 110 | 100 | 100 | 102 | 125 | 122 | 120 | 128 | 118 | 120 | |
| UQ | K 130 | K 135 | K 115 | K 110 | 105 | 126 | 110 | 130 | 110 | 128 | 110 | 125 | 120 | 110 | 120 | 108 | 105 | 115 | 150 | 150 | 135 | 145 | K 135 | 130 | |
| LQ | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 | 108 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 | 102 | 102 | |

The Radio Research Laboratories, Japan

JAN. 1975

H^oES (KM)

IONOSPHERIC DATA

JAN. 1975

TYPES OF ES

45° E Mean Time (G. M. T. + 3h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|--------|----------|----------|----------|-----------|-----------|----------|-----------|----------|
| 1 | AKL 12 | AL 11 | | L 1 | LH 11 | R 1 | R 1 | HK 11 | R 2 | H 1 | L 1 | H 1 | L 1 | L 1 | L 2 | L 2 | L 2 | L 2 | L 1 | C 1 | L 1 | H 1 | C 1 | LR 11 | |
| 2 | H 1 | HK 11 | CK 13 | K 2 | RK 11 | RK 12 | R 1 | | | | | L 1 | CD 21 | C 2 | C 2 | L 2 | L 3 | L 2 | L 1 | | | | | | |
| 3 | A 1 | CK 13 | R 2 | R 2 | RK 12 | C 2 | C 2 | C 1 | C 1 | | CL 31 | C 3 | C 2 | C 2 | R 1 | HC 11 | L 3 | | LR 11 | H 1 | H 1 | H 2 | A 1 | KA 11 | |
| 4 | K 2 | KL 31 | KL 41 | RK 22 | L 2 | GD 21 | AR 12 | R 2 | R 1 | KL 11 | K 1 | C 1 | | | C 1 | | | | S 1 | RS 11 | | K 3 | K 3 | K 2 | |
| 5 | RKA 11 | L 1 | L 1 | R 2 | RK 11 | R 1 | | | L 1 | L 1 | | | | | | | | | H 1 | RS 11 | R 1 | KS 31 | RK 21 | HK 11 | |
| 6 | | L 2 | K 2 | | | | RL 11 | R 2 | | H 1 | H 1 | | | C 1 | C 1 | R 1 | | | H 1 | | | | RK 12 | R 1 | |
| 7 | R 1 | RKL 11 | L 1 | CKL 11 | | L 1 | R 1 | AR 11 | HL 11 | RL 11 | L 1 | | | | | L 1 | | | H 1 | H 2 | H 1 | HH 11 | H 2 | C 3 | |
| 8 | C 1 | HC 11 | C 1 | CK 21 | CK 22 | HK 12 | R 2 | R 1 | | L 1 | L 1 | | | | H 1 | L 1 | | | | RS 21 | RS 11 | HAL 11 | AL 11 | CK 11 | |
| 9 | RR 12 | RS 21 | CK 12 | K 1 | CAL 11 | LA 21 | RKS 12 | R 1 | RC 11 | HL 11 | H 1 | C 1 | C 1 | C 1 | C 1 | | L 1 | | | H 1 | H 1 | C 1 | C 1 | LH 11 | |
| 10 | LH 11 | HL 11 | RL 11 | | C 1 | L 1 | R 1 | L 1 | L 1 | C 1 | C 1 | | | C 1 | | C 1 | C 1 | H 1 | | H 1 | C 1 | C 1 | C 1 | C 1 | |
| 11 | LH 11 | H 1 | | C 1 | R 2 | | HL 11 | | | L 1 | | C 1 | | LH 11 | C 1 | C 1 | C 1 | LH 11 | H 1 | C 1 | L 2 | L 1 | L 1 | L 2 | |
| 12 | L 4 | C 2 | C 1 | H 1 | K 3 | LK 22 | LK 22 | RK 22 | C 1 | | | L 1 | CL 12 | L 2 | | | | HC 11 | | | L 2 | H 1 | R 1 | RA 11 | |
| 13 | RK 12 | AK 11 | AK 14 | CA 31 | A 1 | S 1 | R 2 | LS 11 | H 1 | RR 11 | R 1 | C 1 | | | | | | | R 1 | C 1 | C 3 | AR 11 | K 2 | RRL 11 | |
| 14 | LK 11 | RKL 11 | R 2 | | RL 11 | AK 12 | | | R 1 | L 1 | R 1 | | | | H 1 | | | | R 1 | | RLS 21 | RS 11 | HH 11 | HR 11 | |
| 15 | C 1 | K 1 | LKH 11 | L 1 | LL 11 | L 1 | HL 12 | R 2 | L 1 | | | H 1 | H 1 | | C 2 | H 1 | | | A 1 | | L 1 | RK 11 | HK 12 | RK 31 | |
| 16 | AK 11 | LKR 11 | CK 11 | R 1 | K 1 | K 1 | K 1 | RK 11 | K 1 | K 1 | | C 1 | H 1 | C 1 | C 1 | | | | | | K 1 | R 3 | K 2 | HKH 11 | |
| 17 | C 1 | | | CK 11 | L 1 | RL 11 | L 1 | H 1 | | | | C 1 | | | | | | | | H 1 | H 1 | HK 11 | | | |
| 18 | | C 1 | L 1 | | L 1 | | L 1 | R 1 | | | K 1 | | | | | | | | | | | H 1 | H 1 | R 1 | K 1 |
| 19 | HK 11 | | RK 11 | | | | | L 1 | R 1 | L 1 | | | | | H 1 | | | | | L 1 | | H 1 | HL 12 | C 1 | |
| 20 | H 1 | H 2 | | RK 11 | | | HL 11 | RK 11 | | | | | C 1 | H 1 | C 1 | C 1 | C 1 | C 1 | | | L 2 | C 1 | | R 1 | R 1 |
| 21 | | CK 12 | R 1 | R 2 | LKR 12 | R 1 | R 2 | HL 11 | | L 2 | | C 1 | | L 1 | L 1 | L 1 | | | | | | | AK 12 | K 1 | |
| 22 | L 1 | K 2 | K 2 | R 2 | | H 1 | | L 1 | C 1 | C 1 | | C 1 | C 1 | C 1 | CH 11 | L 2 | C 1 | | CL 11 | | RS 21 | RK 11 | K 3 | RK 11 | |
| 23 | K 3 | AB 12 | K 2 | RK 21 | K 2 | K 2 | R 1 | R 2 | K 2 | | C 1 | | H 1 | CHL 11 | L 1 | | C 1 | C 1 | | H 1 | A 1 | K 2 | K 2 | RK 11 | |
| 24 | CK 12 | RK 11 | AK 12 | L 1 | | RL 12 | RL 11 | R 1 | R 1 | C 1 | | | | | L 1 | | | | | | RA 21 | HK 11 | C 1 | H 1 | |
| 25 | HKC 13 | HR 12 | R 2 | KL 21 | K 2 | RA 11 | HR 12 | RL 11 | C 1 | | | | C 1 | C 2 | C 2 | L 3 | L 2 | L 2 | L 3 | L 2 | L 2 | L 3 | L 2 | | |
| 26 | R 1 | R 1 | CK 21 | HKL 11 | LA 11 | LC 11 | R 1 | | L 1 | | | H 1 | C 2 | C 2 | HC 11 | C 1 | C 2 | L 2 | | HC 11 | CL 42 | CL 31 | | RL 11 | |
| 27 | K 4 | K 4 | RK 11 | HKR 11 | K 1 | HA 11 | RK 11 | AB 12 | R 1 | AK 11 | R 1 | | CC 12 | | | | | | R 1 | HA 11 | RAS 21 | KS 21 | RK 13 | AR 11 | R 2 |
| 28 | RS 11 | AK 12 | LA 11 | RK 11 | A 1 | | R 1 | R 1 | LR 11 | C 1 | | H 1 | | | | | | | | C 1 | HA 11 | HA 11 | A 1 | R 1 | |
| 29 | A 1 | RL 11 | B 2 | | RA 31 | RK 11 | H 1 | L 1 | | R 2 | | H 1 | C 1 | C 1 | C 1 | | | | R 1 | H 1 | H 1 | C 1 | | R 2 | R 1 |
| 30 | RK 11 | RK 12 | RK 31 | AK 12 | RK 22 | RK 31 | RKR 21 | HL 11 | H 1 | | C 1 | | | | | | | | | L 1 | L 1 | L 1 | C 2 | A 1 | |
| 31 | K 3 | RK 21 | RK 11 | RK 11 | AKL 12 | RK 21 | K 2 | | | R 1 | | HL 11 | LC 11 | C 1 | L 1 | L 1 | | | | | | AK 12 | R 1 | AK 11 | AK 12 |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | | | | | | | | | | | | | | | | | | | | | | | | | |
| MED | | | | | | | | | | | | | | | | | | | | | | | | | |
| UQ | | | | | | | | | | | | | | | | | | | | | | | | | |
| LQ | | | | | | | | | | | | | | | | | | | | | | | | | |

JAN. 1975

TYPES OF ES

IONOSPHERIC DATA

FEB, 1975

FXI (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | R | U S 47 | U S 60 | 48 | 60 | A | A | A | B | A | B | B | R | O R 49 | O R 56 | O R 56 | R | X 43 | 46 | 50 | A | O R 44 | R | |
| 2 | A | A | A | B | B | B | B | B | O R 46 | R | O R 48 | B | B | O R 51 | B | B | O R 61 | R | B | 45 | 42 | 38 | 43 | 39 | |
| 3 | R | R | B | B | B | R | R | B | B | B | R | R | O R 52 | O R 50 | O R 48 | O R 51 | O R 52 | 51 | B | O R 43 | 46 | O R 43 | 35 | 40 | |
| 4 | 33 | 36 | 39 | O R 44 | R | B | R | O R 46 | 52 | B | O R 56 | 57 | 55 | X 53 | X 54 | X 52 | X 51 | X 53 | X 57 | 55 | 49 | O R 36 | 37 | 39 | |
| 5 | 41 | A | A | A | A | R | B | R | 56 | 62 | 60 | 64 | 64 | 62 | 61 | O R 61 | O R 57 | X 54 | B | 52 | A | X 30 | U S 37 | R | |
| 6 | R | R | B | A | R | R | 47 | R | B | 67 | 63 | 63 | O R 64 | O R 61 | 62 | 62 | 59 | O R 58 | X 54 | X 52 | X 51 | X 49 | D S 42 | O R 40 | |
| 7 | U S 39 | 31 | R | A | A | O R 46 | R | R | O R 51 | R | B | R | O R 56 | B | O R 57 | O R 60 | 61 | O R 58 | O R 57 | 57 | 41 | A | A | A | |
| 8 | A | A | R | R | R | 53 | A | R | A | 61 | 51 | 63 | O R 58 | 60 | 58 | O R 56 | O R 56 | 53 | 53 | 56 | 54 | 54 | 53 | 56 | |
| 9 | 53 | 52 | 52 | 43 | A | A | A | R | A | 52 | O R 52 | 52 | 54 | O R 48 | X 50 | X 50 | X 48 | X 49 | X 50 | X 48 | 45 | 47 | 31 | R | |
| 10 | R | U S 45 | R | A | A | 58 | R | A | A | A | R | A | R | O R 46 | O R 48 | X 53 | 55 | O R 47 | R | 47 | A | A | O R 39 | A | |
| 11 | U S 70 | A | B | B | A | B | R | R | R | A | B | B | B | O R 49 | O R 51 | B | X 55 | X 51 | 50 | R | 42 | A | A | A | |
| 12 | A | A | A | O R 40 | B | B | B | R | R | B | B | B | B | B | B | B | O R 55 | O R 46 | O R 45 | O R 43 | R | R | A | A | |
| 13 | A | B | A | B | B | B | B | A | B | R | B | B | X 54 | O R 53 | B | O R 52 | O R 57 | 50 | 41 | 46 | U S 48 | A | 39 | B | |
| 14 | A | B | A | B | R | O R 41 | B | B | A | B | O R 47 | 48 | B | B | O R 52 | B | B | R | B | 40 | B | 33 | A | B | |
| 15 | B | A | B | B | B | R | R | R | A | B | X 46 | O R 54 | B | B | 51 | B | B | O R 50 | 57 | O R 45 | 37 | O R 31 | A | A | |
| 16 | A | B | A | R | R | B | O R 47 | 65 | R | B | B | B | B | O R 52 | B | O R 53 | B | X 57 | 49 | 37 | O R 50 | 40 | A | A | |
| 17 | A | A | A | A | B | R | R | B | B | R | B | B | B | B | O R 54 | 55 | O R 53 | O R 47 | O R 47 | O R 47 | 50 | R | 32 | O R 26 | |
| 18 | A | A | A | A | 56 | B | B | A | B | B | R | B | B | O R 46 | O R 47 | O R 48 | 48 | R | O R 46 | O R 45 | 46 | 40 | 31 | 22 | |
| 19 | A | A | A | 45 | A | R | R | A | A | O R 46 | 46 | 44 | B | B | B | B | B | B | 50 | O R 46 | O R 46 | 42 | 25 | R | |
| 20 | A | U S 50 | A | A | B | O R 44 | A | X 49 | 56 | X 54 | X 54 | X 54 | X 56 | O R 60 | R | X 58 | X 54 | O R 49 | X 50 | X 50 | X 50 | X 46 | X 49 | X 37 | |
| 21 | R | R | A | A | A | B | A | A | A | 52 | O R 50 | 62 | O R 56 | X 58 | X 56 | X 56 | 48 | X 52 | X 50 | X 49 | 47 | 40 | 29 | A | |
| 22 | A | A | R | U S 60 | 45 | A | A | 47 | 51 | 53 | 53 | 53 | X 56 | X 54 | X 55 | X 52 | X 52 | X 49 | X 50 | 45 | 39 | R | A | 30 | |
| 23 | A | A | U S 52 | A | 50 | A | O R 40 | 45 | O R 43 | 49 | B | B | O R 52 | A | 68 | 75 | 92 | 52 | A | R | 67 | 32 | A | A | |
| 24 | R | U S 48 | U S 60 | A | A | 40 | A | R | O R 42 | 48 | 51 | 49 | X 50 | X 51 | 62 | X 50 | X 50 | O R 47 | B | 40 | 33 | 40 | A | A | |
| 25 | A | A | A | U S 28 | A | B | A | Y | R | B | B | O R 47 | O R 48 | B | O R 53 | B | R | B | B | A | O R 43 | O R 37 | 31 | 30 | |
| 26 | A | A | U S 40 | 40 | R | 46 | A | R | 60 | 65 | 53 | 51 | X 52 | X 52 | X 53 | O R 53 | X 49 | X 48 | O R 47 | X 47 | 42 | 40 | 30 | 30 | |
| 27 | 30 | 28 | 30 | 30 | U S 40 | U S 45 | U S 47 | 47 | R | 52 | B | O R 52 | O R 55 | 58 | 54 | 49 | X 52 | X 49 | 50 | O R 46 | O R 42 | O R 40 | 45 | 40 | |
| 28 | 36 | U S 31 | R | O R 37 | A | O R 45 | A | R | 57 | 63 | 56 | 61 | X 52 | X 57 | 60 | 60 | X 56 | X 55 | 50 | X 51 | X 48 | 46 | R | C | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hour | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | 7 | 8 | 7 | 10 | 5 | 10 | 4 | 6 | 10 | 13 | 15 | 16 | 17 | 19 | 23 | 21 | 23 | 22 | 20 | 25 | 24 | 20 | 18 | 12 | |
| MED | 39 | 38 | U S 49 | 42 | 48 | 46 | 47 | 47 | 52 | 53 | 52 | 54 | 55 | O R 53 | 54 | 53 | 55 | 50 | 50 | 46 | 46 | 40 | 37 | 38 | |
| UQ | 47 | U S 48 | U S 52 | 45 | 50 | 53 | 47 | 49 | 56 | 62 | 55 | 62 | O R 56 | 58 | 58 | 56 | 56 | X 53 | 52 | X 50 | 50 | 44 | 44 | 40 | |
| LQ | 34 | 31 | 40 | 37 | 45 | O R 44 | 44 | 46 | O R 46 | 52 | 49 | 50 | X 52 | O R 50 | O R 51 | X 52 | X 50 | 49 | 47 | 45 | 42 | 36 | 31 | 30 | |

The Radio Research Laboratories, Japan

FEB, 1975

FXI (0.1 MHz)

IONOSPHERIC DATA

FEB, 1975

FOF2 (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69 00.4' S, Long. 39 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | R | F | F | F | F | A | A | A | B | A | B | B | R | 43 | U F 46 | 50 | R | F 37 | U F 37 | F 39 | A | F | R | |
| 2 | A | A | A | B | B | B | B | B | F | R | F 42 | B | B | U R 45 | B | B | 55 | B | B | U F 36 | F 36 | F 31 | F 36 | F 32 | |
| 3 | A | A | B | B | B | R | A | A | A | A | R | R | 46 | 44 | 42 | 45 | 46 | 45 | B | 37 | 38 | F 35 | F 29 | J F 32 | |
| 4 | F 26 | U F 27 | 33 | U H 38 | R | B | R | 40 | F 46 | B | U F 46 | U F 47 | F 48 | 47 | 48 | 46 | 45 | 47 | 51 | F 48 | U F 38 | F 29 | F 30 | U S 33 | |
| 5 | U F 29 | A | A | A | A | R | B | R | F 47 | U F 49 | F 50 | F 58 | F 56 | F 54 | 55 | 55 | 51 | F 48 | B | U F 46 | A | 24 | F 31 | R | |
| 6 | R | R | B | A | B | R | F 40 | A | B | U F 49 | U F 52 | U F 53 | F 54 | 55 | F 56 | F 55 | F 52 | F 50 | 48 | 46 | 45 | 43 | U F 28 | U F 32 | |
| 7 | F | F 25 | R | A | A | F 39 | R | R | 45 | R | B | R | F 46 | B | 51 | F 52 | U F 54 | 52 | 51 | U F 47 | F 28 | A | A | A | |
| 8 | A | A | R | R | R | F | A | R | A | U F 50 | 45 | F 52 | U H 51 | 51 | 50 | 50 | 50 | F 47 | F 46 | F 50 | F 48 | 47 | 47 | 50 | |
| 9 | S 47 | 46 | 46 | S 37 | A | A | A | A | A | F 45 | 46 | U F 44 | 48 | 42 | 44 | 43 | 42 | 42 | 44 | 41 | F 37 | F 38 | F | R | |
| 10 | R | F | R | A | A | F | R | A | A | A | R | A | R | U F 40 | U F 42 | 47 | 49 | 41 | R | 33 | A | A | F 28 | A | |
| 11 | U F 25 | A | B | B | A | B | R | A | R | A | A | A | B | 43 | 45 | B | 49 | 45 | F 42 | A | F | A | A | A | |
| 12 | A | A | A | U F 33 | B | B | B | R | R | B | B | B | B | B | B | B | F 46 | F | F | F | 37 | A | R | A | A |
| 13 | A | B | A | B | B | B | B | A | B | R | B | B | 48 | 47 | B | 46 | 51 | F 42 | E G 34 | F 34 | F 35 | A | U F 31 | B | |
| 14 | A | B | A | B | R | F 32 | B | B | A | B | F 41 | B | B | B | 46 | B | B | R | B | F 33 | B | F 28 | A | B | |
| 15 | B | A | B | B | B | R | R | R | A | B | U R 40 | 46 | B | B | F 45 | B | B | 44 | 41 | 39 | F | F 23 | A | A | |
| 16 | A | B | A | R | R | B | U F 39 | F | R | B | B | B | B | 46 | B | 55 | R | 50 | 41 | F | 44 | F | A | A | |
| 17 | A | A | A | A | B | R | R | B | B | R | B | B | B | B | 48 | F 49 | 47 | 41 | 41 | 41 | F 42 | R | F | F | |
| 18 | A | A | A | A | F | B | B | A | B | B | R | B | B | 40 | 41 | 42 | 43 | B | 40 | F 38 | U F 37 | U F 28 | U F 24 | F | |
| 19 | A | A | A | A | A | A | R | A | A | F | F | F | B | B | B | B | B | B | F 43 | 40 | 40 | F 35 | F | R | |
| 20 | A | F | A | A | B | U F 34 | A | U H 43 | F 47 | 48 | 48 | 48 | 50 | 54 | 52 | 48 | 43 | 44 | 44 | 44 | 44 | 40 | 42 | Z 31 | |
| 21 | R | R | A | A | A | B | A | A | A | 45 | F 44 | F 45 | 50 | 51 | 50 | 50 | 42 | 46 | 44 | 42 | F 35 | F | F | A | |
| 22 | A | A | R | F | F | A | A | F 41 | F 40 | F 46 | F 46 | F 48 | 50 | 48 | 49 | 46 | 46 | 43 | 43 | F 37 | F 32 | A | A | F | |
| 23 | A | A | U F 35 | A | F | A | U F 32 | U F 36 | F 36 | F 42 | B | B | 46 | A | F | F | F | U F 46 | A | R | F | U F 25 | A | A | |
| 24 | R | F | U F 26 | A | A | F | A | A | F 36 | F 40 | F 44 | F 42 | 44 | 45 | F 45 | 44 | 43 | R 41 | B | F 32 | F | U F 27 | A | A | |
| 25 | A | A | A | F | A | B | A | Y | R | B | B | F 40 | 42 | B | R 47 | R | R | R | B | A | F 34 | F 30 | F | F | |
| 26 | A | A | F | F | R | J F 37 | A | A | F 50 | F 50 | F 46 | F 44 | 46 | 46 | 47 | 47 | 43 | 42 | 41 | 40 | 36 | U F 30 | F | F | |
| 27 | F | F 18 | U F 22 | F 20 | F | U F 26 | U F 37 | F 40 | R | F 46 | B | U R 46 | U F 48 | F 50 | F 48 | 43 | 46 | 42 | F 43 | 40 | F 35 | F 34 | U F 34 | U F 28 | |
| 28 | U F 28 | F | R | F | A | F | A | R | U F 47 | U F 48 | U F 47 | F 45 | 46 | 51 | 54 | 53 | 50 | 49 | F 43 | 45 | F 40 | J F 38 | R | C | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | 5 | 4 | 5 | 4 | | 5 | 4 | 5 | 9 | 12 | 13 | 14 | 17 | 19 | 22 | 20 | 22 | 21 | 19 | 24 | 20 | 18 | 11 | 7 | |
| MED | U F 28 | F 26 | U F 35 | 35 | | F 34 | U F 38 | F 40 | F 46 | F 47 | F 46 | F 46 | 48 | 47 | 48 | 47 | 46 | 45 | 43 | 40 | F 38 | F 30 | F 31 | F 32 | |
| UQ | U F 29 | 36 | 35 | 38 | | F 37 | F 40 | 41 | F 47 | U F 49 | F 47 | F 48 | 50 | 51 | 51 | 51 | 50 | 47 | 44 | 44 | 41 | F 38 | F 35 | 32 | |
| LQ | U F 26 | F 22 | U F 26 | F 26 | | U F 32 | U F 34 | F 40 | F 40 | F 45 | F 44 | F 44 | 46 | 44 | 45 | 46 | 43 | 42 | 41 | F 37 | F 35 | F 28 | F 28 | F 32 | |

FEB, 1975

FOF2 (0.1 MHz)

IONOSPHERIC DATA

FEB. 1975

FOF1 (0.01 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station **SYOWA** STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | B | A | B | B | R | 370 | 370 | F | B | R | | L | | | |
| 2 | | | | | | | B | B | F | 360 | 360 | B | B | | 380 | B | B | B | B | | | | | |
| 3 | | | | | | | A | B | B | B | 370 | 380 | 380 | 390 | 380 | 370 | 380 | 360 | B | | L | | | |
| 4 | | | | | | | A | 360 | 370 | F | B | 380 | 390 | 400 | 390 | 400 | L | 390 | 370 | H | 360 | U | L | L |
| 5 | | | | | | | B | A | F | 350 | 380 | 380 | 390 | 390 | 390 | 400 | 390 | B | | | | | | |
| 6 | | | | | | A | 330 | A | B | 360 | 390 | F | 390 | U | R | B | 400 | 400 | 400 | 380 | U | L | L | L |
| 7 | | | | | 330 | | A | A | A | A | B | R | 400 | B | B | B | 400 | B | B | B | L | | | |
| 8 | | | | | | | A | A | A | F | U | R | F | 380 | 380 | 390 | I | B | 380 | U | H | L | L | L |
| 9 | | | | | | | A | A | A | 380 | A | U | F | 380 | 390 | 400 | 400 | L | L | L | U | L | L | L |
| 10 | | | | | | U | F | A | A | A | R | A | U | R | 380 | 380 | 370 | 370 | F | U | F | | | |
| 11 | | | | | | | A | A | A | A | B | B | B | | 380 | 380 | B | 380 | 370 | 350 | | | | |
| 12 | | | | | | | B | A | A | B | B | B | B | B | B | B | B | 370 | U | F | F | | | |
| 13 | | | | | | | B | A | B | A | B | B | 370 | B | B | B | B | B | L | U | F | | L | |
| 14 | | | | | | | B | B | A | B | 360 | 370 | B | B | U | R | B | B | 350 | R | B | | | |
| 15 | | | | | | | A | A | A | B | 360 | 370 | B | B | 380 | B | B | B | 360 | 340 | | | | |
| 16 | | | | | | | U | F | A | B | B | B | B | 370 | B | B | B | B | 350 | L | | | | |
| 17 | | | | | | U | F | B | B | 360 | B | B | B | B | 360 | 370 | 370 | L | | | | | | |
| 18 | | | | | | | B | A | B | B | 350 | B | B | 370 | 370 | 360 | 360 | R | | L | | | | |
| 19 | | | | | | | A | A | A | U | R | 360 | 360 | B | B | B | B | B | B | L | | | | |
| 20 | | | | | | | A | 320 | 350 | F | 360 | 370 | 370 | 380 | B | 390 | 380 | L | | | | | | |
| 21 | | | | | | | A | A | A | 350 | 360 | 370 | 370 | 380 | 380 | 380 | | L | L | | | | | |
| 22 | | | | | | | A | 320 | 350 | F | 350 | 360 | 360 | 370 | 380 | 380 | 380 | 360 | L | L | L | | | |
| 23 | | | | | | | A | 300 | 330 | 340 | B | B | 350 | A | 350 | A | 350 | | | | | | | |
| 24 | | | | | | | A | A | 330 | 340 | 360 | 360 | 360 | 370 | 380 | 370 | 360 | L | | | | | | |
| 25 | | | | | | | A | Y | R | B | B | 360 | B | B | B | B | B | R | B | | | | | |
| 26 | | | | | | | A | A | 320 | F | 350 | 370 | 370 | 380 | 380 | 380 | 380 | L | L | | | | | |
| 27 | | | | | | | L | 330 | F | 330 | U | F | B | 370 | 370 | 380 | 380 | L | 350 | | L | | | |
| 28 | | | | | | | A | A | 340 | F | 350 | 370 | 380 | 380 | 380 | 380 | 380 | L | U | L | L | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| CNT | | | | | | 1 | 3 | 6 | 10 | 15 | 16 | 17 | 17 | 16 | 21 | 15 | 15 | 11 | 7 | 1 | | | | |
| MED | | | | | 330 | U | F | 325 | F | 345 | 360 | 365 | 370 | 380 | 380 | 380 | 380 | 370 | 360 | 350 | U | L | | |
| UQ | | | | | | 340 | 330 | F | 350 | F | 360 | 375 | 380 | 390 | 390 | 390 | 385 | 380 | 370 | 360 | | | | |
| LQ | | | | | | 320 | 320 | F | 330 | F | 350 | 360 | 370 | 370 | 380 | 370 | 370 | 360 | 350 | 340 | | | | |

The Radio Research Laboratories, Japan

FEB. 1975

FOF1 (0.01 MHz)

IONOSPHERIC DATA

FEB. 1975

FOE (0.01 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69 00.4' S, Long. 39 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | 400 | U K 250 | U K 220 | K 220 | A | A | A | A | B | A | B | B | B | B | 250 | B | A | 220 | 230 | F | A | 200 | U K 310 | 360 |
| 2 | A | A | U K 350 | B | B | B | B | B | 275 | 275 | 270 | B | B | B | B | B | B | B | B | B | A | 195 | 280 | U K 210 | |
| 3 | U K 210 | 350 | B | B | B | A | B | B | B | B | 280 | 290 | B | 270 | 260 | 250 | 220 | A | B | B | B | B | 150 | 165 | |
| 4 | A | 190 | 290 | U K 290 | U K 280 | B | A | U A 290 | 305 | B | A | 275 | 265 | 270 | A | A | 240 | 235 | 220 | 190 | U F 190 | B | B | U F 120 | |
| 5 | K 190 | 380 | A | A | A | U K 340 | B | A | 260 | 265 | 270 | R | 280 | 280 | 275 | B | B | 250 | B | B | A | 150 | 180 | 320 | |
| 6 | K 340 | 290 | B | A | B | A | A | A | B | A | 275 | 280 | B | B | B | U B 290 | A | B | 240 | 200 | U A 200 | U F 170 | 120 | 315 | |
| 7 | U K 230 | U K 190 | 300 | A | A | 265 | A | A | A | A | B | A | R | B | B | B | B | B | B | B | 200 | F | 380 | F | U K 340 |
| 8 | A | A | U K 330 | U K 310 | A | U F 230 | A | A | A | A | A | 270 | B | U R 290 | 290 | B | B | R | R | 230 | 205 | 170 | U B 145 | B | 100 |
| 9 | A | U A 100 | 100 | A | A | A | A | A | A | A | A | 290 | A | 295 | 270 | 255 | 250 | 240 | U A 215 | U A 190 | 130 | 110 | A | U K 350 | |
| 10 | K 360 | A | K 340 | B | A | 140 | A | A | A | A | A | A | A | 290 | 280 | 275 | 270 | U B 240 | K 355 | H 220 | A | A | K 200 | K 370 | |
| 11 | K 190 | A | B | B | B | B | B | A | B | A | B | B | B | B | B | B | H 250 | 245 | 200 | A | K 350 | A | K 410 | A | |
| 12 | A | B | A | 270 | B | B | B | A | A | B | B | B | B | B | B | B | 270 | 250 | B | A | A | 380 | 340 | U 350 | |
| 13 | A | B | U K 400 | B | B | B | B | A | B | A | B | B | B | B | B | B | B | 230 | 280 | 170 | H 140 | U A 140 | A | U K 250 | B |
| 14 | K 400 | B | B | B | B | U R 230 | B | B | B | B | 270 | 280 | B | B | A | B | B | B | B | A | B | 150 | 390 | K | B |
| 15 | B | 370 | B | B | B | A | A | A | B | B | R | 300 | B | B | A | B | B | R | B | B | 120 | 125 | 250 | K | A |
| 16 | K 320 | B | K 390 | A | K 280 | B | K 345 | U A 290 | A | A | A | A | B | B | B | B | B | 250 | 205 | 280 | K 350 | U K 310 | 440 | U K 350 | |
| 17 | A | A | A | B | B | A | A | B | B | A | B | B | B | B | B | 270 | B | 240 | B | B | B | U K 195 | U F 120 | U F 120 | |
| 18 | K 320 | 350 | A | A | 275 | B | B | B | B | B | 280 | B | B | B | U R 280 | R 260 | 245 | B | B | B | 130 | 120 | A | A | |
| 19 | K 350 | B | K 370 | 290 | A | K 370 | K 340 | A | B | A | U F 265 | 280 | B | B | B | B | B | R | 205 | B | B | 135 | U A 110 | 310 | |
| 20 | K 310 | U K 225 | A | A | B | K 325 | A | A | 270 | H 250 | H 260 | 260 | 260 | B | B | 245 | B | A | A | A | 130 | 120 | C | S | |
| 21 | 300 | 300 | A | B | A | B | A | A | A | A | A | 260 | B | A | A | A | 230 | U A 205 | 195 | 140 | U B 115 | A | 200 | K 220 | |
| 22 | K 320 | 270 | K 290 | A | A | A | A | 270 | U A 265 | 240 | 250 | 255 | 255 | A | 250 | A | 225 | 220 | 190 | 180 | F 170 | A | A | F 110 | |
| 23 | K 350 | A | U K 210 | A | A | B | 240 | 230 | 285 | 270 | B | B | B | 280 | 250 | B | B | K 400 | A | A | A | 110 | 200 | K 250 | |
| 24 | K 310 | A | A | A | A | A | A | A | A | 250 | 270 | 260 | 250 | 250 | 250 | 245 | 240 | B | B | 230 | 125 | 120 | 360 | K 320 | |
| 25 | K 250 | A | A | A | A | B | A | A | A | B | B | R | B | B | B | B | B | B | B | 320 | A | A | U F 125 | 130 | |
| 26 | A | K 250 | A | A | U K 280 | A | B | A | 225 | 250 | 250 | 250 | 250 | A | A | A | 245 | A | B | B | B | B | A | U A 90 | |
| 27 | A | A | A | A | A | A | 140 | 195 | B | U A 240 | B | A | A | A | A | H 255 | 230 | 225 | 200 | B | B | B | B | A | |
| 28 | A | A | K 290 | K 230 | A | K 360 | A | A | 255 | U A 250 | H 260 | 250 | 255 | U A 250 | A | U A 250 | 230 | 210 | 180 | 150 | 120 | F | A | C | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CNT | 16 | 13 | 13 | 6 | 5 | 8 | 4 | 5 | 8 | 10 | 12 | 14 | 7 | 9 | 10 | 11 | 13 | 15 | 14 | 13 | 15 | 17 | 18 | 20 | |
| MED | 315 | 290 | K 300 | 280 | K 280 | 295 | 290 | 270 | 268 | 250 | 270 | 272 | 255 | 280 | 265 | 255 | 240 | 240 | 210 | 200 | 140 | 150 | K 225 | 280 | |
| UQ | K 345 | K 350 | K 350 | U K 290 | U K 280 | K 350 | K 342 | U A 290 | 280 | 270 | 272 | 280 | 262 | 290 | 280 | 265 | 250 | 248 | 230 | 230 | 195 | 195 | 340 | K 345 | |
| LQ | 240 | 225 | 290 | 230 | 275 | 230 | 190 | 230 | 258 | 250 | 260 | 260 | 252 | 270 | 250 | 250 | 230 | 225 | 200 | 180 | 128 | 120 | 150 | 125 | |

FEB. 1975

FOE (0.01 MHz)

IONOSPHERIC DATA

FEB, 1975

FOES (0.1 MHz)

45 E Mean Time (G. M. T. + 3 h)

Station **SYOWA STATION** Lat. 69 00.4 S, Long. 39 35.4 E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---|
| 1 | J A 52 | K 40 | J A 31 | 35 | 36 | 38 | J A 53 | J A 59 | 48 | B | J A 101 | B | B | E B 35 | E B 30 | G | E B 44 | 28 | 29 | G | J A 33 | J A 41 | J A 25 | K 36 | |
| 2 | 43 | 44 | 39 | B | B | B | B | B | G | G | G | B | B | E B 33 | B | B | E B 46 | B | B | 29 | 30 | G | K 28 | J A 31 | |
| 3 | 30 | K 35 | 92 | B | B | 36 | 45 | B | B | B | G | G | E B 34 | G | 30 | 28 | 40 | 27 | B | E B 29 | E B 22 | 30 | G | J A 22 | |
| 4 | 20 | 27 | J A 31 | 32 | 33 | 45 | 39 | 35 | 31 | B | 31 | G | G | G | J A 31 | 46 | J A 49 | G | G | G | 23 | G | E B 13 | J A 24 | |
| 5 | 41 | D S 58 | 49 | 47 | 51 | 38 | B | 40 | G | G | G | G | G | G | 30 | E B 33 | E B 44 | G | B | 33 | 46 | G | 25 | K 32 | |
| 6 | K 34 | K 29 | B | J A 65 | 40 | 37 | 36 | 44 | B | 29 | G | G | E B 30 | E B 46 | E B 33 | G | 27 | 33 | 36 | 23 | G | J A 20 | 32 | | |
| 7 | 33 | 28 | 32 | 42 | 53 | K 26 | 40 | 42 | 40 | 39 | B | 48 | G | B | E B 46 | E B 45 | E B 32 | E B 45 | 51 | 35 | G | K 38 | J A 35 | 47 | |
| 8 | J A 61 | J A 46 | 43 | J A 34 | 40 | 30 | 61 | 40 | 52 | J A 54 | 38 | 30 | E B 34 | G | G | E B 43 | E B 31 | G | G | G | 25 | 19 | E B 15 | 15 | |
| 9 | 20 | J A 24 | J A 25 | 29 | J A 56 | 47 | 50 | J A 43 | 52 | J A 46 | 47 | 30 | 36 | 33 | 40 | 30 | G | G | J A 24 | 21 | 30 | 18 | 26 | J A 35 | |
| 10 | K 36 | J A 34 | K 34 | 75 | 47 | J A 38 | J A 62 | J A 55 | J A 65 | J A 71 | 35 | 52 | 32 | G | G | 28 | G | 30 | K 35 | G | J A 40 | 36 | J A 29 | K 37 | |
| 11 | J A 96 | 41 | B | 70 | 53 | B | 38 | 47 | 41 | J A 62 | B | B | B | E B 32 | E B 32 | B | G | G | G | 42 | K 35 | 58 | K 41 | J A 61 | |
| 12 | 95 | 50 | 50 | J A 65 | B | B | 41 | 39 | 40 | B | B | B | B | B | B | B | 30 | 36 | 25 | 27 | J A 41 | K 40 | 59 | 51 | |
| 13 | 47 | B | K 40 | B | B | B | B | J A 56 | B | 42 | B | B | B | E B 32 | E B 44 | B | E B 43 | E B 45 | 31 | 33 | 44 | 25 | J A 62 | 30 | B |
| 14 | 43 | B | 37 | B | 29 | J A 76 | B | B | 47 | B | G | G | B | B | 32 | B | B | E B 33 | B | 29 | B | 26 | 39 | 84 | |
| 15 | B | J A 64 | B | B | B | 35 | 38 | 38 | 52 | B | G | 26 | B | B | 28 | B | B | G | E B 28 | E B 29 | 22 | G | J A 35 | 43 | |
| 16 | J A 54 | B | K 39 | 32 | 32 | B | K 34 | 34 | J A 33 | B | B | B | B | E B 30 | B | E B 46 | B | G | 29 | J A 34 | 40 | J A 106 | 53 | 47 | |
| 17 | 49 | 44 | J A 50 | 50 | B | 30 | 35 | B | B | 31 | B | B | B | B | E B 34 | 30 | E B 31 | 28 | E B 26 | E B 26 | J A 64 | 29 | 17 | 26 | |
| 18 | K 32 | K 36 | J A 40 | 42 | J A 47 | B | B | 46 | B | B | 33 | B | B | E B 30 | G | G | G | B | E B 26 | E B 21 | J A 34 | 27 | 17 | 25 | |
| 19 | 42 | 58 | 42 | 31 | J A 49 | 40 | K 34 | 46 | 46 | 37 | 30 | G | B | B | B | B | B | B | 23 | E B 27 | E B 27 | G | J A 34 | K 31 | |
| 20 | J A 84 | J A 65 | 47 | 52 | B | K 33 | 41 | 45 | 30 | G | G | 71 | 30 | E B 50 | E B 32 | 26 | E B 29 | 26 | 30 | 25 | 17 | 14 | J A 24 | 17 | |
| 21 | K 30 | 32 | J A 59 | 47 | 47 | B | 43 | 47 | 50 | J A 45 | 31 | G | E B 30 | 27 | 30 | 32 | G | 23 | 29 | 29 | 20 | 30 | J A 34 | 35 | |
| 22 | 32 | 32 | 30 | J A 77 | 63 | 53 | 42 | J A 40 | 29 | J A 64 | G | J A 33 | 28 | 37 | J A 33 | J A 32 | 30 | 20 | J A 32 | G | 20 | 31 | 32 | J A 30 | |
| 23 | K 35 | J A 39 | D S 69 | 53 | 32 | 45 | 30 | J A 34 | J A 62 | G | B | B | B | E B 28 | 51 | G | E B 33 | 44 | 43 | 28 | 28 | J A 25 | J A 44 | J A 37 | |
| 24 | 38 | J A 73 | D S 92 | J A 57 | J A 54 | 37 | 75 | 40 | 30 | G | G | J A 32 | J A 66 | 33 | J A 52 | 35 | G | E B 33 | B | 34 | 20 | J A 24 | K 36 | 39 | |
| 25 | D S 58 | J A 109 | 101 | J A 43 | 45 | B | J A 62 | 67 | 30 | B | B | G | E B 38 | B | E B 43 | B | E B 28 | B | B | J A 44 | 22 | J A 28 | 29 | 32 | |
| 26 | 39 | J A 96 | J A 64 | J A 50 | J A 36 | 28 | 45 | J A 42 | 25 | J A 35 | G | G | G | 35 | 36 | 41 | 34 | 25 | E B 23 | E B 23 | E B 15 | 13 | 42 | 25 | |
| 27 | J A 22 | J A 26 | J A 24 | J A 23 | J A 22 | J A 60 | 33 | 30 | E B 26 | 40 | B | 29 | 29 | J A 44 | 63 | G | G | G | G | E B 24 | E B 17 | E B 24 | J A 41 | J A 24 | |
| 28 | J A 25 | J A 33 | K 29 | J A 31 | J A 42 | K 36 | 45 | 43 | 25 | 75 | G | 38 | G | 28 | 29 | 27 | G | 24 | G | G | 18 | J A 23 | 28 | C | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | 27 | 25 | 25 | 23 | 21 | 20 | 23 | 24 | 23 | 19 | 19 | 19 | 18 | 21 | 23 | 21 | 24 | 24 | 22 | 28 | 27 | 28 | 28 | 26 | |
| MED | 39 | 40 | 40 | 47 | 45 | 38 | 41 | 42 | 40 | 39 | G | 26 | E G 30 | E G 33 | U 30 | U 30 | E G 30 | U 24 | 26 | U 25 | 24 | 26 | 30 | 32 | |
| UQ | 50 | 58 | 50 | 55 | 51 | 45 | 48 | 46 | 49 | J A 50 | 32 | 36 | U 32 | U 35 | 34 | U 38 | E B 37 | U 30 | 30 | 34 | 34 | 34 | 38 | 39 | |
| LQ | 32 | 32 | 32 | 33 | 36 | 34 | 37 | 40 | 30 | E G 29 | G | G | G | E G 27 | 29 | 27 | G | G | G | E G 21 | 20 | 14 | 24 | 25 | |

The Radio Research Laboratories, Japan

FEB, 1975

FOES (0.1 MHz)

IONOSPHERIC DATA

FEB, 1975

F=MIN (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|--------|----|----|--------|--------|----|----|----|--------|----|----|----|----|--------|----|--------|----|----|----|----|--------|----|--------|--------|--|
| 1 | 9 | 11 | 8 | 10 | 9 | 9 | 10 | 10 | 15 | B | 10 | B | B | 35 | 30 | 22 | 44 | 15 | 12 | 10 | 10 | 8 | 15 | 12 | |
| 2 | 14 | 15 | 9 | B | B | B | B | B | 19 | 16 | 16 | B | B | 33 | B | B | 46 | B | B | 22 | E C 10 | 14 | 10 | 8 | |
| 3 | 9 | 10 | 45 | B | B | 21 | 31 | B | B | B | 16 | 23 | 34 | 16 | 13 | 14 | 18 | 9 | B | 29 | 22 | 19 | 12 | 10 | |
| 4 | 10 | 9 | 10 | 14 | 15 | 41 | 10 | 12 | 11 | B | 15 | 10 | 12 | 10 | 9 | 9 | 9 | 9 | 15 | 10 | E C 11 | 17 | 13 | 9 | |
| 5 | 10 | 14 | 15 | E S 13 | 15 | 18 | B | 18 | 9 | 10 | 9 | 23 | 20 | 16 | 21 | 33 | 44 | 21 | B | 21 | 16 | 13 | 10 | 9 | |
| 6 | 10 | 11 | B | 16 | 36 | 14 | 11 | 18 | B | 17 | 20 | 20 | 30 | 46 | 33 | 29 | 25 | 28 | 20 | 13 | 13 | 11 | 8 | 10 | |
| 7 | 9 | 9 | 11 | 20 | 10 | 24 | 22 | 12 | 16 | 22 | B | 15 | 28 | B | 46 | 45 | 32 | 45 | 27 | 20 | 12 | 10 | 12 | 15 | |
| 8 | 10 | 8 | 13 | 14 | 22 | 10 | 21 | 15 | 14 | 13 | 16 | 12 | 34 | 15 | 21 | 43 | 31 | 21 | 16 | 14 | 14 | 14 | 15 | 9 | |
| 9 | 7 | 8 | 8 | 8 | 10 | 22 | 16 | 19 | 20 | 12 | 10 | 15 | 10 | 10 | 12 | 10 | 11 | 10 | 10 | 9 | 9 | 10 | 9 | 10 | |
| 10 | 9 | 7 | 9 | 35 | 11 | 10 | 8 | 17 | 10 | 10 | 23 | 15 | 25 | 17 | 23 | 23 | 23 | 24 | 9 | 10 | 10 | 9 | 9 | 10 | |
| 11 | 10 | 11 | B | 59 | 22 | B | 26 | 24 | 30 | 16 | B | B | B | 32 | 32 | B | 20 | 20 | 11 | 11 | 15 | 10 | 11 | 8 | |
| 12 | 9 | 20 | 9 | 8 | B | B | 36 | 15 | 15 | B | B | B | B | B | B | B | 26 | 20 | 23 | 20 | 11 | 13 | 14 | 20 | |
| 13 | 12 | B | 29 | B | B | B | B | 22 | B | 16 | B | B | 29 | 44 | B | 43 | 45 | 11 | 10 | 10 | 10 | 8 | 9 | B | |
| 14 | 18 | B | 20 | B | 24 | 20 | B | B | 32 | B | 11 | 10 | B | B | 27 | B | B | 33 | B | 13 | B | 9 | 9 | 33 | |
| 15 | B | 15 | B | B | B | 20 | 22 | 20 | 26 | B | 22 | 19 | B | B | 22 | B | B | 21 | 25 | 27 | 11 | 12 | 9 | 9 | |
| 16 | E C 15 | B | 12 | 12 | 10 | B | 10 | 13 | 15 | B | B | B | B | 30 | B | 46 | B | 24 | 15 | 13 | 12 | 10 | 15 | 13 | |
| 17 | 11 | 8 | 16 | 23 | B | 17 | 15 | B | B | 20 | B | B | B | B | 34 | 25 | 31 | 21 | 26 | 26 | 12 | 15 | 8 | 8 | |
| 18 | 9 | 10 | 16 | 8 | E C 10 | B | B | 32 | B | B | 25 | B | B | 30 | 23 | 22 | 11 | B | 26 | 21 | 12 | 10 | 8 | 9 | |
| 19 | 13 | 24 | 9 | E C 10 | 12 | 24 | 26 | 24 | 28 | 20 | 15 | 22 | B | B | B | B | B | B | 17 | 27 | 27 | 13 | 8 | 9 | |
| 20 | 16 | 12 | 10 | 15 | B | 11 | 14 | 11 | 10 | 9 | 10 | 10 | 10 | 50 | 32 | 21 | 29 | 20 | 15 | 12 | 10 | 10 | E C 19 | E S 12 | |
| 21 | 9 | 16 | 9 | 22 | 15 | B | 21 | 21 | 16 | 12 | 20 | 18 | 30 | 23 | 11 | 22 | 20 | 10 | 10 | 11 | 11 | 9 | 9 | 8 | |
| 22 | 7 | 7 | 10 | 9 | 12 | 13 | 10 | 10 | E C 14 | 10 | 11 | 10 | 10 | 13 | 10 | E C 15 | 11 | 9 | 9 | 10 | 13 | 10 | 7 | 7 | |
| 23 | 10 | 11 | 11 | 15 | 10 | 28 | 20 | 11 | 10 | 9 | B | B | 28 | 25 | 20 | 28 | 33 | 19 | 10 | 16 | 8 | 9 | 8 | 8 | |
| 24 | E C 25 | 8 | 10 | 10 | 14 | 20 | 18 | 21 | 15 | 22 | 21 | 11 | 9 | 10 | 9 | 13 | 9 | 33 | B | 10 | E C 10 | 9 | 7 | 11 | |
| 25 | 15 | 14 | 8 | E C 10 | 10 | B | 14 | 20 | 17 | B | B | 22 | 38 | B | 43 | B | 28 | B | B | 23 | 16 | 14 | 9 | 8 | |
| 26 | 8 | 8 | 7 | 7 | 10 | 10 | 25 | 12 | 10 | 10 | 10 | 11 | 9 | 16 | 15 | 18 | 15 | 15 | 23 | 23 | 15 | 11 | 7 | 8 | |
| 27 | 8 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 26 | 11 | B | 22 | 26 | 15 | 13 | 22 | 18 | 22 | 15 | 24 | 17 | 24 | 14 | 8 | |
| 28 | 9 | 9 | 10 | 16 | 14 | 19 | 10 | 10 | 11 | 11 | 12 | 10 | 13 | 14 | 22 | 16 | 13 | 16 | 11 | 9 | 10 | 9 | 9 | C | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 27 | |
| MED | 10 | 11 | 10 | 14 | 14 | 20 | 20 | 18 | 16 | 16 | 20 | 21 | 30 | 30 | 23 | 26 | 27 | 21 | 16 | 14 | 12 | 10 | 9 | 9 | |
| UQ | 13 | 15 | 16 | 29 | D B 36 | B | 28 | 23 | 29 | B | B | B | B | D B 50 | 38 | D B 46 | 44 | 30 | 26 | 22 | 15 | 14 | 12 | 12 | |
| LQ | 9 | 8 | 9 | 9 | 10 | 14 | 10 | 12 | 12 | 11 | 12 | 12 | 16 | 16 | 14 | 20 | 16 | 15 | 11 | 10 | 10 | 9 | 8 | 8 | |

FEB, 1975

F=MIN (0.1 MHz)

IONOSPHERIC DATA

FEB. 1975

M(3000)F2 (0.01)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | R | F | F | F | F | A | A | A | B | A | B | B | R | 285 | F | 240 | R | F | F | F | A | F | R |
| 2 | A | A | A | B | B | B | B | B | F | R | F | B | B | U | B | B | 290 | R | B | U | F | F | F | F |
| 3 | A | A | B | B | B | A | A | B | B | B | R | R | 285 | 275 | 265 | 280 | 285 | 260 | B | 325 | 285 | 320 | F | F |
| 4 | F | F | 295 | U | R | B | A | 245 | 285 | B | U | F | F | 275 | 265 | 290 | 270 | 260 | 275 | 300 | 330 | U | F | U |
| 5 | U | F | A | A | A | R | B | R | 260 | U | F | F | 275 | 250 | F | F | 280 | 285 | 280 | 300 | B | U | F | R |
| 6 | R | R | B | A | B | R | F | A | B | F | U | U | F | 275 | 270 | 280 | 280 | 295 | 305 | 300 | 310 | 315 | 305 | F |
| 7 | F | F | R | A | A | F | R | R | 260 | R | B | R | 265 | B | 260 | F | U | F | 310 | 290 | F | 340 | A | A |
| 8 | A | A | R | R | F | A | R | A | F | F | F | R | U | U | F | 275 | 295 | 295 | 300 | 290 | F | F | 315 | 310 |
| 9 | S | 300 | 295 | 285 | A | A | A | A | A | F | 250 | 255 | F | 300 | 225 | 245 | 285 | 305 | 310 | 320 | 310 | 325 | F | F |
| 10 | R | F | R | A | A | F | R | A | A | A | R | A | R | F | F | 275 | 285 | 310 | R | 305 | A | A | F | A |
| 11 | F | A | B | B | A | B | R | A | R | A | B | B | B | 255 | 280 | B | 285 | 280 | 310 | F | A | F | A | A |
| 12 | A | A | A | F | B | B | B | R | R | B | B | B | B | B | B | B | F | F | F | 320 | A | R | A | A |
| 13 | A | B | A | B | B | B | B | A | B | R | B | B | 270 | 270 | B | 260 | 285 | 315 | G | F | 320 | F | A | U |
| 14 | A | B | A | B | R | F | B | B | A | B | F | 250 | B | B | 275 | B | B | R | B | F | B | 300 | A | B |
| 15 | B | A | B | B | B | R | R | R | A | B | R | F | B | B | 290 | B | B | 265 | 285 | 290 | F | 305 | A | A |
| 16 | A | B | A | R | R | B | U | F | F | R | B | B | B | 245 | B | 270 | B | 300 | 295 | F | 290 | F | A | A |
| 17 | A | A | A | A | B | R | R | B | B | R | B | B | B | B | 270 | F | 315 | 295 | 280 | 295 | 325 | F | R | F |
| 18 | A | A | A | A | F | B | B | A | B | B | R | B | B | 250 | 265 | 295 | 275 | B | 275 | 280 | F | U | U | F |
| 19 | A | A | A | A | A | A | R | A | A | F | F | F | B | B | B | B | B | B | 325 | 340 | 310 | 325 | F | R |
| 20 | A | F | A | A | B | F | A | U | F | 265 | 285 | 285 | 270 | 270 | 300 | 305 | 320 | 340 | 325 | 320 | 335 | 340 | 315 | 305 |
| 21 | R | R | A | A | A | B | A | A | A | F | F | F | F | 260 | 265 | 255 | 280 | 300 | 290 | 305 | 335 | 325 | 340 | 325 |
| 22 | A | A | R | F | F | A | A | F | 270 | F | 280 | 270 | F | 275 | 290 | 300 | 305 | 300 | 315 | 305 | 325 | 295 | F | A |
| 23 | A | A | F | A | F | A | F | F | 230 | F | 260 | B | B | 260 | A | F | F | F | F | A | R | F | U | A |
| 24 | R | F | F | A | A | F | A | A | F | 265 | 270 | F | F | 290 | 280 | 295 | 300 | 300 | 315 | R | B | 290 | F | A |
| 25 | A | A | A | F | A | B | A | Y | R | B | B | B | 270 | 285 | B | 290 | B | R | B | B | A | 335 | 315 | F |
| 26 | A | A | F | F | R | F | A | A | 275 | 280 | 270 | 265 | 290 | 315 | 315 | 300 | 300 | 310 | 320 | 340 | 330 | F | F | F |
| 27 | F | 270 | F | 280 | F | F | U | F | 270 | R | 270 | B | R | U | F | 305 | 300 | 320 | 325 | 315 | 335 | 350 | 340 | 320 |
| 28 | U | F | F | R | F | A | F | A | R | F | F | F | F | 270 | 285 | 295 | 295 | 320 | 320 | 325 | 315 | 325 | 320 | F |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| CNT | 4 | 3 | 2 | 3 | | 2 | 3 | 4 | 7 | 10 | 10 | 10 | 17 | 18 | 21 | 19 | 21 | 20 | 19 | 21 | 19 | 16 | 10 | 5 |
| MED | 298 | 275 | 295 | 285 | | 305 | U | 280 | 262 | 265 | 265 | 268 | 270 | 280 | 275 | 290 | 295 | 300 | 310 | 310 | 320 | 320 | 315 | 305 |
| UQ | 300 | 288 | | 285 | | | U | 282 | 270 | 275 | 280 | 270 | 270 | 290 | 300 | 295 | 302 | 315 | 315 | 320 | 330 | 332 | 318 | 310 |
| LQ | U | F | F | | | | F | F | F | F | F | F | F | 290 | 255 | 275 | 278 | 285 | 292 | 288 | 295 | 310 | 302 | 285 |

The Radio Research Laboratories, Japan

FEB. 1975

M(3000)F2 (0.01)

IONOSPHERIC DATA

FEB. 1975

H'F2 (KM)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | B | A | B | B | R | 425 | 550 | 520 | B | R | | L | | | |
| 2 | | | | | | | B | B | F | F | 480 | B | B | UR | B | B | 350 | B | | | | | | |
| 3 | | | | | | | A | B | B | B | R | R | 400 | 425 | 465 | 420 | 380 | 445 | B | | L | | | |
| 4 | | | | | | | A | UF | 395 | B | UF | 400 | 400 | 440 | 370 | 420 | 450 | 400 | 310 | 265 | L | | | |
| 5 | | | | | | | B | A | 425 | 380 | 420 | 350 | 345 | 400 | 355 | 350 | 355 | B | | L | | | | |
| 6 | | | | | | UF | 450 | A | B | 400 | 375 | 365 | 375 | 380 | 350 | 325 | 380 | 300 | 300 | L | | | | |
| 7 | | | | | | 450 | A | A | 475 | A | B | R | UF | B | B | 380 | 390 | 325 | 350 | L | | | | |
| 8 | | | | | | | A | A | A | 395 | 500 | 410 | 405 | 400 | 350 | 370 | 340 | 350 | L | L | | | | |
| 9 | | | | | | | A | A | A | 455 | A | 460 | 350 | 640 | 460 | L | L | L | 300 | L | | | | |
| 10 | | | | | | | R | A | A | A | R | A | R | R | 600 | 395 | 390 | UF | 290 | | | | | |
| 11 | | | | | | | R | A | A | A | A | A | B | 495 | 425 | B | 360 | 375 | 325 | | | | | |
| 12 | | | | | | | B | A | A | B | B | B | B | B | B | B | 410 | F | F | | | | | |
| 13 | | | | | | | B | A | B | A | B | B | 400 | B | B | 470 | 380 | L | G | L | | | | |
| 14 | | | | | | | B | B | A | B | F | 495 | B | B | 410 | B | B | R | B | | | | | |
| 15 | | | | | | | A | A | A | B | UR | 570 | 430 | B | B | F | B | 450 | 375 | | | | | |
| 16 | | | | | | | | F | R | B | B | B | B | 505 | B | 400 | B | 315 | L | | | | | |
| 17 | | | | | | | F | B | B | R | B | B | B | B | 400 | 340 | 325 | L | | | | | | |
| 18 | | | | | | | B | A | B | B | R | B | B | 540 | ER | 510 | 385 | 400 | B | L | | | | |
| 19 | | | | | | | R | A | A | F | UF | 480 | UF | 480 | B | B | B | B | B | L | | | | |
| 20 | | | | | | | A | 425 | 400 | 365 | 375 | 400 | 395 | E | B | 350 | 325 | 295 | L | | | | | |
| 21 | | | | | | | A | A | A | 420 | 430 | 490 | 360 | 340 | 350 | 305 | L | L | | | | | | |
| 22 | | | | | | | A | 405 | 420 | 350 | 390 | 380 | 345 | 350 | 325 | 370 | 310 | L | L | L | | | | |
| 23 | | | | | | | UF | 445 | 565 | F | 425 | B | B | 425 | A | 510 | A | UF | 305 | | | | | |
| 24 | | | | | | | A | A | 595 | 450 | 410 | UF | 450 | 385 | 400 | 355 | 360 | 350 | L | | | | | |
| 25 | | | | | | | A | Y | R | B | B | 450 | 415 | B | R | 380 | B | R | B | | | | | |
| 26 | | | | | | | A | A | 350 | 340 | 400 | 435 | 380 | 340 | 325 | 325 | L | L | | | | | | |
| 27 | | | | | | | 325 | 400 | R | 400 | B | 420 | 345 | 325 | 330 | L | 300 | 250 | | | | | | |
| 28 | | | | | | | A | A | 330 | 325 | 360 | 415 | 370 | 345 | 320 | 290 | 270 | 270 | L | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| CNT | | | | | | 2 | 3 | 5 | 9 | 12 | 13 | 16 | 17 | 17 | 23 | 18 | 19 | 10 | 8 | 1 | | | | |
| MED | | | | | 450 | 450 | 425 | 420 | 398 | 420 | 425 | 385 | 400 | 375 | 370 | 360 | 338 | 318 | 265 | | | | | |
| UQ | | | | | 495 | 445 | 475 | 422 | 480 | 455 | 400 | 480 | 432 | 400 | 390 | 400 | 362 | | | | | | | |
| LQ | | | | | 388 | 405 | 395 | 358 | 390 | 400 | 360 | 350 | 350 | 325 | 332 | 300 | 300 | | | | | | | |

The Radio Research Laboratories, Japan

FEB. 1975

H'F2 (KM)

IONOSPHERIC DATA

FEB. 1975

H^oF (KM)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | R | F | F | F | F | 220 | A | A | A | B | A | B | U ^B 250 | 250 | 230 | B | R | 230 | 250 | 300 | A | F | R | | |
| 2 | A | A | A | B | B | B | B | B | 240 | 250 | 225 | B | B | E ^B 240 | B | B | R | R | B | 250 | 255 | 260 | 300 | 275 | | |
| 3 | A | A | B | B | B | A | A | B | B | B | 260 | 225 | U ^H 225 | 230 | 225 | 210 | 225 | 225 | B | 255 | 250 | 250 | 270 | 280 | | |
| 4 | 300 | 350 | 340 | U ^R 380 | A | B | A | 340 | 250 | B | 200 | 220 | 200 | H | 215 | 210 | 205 | A | 210 | 225 | 225 | 245 | 270 | 250 | 250 | |
| 5 | 325 | A | A | A | A | A | B | A | 210 | 200 | 210 | 230 | 200 | H | H | B | B | B | 210 | B | F | A | 305 | 300 | R | |
| 6 | R | U ^Y 500 | B | A | B | A | A | A | B | 260 | 205 | 210 | 200 | H | B | 225 | 220 | E ^Y 240 | 225 | 225 | H | 230 | 250 | 250 | 295 | F |
| 7 | F | 345 | R | A | A | U ^H 195 | A | A | A | A | B | 250 | U ^H 220 | B | B | B | E ^B 250 | R | B | 250 | 260 | A | A | A | | |
| 8 | A | A | A | A | A | F | A | A | A | 240 | A | 250 | B | 225 | 240 | I ^B 225 | 225 | 210 | 250 | 230 | 250 | 250 | 250 | 245 | | |
| 9 | 250 | 250 | 260 | 300 | A | A | A | A | A | 280 | A | U ^Q 190 | 235 | 225 | 225 | 200 | H | 210 | 210 | 215 | U ^H 230 | 275 | 250 | A | A | |
| 10 | R | F | R | B | A | U ^F 270 | A | A | A | A | A | A | E ^A 280 | H | 240 | 225 | 225 | 290 | 230 | R | 280 | A | A | 400 | A | |
| 11 | U ^F 335 | A | B | B | A | B | A | A | A | A | A | A | B | B | B | B | 220 | 240 | 230 | A | F | A | A | A | | |
| 12 | A | A | A | U ^F 375 | B | B | B | A | A | B | B | B | B | B | B | B | 220 | 240 | 250 | 250 | A | R | A | A | | |
| 13 | A | B | A | B | B | B | B | A | B | A | B | B | 240 | B | B | B | B | 230 | U ^F 250 | 255 | 255 | A | 295 | B | | |
| 14 | A | B | A | B | A | 260 | B | B | A | B | 200 | 230 | B | B | A | B | B | R | B | 275 | Q | B | U ^H 340 | A | B | |
| 15 | B | A | B | B | B | A | A | A | A | B | R | 265 | 250 | B | B | H | B | B | 240 | 240 | E ^B 270 | 300 | 300 | A | A | |
| 16 | A | B | A | A | A | B | U ^H 380 | 320 | A | B | B | B | B | 215 | B | B | B | 240 | 250 | F | E ^A 390 | F | A | A | | |
| 17 | A | A | A | A | B | A | A | A | 260 | B | B | B | B | B | E ^B 260 | 250 | 250 | 230 | 240 | B | E ^B 260 | 250 | 320 | F | | |
| 18 | A | A | A | A | 310 | B | B | A | A | A | 230 | B | B | 245 | 250 | 220 | 220 | R | 250 | B | 230 | 270 | 285 | U ^H 380 | A | |
| 19 | A | A | A | F | A | A | A | A | A | A | 225 | 225 | B | B | B | B | B | B | 225 | 255 | 260 | 240 | A | R | | |
| 20 | A | U ^Q 480 | A | A | B | U ^F 450 | A | F | H | 230 | 230 | 200 | 200 | 245 | B | 225 | 205 | 220 | 230 | H | H | 225 | 240 | 245 | 290 | |
| 21 | R | R | A | A | A | B | A | A | A | 270 | 215 | 180 | H | 215 | 210 | 240 | 220 | 220 | 220 | 235 | 250 | 250 | 345 | F | A | |
| 22 | A | A | A | F | F | A | A | 300 | 250 | 200 | 200 | 210 | 205 | 220 | 220 | 215 | 210 | 205 | 240 | 230 | H | 250 | A | A | U ^F 400 | |
| 23 | A | A | U ^F 300 | A | F | A | A | 280 | 310 | 200 | B | B | 195 | A | 270 | A | B | 330 | A | A | F | E ^A 325 | A | A | | |
| 24 | R | F | 325 | A | A | A | A | A | 290 | 225 | 225 | 210 | 210 | E ^A 240 | A | 265 | 215 | U ^H 280 | B | B | 300 | 300 | 280 | A | A | |
| 25 | A | A | A | A | A | B | A | A | R | B | B | 250 | B | B | B | B | 250 | R | B | A | 250 | 295 | 350 | A | | |
| 26 | A | A | U ^F 350 | F | A | 350 | A | A | 215 | 215 | 200 | 200 | 265 | 240 | 260 | A | 215 | 225 | 215 | 245 | 235 | 245 | 240 | 295 | 375 | S |
| 27 | U ^F 390 | A | 250 | 300 | 330 | 255 | 240 | 220 | 220 | 225 | B | 215 | H | 220 | 240 | 210 | 220 | 230 | 225 | 225 | 230 | 230 | 275 | 260 | 250 | |
| 28 | 280 | 330 | R | A | A | R | A | A | 230 | 205 | 220 | U ^H 190 | 200 | 230 | 210 | 225 | 215 | 220 | 220 | 215 | 225 | 250 | 300 | Q | C | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | |
| CNT | 6 | 6 | 6 | 4 | 2 | 6 | 3 | 6 | 10 | 14 | 15 | 18 | 16 | 17 | 20 | 17 | 18 | 20 | 19 | 24 | 22 | 19 | 16 | 8 | | |
| MED | 312 | 348 | 312 | 338 | 320 | 265 | 240 | 310 | 235 | 228 | 215 | 218 | 215 | 228 | 228 | 220 | 222 | 225 | 235 | 246 | 250 | 265 | 298 | 278 | | |
| UQ | U ^F 335 | U ^F 480 | 340 | U ^F 378 | U ^F 350 | 310 | 340 | 250 | 260 | 225 | 230 | 234 | 240 | 250 | 225 | 250 | 235 | 248 | 256 | 265 | 294 | 335 | 332 | | | |
| LQ | 280 | 330 | 260 | F | 300 | 255 | 230 | 280 | 220 | 205 | 200 | 200 | 200 | 220 | 222 | 215 | 220 | 212 | 225 | 230 | 250 | 250 | 265 | 250 | | |

The Radio Research Laboratories, Japan

FEB. 1975

H^oF (KM)

IONOSPHERIC DATA

FEB. 1975

H^oES (KM)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----|------------------|-----|-----|-----|-----|-----|-----|-----|-----|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 1 | 100 | 100 ^K | 105 ^K | 130 ^K | 150 ^K | 165 | 100 | 100 | 95 | B | 150 | B | B | B | B | G | B | 100 | 145 | G | 100 | 105 | 180 ^K | 110 ^K |
| 2 | 100 | 100 | 100 | B | B | B | B | B | G | G | G | B | B | B | B | B | B | R | B | 165 | 110 | G | 105 ^K | 100 ^K |
| 3 | 100 | 100 ^K | 170 | B | B | 110 | 120 | B | B | B | G | G | B | G | 120 | 120 | 120 | 100 | B | B | B | 150 | G | 100 |
| 4 | 100 | 110 | 105 ^K | 120 ^K | 110 ^K | 130 | 100 | 100 | 100 ^K | B | 100 | G | G | G | 100 | 100 | 110 | G | G | G | 180 | G | B | 100 |
| 5 | 105 ^K | 175 ^K | 105 | 100 | 100 | 110 ^K | B | 100 | G | G | G | G | G | G | 120 | B | B | B | B | 145 | 110 | G | 100 | 105 ^K |
| 6 | 100 | 100 ^K | B | 120 | 100 | 100 | 105 | 100 | B | 100 | G | G | B | B | B | G | 105 | 105 | G | 140 | 130 | G | 100 | 105 ^K |
| 7 | 100 | 100 ^K | 125 ^K | 110 ^K | 100 | 100 ^K | 100 | 100 | 100 | 100 | B | 100 | G | B | B | B | B | B | 130 | 150 | G | 110 ^K | 110 ^K | 150 ^K |
| 8 | 100 | 100 | 100 ^K | 100 ^K | 100 | 130 | 100 | 100 | 100 | 150 | 100 | 100 | B | G | G | B | B | G | G | G | 130 | 130 | B | 105 |
| 9 | 105 | 100 | 100 | 100 | 115 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 115 | 120 | 100 | G | G | 100 | 110 | 100 | 130 | 140 | 110 ^K |
| 10 | 100 | 100 | 100 | 150 | 100 | 155 | 100 | 105 | 100 | 100 | 100 | 100 | 115 | G | G | 120 | G | 150 | 100 ^K | G | 100 | 100 | 130 ^K | 105 ^K |
| 11 | 150 ^K | 95 | B | 180 | 120 | B | 95 | 100 | 110 | 135 | B | B | B | B | B | B | G | G | G | 165 | 100 ^K | 100 | 100 ^K | 100 |
| 12 | 100 | 100 | 100 | 130 ^K | B | B | 130 | 100 | 100 | B | B | B | B | B | B | B | 175 | 150 | 145 | 140 | 100 | 100 ^K | 165 ^K | 100 ^K |
| 13 | 100 | B | 100 ^K | B | B | B | B | 100 | B | 100 | B | B | 130 | B | B | B | B | 145 | 165 ^K | 150 | 130 | 180 | 100 ^K | B |
| 14 | 130 ^K | B | 100 | B | 95 | 145 | B | B | 110 | B | G | G | B | B | 100 | B | B | R | B | 110 | B | 140 | 110 ^K | 105 |
| 15 | B | 150 ^K | B | B | B | 100 | 110 | 110 | 110 | B | G | 100 | B | B | 115 | B | B | G | B | B | 150 | G | 100 ^K | 100 |
| 16 | 145 ^K | B | 135 ^K | 95 | 140 ^K | B | 100 ^K | 100 | 100 | B | B | B | B | B | B | B | B | G | 140 | 145 ^K | 100 ^K | 130 ^K | 100 ^K | 150 ^K |
| 17 | 150 ^K | 95 | 100 | 100 | B | 100 | 100 | B | B | 100 | B | B | B | B | B | 135 | B | 180 | B | B | 130 | 120 ^K | 150 | 170 |
| 18 | 100 ^K | 110 ^K | 100 | 135 | 150 ^K | B | B | 100 | B | B | 130 | B | B | B | G | G | G | R | B | B | 130 | 190 | 150 | 150 |
| 19 | 130 ^K | 100 | 170 ^K | 120 ^K | 160 | 175 ^K | 145 ^K | 115 | 105 | 150 | 155 | G | B | B | B | B | B | R | 145 | B | B | G | 120 | 100 ^K |
| 20 | 115 ^K | 120 ^K | 95 | 150 | B | 100 ^K | 100 | 100 | 170 | G | G | 130 | 115 | B | B | 120 | B | 100 | 100 | 100 | 120 | 110 | 100 | 150 ^S |
| 21 | 115 ^K | 170 ^K | 110 | 110 | 100 | B | 120 | 100 | 100 | 150 | 110 | G | B | 105 | 100 | 100 | G | 105 | 100 | 145 | 130 | 105 | 110 ^K | 105 ^K |
| 22 | 100 | 100 ^K | 100 ^K | 115 | 150 | 100 | 100 | 145 | 100 | 115 | G | 105 | 120 | 100 | 95 | 100 | 100 | 100 | 100 | G | 190 | 125 | 115 | 100 |
| 23 | 115 ^K | 195 | 100 ^K | 110 | 110 | 100 | 125 | 100 | 140 | G | B | B | B | 150 | G | 110 | B | 155 ^K | 100 | 100 | 100 | 125 | 140 ^K | 120 ^K |
| 24 | 100 ^K | 120 | 140 | 100 | 100 | 100 | 115 | 105 | 100 | G | G | 100 | 130 | 120 | 110 | 110 | G | B | B | 125 ^K | 150 | 150 | 100 ^K | 100 ^K |
| 25 | 105 ^K | 100 | 100 | 150 | 100 | B | 100 | 175 | 95 | B | B | G | B | B | B | B | B | R | B | 130 ^K | 130 | 125 | 110 | 110 |
| 26 | 100 | 100 ^K | 100 | 150 | 100 ^K | 100 | 110 | 100 | 100 | 95 | G | G | G | 100 | 115 | 100 | 120 | 100 | B | B | B | 150 | 100 | 100 |
| 27 | 95 | 100 | 95 | 100 | 100 | 115 | 100 | 100 | B | 100 | B | 115 | 100 | 100 | 100 | G | G | G | G | B | B | B | 115 | 100 |
| 28 | 95 | 150 | 115 ^K | 100 ^K | 100 | 110 ^K | 100 | 100 | 100 | 100 | G | 110 | G | 120 | 100 | 120 | G | 105 | G | G | 100 | 150 | 140 | C |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| CNT | 27 | 25 | 25 | 23 | 21 | 20 | 23 | 24 | 20 | 14 | 8 | 10 | 7 | 8 | 12 | 12 | 6 | 13 | 12 | 15 | 22 | 21 | 25 | 26 |
| MED | 100 ^K | 100 | 100 | 115 | 100 | 105 | 100 | 100 | 100 | 100 | 105 | 100 | 115 | 110 | 105 | 110 | 115 | 105 | 115 | 140 | 125 | 125 | 110 ^K | 105 |
| UQ | 115 ^K | 110 ^K | 110 ^K | 132 | 120 | 130 | 112 | 102 | 108 | 135 | 140 | 110 | 125 | 120 | 118 | 120 | 120 | 150 | 145 | 148 | 130 | 150 | 140 | 110 ^K |
| LQ | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 108 | 100 | 100 | 100 | 105 | 100 | 100 | 118 | 100 | 110 | 100 ^K | 100 |

FEB. 1975

H^oES (KM)

IONOSPHERIC DATA

FEB. 1975

TYPES OF ES

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-------------------|------------------|-------------------|------------------|------------------|------------------|----------------|------------------|----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| 1 | R ₂ | K ₂ | RKL ₃₁ | AK ₁₂ | AK ₁₃ | HRL ₁₁ | R ₂ | R ₂ | L ₂ | | AL ₁₁ | | | | | | | C ₁ | H ₁ | | R ₂ | CS ₂₁ | HK ₁₁ | K ₂ | |
| 2 | R ₂ | R ₂ | BK ₂₁ | | | | | | | | | | | | | | | | | H ₁ | RA ₁₁ | | K ₃ | LKA ₁₁ | |
| 3 | RK ₂₃ | K ₃ | H ₁ | | | R ₁ | R ₁ | | | | | | | | H ₁ | C ₁ | C ₁ | B ₂ | | | | H ₁ | | L ₁ | |
| 4 | R ₁ | CH ₁₂ | LK ₂₂ | CK ₁₁ | RK ₁₁ | H ₁ | R ₂ | R ₂ | K ₁ | | R ₂ | | | | L ₂ | L ₂ | CL ₂₁ | | | | A ₁ | | | L ₁ | |
| 5 | RK ₂₁ | NK ₁₂ | R ₂ | R ₁ | R ₁ | RK ₁₁ | | L ₁ | | | | | | | H ₁ | | | | | A ₁ | R ₁ | | R ₁ | K ₅ | |
| 6 | K ₂ | K ₂ | | C ₂ | L ₁ | L ₁ | R ₂ | R ₁ | | L ₁ | | | | | | | L ₁ | L ₁ | | H ₁ | HL ₁₁ | | LA ₁₁ | K ₃ | |
| 7 | RK ₂₁ | RK ₁₁ | RK ₂₂ | RR ₁₁ | LR ₁₂ | K ₁ | L ₁ | R ₂ | R ₂ | L ₁ | | L ₁ | | | | | | | H ₁ | A ₁ | | KS ₂₁ | AK ₁₂ | AK ₁₁ | |
| 8 | L ₁ | R ₂ | RKA ₁₁ | RK ₁₁ | R ₁ | AL ₁₂ | AR ₁₁ | L ₁ | RH ₁₁ | HR ₁₁ | R ₁ | L ₁ | | | | | | | | | C ₁ | C ₁ | | C ₁ | |
| 9 | CL ₁₁ | L ₁ | LA ₁₁ | R ₃ | CRL ₁₂ | L ₁ | L ₁ | RR ₁₁ | R ₁ | LR ₁₁ | R ₂ | L ₁ | LC ₂₁ | CL ₁₂ | C ₁ | C ₁ | | | | L ₁ | C ₁ | LA ₁₁ | H ₁ | A ₁ | RK ₄₁ |
| 10 | K ₆ | CA ₃₁ | K ₃ | AL ₁₁ | R ₂ | ARS ₁₁ | LCS ₁₁ | R ₁ | RS ₂₁ | RAS ₁₁ | L ₁ | LS ₁₁ | R ₁ | | | C ₁ | | A ₁ | KS ₂₁ | | RS ₂₁ | R ₂ | HK ₁₁ | KR ₄₁ | |
| 11 | AKC ₁₁ | R ₁ | | H ₁ | R ₁ | | L ₁ | R ₁ | RL ₁₁ | HR ₁₁ | | | | | | | | | | | AR ₁₂ | KS ₁₁ | LR ₁₂ | K ₂ | AAR ₁₁ |
| 12 | R ₃ | R ₁ | R ₁ | HKA ₁₂ | | | R ₁ | R ₁ | R ₁ | | | | | | | | H ₁ | H ₁ | H ₁ | R ₁ | RS ₂₁ | K ₁ | HK ₁₂ | RK ₁₁ | |
| 13 | R ₁ | | K ₁ | | | | | L ₁ | | L ₁ | | | H ₁ | | | | | A ₁ | HK ₁₁ | H ₁ | AL ₁₁ | AR ₁₂ | RK ₂₁ | | |
| 14 | HK ₁₁ | | A ₁ | | L ₁ | A ₁ | | | R ₁ | | | | | | L ₁ | | | | | | R ₁ | | A ₁ | KL ₆₂ | LRA ₁₁ |
| 15 | | ACK ₁₁ | | | | R ₁ | R ₁ | R ₁ | R ₁ | | | L ₁ | | | | C ₁ | | | | | | A ₁ | | RKS ₃₁ | R ₂ |
| 16 | RKR ₁₂ | | KL ₁₁ | L ₁ | HKL ₁₁ | | K ₂ | R ₂ | L ₁ | | | | | | | | | | A ₁ | AK ₁₁ | RK ₂₁ | AK ₁₁ | RK ₂₁ | AK ₁₁ | |
| 17 | AKR ₁₁ | R ₂ | L ₁ | L ₁ | | R ₁ | R ₁ | | | L ₁ | | | | | H ₁ | | | | H ₁ | | | CH ₁₁ | AK ₁₁ | A ₁ | AR ₁₁ |
| 18 | KS ₁₁ | K ₁ | LR ₁₁ | RL ₁₂ | RKL ₁₁ | | | L ₁ | | | H ₁ | | | | | | | | | | | AW ₁₁ | HA ₁₁ | R ₁ | R ₁ |
| 19 | RK ₁₂ | L ₁ | RK ₁₂ | AKL ₁₂ | RRR ₁₁ | HK ₁₁ | K ₁ | R ₁ | R ₁ | RL ₁₁ | H ₁ | | | | | | | | | H ₁ | | | | RA ₃₁ | K ₂ |
| 20 | RK ₁₁ | CK ₁₁ | L ₁ | HL ₁₁ | | K ₁ | R ₁ | RA ₁₁ | H ₁ | | | CCL ₁₁ | C ₂ | | | C ₁ | | | L ₁ | L ₁ | L ₁ | H ₁ | C ₁ | L ₁ | R ₁ |
| 21 | K ₆ | HK ₁₂ | RR ₃₁ | R ₁ | R ₁ | | R ₁ | R ₁ | R ₁ | HR ₁₂ | R ₁ | | | C ₁ | L ₂ | L ₁ | | | C ₂ | L ₁ | H ₁ | H ₁ | R ₂ | RK ₂₁ | AK ₁₃ |
| 22 | K ₆ | KL ₁₁ | LK ₁₆ | A ₁ | AR ₁₁ | R ₁ | R ₁ | HR ₁₁ | R ₂ | CL ₁₁ | | L ₁ | C ₁ | L ₁ | L ₁ | L ₂ | L ₁ | L ₂ | L ₁ | | A ₁ | RA ₁₁ | RS ₁₁ | LR ₁₂ | |
| 23 | K ₆ | R ₂ | LKA ₁₁ | B ₂ | B ₁ | R ₁ | R ₁ | B ₂ | HR ₁₁ | | | | | | H ₁ | | | | HS ₁₂ | RS ₁₁ | L ₁ | AS ₁₁ | CA ₁₁ | HK ₄₂ | RS ₆₆ |
| 24 | LK ₁₅ | AL ₁₁ | HR ₁₂ | RL ₂₁ | R ₂ | L ₁ | C ₁ | R ₁ | R ₁ | | | LL ₁₁ | HL ₁₂ | C ₂ | C ₃ | C ₁ | | | | | RK ₂₁ | A ₁ | H ₁ | K ₆ | RK ₂₂ |
| 25 | RRK ₁₁ | LA ₁₁ | RR ₁₃ | HR ₁₁ | R ₂ | | L ₁ | H ₁ | L ₁ | | | | | | | | | | | | CK ₁₁ | C ₁ | C ₁ | R ₁ | RL ₂₁ |
| 26 | R ₃ | LAK ₁₁ | AR ₁₂ | HAL ₁₁ | RT ₂₁ | R ₁ | R ₁ | L ₁ | L ₁ | L ₁ | | | | L ₁ | CL ₂₁ | C ₁ | CL ₁₁ | L ₁ | | | | H ₁ | L ₁ | CA ₁₁ | |
| 27 | LA ₁₁ | L ₃ | LA ₁₁ | L ₂ | LC ₁₂ | CLA ₁₁ | L ₁ | L ₁ | | RH ₁₁ | | C ₁ | L ₁ | L ₁ | L ₁ | | | | | | | | | C ₁ | AR ₁₁ |
| 28 | LA ₁₁ | AR ₁₂ | KA ₄₁ | LKR ₁₁ | R ₁ | K ₁ | R ₁ | R ₂ | L ₁ | LR ₁₁ | | C ₁ | | C ₁ | L ₁ | C ₁ | | | | | L ₁ | H ₁ | R ₁ | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | | | | | | | | | | | | | | | | | | | | | | | | | |
| MED | | | | | | | | | | | | | | | | | | | | | | | | | |
| UQ | | | | | | | | | | | | | | | | | | | | | | | | | |
| LQ | | | | | | | | | | | | | | | | | | | | | | | | | |

FEB. 1975

TYPES OF ES

IONOSPHERIC DATA

MAR. 1975

FXI (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69 00.4 S. Long. 39 35.4 E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------|---------|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | U 60 | C | U 30 | D 33 | A | A | A | A | O 48 | O 51 | 52 | B | B | 61 | 67 | B | B | O 48 | B | 51 | 37 | A | A | A |
| 2 | A | A | B | B | B | B | B | B | B | B | B | O 51 | X 52 | O 49 | O 51 | O 50 | X 50 | 52 | X 50 | O 45 | X 42 | 38 | 25 | A |
| 3 | A | A | A | A | A | R | 46 | O 55 | 50 | 54 | O 55 | 55 | X 52 | X 52 | 53 | X 52 | 60 | X 56 | X 60 | X 48 | 45 | O 31 | 26 | 28 |
| 4 | A | A | A | U 36 | A | 41 | A | A | A | 49 | 50 | O 51 | C | O 51 | X 52 | X 51 | 52 | X 50 | 47 | X 49 | X 47 | 43 | 39 | 43 |
| 5 | O 26 | A | A | A | A | A | B | B | C | B | B | B | B | B | B | B | B | B | B | R | A | C | C | C |
| 6 | C | A | B | R | R | R | B | B | B | O 41 | R | B | B | B | B | B | B | B | B | A | A | A | A | A |
| 7 | A | A | A | A | A | A | 40 | 41 | X 45 | X 48 | X 52 | O 54 | X 49 | X 52 | A | A | 55 | 53 | O 48 | O 49 | O 46 | O 46 | 47 | 42 |
| 8 | 36 | B | B | B | 37 | U 45 | O 34 | O 41 | O 46 | O 46 | R | O 52 | B | B | 55 | 55 | C | C | 50 | X 52 | X 47 | B | 40 | X 34 |
| 9 | 30 | 27 | 30 | 30 | 33 | U 50 | U 45 | O 41 | O 44 | O 48 | O 49 | X 56 | X 58 | 58 | 61 | 59 | 57 | 56 | 54 | 48 | 45 | X 40 | X 40 | X 35 |
| 10 | 28 | A | A | A | R | A | 55 | 64 | A | A | A | B | B | B | B | O 51 | 84 | R | 74 | A | 42 | A | B | 55 |
| 11 | A | A | A | R | A | B | B | A | R | B | B | B | B | B | B | B | B | B | X 43 | O 37 | A | R | A | A |
| 12 | A | B | A | B | B | A | B | B | B | B | R | B | B | B | B | B | R | B | R | R | O 28 | A | A | A |
| 13 | B | A | B | B | B | 35 | B | B | B | B | B | B | B | B | B | B | B | B | B | O 36 | R | A | A | A |
| 14 | A | A | A | B | A | A | B | R | R | R | B | B | B | B | B | B | B | B | R | 35 | A | A | A | A |
| 15 | A | A | B | A | A | B | B | A | R | B | B | B | B | B | B | B | B | 48 | O 45 | R | 25 | R | A | A |
| 16 | A | A | A | A | B | B | B | B | A | B | B | O 45 | B | B | B | B | B | B | 53 | B | R | R | R | R |
| 17 | A | A | A | A | A | A | O 39 | R | B | A | B | O 43 | B | B | B | B | B | O 46 | O 45 | O 41 | O 31 | O 27 | 21 | A |
| 18 | A | A | A | A | A | O 36 | A | A | R | R | B | B | B | B | X 52 | X 54 | B | B | 53 | R | O 44 | R | A | A |
| 19 | A | A | A | A | A | A | A | A | B | B | B | R | B | O 46 | O 43 | O 44 | 46 | 46 | B | O 37 | O 36 | 27 | A | A |
| 20 | A | A | A | R | R | A | A | A | A | B | B | B | O 51 | B | O 50 | O 48 | 51 | X 52 | X 50 | R | A | A | A | A |
| 21 | A | A | A | B | A | A | O 36 | 37 | X 39 | X 43 | X 45 | X 46 | X 46 | X 47 | X 48 | X 50 | X 46 | X 44 | X 43 | X 38 | 34 | X 30 | O 26 | O 19 |
| 22 | A | B | O 24 | O 22 | O 21 | 28 | 32 | 41 | X 48 | X 52 | X 52 | X 52 | X 52 | X 56 | 60 | 60 | 54 | 48 | 46 | 42 | 40 | 33 | 30 | 25 |
| 23 | O 23 | 29 | A | B | A | A | A | B | B | 71 | R | B | B | 51 | O 51 | 49 | O 50 | O 44 | O 42 | O 36 | O 32 | 29 | A | A |
| 24 | A | A | A | U 60 | S | S | B | B | 51 | 47 | 47 | 49 | B | B | O 56 | 65 | 80 | 69 | 58 | R | A | A | R | R |
| 25 | A | A | A | R | R | R | R | A | C | C | C | C | X 52 | X 54 | X 52 | 50 | 50 | O 46 | X 42 | O 36 | 39 | 21 | A | R |
| 26 | A | 29 | A | A | R | R | A | A | X 44 | 46 | 46 | X 53 | X 64 | 69 | 85 | B | B | O 51 | 43 | 40 | 32 | A | A | A |
| 27 | A | A | A | B | B | A | R | A | B | B | O 44 | O 48 | O 49 | O 53 | O 59 | X 56 | 53 | O 44 | A | A | S | A | A | A |
| 28 | B | A | A | A | B | A | A | B | B | B | R | B | B | B | B | O 52 | O 46 | O 39 | O 33 | 27 | R | A | A | A |
| 29 | B | B | A | A | A | A | 40 | B | R | B | B | B | B | B | B | B | B | B | B | B | R | A | A | A |
| 30 | A | A | A | A | B | A | A | A | A | 45 | O 47 | B | B | O 52 | X 57 | X 62 | B | R | B | B | O 31 | B | R | A |
| 31 | A | A | A | B | A | B | B | B | A | B | B | B | O 50 | O 53 | X 54 | X 56 | X 56 | X 50 | 54 | 58 | B | A | A | B |
| CNT | 6 | 3 | 3 | 5 | 3 | 6 | 9 | 7 | 9 | 13 | 11 | 13 | 11 | 15 | 18 | 18 | 16 | 19 | 21 | 19 | 19 | 11 | 9 | 8 |
| MED | 29 | 29 | 30 | 33 | 33 | 38 | 40 | 41 | X 46 | 48 | 49 | O 51 | X 52 | 52 | 54 | 52 | 52 | 48 | 48 | 41 | 39 | 31 | 30 | 34 |
| UQ | 36 | 29 | 30 | U 48 | 35 | U 45 | 45 | 48 | 48 | 51 | 52 | 53 | X 52 | 55 | 59 | 56 | 56 | 52 | 53 | 48 | 44 | 39 | 40 | 42 |
| LQ | O 26 | 28 | 27 | 30 | 27 | 35 | O 36 | 41 | X 44 | 46 | 46 | O 48 | 50 | 51 | X 51 | O 50 | 50 | O 46 | 43 | O 36 | 32 | 28 | 26 | 26 |

MAR. 1975

FXI (0.1 MHz)

IONOSPHERIC DATA

MAR, 1975

FOF2 (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | |
|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|---|
| 1 | F | C | F | F | A | A | A | A | R ₄₂ | 45 | F ₄₆ | B | B | U ₅₃ | F ₄₆ | B | B | U ₄₂ | B | F ₄₃ | F ₃₀ | A | A | A | | |
| 2 | A | A | B | B | B | B | B | B | B | B | B | 45 | 46 | 43 | 45 | 44 | 44 | F ₄₆ | 43 | 39 | 36 | F ₃₁ | U ₁₆ | A | | |
| 3 | A | A | A | A | A | A | F ₃₉ | F ₄₉ | 44 | 48 | 49 | 49 | 46 | 47 | 47 | C ₄₆ | 54 | 50 | 44 | 42 | U ₃₉ | U ₂₅ | F | F | | |
| 4 | A | A | A | F | A | U ₃₄ | A | A | A | F ₄₁ | U ₄₂ | 45 | I ₄₆ | C ₄₅ | 46 | 45 | 46 | 44 | 40 | 42 | 41 | F ₃₅ | U ₂₈ | U ₂₃ | | |
| 5 | 20 | A | A | A | A | A | B | B | C | B | B | B | B | B | B | B | B | B | B | B | R | A | C | C | C | |
| 6 | C | A | B | R | R | R | B | B | B | 35 | R | B | B | B | B | B | B | R | B | A | A | A | A | A | | |
| 7 | A | A | A | A | A | A | F ₃₃ | F ₃₅ | 39 | 42 | 46 | 48 | 49 | 46 | A | A | F ₄₈ | F ₄₇ | 42 | 43 | 40 | 40 | F ₄₀ | U ₂₉ | | |
| 8 | J ₂₆ | B | B | B | F ₁₅ | F ₂₃ | 28 | 35 | 40 | 40 | R | 46 | B | B | 50 | 47 | C | C | F ₄₄ | 46 | 42 | B | F ₃₀ | S ₂₇ | | |
| 9 | U ₂₀ | U ₁₅ | F ₁₅ | F ₁₅ | F ₂₃ | F ₃₁ | 35 | 38 | 42 | 43 | 50 | 51 | F ₅₀ | F ₅₂ | F ₅₀ | U ₄₈ | F ₄₈ | F ₄₆ | U ₄₀ | F ₃₇ | 33 | J ₃₄ | U ₂₈ | | | |
| 10 | F | A | A | A | R | A | F | F | A | A | A | B | B | B | B | U ₄₃ | F | R | F | A | F | A | B | R | | |
| 11 | A | A | A | R | A | B | B | A | R | B | B | B | B | B | B | B | B | B | B | 37 | U ₂₉ | A | R | A | A | |
| 12 | A | B | A | B | B | A | B | B | B | B | R | B | B | B | B | B | B | R | R | R | R | F | A | A | A | |
| 13 | B | A | B | B | B | F | B | B | B | B | B | B | B | B | B | B | B | B | B | B | F ₂₇ | R | A | B | A | |
| 14 | A | A | A | B | A | A | B | R | R | B | B | B | B | B | B | B | B | B | B | A | F ₂₈ | A | A | A | A | |
| 15 | A | A | B | B | B | B | B | A | R | B | B | B | B | B | B | B | B | B | F ₄₁ | 39 | A | F | A | A | A | |
| 16 | A | A | B | A | B | B | B | B | A | B | B | F ₃₉ | B | B | B | B | B | B | U ₄₀ | B | R | R | R | R | | |
| 17 | A | A | A | A | A | A | U ₂₈ | A | B | A | B | U ₃₇ | B | B | B | B | B | B | 40 | 39 | 35 | U ₂₅ | F ₁₈ | F | A | |
| 18 | A | A | A | A | A | F | A | A | A | R | B | B | B | B | 45 | 48 | B | B | F | R | F ₃₈ | R | A | A | A | |
| 19 | A | A | A | A | A | A | A | A | B | B | B | R | B | 40 | 37 | 38 | 40 | 39 | B | 32 | 26 | F | A | A | A | |
| 20 | A | A | B | R | R | A | A | A | A | B | B | B | 45 | B | 44 | 42 | 45 | 45 | 43 | R | A | A | A | A | A | |
| 21 | A | A | A | B | A | A | F ₂₈ | F ₃₁ | 33 | 38 | 39 | 40 | 40 | 41 | 42 | 44 | 40 | 38 | 37 | 31 | F ₂₈ | 25 | F ₁₈ | U ₁₃ | | |
| 22 | A | B | F ₁₄ | F ₁₃ | F ₁₂ | F ₁₂ | F ₂₆ | 35 | 42 | 46 | 47 | 45 | V ₄₆ | 50 | 53 | 53 | 48 | 42 | F ₃₈ | F ₃₅ | 29 | U ₂₂ | U ₁₆ | U ₁₅ | | |
| 23 | U ₁₃ | U ₁₁ | A | B | A | A | A | B | B | F | A | B | B | U ₄₄ | 45 | 43 | 44 | 38 | 36 | 30 | U ₂₅ | U ₂₁ | A | A | A | |
| 24 | A | A | A | F | S | S | B | B | F | F | U ₄₀ | 43 | B | B | 50 | F | F | U ₆₁ | F ₄₉ | R | A | A | A | A | A | |
| 25 | A | A | A | R | R | R | R | A | C | C | C | C | 46 | 48 | 46 | F ₄₃ | F ₄₅ | 40 | 36 | 30 | F ₁₉ | U ₁₂ | A | A | A | |
| 26 | A | F ₂₀ | A | A | R | A | A | A | 38 | 40 | 40 | 47 | 58 | U ₅₆ | U ₇₇ | B | B | 45 | F ₃₆ | F ₃₁ | F | A | A | A | A | |
| 27 | A | A | B | B | B | A | R | A | B | B | U ₃₈ | 42 | 43 | 47 | 53 | 50 | F ₄₄ | 38 | A | A | S | A | A | A | A | |
| 28 | B | A | B | A | B | A | A | B | B | B | R | B | B | B | B | B | 46 | F ₃₈ | F ₃₂ | 27 | F | R | A | A | A | A |
| 29 | B | B | B | A | A | A | F | B | R | B | B | B | B | B | B | B | B | B | B | B | B | R | A | A | A | A |
| 30 | A | A | A | A | B | A | A | A | A | F ₃₇ | 41 | B | B | 46 | 51 | 56 | B | B | B | B | 25 | B | R | A | A | |
| 31 | A | A | A | B | A | B | B | B | A | B | B | B | U ₄₄ | 47 | 48 | 50 | 50 | 44 | F ₄₀ | F ₃₄ | B | A | A | B | A | |
| CNT | 4 | 3 | 2 | 2 | 2 | 4 | 7 | 6 | 8 | 11 | 11 | 13 | 12 | 15 | 18 | 17 | 14 | 19 | 19 | 18 | 15 | 10 | 7 | 6 | | |
| MED | F ₂₀ | U ₁₅ | F ₁₄ | F ₁₄ | F ₁₄ | F ₂₃ | F ₂₈ | 35 | 40 | 41 | 42 | 45 | 46 | 47 | 46 | 46 | 44 | 42 | 40 | 34 | F ₃₀ | F ₂₅ | F ₂₈ | U ₂₅ | | |
| UQ | 23 | F ₁₈ | | | | F ₂₈ | F ₃₂ | F ₃₅ | 42 | 44 | 46 | 47 | 48 | 49 | 51 | 50 | 48 | 46 | 43 | 42 | 38 | F ₃₅ | F ₃₂ | U ₂₈ | | |
| LQ | U ₁₆ | U ₁₃ | | | | F ₁₈ | F ₂₈ | 35 | 38 | 39 | 40 | 42 | 44 | 44 | 45 | 43 | F ₄₃ | 40 | 37 | 30 | F ₂₆ | U ₂₁ | U ₁₇ | U ₁₅ | | |

The Radio Research Laboratories, Japan

MAR, 1975

FOF2 (0.1 MHz)

IONOSPHERIC DATA

MAR. 1975

FOF1 (0.01 MHz)

45° E Mean Time (G. M. T. + 3h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|
| 1 | | | | | | | B | A | A | 340 | 360 | F | B | B | 360 | 370 | B | B | | | | | | |
| 2 | | | | | | | B | B | B | B | B | B | 370 | 370 | I C | 360 | 360 | 340 | L | | | | | |
| 3 | | | | | | | 290 | C | 340 | 350 | 370 | I C | 380 | 390 | 380 | 390 | U C | 370 | 360 | L | | | | |
| 4 | | | | | | | A | A | A | 340 | 350 | 360 | I C | H | L | L | L | L | L | | | | | |
| 5 | | | | | | | B | B | B | B | B | B | B | B | B | B | B | B | R | | | | | |
| 6 | | | | | | | B | B | B | 330 | 340 | B | B | B | B | B | B | B | | | | | | |
| 7 | | | | | | | L | 300 | 320 | 330 | 350 | 360 | 370 | A | A | A | L | | | | | | | |
| 8 | | | | | | | 290 | L | L | 370 | L | B | B | B | L | L | C | | | | | | | |
| 9 | | | | | | | 300 | 320 | 330 | 360 | 370 | 380 | L | U L | 380 | L | L | | | | | | | |
| 10 | | | | | | | F | A | A | A | B | B | B | B | B | A | | | | | | | | |
| 11 | | | | | | | | A | B | B | B | B | B | B | B | B | B | | | | | | | |
| 12 | | | | | | | | B | B | 330 | B | B | B | B | B | B | U F | | | | | | | |
| 13 | | | | | | | | B | B | B | B | B | B | B | B | B | B | | | | | | | |
| 14 | | | | | | | | A | B | B | B | B | B | B | B | B | B | | | | | | | |
| 15 | | | | | | | | A | B | B | B | B | B | B | B | B | B | | | | | | | |
| 16 | | | | | | | | A | B | B | 360 | B | B | B | B | B | B | | | | | | | |
| 17 | | | | | | | | B | A | B | 330 | B | B | B | B | B | B | | | | | | | |
| 18 | | | | | | | | A | 330 | B | B | B | B | B | 360 | 350 | B | | | | | | | |
| 19 | | | | | | | | B | B | B | 330 | B | 350 | 350 | 340 | 320 | L | | | | | | | |
| 20 | | | | | | | | A | B | B | B | 360 | B | L | B | L | | | | | | | | |
| 21 | | | | | | | | 300 | 320 | 340 | 360 | 360 | 360 | 350 | L | L | | | | | | | | |
| 22 | | | | | | | | L | L | U L | 350 | L | L | L | 340 | L | | | | | | | | |
| 23 | | | | | | | | F | A | B | B | B | 350 | 350 | 340 | | | | | | | | | |
| 24 | | | | | | | | F | F | F | 340 | B | B | B | L | 310 | | | | | | | | |
| 25 | | | | | | | | C | C | C | C | 350 | 340 | U L | 340 | L | | | | | | | | |
| 26 | | | | | | | | L | L | U L | 360 | 350 | 360 | U L | 350 | B | | | | | | | | |
| 27 | | | | | | | | B | B | 340 | R | 340 | 340 | B | U L | 320 | 310 | B | | | | | | |
| 28 | | | | | | | | B | A | B | B | B | B | B | L | 300 | | | | | | | | |
| 29 | | | | | | | | B | B | B | B | B | B | B | B | | | | | | | | | |
| 30 | | | | | | | | A | 310 | 330 | B | B | 350 | L | | | | | | | | | | |
| 31 | | | | | | | | B | B | B | B | B | B | U L | 330 | 330 | L | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| CNT | | | | | | | 1 | 3 | 4 | 10 | 12 | 11 | 10 | 11 | 13 | 8 | 7 | 1 | | | | | | |
| MED | | | | | | | 290 | 300 | 320 | 330 | 350 | 360 | 360 | 360 | 350 | 340 | 320 | 340 | | | | | | |
| UQ | | | | | | | 300 | 330 | 340 | 360 | 360 | 380 | 365 | 370 | 355 | 355 | | | | | | | | |
| LQ | | | | | | | 295 | 310 | 320 | 335 | 340 | 350 | 350 | 350 | 325 | 310 | | | | | | | | |

MAR. 1975

FOF1 (0.01 MHz)

IONOSPHERIC DATA

MAR. 1975

FOE (0.01 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69 00.4 S, Long. 39 35.4 E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | U K 180 | A | A | B | A | A | 280 | 270 | B | B | 270 | A | B | B | B | B | B | A | K 320 | K 350 | K 220 | | |
| 2 | A | B | B | B | B | B | B | B | B | B | B | B | 255 | B | 240 | U A 230 | A | 200 | B | B | B | 120 | U B 100 | K 270 | | |
| 3 | K 310 | A | K 320 | A | B | A | 190 | A | C | 220 | A | U C 260 | 260 | 255 | 240 | A | 230 | 230 | H | 175 | 110 | 115 | A | B | U K 160 | |
| 4 | A | A | B | A | A | U K 250 | A | A | A | 240 | 260 | 270 | 280 | 275 | 250 | A | 240 | 210 | H | 180 | R | 160 | A | B | A | 115 |
| 5 | 140 | 290 | K | A | A | A | A | B | B | C | B | B | B | B | B | B | B | B | B | B | B | K 230 | A | C | C | C |
| 6 | | U K 370 | B | K 350 | U K 380 | A | B | B | B | A | B | B | B | B | B | B | B | B | B | B | A | A | A | K 350 | K 300 | |
| 7 | 270 | K | A | A | A | K 350 | A | 235 | 190 | 200 | 215 | 240 | U B 250 | 250 | 240 | 220 | A | A | A | A | B | B | A | A | | |
| 8 | | B | B | B | A | 140 | A | A | B | A | B | U B 270 | B | B | U A 240 | H | 260 | C | C | A | 155 | A | 100 | B | B | |
| 9 | | B | A | A | C | A | A | B | B | B | 250 | 250 | 250 | 250 | 230 | 250 | 230 | F | 210 | 160 | 150 | A | 100 | C | | |
| 10 | | K 260 | A | A | A | A | U K 310 | A | A | A | A | B | B | B | B | A | K 420 | A | A | A | 150 | A | U K 390 | B | | |
| 11 | | A | B | A | B | B | B | A | B | B | B | B | B | B | B | B | B | B | B | B | A | A | K 175 | U K 230 | K 350 | |
| 12 | | | 280 | K | B | B | A | B | B | B | B | B | B | B | B | B | 235 | R | A | A | F | A | K 380 | K 400 | | |
| 13 | | B | B | B | A | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | U K 260 | U A 150 | B | U K 120 | | |
| 14 | | | B | B | A | A | B | B | A | B | B | B | B | B | B | B | B | B | B | A | 160 | A | 200 | K 320 | K 380 | |
| 15 | K 420 | | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | U F 200 | B | B | U F 140 | 200 | K 340 | K 390 | | |
| 16 | | | B | B | B | B | B | B | B | B | B | 250 | B | B | B | B | B | B | B | B | B | K 300 | 280 | K 310 | K 330 | |
| 17 | U K 300 | 320 | K | U K 410 | A | A | 230 | B | B | A | B | 250 | B | B | B | B | B | B | B | B | B | B | 120 | | | |
| 18 | 270 | K 350 | | A | A | 230 | A | A | A | R | B | B | B | B | A | B | B | B | R | U F 200 | A | K 325 | K 350 | | | |
| 19 | 325 | | 330 | K | A | A | A | A | B | B | B | B | B | B | B | B | A | U A 200 | B | B | B | B | 370 | K 370 | | |
| 20 | 170 | K | | 320 | 270 | K | A | 360 | A | A | B | B | B | B | B | B | B | B | B | 150 | 360 | K 340 | A | 370 | U K 350 | |
| 21 | | K 370 | | | A | A | A | A | H | 200 | A | A | U A 240 | 230 | 230 | 225 | 220 | A | A | S | A | A | B | | | |
| 22 | | | | 95 | A | A | A | U R 150 | 180 | 200 | 220 | 225 | B | B | 245 | 225 | 200 | 170 | 150 | A | B | | | | | |
| 23 | | | U K 280 | | A | A | B | B | B | A | A | B | B | B | B | B | B | B | B | B | B | B | B | | | |
| 24 | 310 | K 280 | U K | | B | A | B | B | 160 | 170 | 180 | A | B | B | B | 220 | 240 | B | 430 | 400 | K 190 | 95 | K 270 | U K 295 | | |
| 25 | U K 425 | | | 350 | K 330 | A | A | A | C | C | C | C | A | A | B | 230 | 220 | B | B | B | B | | U K 120 | K 175 | | |
| 26 | U K 270 | | | 270 | K 240 | A | A | B | K 275 | A | 220 | A | A | 245 | B | B | B | B | B | B | A | B | K 350 | | | |
| 27 | | | | | B | B | B | B | B | B | B | B | B | B | B | B | B | 160 | F | B | B | B | A | | U K 310 | |
| 28 | | | | | B | K 325 | K 400 | | B | B | B | A | B | B | B | B | B | B | B | B | K 170 | K 150 | K 300 | K 400 | K 400 | |
| 29 | | | | | B | B | U F 150 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 350 | K 320 | | |
| 30 | 210 | K 340 | K 330 | 330 | 295 | K | B | B | B | A | B | U B 225 | B | B | B | B | B | B | B | B | B | B | B | 220 | K 370 | |
| 31 | U K 350 | 350 | K | A | B | B | B | B | A | B | B | B | B | B | B | A | A | A | B | B | B | K 220 | K 330 | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | |
| CNT | 13 | 9 | 5 | 8 | 5 | 4 | 7 | 2 | 5 | 6 | 8 | 9 | 6 | 7 | 8 | 8 | 9 | 7 | 8 | 9 | 9 | 15 | 17 | 18 | | |
| MED | 300 | 340 | 320 | 300 | 330 | 240 | 235 | 170 | 200 | 218 | 232 | 250 | 252 | 250 | 240 | 228 | 230 | 200 | 168 | 160 | 190 | 200 | 330 | 320 | | |
| UQ | K 325 | K 350 | K 330 | K 350 | K 350 | K 288 | K 335 | | 200 | 240 | 255 | 260 | 260 | 262 | 242 | 240 | 240 | 210 | 190 | K 230 | K 300 | K 310 | K 350 | K 370 | | |
| LQ | K 270 | K 290 | K 280 | K 225 | K 270 | 185 | 210 | | 180 | 200 | 220 | 250 | 250 | 245 | 235 | 220 | 220 | 200 | 152 | 150 | 140 | 135 | 270 | 220 | | |

The Radio Research Laboratories, Japan

MAR. 1975

FOE (0.01 MHz)

IONOSPHERIC DATA

MAR. 1975

FOES (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|--------|--------|--------|--------|---------|--------|
| 1 | J A 34 | D C 52 | D S 70 | D C 33 | 51 | J A 52 | 58 | 45 | 38 | G | G | B | B | 29 | 28 | B | B | E B 35 | B | E B 20 | J A 35 | K 32 | K 35 | J A 50 | |
| 2 | D S 90 | 40 | B | B | B | B | B | B | B | B | B | E B 38 | G | E B 30 | 29 | 26 | J A 32 | G | E B 21 | E B 30 | E B 15 | J A 20 | G | K 27 | |
| 3 | J A 48 | 55 | J A 39 | 40 | 40 | 37 | G | J A 61 | C | 29 | 30 | C | 30 | 30 | 72 | 27 | G | G | G | 16 | G | J A 31 | 20 | J A 24 | |
| 4 | 60 | 52 | J A 105 | 44 | J A 76 | J A 61 | 48 | J A 51 | J A 46 | G | G | 30 | 31 | 30 | 27 | J A 31 | 27 | J A 21 | G | G | 15 | E B 15 | 18 | J A 27 | |
| 5 | J A 25 | K 29 | J A 72 | J A 51 | 47 | J A 46 | B | B | C | B | B | B | B | B | B | B | B | B | B | B | 27 | J A 39 | C | C | |
| 6 | 46 | D S 70 | B | K 35 | K 38 | 35 | B | B | B | 28 | E B 30 | B | B | B | B | B | B | B | B | J A 34 | J A 61 | J A 34 | K 35 | K 30 | |
| 7 | 35 | 40 | J A 45 | J A 64 | J A 40 | J A 40 | 31 | G | 21 | 22 | 28 | 28 | 31 | J A 45 | 101 | 142 | J A 135 | J A 81 | J A 105 | 43 | 35 | J A 60 | J A 61 | D S 47 | |
| 8 | J A 31 | B | B | B | J A 28 | J A 24 | J A 27 | 26 | E B 23 | 26 | E B 34 | 30 | B | B | 35 | 25 | C | C | 16 | 22 | 12 | B | E B 9 | D S 32 | |
| 9 | E S 10 | E B 10 | 26 | 25 | 30 | 25 | J A 27 | E B 20 | E B 27 | E B 26 | G | 30 | 30 | J A 36 | 29 | J A 27 | 22 | 28 | 24 | G | 15 | G | E C 12 | J A 23 | |
| 10 | J A 21 | D S 31 | J A 120 | 49 | J A 26 | 40 | 38 | 32 | J A 47 | 71 | 52 | B | B | B | B | 36 | J A 56 | 33 | 78 | 110 | 81 | 39 | B | J A 136 | |
| 11 | 65 | 41 | 35 | 32 | J A 54 | B | B | 70 | 38 | B | B | B | B | B | B | B | B | B | E B 20 | 35 | 35 | 17 | 36 | K 35 | |
| 12 | J A 70 | B | J A 63 | B | B | 35 | B | B | B | B | E B 27 | B | B | B | B | B | 27 | B | 32 | 26 | J A 26 | J A 33 | J A 64 | J A 74 | |
| 13 | 109 | 45 | B | B | B | 32 | B | B | B | B | B | B | B | B | B | B | B | B | B | E B 16 | K 26 | 109 | 38 | J A 81 | |
| 14 | 45 | J A 46 | 38 | 39 | 43 | 41 | B | 39 | 37 | B | B | B | B | B | B | B | B | B | B | 33 | 25 | J A 36 | 27 | K 43 | |
| 15 | 51 | J A 64 | B | 41 | 65 | B | B | 40 | 35 | B | B | B | B | B | B | B | B | B | G | E B 25 | 40 | G | 29 | K 39 | |
| 16 | 76 | 40 | 50 | 49 | B | B | B | B | 47 | B | B | G | B | B | B | B | B | B | B | 25 | B | 32 | 28 | K 33 | |
| 17 | J A 61 | J A 51 | 42 | 135 | J A 74 | J A 51 | K 23 | 33 | 53 | 40 | B | 29 | B | B | B | B | B | E B 27 | E B 23 | E B 18 | E B 22 | 30 | 17 | J A 23 | |
| 18 | 27 | J A 50 | J A 61 | J A 44 | 54 | J A 32 | J A 50 | 38 | 36 | G | B | B | B | B | 27 | E B 26 | B | B | 24 | 39 | 35 | K 35 | J A 49 | J A 52 | |
| 19 | 38 | D S 67 | 42 | 80 | 42 | 44 | 45 | 50 | B | B | B | E B 28 | B | E B 28 | E B 27 | E B 25 | 28 | 20 | B | E B 23 | E B 16 | 26 | 37 | K 37 | |
| 20 | J A 49 | 47 | 38 | 32 | K 27 | K 43 | K 36 | 55 | J A 49 | B | B | B | E B 28 | B | E B 28 | E B 35 | E B 23 | E B 23 | G | K 36 | J A 52 | J A 32 | J A 46 | 45 | |
| 21 | 40 | K 37 | S 60 | B | J A 39 | 35 | 26 | 39 | G | 28 | 24 | 30 | G | G | G | G | 27 | 19 | G | 19 | E B 13 | E B 10 | 19 | J A 27 | |
| 22 | 32 | B | J A 54 | J A 62 | J A 34 | J A 28 | 41 | 28 | 25 | 25 | 24 | 25 | E B 27 | E B 32 | 25 | 26 | G | G | 15 | 47 | J A 20 | 20 | 13 | J A 30 | |
| 23 | 27 | 30 | 28 | B | 53 | J A 49 | 42 | B | B | 35 | 40 | B | B | E B 28 | E B 27 | E B 28 | E B 27 | E B 21 | E B 21 | E B 23 | J A 37 | J A 54 | J A 29 | J A 30 | |
| 24 | 31 | K 28 | 40 | J A 72 | 31 | J A 35 | B | B | 20 | 22 | 27 | J A 33 | B | B | E B 38 | G | G | E B 35 | K 43 | K 40 | 32 | J A 24 | 27 | K 32 | |
| 25 | J A 85 | J A 60 | 36 | K 35 | K 33 | 35 | 32 | 45 | C | C | C | C | 33 | J A 37 | G | G | E B 20 | E B 26 | E B 16 | 25 | J A 22 | J A 28 | J A 27 | K 17 | |
| 26 | K 27 | 30 | J A 33 | 49 | 29 | J A 34 | 44 | 40 | 32 | J A 34 | 26 | 28 | 29 | G | E B 23 | E B 28 | B | B | E B 31 | E B 20 | 34 | 25 | J A 27 | K 35 | J A 37 |
| 27 | 44 | J A 61 | D S 69 | B | 90 | 55 | 32 | 57 | B | B | E B 35 | E B 31 | E B 28 | E B 27 | E B 40 | E B 26 | G | E B 30 | J A 42 | J A 57 | 35 | J A 65 | 68 | J A 40 | |
| 28 | 123 | J A 54 | 57 | 57 | B | J A 48 | K 40 | B | B | B | 33 | B | B | B | B | E B 28 | E B 23 | E B 25 | E B 23 | 24 | 20 | K 30 | K 40 | K 40 | |
| 29 | 142 | 46 | 29 | 40 | 41 | 40 | J A 34 | B | 32 | B | B | B | B | B | B | B | B | B | B | B | 20 | K 35 | K 32 | 31 | |
| 30 | 27 | K 34 | K 33 | 40 | B | 42 | 42 | 46 | 45 | E B 22 | 25 | B | B | E B 29 | E B 28 | E B 31 | B | B | B | B | E B 22 | B | K 22 | K 37 | |
| 31 | 38 | J A 61 | J A 85 | B | 45 | B | 60 | B | 50 | B | B | B | E B 36 | E B 37 | E B 25 | 30 | 29 | 30 | E B 15 | E B 11 | B | J A 33 | K 33 | B | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | 31 | 28 | 26 | 23 | 25 | 26 | 21 | 20 | 20 | 16 | 17 | 13 | 12 | 15 | 19 | 19 | 17 | 20 | 24 | 28 | 30 | 28 | 29 | 29 | |
| MED | 44 | 46 | 44 | 44 | 41 | 40 | 38 | 40 | 36 | 26 | 26 | 29 | 30 | E C 30 | E C 28 | E C 27 | 27 | E C 26 | E C 23 | 24 | 26 | 30 | 33 | 36 | |
| UQ | 63 | J A 56 | J A 63 | 54 | 53 | J A 46 | 44 | 50 | 46 | 32 | U 30 | 30 | 30 | U 32 | U 30 | 28 | 28 | E R 30 | 32 | 36 | 35 | J A 34 | 37 | 43 | |
| LQ | 31 | 37 | 36 | 38 | 33 | 35 | 31 | 32 | 24 | E G 22 | 24 | 28 | 28 | E B 28 | | 26 | E G 20 | U 18 | E B 16 | E G 20 | U 14 | 25 | 20 | 30 | |

MAR. 1975

FOES (0.1 MHz)

IONOSPHERIC DATA

MAR, 1975

F=MIN (0.1 MHZ)

45° E Mean Time (G. M. T. + 3 h)

Station **SYOWA STATION** Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------|--------|----|--------|--------|--------|----|----|----|----|----|----|----|----|----|----|----|--------|----|----|----|----|--------|--------|--------|
| 1 | E C 9 | 8 | 7 | 8 | 11 | 16 | 31 | 13 | 23 | 14 | 21 | B | B | 25 | 13 | B | B | 35 | B | 20 | 10 | 8 | 12 | 16 |
| 2 | 10 | 17 | B | B | B | B | B | B | B | B | B | 38 | 16 | 30 | 19 | 19 | 15 | 15 | 21 | 30 | 15 | 10 | 10 | 7 |
| 3 | 9 | 20 | 10 | 10 | 20 | 10 | 13 | 16 | 10 | 18 | 25 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 10 | 10 | 9 | 8 |
| 4 | 9 | 7 | 18 | 8 | 11 | 10 | 10 | 22 | 10 | 10 | 10 | 25 | 22 | 22 | 14 | 12 | 15 | 10 | 13 | 15 | 12 | 15 | 10 | 9 |
| 5 | 10 | 10 | 10 | 10 | 13 | 10 | B | B | C | B | B | B | B | B | B | B | B | B | B | 15 | 8 | C | C | C |
| 6 | E C 25 | 14 | B | 10 | 25 | 22 | B | B | B | 23 | 30 | B | B | B | B | B | B | B | B | 13 | 10 | 10 | 10 | 10 |
| 7 | 8 | 10 | 10 | 8 | 15 | 10 | 10 | 12 | 10 | 10 | 14 | 26 | 18 | 15 | 11 | 11 | 11 | 11 | 13 | 20 | 20 | 11 | 10 | 9 |
| 8 | 9 | B | B | B | 7 | 9 | 14 | 16 | 23 | 15 | 34 | 27 | B | B | 10 | 10 | C | C | 12 | 11 | 9 | B | 9 | 9 |
| 9 | E S 10 | 10 | 7 | 8 | E C 15 | 9 | 9 | 20 | 27 | 26 | 21 | 20 | 15 | 13 | 12 | 14 | 13 | 14 | 13 | 13 | 9 | 9 | E C 12 | E S 18 |
| 10 | E S 16 | 10 | 15 | 15 | 16 | 15 | 11 | 15 | 16 | 15 | 22 | B | B | B | B | 17 | 19 | 10 | 14 | 10 | 8 | E C 11 | B | 27 |
| 11 | 8 | 10 | 10 | 24 | 11 | B | B | 26 | 12 | B | B | B | B | B | B | B | B | B | 20 | 15 | 9 | 10 | 9 | 10 |
| 12 | 9 | B | 10 | B | B | 15 | B | B | B | B | 27 | B | B | B | B | B | 21 | B | 12 | 10 | 9 | 9 | 17 | 20 |
| 13 | 58 | 20 | B | B | 8 | 10 | B | B | B | B | B | B | B | B | B | B | B | B | B | 16 | 23 | 14 | 23 | 8 |
| 14 | 18 | 11 | 19 | 27 | 15 | 15 | B | 23 | 15 | B | B | B | B | B | B | B | B | B | 15 | 10 | 9 | 10 | 9 | 22 |
| 15 | 18 | 13 | B | 27 | 28 | B | B | 23 | 27 | B | B | B | B | B | B | B | B | 19 | 25 | 22 | 10 | 10 | 10 | 18 |
| 16 | 10 | 22 | 27 | 21 | B | B | B | B | 25 | B | B | 24 | B | B | B | B | B | B | 18 | B | 12 | 9 | 9 | 10 |
| 17 | 16 | 9 | 23 | 22 | 12 | 12 | 11 | 28 | 43 | 22 | B | 20 | B | B | B | B | B | 27 | 23 | 18 | 22 | 11 | 9 | 8 |
| 18 | 8 | 10 | 15 | 11 | 15 | 12 | 15 | 18 | 20 | 22 | B | B | B | B | 21 | 26 | B | B | 15 | 10 | 10 | 8 | 9 | 9 |
| 19 | 9 | 10 | 9 | 10 | 10 | 15 | 13 | 20 | B | B | B | 28 | B | 28 | 27 | 25 | E C 22 | 17 | B | 23 | 16 | 9 | 9 | 10 |
| 20 | 9 | 20 | 28 | 15 | 17 | 17 | 11 | 12 | 18 | B | B | B | 28 | B | 28 | 35 | 23 | 23 | 14 | 10 | 9 | 8 | 10 | 23 |
| 21 | 12 | 15 | 20 | B | 14 | 15 | 12 | 15 | 10 | 13 | 15 | 14 | 15 | 17 | 16 | 15 | 15 | 15 | 15 | 11 | 13 | 10 | 9 | E S 10 |
| 22 | E S 15 | B | 10 | 8 | 8 | 8 | 9 | 12 | 15 | 15 | 17 | 21 | 37 | 32 | 20 | 15 | 15 | 13 | 10 | 9 | 9 | 9 | 9 | 7 |
| 23 | 6 | 6 | 9 | B | 10 | 10 | 23 | B | B | 17 | 23 | B | B | 28 | 27 | 28 | 27 | 21 | 21 | 23 | 17 | 10 | 8 | 9 |
| 24 | 10 | 10 | 9 | 8 | 10 | 9 | B | B | 10 | 13 | 13 | 17 | B | B | 38 | 18 | 15 | 35 | 12 | 17 | 10 | 8 | 9 | 10 |
| 25 | 17 | 10 | 9 | 10 | 10 | 14 | 11 | 10 | C | C | C | C | 15 | 15 | 13 | 18 | 20 | 26 | 16 | 20 | 10 | 9 | 10 | 10 |
| 26 | 10 | 9 | 9 | 10 | E C 10 | 9 | 15 | 24 | 13 | 12 | 15 | 12 | 11 | 10 | 28 | B | B | 31 | 20 | 10 | 12 | 10 | 9 | 9 |
| 27 | 11 | 15 | 22 | B | 43 | 25 | 23 | 22 | B | B | 35 | 31 | 28 | 27 | 40 | 26 | 15 | 30 | 15 | 15 | 6 | 11 | 14 | 9 |
| 28 | 23 | 19 | 25 | 15 | B | 10 | 23 | B | B | B | 22 | B | B | B | B | 28 | 23 | 25 | 23 | 10 | 12 | 9 | 10 | 17 |
| 29 | 38 | 26 | 23 | 19 | 22 | 24 | 12 | B | 27 | B | B | B | B | B | B | B | B | B | B | B | 11 | 9 | 9 | 15 |
| 30 | 11 | 15 | 13 | 28 | B | 17 | 17 | 21 | 15 | 22 | 22 | B | B | 29 | 28 | 31 | B | B | B | B | 22 | B | 15 | 20 |
| 31 | 21 | 9 | E C 13 | B | 18 | B | 38 | B | 20 | B | B | B | 36 | 37 | 25 | 15 | 14 | 15 | 15 | 11 | B | 9 | 10 | B |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| CNT | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 29 | 30 | 30 | 30 | 31 | 31 | 31 | 31 | 30 | 30 | 31 | 31 | 31 | 30 | 30 | 30 |
| MED | 10 | 11 | 15 | 15 | 15 | 15 | 17 | 23 | 23 | 24 | 32 | B | B | B | 28 | 28 | 23 | 26 | 16 | 15 | 10 | 10 | 10 | 10 |
| UQ | 15 | 20 | 24 | D B 28 | 26 | 20 | B | B | B | B | B | B | B | B | B | B | B | B | 24 | 20 | 14 | 11 | 10 | 18 |
| LQ | 9 | 10 | 10 | 10 | 10 | 10 | 12 | 16 | 15 | 15 | 21 | 24 | 25 | 26 | 18 | 16 | 15 | 15 | 14 | 10 | 9 | 9 | 9 | 9 |

The Radio Research Laboratories, Japan

MAR, 1975

F=MIN (0.1 MHZ)

IONOSPHERIC DATA

MAR. 1975

M(3000)F2 (0.01)

45 E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69 00.4 S, Long. 39 35.4 E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | | | | | |
|-------------|----------------|----------------|----------------|----------------|-----|-----|----------------|-----|-----|----------------|----------------|-----|----------------|----------------|----------------|-----|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---|
| 1 | F | C | F | F | A | A | A | A | R | 280 | 270 | F | B | B | F | F | B | B | U _R | B | F | F | A | A | A | | | | | |
| 2 | A | A | B | B | B | B | B | B | B | B | B | B | 275 | 285 | 300 | 290 | 290 | 290 | 320 | 325 | 335 | 330 | 315 | F | A | | | | | |
| 3 | A | A | A | A | A | A | F | F | C | 280 | 265 | 275 | 305 | 275 | 290 | 300 | 290 | 300 | 330 | 340 | 315 | F | F | F | F | | | | | |
| 4 | A | A | A | F | A | F | A | A | A | F | F | 280 | I | C | 280 | 305 | 305 | 325 | 325 | 325 | 330 | 325 | 315 | F | A | | | | | |
| 5 | 265 | A | A | A | A | A | B | B | C | B | B | B | B | B | B | B | B | B | B | B | R | A | C | C | C | | | | | |
| 6 | C | A | B | R | R | R | B | B | B | U _R | R | B | B | B | B | B | B | B | R | B | A | A | A | A | A | | | | | |
| 7 | A | A | A | A | A | A | F | F | 260 | 255 | 270 | 260 | 265 | 280 | 295 | A | A | A | F | F | 330 | 325 | 330 | 340 | 320 | 300 | 325 | U _F | 310 | |
| 8 | U _F | B | B | B | 280 | F | F | 305 | 255 | 275 | 265 | R | 280 | B | B | 305 | 340 | F | C | C | 325 | F | 325 | 330 | B | 315 | F | 335 | S | |
| 9 | U _F | U _F | U _F | U _F | F | F | F | 300 | 260 | 255 | 260 | 255 | 300 | 280 | F | F | F | F | F | 330 | 350 | U _F | U _F | F | 310 | 310 | J | S | S | |
| 10 | F | A | A | A | R | A | F | F | A | A | A | B | B | B | B | F | F | F | R | F | A | F | A | B | A | A | A | A | A | |
| 11 | A | A | A | R | A | B | B | A | R | B | B | B | B | B | B | B | B | B | B | 320 | F | A | R | A | A | A | A | A | A | A |
| 12 | A | B | A | B | B | A | B | B | B | B | R | B | B | B | B | B | B | R | R | R | R | F | A | A | A | A | A | A | A | A |
| 13 | B | A | B | B | B | F | B | B | B | B | B | B | B | B | B | B | B | B | B | B | F | R | A | B | A | A | A | A | A | A |
| 14 | A | A | A | B | A | A | B | R | R | B | B | B | B | B | B | B | B | B | B | A | F | A | A | A | A | A | A | A | A | A |
| 15 | A | A | B | B | B | B | B | A | R | B | B | B | B | B | B | B | B | B | F | 320 | 310 | A | F | A | A | A | A | A | A | A |
| 16 | A | A | B | A | B | B | B | B | A | B | B | F | B | B | B | B | B | B | U _F | U _F | B | R | R | R | R | R | R | R | R | R |
| 17 | A | A | A | A | A | A | U _F | A | B | A | B | R | B | B | B | B | B | B | 340 | 335 | 330 | R | 290 | F | A | A | A | A | A | A |
| 18 | A | A | A | A | A | F | A | A | A | R | B | B | B | B | 310 | 295 | B | B | F | R | 285 | R | A | A | A | A | A | A | A | A |
| 19 | A | A | A | A | A | A | A | A | B | B | B | R | B | B | 280 | 250 | 290 | 300 | F | F | B | 320 | 310 | F | A | A | A | A | A | A |
| 20 | A | A | B | R | R | A | A | A | A | B | B | B | B | 280 | B | 315 | 310 | 300 | 335 | 290 | R | A | A | A | A | A | A | A | A | A |
| 21 | A | A | A | B | A | A | F | F | 240 | 265 | 260 | 255 | 275 | 310 | 320 | 340 | 350 | 340 | 340 | 340 | 320 | 310 | 295 | F | S | S | S | S | S | |
| 22 | A | B | F | F | F | F | F | 310 | 305 | 310 | 295 | 300 | 315 | 330 | 345 | 365 | 355 | 345 | 340 | 310 | U _F | U _F | U _F | U _F | U _F | U _F | U _F | U _F | U _F | |
| 23 | U _F | S | A | B | A | A | A | B | B | F | A | B | B | U _R | 270 | 275 | 315 | 320 | 320 | 305 | U _F | U _F | F | A | A | A | A | A | A | A |
| 24 | A | A | A | F | S | S | B | B | F | F | U _F | 280 | B | B | 295 | F | F | F | F | 285 | R | A | A | A | A | A | A | A | A | A |
| 25 | A | A | A | R | R | R | R | A | C | C | C | C | 305 | 330 | 320 | 335 | F | F | 335 | 350 | 330 | 290 | F | F | A | A | A | A | A | A |
| 26 | A | 300 | A | A | R | A | A | A | 295 | 300 | 295 | 300 | 325 | U _F | U _F | B | B | 320 | 340 | F | F | F | F | A | A | A | A | A | A | A |
| 27 | A | A | B | B | B | A | R | A | B | B | U _R | 270 | 280 | 265 | 285 | 270 | 320 | 275 | 290 | A | A | S | A | A | A | A | A | A | A | A |
| 28 | B | A | B | A | B | A | A | B | B | B | R | B | B | B | B | B | 285 | U _F | U _F | 280 | 305 | F | R | A | A | A | A | A | A | A |
| 29 | B | B | B | A | A | A | F | B | R | B | B | B | B | B | B | B | B | B | B | B | B | B | R | A | A | A | A | A | A | A |
| 30 | A | A | A | A | B | A | A | A | A | 290 | 285 | B | B | 295 | 295 | 340 | B | R | B | B | B | 310 | B | R | A | A | A | A | A | A |
| 31 | A | A | A | B | A | B | B | B | A | B | B | B | U _R | 305 | 310 | 315 | 315 | 340 | 325 | 325 | F | F | B | A | A | A | A | A | A | A |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | | | | | |
| CNT | 4 | 2 | 2 | 2 | 2 | 3 | 7 | 6 | 7 | 10 | 10 | 12 | 12 | 13 | 18 | 16 | 12 | 18 | 19 | 17 | 13 | 7 | 6 | 4 | | | | | | |
| MED | 295 | 290 | 260 | 262 | 290 | 285 | 285 | 262 | 275 | 268 | 270 | 280 | 288 | 295 | 302 | 312 | 308 | 325 | 325 | 325 | 310 | 310 | 305 | 308 | | | | | | |
| UQ | 305 | | | | 310 | 295 | 265 | 285 | 290 | 295 | 288 | 302 | 310 | 315 | 338 | 335 | 335 | 340 | 330 | 325 | 315 | 315 | 322 | | | | | | | |
| LQ | 278 | | | | 278 | 282 | 255 | 262 | 260 | 265 | 275 | 280 | 280 | 285 | 290 | 295 | 320 | 315 | 315 | 310 | 305 | 295 | 295 | | | | | | | |

MAR. 1975

M(3000)F2 (0.01)

IONOSPHERIC DATA

MAR. 1975

H^oF2 (KM)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | 395 | 400 | B | B | 375 | 365 | B | B | | | | | | | | | |
| 2 | | | | | | | B | B | B | B | B | 400 | 380 | 360 | 370 | 370 | 355 | 285 | 250 | | | | | | | |
| 3 | | | | | | 350 | C | 395 | C | 330 | 380 | 360 | 350 | 350 | U ^o C | 355 | 300 | 245 | | | | | | | | |
| 4 | | | | | | A | A | A | U ^o H | 430 | U ^o F | 470 | 400 | 375 | 400 | 320 | L | L | L | | | | | | | |
| 5 | | | | | | B | B | C | B | B | B | B | B | B | B | B | B | B | B | | | | | | | |
| 6 | | | | | | B | B | B | L | R | B | B | B | B | B | B | B | B | | | | | | | | |
| 7 | | | | | | 450 | 445 | 420 | 445 | 400 | 365 | 340 | | A | A | A | 290 | | | | | | | | | |
| 8 | | | | | | 480 | | L | L | R | L | L | B | B | L | 255 | C | | | | | | | | | |
| 9 | | | | | | 450 | U ^o R | 475 | 420 | 430 | 330 | 290 | | L | 280 | L | L | | | | | | | | | |
| 10 | | | | | | F | A | A | A | A | B | B | B | B | B | 620 | | | | | | | | | | |
| 11 | | | | | | | A | B | B | B | B | B | B | B | B | B | B | B | | | | | | | | |
| 12 | | | | | | | B | B | R | B | B | B | B | B | B | B | B | F | | | | | | | | |
| 13 | | | | | | | B | B | B | B | B | B | B | B | B | B | B | B | | | | | | | | |
| 14 | | | | | | | A | B | B | B | B | B | B | B | B | B | B | B | | | | | | | | |
| 15 | | | | | | | R | B | B | B | B | B | B | B | B | B | B | B | | | | | | | | |
| 16 | | | | | | | A | B | B | 455 | B | B | B | B | B | B | B | B | | | | | | | | |
| 17 | | | | | | | B | A | B | R | B | B | B | B | B | B | B | B | | | | | | | | |
| 18 | | | | | | | A | R | B | B | B | B | B | B | 330 | 330 | B | | | | | | | | | |
| 19 | | | | | | | B | B | B | R | B | B | 410 | 530 | 375 | 330 | L | | | | | | | | | |
| 20 | | | | | | | A | B | B | B | B | 375 | B | L | L | L | L | L | | | | | | | | |
| 21 | | | | | | | | | 520 | 430 | 450 | 460 | 425 | 330 | 315 | 260 | L | | | | | | | | | |
| 22 | | | | | | | L | L | | 290 | L | 350 | 295 | 280 | 240 | | | | | | | | | | | |
| 23 | | | | | | | | F | A | B | B | B | 370 | 370 | 370 | | | | | | | | | | | |
| 24 | | | | | | | 400 | U ^o F | 400 | 425 | 370 | B | B | 330 | L | 295 | | | | | | | | | | |
| 25 | | | | | | | C | C | C | C | 330 | 280 | 280 | L | | | | | | | | | | | | |
| 26 | | | | | | | | L | L | 315 | 265 | 340 | 275 | B | | | | | | | | | | | | |
| 27 | | | | | | | | B | E | B | 430 | 395 | 405 | 360 | 335 | 260 | 360 | 330 | | | | | | | | |
| 28 | | | | | | | | B | R | B | B | B | B | B | 350 | 455 | | | | | | | | | | |
| 29 | | | | | | | | B | B | B | B | B | B | B | B | | | | | | | | | | | |
| 30 | | | | | | | | A | 395 | 370 | B | B | 340 | 300 | | | | | | | | | | | | |
| 31 | | | | | | | | B | B | B | 345 | 310 | 290 | 290 | 240 | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | |
| CNT | | | | | | | 2 | 3 | 5 | 7 | 10 | 10 | 12 | 13 | 16 | 12 | 8 | 3 | 1 | | | | | | | |
| MED | | | | | | | 400 | 450 | 420 | 420 | 406 | 388 | 355 | 350 | 325 | 340 | 315 | 285 | 250 | | | | | | | |
| UQ | | | | | | | 465 | 475 | 430 | 430 | 400 | 378 | 370 | 358 | 370 | 358 | 308 | | | | | | | | | |
| LQ | | | | | | | 448 | 400 | 398 | 370 | 365 | 335 | 330 | 285 | 260 | 292 | 265 | | | | | | | | | |

The Radio Research Laboratories, Japan

MAR. 1975

H^oF2 (KM)

IONOSPHERIC DATA

MAR, 1975

H^oF (KM)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00' 4" S, Long. 39° 35' 4" E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | |
|-------------|---------|---------|-----------|---------|-----|-----|---------|-----|-----|---------|-----|-------|-----|-----|---------|---------|---------|-----|---------|---------|-----------|-----|---------|---------|---|---|
| 1 | U F 260 | A | U H 370 | F | A | A | B | A | A | E R 300 | 230 | B | B | 225 | 245 | B | B | B | B | H 270 | 270 | A | A | A | | |
| 2 | A | A | B | B | B | B | B | B | B | B | B | B | 225 | 230 | 215 | U H 210 | 230 | 220 | 230 | B 250 | 240 | 230 | 310 | A | | |
| 3 | A | A | A | A | A | A | 285 | 255 | C | H 215 | 250 | C | 210 | 200 | 215 | E C 240 | 230 | 220 | 225 | H 230 | 250 | 455 | F | F | | |
| 4 | A | A | A | 360 | A | 325 | A | A | A | 210 | 230 | 230 | 230 | 220 | 230 | 230 | 240 | 220 | 230 | 250 | 240 | 245 | 250 | 250 | | |
| 5 | 410 | A | A | A | A | A | B | B | B | B | B | B | B | B | B | B | B | R | B | A | A | C | C | C | | |
| 6 | C | A | B | R | R | R | B | B | B | 265 | 275 | B | B | B | B | B | B | B | B | A | A | A | A | A | | |
| 7 | A | A | A | A | A | A | 410 | 280 | 245 | 240 | 240 | 250 | 220 | A | A | A | 250 | 270 | 250 | 245 | 255 | 295 | A | 265 | | |
| 8 | 270 | B | B | B | 350 | 300 | 260 | 250 | 230 | 240 | B | 230 | B | B | 210 | 210 | C | C | 240 | 240 | 225 | B | 230 | 225 | | |
| 9 | 250 | 300 | B E A 350 | A | C | 280 | 245 | 245 | 230 | 220 | 240 | 235 | 215 | 200 | 210 | 210 | 195 | 240 | 230 | 230 | 215 | 230 | 240 | E S 280 | | |
| 10 | S | A | A | A | A | A | A | F | A | A | A | B | A | A | A | A | U O 250 | R | F | A | F | A | B | R | | |
| 11 | A | A | A | A | A | B | B | A | A | A | A | A | B | B | B | B | B | R | H 250 | A | A | R | A | A | | |
| 12 | A | B | A | B | B | A | B | B | B | B | 245 | B | B | B | B | B | B | B | A | A | A | A | A | A | | |
| 13 | B | A | B | B | B | F | B | B | B | B | B | B | B | B | B | B | B | B | B | 275 | R | A | B | A | | |
| 14 | B | A | B | B | A | A | B | A | A | B | B | B | B | B | B | B | B | R | A | 280 | A | A | A | A | | |
| 15 | A | A | B | B | B | B | B | A | A | B | B | B | B | B | B | B | B | 245 | 265 | A | F | A | A | A | | |
| 16 | A | B | B | B | B | B | B | B | A | B | B | 240 | B | B | B | B | B | B | H 300 | B | R | R | R | R | | |
| 17 | A | A | B | A | A | A | 340 | B | B | A | B | 250 | B | B | B | B | B | B | 250 | 250 | 230 | B | 280 | S A | | |
| 18 | A | A | A | A | A | 365 | A | A | A | 250 | B | B | B | B | 230 | 225 | B | R | 265 | U H 355 | 340 | R | A | A | | |
| 19 | A | A | A | A | A | A | A | A | B | B | B | 245 | B | 230 | 240 | 240 | 270 | 245 | B | 270 | E A 400 | A | A | A | | |
| 20 | A | B | B | R | R | A | A | A | A | B | B | B | 250 | B | 240 | B | H 240 | 245 | 270 | R | A | A | A | A | | |
| 21 | A | A | B | B | A | A | E A 350 | 310 | 250 | 240 | 230 | 220 | 220 | 230 | 215 | 230 | 220 | 235 | 240 | 230 | 240 | 230 | 270 | S | | |
| 22 | S | B | B | U S 380 | 350 | 325 | 265 | 250 | 230 | 220 | 220 | 220 | 205 | 250 | 200 | 220 | 225 | 200 | H 210 | 225 | 240 | 230 | E S 250 | E S 250 | | |
| 23 | E S 280 | A | A | B | A | A | A | B | B | F | A | B | B | 255 | 250 | E B 255 | 250 | 250 | 245 | 280 | B E A 325 | 285 | A | A | | |
| 24 | A | A | A | F | F | A | B | B | 220 | 215 | 200 | H 255 | B | B | B | 245 | 220 | 315 | 375 | R | A | A | A | A | | |
| 25 | A | A | A | R | R | A | F | A | C | C | C | C | 220 | 230 | 225 | 230 | U H 230 | 245 | 230 | 240 | 275 | A | A | A | | |
| 26 | A | U S 300 | A | A | A | A | A | A | 330 | 250 | 230 | 230 | 230 | 210 | 250 | B | B | 255 | B 230 | 280 | 280 | A | A | A | | |
| 27 | A | A | B | B | B | B | A | A | B | B | B | B | 250 | 250 | B | 240 | 225 | F | B | A | A | S | A | A | | |
| 28 | B | B | B | A | B | A | A | B | B | B | A | B | B | B | B | E B 290 | 270 | R | E B 330 | A | A | A | A | A | | |
| 29 | B | B | B | B | B | B | U O 340 | B | A | B | B | B | B | B | B | B | B | R | B | B | A | A | A | A | | |
| 30 | A | A | A | A | B | A | A | A | A | 255 | 240 | A | B | B | E B 255 | 240 | 245 | B | B | B | B | B | R | A | | |
| 31 | A | A | A | B | A | B | B | B | A | B | B | B | B | B | B | B | 220 | 240 | 240 | 250 | 235 | 240 | B | A | A | B |
| CNT | 5 | 2 | 2 | 2 | 2 | 5 | 8 | 6 | 7 | 13 | 12 | 11 | 11 | 13 | 16 | 16 | 17 | 16 | 20 | 18 | 14 | 10 | 6 | 5 | | |
| MED | 265 | 300 | 360 | 370 | 350 | 325 | U 294 | 252 | 230 | 240 | 235 | 235 | 220 | 230 | 228 | 232 | 240 | 245 | 241 | 248 | 248 | 250 | 250 | U 238 | | |
| UQ | 280 | | | | | 325 | 342 | 280 | 248 | 250 | 242 | 248 | 230 | 240 | 240 | 241 | 250 | 250 | 262 | 275 | 272 | 290 | A 270 | 258 | | |
| LQ | 260 | | | | | 300 | 262 | 250 | 230 | 220 | 230 | 230 | 218 | 220 | 215 | 222 | 225 | 228 | 230 | 230 | 240 | 230 | 230 | 250 | | |

MAR, 1975

H^oF (KM)

IONOSPHERIC DATA

MAR. 1975

H^oES (KM)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S. Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | 100 | 110 | 110 ^K | 100 | 110 | 100 | 100 | 120 | G | G | B | B | 125 | 115 | B | B | B | B | B | 150 | 105 ^K | 115 ^K | 95 ^K |
| 2 | 95 | 95 | B | B | B | B | B | B | B | B | B | B | G | B | 110 | 110 | 100 | 100 | B | B | B | 100 | G | 110 ^K |
| 3 | 110 ^K | 120 ^K | 100 ^K | 95 | 95 | 100 | G | 100 | C | 125 | 110 | C | 135 | 125 | 125 | 125 | G | G | G | 105 | G | 130 | 115 | 150 ^K |
| 4 | 100 ^K | 100 | 120 | 100 | 100 | 120 ^K | 100 | 100 | 100 | G | G | 115 | 120 | 115 | 110 | 100 | 100 | 100 | G | G | 100 | B | 100 | 105 |
| 5 | 100 | 130 ^K | 100 | 100 | 100 | 100 | B | B | C | B | B | B | B | B | B | B | B | B | B | B | 140 ^K | 100 | C | C |
| 6 | 130 ^C | 110 ^K | B | 130 ^K | 100 ^K | 120 | B | B | B | 100 | B | B | B | B | B | B | B | B | B | B | 115 | 130 | 100 | 105 ^K |
| 7 | 140 ^K | 100 | 100 | 105 | 110 ^K | 100 | 100 ^K | G | 110 | 100 | 150 | 140 | 125 | 110 | 105 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 8 | 100 | B | B | B | 100 | 100 | 100 | 100 | B | 100 | B | 130 | B | B | 105 | 100 | C | C | 105 | 100 | 120 | B | B | 105 |
| 9 | S | B | 100 | 100 | 100 | 100 | 100 | B | B | B | G | 125 | 120 | 115 | 110 | 110 | 105 | 140 | 130 | G | 130 | G | C | 100 |
| 10 | 185 | 110 ^K | 100 | 95 | 90 | 105 | 130 ^K | 120 | 110 | 150 | 115 | B | B | B | B | 110 | 135 ^K | 100 | 100 | 145 | 130 | 100 ^K | B | 150 |
| 11 | 100 | 125 | 95 | 125 | 120 | B | B | 105 | 100 | B | B | B | B | B | B | B | B | B | B | 110 | 105 | 130 ^K | 130 ^K | 105 ^K |
| 12 | 100 | B | 150 ^K | B | B | 105 | B | B | B | B | B | B | B | B | B | B | 150 | B | 115 | 105 | 115 | 100 | 145 ^K | 150 ^K |
| 13 | 110 | 110 | B | B | B | 115 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 180 | 110 | 115 | 115 ^K |
| 14 | 115 | 125 | 100 | 100 | 100 | 110 | B | 105 | 100 | B | B | B | B | B | B | B | B | B | B | 115 | 140 | 100 | 130 ^K | 100 ^K |
| 15 | 125 | 110 | B | 100 | 160 | B | B | 110 | 130 | B | B | B | B | B | B | B | B | G | B | 110 | G | 120 ^K | 105 ^K | 125 ^K |
| 16 | 105 | 105 | 100 | 100 | B | B | B | B | 100 | B | B | G | B | B | B | B | B | B | B | 145 | B | 100 ^K | 120 ^K | 110 ^K |
| 17 | 150 ^K | 110 ^K | 110 | 145 ^K | 100 | 100 | 105 ^K | 125 | 100 | 100 | B | 125 | B | B | B | B | B | B | B | B | B | 180 | 120 | 110 |
| 18 | 105 ^K | 140 ^K | 105 | 100 | 100 | 110 ^K | 100 | 105 | 100 | G | B | B | B | B | 110 | B | B | B | 155 | 105 | 110 ^K | 115 ^K | 100 | 100 |
| 19 | 120 ^K | 100 | 95 ^K | 145 | 100 | 100 | 160 | 100 | B | B | B | B | B | B | B | B | 125 | 120 | B | B | B | 150 | 110 ^K | 110 ^K |
| 20 | 110 ^K | 100 | 105 | 130 ^K | 180 ^K | 130 ^K | 125 ^K | 100 | 110 | B | B | B | B | B | B | B | B | B | G | 115 ^K | 150 ^K | 110 ^K | 115 ^K | 120 ^K |
| 21 | 105 | 110 ^K | 100 | B | 100 | 100 | 110 | 95 | G | 140 | 120 | 110 | G | G | G | G | 100 | 100 | G | 100 | B | B | 100 | 100 |
| 22 | 100 | B | 110 | 100 | 100 | 100 | 100 | 110 | 100 | 100 | 125 | 125 | B | B | 120 | 105 | G | 100 | 100 | 100 | 100 | 100 | 100 | 95 |
| 23 | 95 | 100 | 110 ^K | B | 100 | 115 | 110 | B | B | 120 | 115 | B | B | B | B | B | B | B | B | B | 150 | 150 | 120 | 120 |
| 24 | 120 ^K | 115 ^K | 105 | 125 | 125 | 120 | B | B | 120 | 130 | 120 | 120 | B | B | B | G | G | B | 110 ^K | 125 ^K | 150 ^K | 130 ^K | 115 ^K | 95 ^K |
| 25 | 120 ^K | 105 | 105 | 110 ^K | 115 ^K | 130 | 100 | 100 | C | C | C | C | 110 | 110 | G | G | B | B | B | 125 | 100 | 100 | 95 ^K | 160 ^S |
| 26 | 115 ^K | 160 | 120 | 100 ^K | 100 ^K | 150 | 100 | 105 | 95 ^K | 100 | 120 | 110 | 100 | 100 | B | B | B | B | B | 100 | 130 | 130 | 105 ^K | 100 |
| 27 | 105 | 110 | 125 | B | 165 | 100 | 120 | 110 | B | B | B | B | B | B | B | B | B | G | B | 110 | 105 | 145 | 130 | 110 |
| 28 | 125 | 130 | 110 | 95 | B | 140 ^K | 130 ^K | B | B | B | 105 | B | B | B | B | B | B | B | B | 145 ^K | 120 ^K | 110 ^K | 105 ^K | 100 ^K |
| 29 | 100 | 105 | 100 | 110 | 120 | 140 | 100 | B | 110 | B | B | B | B | B | B | B | B | B | B | B | 125 | 105 ^K | 110 ^K | 120 |
| 30 | 150 ^K | 115 ^K | 120 ^K | 110 ^K | B | 105 | 105 | 105 | 100 | B | 120 | B | B | B | B | B | B | B | B | B | B | B | 150 ^K | 105 ^K |
| 31 | 130 ^K | 125 ^K | 110 ^K | B | 110 | B | 105 | B | 100 | B | B | B | B | B | B | B | 100 | 100 | 100 | B | B | B | 145 ^K | 110 ^K |
| CNT | 30 | 27 | 26 | 23 | 25 | 26 | 20 | 18 | 17 | 11 | 10 | 9 | 6 | 7 | 9 | 9 | 9 | 9 | 9 | 11 | 19 | 23 | 25 | 26 |
| MED | 110 | 110 | 105 | 100 | 100 | 108 | 102 | 105 | 100 | 100 | 120 | 125 | 120 | 115 | 110 | 105 | 100 | 100 | 110 | 110 | 120 | 115 | 110 ^K | 110 ^K |
| UQ | 125 ^K | 122 ^K | 110 | 118 | 115 | 120 | 115 | 110 | 110 | 128 | 120 | 125 | 125 | 120 | 115 | 110 | 125 | 100 | 122 | 125 | 138 | 130 ^K | 115 ^K | 120 ^K |
| LQ | 100 | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 115 | 115 | 110 | 110 | 110 | 100 | 100 | 100 | 102 | 102 | 100 | 100 | 100 | 100 |

The Radio Research Laboratories, Japan

MAR. 1975

H^oES (KM)

IONOSPHERIC DATA

MAR. 1975

TYPES OF ES

45° E Mean Time (G. M. T. + 3 h)

Station **SYOWA STATION** Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|----|----|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| 1 | A1 | R3 | CA11 | HKL11 | R1 | R1 | R1 | R3 | C1 | | | | | C1 | C1 | | | | | | AR13 | K5 | K3 | LKC11 | |
| 2 | L1 | L1 | | | | | | | | | | | | | C1 | C1 | L1 | L1 | | | | L1 | | K4 | |
| 3 | LK16 | CK11 | RK21 | R2 | L1 | R1 | | C1 | | C1 | C1 | | HL11 | HL11 | CC13 | CL11 | | | | L1 | | HA11 | R2 | AK11 | |
| 4 | RKA14 | R3 | CR11 | RR11 | RRA11 | RAK11 | R2 | R1 | R2 | | | C1 | C1 | C1 | C1 | C3 | L1 | L1 | | | L1 | | L2 | C1 | |
| 5 | LH12 | K6 | R3 | R3 | B2 | BS21 | | | | | S1 | | | | | | | | | | HK11 | RS31 | | | |
| 6 | R2 | CKL11 | | KL21 | K1 | R1 | | | | C1 | | | | | | | | | | | R1 | HRS12 | RS11 | KS31 | KS51 |
| 7 | RKA13 | R2 | R2 | CL41 | RK13 | R2 | LKA11 | | L1 | L1 | H1 | H1 | C1 | C2 | C4 | CA31 | LA21 | LA21 | LH21 | L1 | L1 | L2 | L4 | F2 | |
| 8 | F3 | | | | LA11 | L1 | C1 | L1 | | C1 | | H1 | | | C3 | L2 | | | | L1 | L1 | H1 | | F1 | |
| 9 | | | L2 | L2 | L1 | L2 | L2 | | | | | C1 | C1 | C1 | C1 | L1 | L1 | H1 | HL11 | | HL11 | | | F1 | |
| 10 | A1 | RK14 | CA11 | L1 | L1 | LS11 | CKS11 | RA11 | RAS11 | HRS11 | R1 | | | | | R1 | AK11 | RS21 | RA11 | HAC11 | CR11 | KL21 | | F1 | |
| 11 | RR11 | RL11 | L1 | C1 | RA11 | | | LR11 | R1 | | | | | | | | | | | | RA11 | RS51 | K1 | HK12 | K2 |
| 12 | R1 | | HKL13 | | | R1 | | | | | | | | | | | H1 | | R2 | RS11 | RA11 | RS31 | HK11 | HK11 | |
| 13 | F1 | R1 | | | | C1 | | | | | | | | | | | | | | | K1 | CA11 | R1 | CKR11 | |
| 14 | B2 | R1 | L1 | L1 | R2 | R2 | | C1 | R1 | | | | | | | | | | R1 | H1 | RS31 | RK33 | K4 | CK11 | |
| 15 | CK11 | BA21 | | R1 | HR11 | | | C1 | R1 | | | | | | | | | | | | R1 | | LK11 | K5 | K2 |
| 16 | RR12 | R1 | R1 | R1 | | | | | R1 | | | | | | | | | | A1 | | | LKA12 | K3 | RK14 | KS51 |
| 17 | RK11 | RK13 | R1 | HK11 | C1 | R1 | K2 | R1 | L1 | L1 | | C1 | | | | | | | | | | H1 | AF11 | RA11 | |
| 18 | K4 | RKA12 | RA11 | L1 | L1 | CK12 | L2 | R1 | R1 | | | | | | C1 | | | | A1 | R2 | K2 | KS41 | RA21 | RA41 | |
| 19 | CKA11 | F2 | LKH11 | HL11 | R1 | R2 | HR11 | RA11 | | | | | | | | | RA11 | L1 | | | | RA11 | K6 | K5 | |
| 20 | RKA14 | F1 | F1 | KCL11 | KA11 | R1 | K2 | B2 | B2 | | | | | | | | | | | | KS31 | HK14 | RKS41 | RK16 | RK11 |
| 21 | R2 | KA21 | F1 | | R1 | R1 | R1 | LR11 | | HC11 | C1 | C1 | | | | | L2 | L1 | | L1 | | | F1 | F1 | |
| 22 | F1 | | F1 | F1 | L2 | C2 | C1 | C1 | L1 | L1 | C1 | C1 | | | C1 | L1 | | | L1 | L1 | L2 | L2 | F1 | F1 | F1 |
| 23 | F1 | F1 | K3 | DS11 | B2 | B1 | RS11 | F1 | | RS11 | R1 | | | | | | | | | | | HH11 | FE12 | RAF11 | BA51 |
| 24 | K5 | KA31 | B2 | RAF11 | RA11 | B2 | | | HL11 | HL11 | C1 | C2 | | | | | | | KS31 | K1 | RKA12 | HK51 | K5 | LKA13 | |
| 25 | CK22 | RA41 | RA41 | KA31 | K4 | HLA11 | LHA11 | RL22 | | | | | C2 | C2 | | | | | | | C1 | L1 | FA11 | LK11 | K1 |
| 26 | KLA31 | RF11 | R3 | LK51 | LK11 | HL12 | R1 | L1 | CK11 | L1 | H1 | C2 | C1 | L1 | | | | | | | LA11 | AL11 | RA11 | K5 | R3 |
| 27 | B3 | R1 | RF11 | | AH11 | R1 | RH11 | RH11 | | | | | | | | | | | | RS11 | RSA21 | R4 | FA31 | FRA12 | HKA13 |
| 28 | FF11 | AF12 | R1 | R1 | D1 | HKL12 | K1 | | | | R1 | | | | | | | | | | HKA11 | RK11 | KA41 | KL31 | K1 |
| 29 | F2 | F1 | F1 | RR11 | R1 | HA11 | LR11 | | R1 | | | | | | | | | | | | | RS11 | K2 | KL41 | RA11 |
| 30 | HKA11 | K2 | K2 | CKH11 | | RD11 | R1 | R1 | R1 | | C1 | | | | | | | | | | | | KA11 | | K2 |
| 31 | RKH12 | CKL13 | BKA11 | | L1 | | | | R1 | | | | | | | | | | | | | | KH11 | | K3 |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | | | | | | | | | | | | | | | | | | | | | | | | | |
| MED | | | | | | | | | | | | | | | | | | | | | | | | | |
| UQ | | | | | | | | | | | | | | | | | | | | | | | | | |
| LQ | | | | | | | | | | | | | | | | | | | | | | | | | |

MAR. 1975

TYPES OF ES

IONOSPHERIC DATA

APR. 1975

FXI (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|-----------------|-----------------|-----------------|-----------------|----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----|--|
| 1 | R | A | R | B | A | A | O ₃₃ | 39 | X ₄₂ | X ₄₆ | X ₄₆ | B | B | B | B | O ₅₂ | O ₅₂ | 52 | 41 | O ₃₈ | 28 | B | B | B | |
| 2 | R | A | A | O ₂₉ | A | A | 30 | R | U ₄₅ | 49 | 53 | 56 | 60 | 62 | 61 | 61 | S ₆₀ | 52 | 45 | 39 | 29 | O ₂₅ | O ₂₀ | B | |
| 3 | A | A | A | A | A | B | B | A | 47 | X ₅₀ | 52 | X ₅₃ | 51 | X ₆₂ | 67 | X ₅₇ | C | C | C | C | C | C | C | C | |
| 4 | A | A | A | A | A | A | O ₃₂ | A | O ₄₂ | 49 | 55 | X ₅₄ | X ₅₈ | X ₆₀ | X ₆₀ | 60 | 53 | 50 | 46 | 45 | 35 | 25 | O ₂₉ | A | |
| 5 | A | A | B | A | B | A | A | X ₃₆ | 43 | X ₄₃ | X ₄₅ | O ₅₁ | X ₅₅ | X ₅₄ | O ₅₂ | X ₅₁ | X ₄₉ | X ₄₅ | X ₄₀ | 36 | 30 | A | A | A | |
| 6 | A | A | A | A | R | A | A | A | 42 | X ₄₅ | O ₄₆ | 53 | B | B | O ₅₆ | O ₅₄ | O ₄₈ | 45 | 58 | O ₃₄ | A | R | R | A | |
| 7 | U ₆₈ | 70 | A | A | 55 | A | 33 | R | R | 42 | B | B | O ₅₁ | 50 | 50 | X ₅₁ | B | B | B | A | 30 | A | A | A | |
| 8 | A | A | B | A | B | A | O ₃₄ | B | B | B | B | B | B | B | B | B | B | B | A | B | A | A | A | B | |
| 9 | B | A | A | B | B | B | B | B | B | B | B | B | B | B | B | B | B | R | A | O ₃₂ | A | A | A | A | |
| 10 | A | B | B | A | A | 35 | B | B | B | B | B | B | B | B | B | B | B | B | O ₃₅ | O ₃₁ | O ₂₅ | A | A | A | |
| 11 | A | A | B | B | A | B | B | B | B | B | B | B | B | B | B | S ₇₁ | B | 45 | X ₃₇ | 26 | A | A | A | A | |
| 12 | A | A | B | A | A | B | A | R | A | B | B | B | R | B | B | B | B | 60 | B | R | A | A | A | A | |
| 13 | A | B | B | B | B | A | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | |
| 14 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 15 | A | A | A | A | A | B | A | B | 32 | O ₃₆ | X ₄₅ | X ₄₇ | 51 | O ₅₀ | 52 | O ₄₇ | O ₄₅ | X ₃₈ | 35 | 32 | O ₂₁ | A | A | A | |
| 16 | A | A | A | A | A | A | A | B | B | 40 | X ₄₂ | O ₄₉ | B | B | R | O ₄₆ | O ₄₃ | O ₃₈ | O ₃₃ | 28 | 25 | 22 | 18 | B | |
| 17 | A | A | R | 30 | A | O ₂₉ | O ₂₆ | O ₃₃ | X ₃₆ | X ₄₆ | X ₄₈ | X ₅₃ | X ₅₈ | X ₅₂ | 60 | 60 | 48 | O ₃₈ | 35 | 38 | 27 | A | A | A | |
| 18 | A | A | A | R | 52 | 36 | R | R | B | X ₄₀ | 49 | X ₅₂ | X ₅₈ | X ₆₄ | X ₆₃ | 66 | 53 | 41 | O ₃₆ | O ₂₆ | B | O ₁₈ | A | A | |
| 19 | A | A | A | A | A | A | A | O ₃₆ | O ₃₄ | O ₄₈ | O ₄₄ | 50 | 50 | 58 | 72 | 64 | 69 | 52 | O ₃₈ | B | B | R | A | A | |
| 20 | A | A | A | O ₂₅ | 33 | O ₃₄ | 42 | B | O ₃₃ | 39 | 48 | 51 | O ₅₄ | X ₅₉ | C | O ₄₂ | 45 | O ₄₀ | O ₃₆ | 32 | A | A | A | A | |
| 21 | A | U ₅₀ | O ₄₈ | R | R | C | A | A | 34 | X ₃₆ | O ₄₀ | O ₄₄ | O ₄₆ | C ₄₆ | X ₄₃ | O ₄₃ | X ₃₈ | 40 | 40 | A | R | A | A | A | |
| 22 | A | B | A | A | A | A | A | B | A | B | B | B | B | O ₄₃ | O ₄₃ | O ₄₁ | O ₃₈ | X ₄₁ | B | B | B | O ₂₀ | A | A | |
| 23 | A | B | B | A | B | B | A | A | B | B | B | B | B | B | B | B | B | B | B | A | A | A | A | A | |
| 24 | A | A | B | B | B | B | B | B | A | A | B | B | B | B | B | B | B | R | O ₃₄ | O ₃₃ | R | B | 35 | A | |
| 25 | A | A | B | A | A | A | A | B | B | O ₃₈ | 47 | 48 | X ₄₈ | B | B | O ₅₈ | O ₄₄ | 38 | O ₄₀ | O ₃₁ | O ₂₄ | B | B | B | |
| 26 | R | O ₃₈ | U ₃₀ | A | B | A | A | R | O ₃₄ | O ₃₈ | X ₄₈ | X ₄₈ | X ₅₀ | X ₅₁ | X ₅₆ | X ₅₈ | O ₄₉ | 38 | R | A | B | O ₁₉ | 33 | R | |
| 27 | R | R | A | R | A | R | 27 | A | B | O ₃₉ | O ₄₈ | X ₅₁ | 52 | 54 | 64 | 65 | B | O ₃₈ | 29 | O ₂₆ | O ₂₁ | O ₁₆ | B | B | |
| 28 | A | R | R | A | A | A | R | R | 32 | X ₄₆ | X ₅₉ | X ₆₁ | X ₆₁ | X ₆₂ | X ₇₅ | X ₆₃ | 40 | 34 | 29 | 28 | O ₂₃ | O ₂₄ | O ₂₂ | R | |
| 29 | R | R | O ₃₀ | 35 | 40 | 50 | 50 | 56 | 48 | 55 | 70 | X ₆₇ | 60 | 65 | O ₆₆ | X ₆₂ | X ₄₉ | O ₃₁ | O ₃₄ | O ₂₆ | B | R | R | R | |
| 30 | B | B | B | X ₃₆ | 39 | 55 | 64 | 58 | 58 | 41 | 58 | 70 | B | 70 | 85 | 75 | 51 | 38 | 31 | 28 | B | R | R | A | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | 1 | 3 | 3 | 5 | 5 | 6 | 10 | 6 | 15 | 20 | 19 | 18 | 16 | 17 | 17 | 22 | 18 | 21 | 20 | 19 | 12 | 8 | 6 | | |
| MED | U ₆₈ | 50 | O ₃₀ | 30 | 40 | 36 | 33 | 38 | 42 | 42 | 48 | X ₅₂ | X ₅₄ | 58 | 60 | 58 | 48 | 40 | 36 | 32 | 26 | O ₂₁ | 26 | | |
| UQ | | 60 | 39 | 35 | 52 | 50 | 42 | 56 | 44 | X ₄₆ | 52 | X ₅₄ | X ₅₈ | X ₆₂ | 66 | 63 | 52 | 45 | 40 | 35 | 30 | 24 | 33 | | |
| LQ | | 43 | 30 | O ₂₉ | 39 | O ₃₄ | 30 | O ₃₆ | 34 | 39 | 46 | 49 | 50 | 51 | 52 | O ₅₁ | O ₄₄ | 38 | 34 | 28 | O ₂₄ | O ₁₈ | O ₂₀ | | |

The Radio Research Laboratories, Japan

APR. 1975

FXI (0.1 MHz)

IONOSPHERIC DATA

APR. 1975

FOF2 (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69 00.4 S, Long. 39 35.4 E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| 1 | B | A | A | B | A | A | F 27 | F 32 | V 36 | 40 | 40 | B | B | B | B | 46 | 46 | F 41 | F 35 | F 30 | U 21 | B | B | B |
| 2 | R | A | A | F | A | A | F | R | F 38 | F 43 | F 47 | F 48 | F 54 | F 53 | U 50 | F 52 | F 51 | F 43 | F 35 | J 27 | F 27 | U 16 | 14 | B |
| 3 | A | A | B | A | A | B | B | A | F 37 | 44 | F 46 | 47 | F 54 | 56 | F 54 | 51 | C | C | C | C | C | C | C | C |
| 4 | A | A | A | A | A | A | 26 | A | F 35 | F 41 | F 47 | 48 | 51 | 54 | 53 | 50 | 47 | U 44 | F 38 | F 35 | F 28 | U 18 | U 18 | A |
| 5 | A | A | B | A | B | B | A | F 29 | F 35 | 37 | 39 | 45 | 49 | 47 | 46 | 45 | 43 | 39 | 34 | F 29 | F 17 | A | A | A |
| 6 | B | B | A | A | R | A | A | A | F 35 | V 38 | 40 | F 47 | B | B | R 50 | F 45 | 42 | F 39 | U 38 | F 28 | A | A | R | A |
| 7 | F | F | A | A | F | A | F | A | A | F 35 | B | B | 45 | F | F 43 | 45 | B | B | B | A | F | A | A | A |
| 8 | A | A | B | B | B | A | F 27 | B | B | B | B | B | B | B | B | B | B | B | A | B | A | A | A | B |
| 9 | B | A | A | B | B | B | B | B | B | B | B | B | B | B | B | B | B | R | A | U 25 | A | A | A | A |
| 10 | A | B | B | A | A | U 29 | B | B | B | B | B | B | B | B | B | B | B | R | U 27 | U 20 | U 16 | A | A | A |
| 11 | A | A | B | B | A | B | B | B | B | B | B | B | B | B | B | F | B | U 37 | 31 | F | A | A | A | A |
| 12 | A | A | B | A | B | B | A | A | A | B | B | B | R | B | B | B | B | U 38 | B | R | A | A | A | A |
| 13 | A | B | B | B | B | A | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 14 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 15 | A | A | A | A | A | B | A | B | F 26 | 30 | 38 | 41 | 45 | 44 | 46 | 41 | 39 | 32 | F 28 | U 25 | U 12 | A | A | A |
| 16 | A | A | A | B | A | A | A | B | B | F 33 | 35 | 43 | B | B | R | 40 | 37 | 32 | 27 | F 20 | F 16 | F 10 | F 10 | B |
| 17 | A | A | A | A | A | F 19 | U 20 | U 24 | 30 | 39 | H 42 | 47 | 52 | 46 | 52 | F 52 | F 39 | F 30 | F 25 | F 22 | U 15 | A | A | A |
| 18 | A | A | A | R | E 25 | F | R | R | B | 34 | F 42 | 46 | 52 | 58 | 57 | F 57 | F 47 | F 35 | 30 | U 20 | B | F 12 | A | A |
| 19 | A | A | B | B | B | A | A | U 25 | 28 | 34 | 38 | F 41 | 43 | V 48 | F 51 | F 48 | F 45 | F | U 29 | B | B | R | A | A |
| 20 | A | A | A | F 28 | F 27 | F 27 | U 25 | B | F 25 | F 32 | F 41 | 45 | 48 | 52 | C | 36 | 35 | F 31 | F 27 | F 25 | A | A | A | A |
| 21 | A | F 38 | R | R | C | A | A | A | F 27 | 30 | 34 | 38 | 40 | C | 37 | 37 | 32 | F 28 | U 27 | A | R | A | A | A |
| 22 | A | B | A | A | A | A | A | B | A | B | B | B | B | 37 | 37 | 35 | 32 | 35 | B | B | B | U 12 | A | A |
| 23 | A | B | B | A | B | B | B | A | B | B | B | B | B | B | B | B | B | B | B | A | A | A | A | A |
| 24 | B | A | B | B | B | B | B | B | A | A | B | B | B | B | B | B | B | B | F 25 | F 24 | R | B | U 26 | A |
| 25 | A | B | B | B | A | A | A | B | B | 32 | F 40 | F 40 | 42 | B | B | U 52 | F 38 | F 32 | 34 | F 25 | 18 | B | B | B |
| 26 | A | U 28 | F 23 | B | B | A | A | A | F 25 | 32 | 42 | 42 | 44 | 44 | 45 | 52 | V 43 | U 29 | R | A | B | U 12 | F | R |
| 27 | R | R | A | R | A | R | F 23 | B | B | F 33 | F 42 | 45 | F 48 | F 47 | F 58 | F 48 | B | 32 | F | F 15 | F 13 | 10 | B | B |
| 28 | A | R | R | A | A | A | R | R | F 25 | 40 | 53 | 55 | 55 | 56 | 69 | U 57 | F 33 | U 23 | U 19 | F 17 | F 13 | F 15 | F 14 | S |
| 29 | A | A | 24 | F 23 | F 20 | F 16 | F | F | F | U 40 | U 59 | U 60 | F 50 | F 58 | 60 | 56 | 43 | U 25 | F 27 | U 18 | B | A | A | A |
| 30 | B | B | B | U 30 | U 32 | R | R | R | F | F 35 | U 52 | R | B | U 62 | F | F | J 44 | U 30 | U 25 | U 22 | B | R | R | A |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| CNT | | 1 | 3 | 3 | 4 | 4 | 6 | 4 | 13 | 20 | 19 | 17 | 16 | 16 | 16 | 20 | 18 | 20 | 19 | 18 | 10 | 8 | 5 | |
| MED | | U 28 | F 24 | F 28 | F 26 | F 23 | F 26 | F 27 | F 30 | 35 | 42 | 45 | 48 | 50 | 50 | 48 | 42 | F 32 | F 28 | F 24 | F 16 | F 12 | F 14 | |
| UQ | | | 31 | 29 | 30 | 28 | 27 | 30 | 35 | 40 | 46 | 47 | 52 | 56 | 56 | 52 | 44 | F 38 | F 34 | F 27 | F 18 | F 16 | U 18 | |
| LQ | | | 24 | F 26 | F 22 | F 18 | U 23 | U 24 | F 26 | 32 | 40 | 42 | 44 | 45 | 46 | 43 | 37 | F 30 | F 27 | F 20 | F 13 | F 12 | F 14 | |

APR. 1975

FOF2 (0.1 MHz)

IONOSPHERIC DATA

APR. 1975

FOF1 (0.01 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| 1 | | | | | | | | | | L | 330 | B | B | B | B | | | | | | | | | |
| 2 | | | | | | | | | | | U | 330 | L | U | 330 | L | | | | | | | | |
| 3 | | | | | | | | | L | L | L | L | 350 | L | L | | | | | | | | | |
| 4 | | | | | | | | | | L | L | L | L | 370 | 360 | L | L | | | | | | | |
| 5 | | | | | | | | | | 310 | 350 | U | L | 350 | 350 | L | L | | | | | | | |
| 6 | | | | | | | | | | | L | 330 | B | B | B | B | L | | | | | | | |
| 7 | | | | | | | | | | H | B | B | 340 | L | L | L | | | | | | | | |
| 8 | | | | | | | | | | B | B | B | B | B | B | B | | | | | | | | |
| 9 | | | | | | | | | | B | B | B | B | B | B | B | | | | | | | | |
| 10 | | | | | | | | | | B | B | B | B | B | B | B | | | | | | | | |
| 11 | | | | | | | | | | | B | B | B | B | B | | | | | | | | | |
| 12 | | | | | | | | | | | B | B | B | B | B | | | | | | | | | |
| 13 | | | | | | | | | | | B | B | B | B | B | | | | | | | | | |
| 14 | | | | | | | | | | | C | C | C | C | C | | | | | | | | | |
| 15 | | | | | | | | | | | L | U | L | L | L | L | | | | | | | | |
| 16 | | | | | | | | | | | | L | B | B | | | | | | | | | | |
| 17 | | | | | | | | | | | | L | U | 320 | L | | | | | | | | | |
| 18 | | | | | | | | | | | L | L | | L | L | | | | | | | | | |
| 19 | | | | | | | | | | | | | L | | L | | | | | | | | | |
| 20 | | | | | | | | | | | | | U | 300 | L | | | | | | | | | |
| 21 | | | | | | | | | | | | L | L | L | L | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | L | L | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | L | | | | | | | | | | |
| 27 | | | | | | | | | | | | | L | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| CNT | | | | | | | | | | 2 | 3 | 4 | 7 | 1 | | | | | | | | | | |
| MED | | | | | | | | | | 300 | 330 | 340 | 330 | 360 | | | | | | | | | | |
| UQ | | | | | | | | | | | 340 | 350 | 345 | | | | | | | | | | | |
| LQ | | | | | | | | | | | 330 | 330 | U | 315 | | | | | | | | | | |

APR. 1975

FOF1 (0.01 MHz)

IONOSPHERIC DATA

APR. 1975

FOE (0.01 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----|--------------------|--------------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1 | 160 ^K | | 290 ^K | | | B | 250 ^K | 170 | 180 | 180 | 220 | B | B | B | B | B | B | B | B | | | | | |
| 2 | 220 ^K | 350 ^K | 300 ^K | | | A | A | 325 ^K | 300 ^K | 190 ^{U A} | 225 | 230 | 230 | 220 | 220 | 200 | A | 170 | B | B | | | | |
| 3 | 350 ^K | 380 ^K | | 350 ^K | | B | B | B | 170 | 180 | 200 ^{U A} | 220 | | B | B | B | C | C | C | C | | | | |
| 4 | 330 ^K | 320 ^K | | | | B | 230 ^K | A | A | 220 ^H | 220 | 220 ^R | 230 ^H | 230 | | B | 180 ^{U R} | 150 ^A | 140 ^{U A} | B | | | 120 ^K | 350 ^K |
| 5 | 350 ^K | 330 ^K | | 330 ^{U K} | | B | B | 210 ^K | 150 ^H | 170 | 210 ^{U A} | B | B | B | B | B | B | B | B | B | A | 330 ^K | 350 ^K | 370 ^K |
| 6 | | | | 190 ^K | | B | B | A | A | 230 ^{U A} | A | 250 | B | B | B | B | B | B | A | B | 220 ^{U K} | 170 ^{U K} | 190 ^{U K} | 270 ^{U K} |
| 7 | | 270 ^K | | 300 ^{U K} | | A | 270 ^K | 320 ^K | 260 ^K | 180 | | B | B | B | | 240 | 200 ^{U A} | B | B | B | 400 ^K | | | 450 ^K |
| 8 | 300 ^{U K} | 320 ^K | | | | B | 250 ^K | B | B | B | B | B | B | B | B | B | B | B | A | B | | | | |
| 9 | 360 ^K | 350 ^K | 350 ^K | | | B | B | B | B | B | B | B | B | B | B | B | B | R | 300 ^K | 150 | 350 ^K | 350 ^K | 430 ^K | 290 ^K |
| 10 | 260 ^K | | | | 250 ^K | B | B | B | B | B | B | B | B | B | B | B | B | B | A | A | 110 ^{U K} | 310 ^{U K} | 380 ^K | 320 ^K |
| 11 | 270 ^{U K} | | | | | B | B | B | B | B | B | B | B | B | B | B | B | B | 260 ^{U K} | 115 | 325 ^K | 360 ^K | 350 ^K | 360 ^K |
| 12 | | 290 ^K | | | | B | A | A | A | B | B | B | B | B | B | B | B | B | B | B | 125 ^H | | 370 ^K | |
| 13 | 330 ^K | | | | | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | | | |
| 14 | | | | | | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | | | |
| 15 | 280 ^K | 300 ^K | | 350 ^K | | B | 270 ^{U K} | B | 200 | B | 220 | 190 | 220 | 220 ^{U R} | B | B | B | B | R | 95 ^H | B | 330 ^K | 320 ^K | 360 ^K |
| 16 | 330 ^K | 360 ^K | | | | B | B | B | B | 200 | 210 ^{U A} | B | B | B | B | B | B | B | B | A | 95 ^K | | 85 ^K | |
| 17 | 170 ^{U K} | 110 ^{U K} | 150 ^{U K} | 150 ^K | | A | A | 200 ^{U K} | 170 | 180 ^R | 215 ^{U R} | 200 | 190 | 200 | B | B | B | B | B | B | | | | 220 ^{U K} |
| 18 | 280 ^K | 275 ^K | 275 ^K | 250 ^K | 230 ^K | 230 ^K | 170 ^K | A | B | B | R | B | B | B | B | A | B | B | B | | | | 350 ^K | 340 ^K |
| 19 | 250 ^{U K} | 330 ^K | | | | A | A | 175 | B | B | 220 ^H | 220 ^H | B | 190 ^{U R} | 180 | 150 ^{U R} | R | B | | | | 155 ^{U K} | 150 ^K | 195 ^K |
| 20 | 220 ^{U K} | 270 ^K | 270 ^K | 220 ^{U K} | 220 ^{U K} | 230 ^{U K} | B | B | B | 155 ^{U R} | 180 ^{U B} | 190 | B | 225 ^R | C | B | A | R | B | 130 ^K | 370 ^K | 380 ^{U K} | F | |
| 21 | 360 ^K | 310 ^{U K} | 300 ^{U K} | 360 ^{U K} | 350 ^{U K} | | B | A | 230 ^{U K} | B | B | B | A | A | A | 225 | 155 ^H | 130 | 90 ^{U A} | 360 ^{U K} | 270 ^K | 320 ^K | 320 ^K | 320 ^K |
| 22 | 320 ^K | | 300 ^K | 290 ^K | | | B | A | B | B | B | R | B | B | B | B | B | 110 | | | | 100 ^K | 200 ^K | 330 ^K |
| 23 | 320 ^K | | | | | | B | B | B | B | B | B | B | B | B | B | B | B | | 150 ^{U K} | 340 ^K | 350 ^K | | 370 ^K |
| 24 | | | | | | | B | B | B | B | B | B | B | B | B | B | B | B | | | | | 210 ^{U K} | 320 ^K |
| 25 | | | | | | | 295 ^K | B | B | B | 220 ^{U R} | A | B | B | B | B | B | B | | | | | | |
| 26 | 180 ^K | 260 ^K | 200 ^K | | | | 230 ^K | 170 ^K | B | 165 | 185 | 200 ^A | A | A | B | B | B | B | | | | 100 ^K | 95 ^K | 195 ^K |
| 27 | 310 ^K | 330 ^K | 350 ^{U K} | 220 ^K | 230 ^K | 180 ^K | 170 ^K | B | B | B | B | 170 ^{U A} | 170 | 180 | B | B | B | B | | | | | | |
| 28 | | 180 ^{U K} | 200 ^K | | | | 250 ^K | 210 ^K | 150 | 150 | 170 | 190 ^H | 200 ^{U A} | 175 | 150 | 170 | 115 | 125 ^H | 100 | 110 ^{U K} | 95 ^K | | | |
| 29 | 200 ^{U K} | 200 ^K | 160 ^{U K} | 120 ^K | 120 ^K | 100 ^{U K} | 200 ^{U K} | B | 100 ^H | 140 ^{U A} | 140 ^{U A} | 170 ^H | 170 | 180 ^H | B | B | B | B | | | | | | B |
| 30 | | | | 120 ^K | 130 ^K | 230 ^{U K} | | 140 | B | B | B | B | B | B | B | 195 ^F | B | B | B | | | | 160 ^K | 120 ^{U K} |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| CNT | 22 | 19 | 12 | 10 | 9 | 6 | 10 | 8 | 12 | 12 | 13 | 12 | 9 | 9 | 5 | 5 | 4 | 5 | 6 | 8 | 9 | 13 | 15 | 17 |
| MED | 290 ^K | 310 ^K | 285 ^K | 235 ^K | 230 ^K | 230 ^K | 250 ^K | 210 ^K | 172 | 180 | 210 ^U | 195 | 200 | 220 | 195 | 180 | 152 | 130 | 120 | 140 ^K | 270 ^K | 330 ^K | 210 ^K | 320 ^K |
| UQ | 330 ^K | 330 ^K | 300 ^K | 330 ^K | 300 ^K | 230 ^K | 270 ^K | 275 ^K | 215 | 195 | 220 | 220 | 220 | 225 | 200 | 200 | 168 | 150 | 260 ^{U K} | 255 ^K | 340 ^K | 350 ^K | 350 ^K | 360 ^K |
| LQ | 220 ^K | 270 ^K | 200 ^K | 150 ^K | 190 ^K | 180 ^{U K} | 200 ^K | 185 | 160 | 162 | 180 ^{U A} | 188 | 190 | 180 | 190 | 180 | 132 | 125 | 95 | 120 | 110 ^K | 170 ^K | 155 ^K | 270 ^K |

APR. 1975

FOE (0.01 MHz)

IONOSPHERIC DATA

APR. 1975

FOES (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--|
| 1 | K16 | J A 68 | 33 | 130 | 53 | J A 50 | 26 | 25 | G | G | G | B | B | B | B | E B 34 | E B 30 | 37 | 25 | E B 18 | 20 | B | B | B | |
| 2 | J A 24 | 40 | K 30 | J A 33 | 43 | 37 | 35 | K 32 | K 30 | 40 | J A 24 | G | 25 | 23 | G | 47 | 35 | J A 24 | E B 20 | J A 24 | E B 15 | 18 | J A 29 | B | |
| 3 | 35 | 38 | 40 | J A 64 | 51 | B | B | 37 | G | 31 | 22 | 30 | E B 28 | E B 24 | E B 24 | E B 23 | C | C | C | C | C | C | C | C | |
| 4 | J A 62 | 33 | 43 | 42 | 45 | 37 | 43 | 40 | 23 | G | G | G 21 | 24 | G | E B 24 | E B 22 | G | 17 | J A 24 | E B 15 | 40 | 18 | J A 22 | K 35 | |
| 5 | K 35 | J A 63 | J A 53 | J A 71 | B | 45 | 52 | 32 | G | G | E B 29 | E B 28 | E B 27 | E B 27 | E B 28 | E B 21 | E B 20 | E B 17 | E B 15 | E B 12 | J A 24 | K 33 | K 35 | K 37 | |
| 6 | D S 78 | 45 | 40 | 42 | K 19 | 39 | 52 | J A 46 | 27 | 26 | 31 | G | B | B | E B 33 | E B 25 | E B 26 | E B 20 | 30 | E B 20 | 28 | 25 | K 19 | K 27 | |
| 7 | J A 30 | 80 | 39 | 41 | J A 37 | J A 47 | 32 | K 32 | 35 | 33 | B | B | E B 28 | G | 27 | 25 | B | R | B | K 40 | J A 28 | 26 | J A 10 | K 45 | |
| 8 | 42 | K 32 | B | 41 | B | 38 | 31 | B | B | B | B | B | B | B | B | B | B | R | J A 45 | B | J A 34 | J A 42 | D S 95 | B | |
| 9 | 42 | K 35 | K 35 | B | B | B | 75 | B | B | B | B | B | B | B | B | B | B | R | 35 | G | K 35 | 101 | 50 | J A 101 | |
| 10 | 33 | B | B | 35 | 37 | 32 | B | B | B | B | B | B | B | B | B | B | B | B | J A 29 | 32 | 20 | 38 | K 38 | K 32 | |
| 11 | 35 | 47 | B | B | 40 | B | B | B | B | B | B | B | B | B | B | E B 42 | B | E B 27 | K 26 | G | K 32 | K 36 | K 35 | K 36 | |
| 12 | 48 | J A 76 | 46 | 50 | 45 | 48 | J A 64 | J A 32 | J A 35 | B | B | B | E B 34 | B | B | B | B | E B 20 | B | G | 36 | K 37 | 38 | J A 34 | |
| 13 | 35 | B | B | B | B | 46 | B | B | B | B | B | B | B | B | B | B | B | R | B | B | B | B | B | B | |
| 14 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 15 | K 28 | K 30 | 41 | 35 | 35 | 40 | 35 | B | G | 26 | 25 | 22 | 24 | G | E B 27 | E B 27 | E B 25 | E B 15 | 11 | 13 | E B 10 | K 33 | K 32 | K 36 | |
| 16 | 38 | 40 | 41 | 76 | J A 50 | 56 | 35 | B | B | G | 25 | E B 22 | B | B | E B 35 | E B 27 | E B 27 | E B 22 | E B 22 | 12 | J A 25 | J A 25 | 11 | B | |
| 17 | 17 | 45 | 20 | 23 | 35 | J A 29 | J A 42 | 30 | 20 | 28 | G | 25 | 25 | 22 | 22 | E B 22 | 22 | E B 15 | E B 10 | E B 9 | 25 | 28 | 22 | 30 | |
| 18 | 30 | 45 | K 27 | K 25 | K 23 | K 23 | K 17 | 17 | B | E B 25 | G | E B 21 | E B 22 | E B 23 | E B 20 | 22 | E B 25 | E B 19 | E B 22 | E B 16 | B | 20 | K 35 | K 34 | |
| 19 | 29 | K 35 | D S 40 | 58 | 73 | J A 61 | 38 | J A 39 | J A 25 | 34 | 41 | G | G | E B 22 | G | G | 26 | E B 19 | E B 23 | B | B | 17 | 23 | J A 27 | |
| 20 | 27 | J A 27 | J A 27 | 26 | 27 | 30 | J A 26 | B | 29 | G | G | G | E B 27 | G | C | E B 20 | 29 | 20 | E B 14 | 33 | 46 | 82 | J A 78 | J A 62 | |
| 21 | J A 97 | 35 | 115 | 37 | U K 35 | C | U C 32 | U C 42 | J A 27 | E B 18 | E B 23 | E B 23 | 25 | 35 | 31 | G | J A 29 | J A 27 | J A 17 | K 36 | K 27 | K 32 | 38 | K 32 | |
| 22 | K 32 | D S 70 | J A 46 | K 29 | 47 | 48 | 33 | B | 37 | B | B | B | B | E B 32 | E B 32 | E B 26 | E B 21 | G | B | B | B | 35 | J A 30 | K 33 | |
| 23 | K 32 | D S 58 | 38 | 38 | B | B | 40 | 37 | B | B | B | B | B | B | B | B | B | R | B | 33 | K 34 | K 35 | 35 | J A 70 | |
| 24 | 43 | J A 59 | 40 | B | B | 42 | 49 | B | 31 | 39 | B | B | B | B | B | B | B | B | 18 | E B 15 | E B 11 | B | 26 | K 32 | |
| 25 | 45 | 34 | 41 | 45 | 44 | 38 | 34 | B | B | E B 28 | G | 27 | E B 21 | B | B | E B 32 | E B 23 | E B 13 | E B 27 | E B 20 | 28 | B | B | B | |
| 26 | K 18 | K 32 | 29 | J A 46 | B | J A 31 | 37 | 27 | K 17 | E B 19 | G | 23 | 28 | J A 31 | 21 | E B 25 | E B 29 | E B 15 | 23 | 33 | B | 10 | K 20 | K 19 | |
| 27 | K 31 | K 33 | 40 | 25 | 32 | K 18 | K 19 | 44 | B | E B 27 | E B 23 | 17 | G | G | E B 30 | E B 23 | B | E B 18 | 27 | 25 | 17 | 17 | B | B | |
| 28 | 45 | K 18 | 24 | 36 | 35 | J A 32 | 27 | 21 | 28 | 18 | 30 | 25 | J A 26 | J A 22 | 29 | 18 | 29 | G | 10 | 33 | J A 26 | J A 22 | E B 10 | J A 22 | |
| 29 | J A 24 | 24 | 30 | 39 | J A 29 | J A 37 | 22 | 18 | G | J A 31 | 22 | J A 32 | 28 | G | E B 25 | E B 27 | E B 14 | E B 15 | E B 15 | E B 16 | B | 17 | 15 | 17 | |
| 30 | B | B | B | K 15 | K 16 | 16 | 18 | G | E B 12 | E B 20 | E B 20 | E B 28 | B | E B 37 | G | E B 24 | E B 18 | E B 13 | 18 | E B 12 | B | 17 | K 16 | 23 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CNT | 28 | 26 | 24 | 25 | 22 | 24 | 25 | 18 | 19 | 21 | 19 | 18 | 17 | 17 | 18 | 22 | 18 | 21 | 23 | 24 | 21 | 24 | 24 | 21 | |
| MED | 34 | 39 | 40 | 39 | 37 | 38 | 35 | 32 | 25 | E B 26 | E B 22 | U 20 | E B 25 | E B 22 | E B 26 | E B 24 | E B 26 | E B 18 | U 20 | E B 17 | 27 | 27 | 31 | K 33 | |
| UQ | 42 | 58 | 42 | 46 | 45 | 46 | 42 | 39 | 30 | 31 | 25 | 26 | E B 28 | E B 27 | E B 30 | E B 27 | 28 | E B 20 | 26 | 32 | 34 | 36 | 38 | K 36 | |
| LQ | 28 | K 35 | 30 | 33 | 32 | 32 | 27 | 25 | E B 12 | E B 18 | G | E B 17 | 24 | G | E B 21 | E B 22 | E B 21 | E B 15 | E B 16 | E B 12 | 20 | 18 | 21 | K 27 | |

APR. 1975

FOES (0.1 MHz)

IONOSPHERIC DATA

APR. 1975

F=MIN (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

| Station SYOWA STATION | | Lat. 69 00.4 S. | | Long. 39 35.4 E | | Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation | | | | | | | | | | | | | | | | | | | |
|-----------------------|--------|-----------------|--------|-----------------|--------|--|--------|--------|----|--------|----|----|----|----|----|----|--------|--------|--------|----|--------|--------|--------|--------|----|
| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| 1 | 10 | 10 | 10 | 23 | 15 | 16 | 14 | 15 | 16 | 16 | 19 | B | B | B | B | 34 | 30 | 18 | 16 | 18 | 15 | B | B | B | |
| 2 | 15 | 13 | 15 | 10 | 19 | 10 | 9 | 22 | 15 | 15 | 15 | 14 | 14 | 15 | 17 | 10 | 9 | 9 | 20 | 10 | 15 | 15 | 10 | B | |
| 3 | 10 | 10 | 23 | 13 | 22 | B | B | 21 | 15 | 15 | 13 | 13 | 28 | 24 | 24 | 23 | C | C | C | C | C | C | C | C | |
| 4 | 15 | 11 | 15 | 18 | 13 | 15 | 10 | 15 | 15 | 19 | 10 | 20 | 15 | 22 | 24 | 22 | 15 | 10 | 10 | 15 | 13 | 10 | 10 | 10 | |
| 5 | 16 | 12 | 30 | 11 | B | 32 | 18 | 12 | 13 | 14 | 15 | 28 | 27 | 27 | 28 | 21 | 20 | 17 | 15 | 12 | 9 | 9 | 10 | 9 | |
| 6 | 18 | 21 | 21 | 20 | 11 | 23 | 16 | 10 | 10 | E C 17 | 20 | 15 | B | B | 33 | 29 | 26 | 20 | 10 | 20 | 15 | 10 | 14 | 9 | |
| 7 | 10 | 15 | 19 | 23 | 10 | 15 | 16 | 12 | 10 | 13 | B | B | 28 | 20 | 11 | 10 | B | B | B | 22 | 10 | E S 15 | E S 10 | 15 | |
| 8 | 9 | 11 | B | 20 | B | 22 | 14 | B | B | B | B | B | B | B | B | B | B | B | 13 | B | 9 | 10 | 15 | B | |
| 9 | 22 | 15 | 15 | B | B | B | 39 | B | B | B | B | B | B | B | B | B | B | B | 14 | 10 | 10 | 15 | 20 | 9 | |
| 10 | 11 | B | B | E C 22 | 17 | 15 | B | B | B | B | B | B | B | B | B | B | B | B | 15 | 11 | 10 | 12 | 10 | 10 | |
| 11 | 26 | 28 | B | B | 20 | B | B | B | B | B | B | B | B | B | B | 42 | B | 27 | 23 | 10 | 10 | 10 | 10 | 10 | |
| 12 | 28 | 15 | 31 | 17 | 28 | 35 | 13 | 10 | 16 | B | B | B | 34 | B | B | B | B | 20 | B | 10 | 15 | 9 | 18 | 9 | |
| 13 | 15 | B | B | B | B | 21 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | |
| 14 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 15 | E C 17 | 12 | 19 | 15 | 16 | 28 | 15 | B | 13 | 22 | 15 | 15 | 14 | 15 | 27 | 27 | 25 | 15 | 9 | 10 | 10 | 9 | 9 | 8 | |
| 16 | 13 | 15 | 17 | 22 | 13 | 15 | 16 | B | B | 15 | 14 | 22 | B | B | 35 | 27 | 27 | 22 | 22 | 10 | 9 | 8 | 8 | B | |
| 17 | 10 | 12 | 12 | 11 | 11 | 10 | 10 | 10 | 13 | 10 | 15 | 13 | 10 | 15 | 20 | 22 | 17 | 15 | 10 | 9 | 9 | 14 | 12 | 15 | |
| 18 | 10 | 13 | 13 | 9 | 10 | 11 | 14 | 14 | B | 23 | 14 | 21 | 22 | 23 | 20 | 15 | 25 | 19 | 22 | 16 | B | 9 | E C 15 | 10 | |
| 19 | 9 | 9 | 25 | 23 | 25 | 15 | 10 | 10 | 10 | 21 | 22 | 18 | 17 | 22 | 18 | 15 | 13 | 19 | 23 | B | B | 15 | 12 | 10 | |
| 20 | 10 | 12 | 15 | E C 18 | 14 | 15 | 15 | B | 13 | 16 | 18 | 16 | 27 | 22 | C | 20 | 15 | 15 | 14 | 10 | 9 | 8 | 9 | 11 | |
| 21 | 15 | E C 12 | U C 20 | U C 10 | E C 12 | C | U C 22 | U C 10 | 9 | 18 | 23 | 23 | 19 | 18 | C | 18 | 22 | 10 | E C 10 | 8 | 9 | 10 | 13 | 10 | 14 |
| 22 | C | 42 | 17 | 20 | 23 | 12 | 21 | B | 12 | B | B | B | B | 32 | 32 | 26 | 21 | 9 | B | B | B | 9 | 9 | 9 | |
| 23 | 10 | 27 | 30 | 18 | B | B | 26 | 15 | B | B | B | B | B | B | B | B | B | B | B | 9 | 11 | 9 | 9 | 10 | |
| 24 | 17 | 10 | 27 | B | B | 30 | 37 | B | 21 | 21 | B | B | B | B | B | B | B | B | 15 | 15 | 11 | B | 18 | 9 | |
| 25 | 9 | 20 | 26 | 19 | 16 | 12 | 13 | B | B | 28 | 20 | 15 | 21 | B | B | 32 | 23 | 13 | 27 | 20 | 15 | B | B | B | |
| 26 | 9 | 8 | E C 14 | 26 | B | 18 | 12 | 15 | 13 | 19 | 10 | 15 | 11 | 10 | 14 | 25 | 29 | 15 | 15 | 13 | B | 8 | 8 | 9 | |
| 27 | 9 | 14 | 15 | 12 | 15 | 10 | 10 | 28 | B | 27 | 23 | 15 | 15 | 15 | 30 | 23 | B | 18 | 10 | 10 | 10 | 9 | B | B | |
| 28 | E S 10 | 10 | 9 | 13 | 12 | 12 | 15 | 10 | 10 | 9 | 12 | 13 | 10 | 12 | 12 | 12 | E C 10 | 9 | 9 | 8 | 8 | 8 | 10 | E S 10 | |
| 29 | E S 10 | 9 | 16 | 10 | 10 | 9 | 10 | 11 | 9 | 9 | 12 | 8 | 10 | 12 | 25 | 27 | 14 | 15 | 15 | 16 | B | 13 | 9 | 10 | |
| 30 | B | B | B | 10 | 10 | 9 | 9 | 10 | 12 | 20 | 20 | 28 | B | 37 | 15 | 24 | 18 | 13 | 14 | 12 | B | 11 | 12 | 12 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | 29 | 29 | 29 | 29 | 29 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 28 | 29 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | |
| MED | 10 | 13 | 19 | 18 | 16 | 15 | 15 | 15 | 15 | 20 | 20 | 22 | 28 | 27 | 29 | 25 | 26 | 18 | 15 | 12 | 11 | 10 | 10 | 10 | |
| UQ | 16 | 20 | 30 | 23 | 28 | 29 | 22 | B | B | B | B | B | B | B | B | 42 | B | D B 27 | 23 | 19 | D B 15 | 15 | 16 | D B 15 | |
| LQ | 10 | 10 | 15 | 12 | 12 | 12 | 12 | 11 | 12 | 15 | 15 | 15 | 15 | 18 | 19 | 22 | 16 | 14 | 12 | 10 | 10 | 9 | 10 | 9 | |

APR. 1975

F=MIN (0.1 MHz)

IONOSPHERIC DATA

APR. 1975

M(3000)F2 (0.01)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69 00.4 S, Long. 39 35.4 E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|----|-------|-------|---------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|---------|---------|---------|---------|---------|-------|---------|---|
| 1 | R | A | A | B | B | A | F 260 | F 290 | V 290 | 300 | 300 | B | B | B | B | 325 | 335 | F 340 | F 320 | F 305 | F | B | B | B | |
| 2 | R | A | A | F | A | A | F | R | F 310 | F 295 | F 320 | F 315 | F 335 | F 340 | U F 355 | F 340 | F 335 | F | F 335 | F | F | F | 300 | B | |
| 3 | A | A | B | A | A | B | B | A | F 315 | F 315 | F 300 | F 315 | F 300 | F 315 | F 335 | F 350 | C | C | C | C | C | C | C | C | |
| 4 | A | A | A | A | A | A | 260 | A | F 285 | F 295 | F 310 | F 305 | F 315 | F 310 | F 320 | F 335 | F 340 | U F 335 | F 320 | F 330 | F 320 | F | F | A | |
| 5 | A | A | B | A | B | B | A | F 285 | F 310 | F 280 | F 270 | F 290 | F 310 | F 320 | F 335 | F 350 | F 345 | F 340 | F 325 | F 325 | F 345 | A | A | A | |
| 6 | B | B | A | A | R | A | A | A | F 280 | F 285 | F 265 | F 290 | B | B | R 320 | F 315 | F 335 | F 310 | U F 310 | V 280 | A | A | R | A | |
| 7 | F | F | A | A | F | A | F | A | A | F 265 | B | B | 290 | F | F 315 | F 320 | B | B | B | A | F | A | A | A | |
| 8 | A | A | B | B | B | A | F 325 | B | B | B | B | B | B | B | B | B | B | B | A | B | A | A | A | B | |
| 9 | B | A | A | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | A | F | A | A | A | A | |
| 10 | A | B | B | A | A | U F 330 | B | B | B | B | B | B | B | B | B | B | B | B | U F 295 | F | F | A | A | A | |
| 11 | A | A | B | B | A | B | B | B | B | B | B | B | B | B | B | F | B | F | R 320 | F | A | A | A | A | |
| 12 | A | A | B | A | B | B | A | A | A | B | B | B | R | B | B | B | B | U F 315 | B | R | A | A | A | A | |
| 13 | A | B | B | B | B | A | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | |
| 14 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 15 | A | A | A | A | A | B | A | B | F 305 | F 305 | F 290 | F 305 | F 330 | F 325 | F 335 | F 340 | F 350 | F 340 | F 325 | F | B | A | A | A | |
| 16 | A | A | A | B | A | A | A | B | B | F 305 | F 310 | F 325 | B | B | R | F 330 | F 350 | F 335 | F 335 | F 310 | F 365 | F 325 | F 360 | B | |
| 17 | A | A | A | A | A | F 275 | A | F | F 315 | F 335 | F 315 | F 335 | F 345 | F 335 | F 360 | F 365 | F 355 | F 355 | F 320 | F 300 | U F 300 | A | A | A | |
| 18 | A | A | A | R | A | F | R | R | B | F 295 | F 320 | F 315 | F 330 | F 340 | F 335 | F 350 | F 340 | F 335 | F 335 | U R 300 | B | F | A | A | |
| 19 | A | A | B | B | B | A | A | F | F 310 | F 300 | F 315 | F 315 | F 305 | F 335 | F 335 | F 335 | F 355 | F | U F 310 | B | B | R | A | A | |
| 20 | A | A | A | F 330 | F 285 | F 280 | F | B | F 285 | F 345 | F 330 | F 345 | F 335 | F 335 | C | F 335 | F 355 | F 340 | F 290 | F 275 | A | A | A | A | |
| 21 | A | F 315 | R | R | C | A | A | A | F 260 | F 300 | F 295 | F 290 | F 300 | F 325 | F 340 | F 315 | F 320 | F 315 | U F 275 | A | R | A | A | A | |
| 22 | A | B | A | A | A | A | A | B | A | B | B | B | B | F 320 | F 340 | F 345 | F 335 | F 310 | B | B | B | U F 310 | A | A | |
| 23 | A | B | B | A | B | B | B | A | B | B | B | B | B | B | B | B | B | B | B | A | A | A | A | A | |
| 24 | B | A | B | B | B | B | B | B | A | A | B | B | B | B | B | B | B | B | B | F 320 | F 320 | R | B | U F 310 | A |
| 25 | A | B | B | B | A | A | A | B | B | F 315 | F 325 | F 315 | F 310 | B | B | U R 350 | F 340 | F 315 | F 325 | F 350 | F 335 | B | B | B | |
| 26 | A | F 305 | B | B | A | A | A | A | F 300 | F 320 | F 335 | F 335 | F 325 | F 335 | F 340 | F 350 | F 355 | U F 330 | R | A | B | F | F | R | |
| 27 | R | R | A | R | A | R | F 280 | B | B | F 320 | F 335 | F 350 | F 350 | F 330 | F 345 | F 355 | B | F 300 | F | F 315 | F 370 | F 320 | B | B | |
| 28 | A | R | R | A | A | A | R | R | F 310 | F 335 | F 360 | F 345 | F 355 | F 335 | F 360 | F 370 | F 355 | F | F | F 355 | F 310 | F 285 | F 355 | S | |
| 29 | A | A | F 360 | F 295 | F 275 | F 295 | F | F | F | F 320 | F 340 | F 350 | F 325 | F 350 | F 350 | F 355 | F 365 | U H 330 | F 370 | F 360 | B | A | A | A | |
| 30 | B | B | B | U R 275 | F | R | R | R | F | F 320 | F | F | R | B | U F 340 | F | F | F 325 | U F 300 | U F 320 | F | B | R | R | A |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CNT | | | 3 | 3 | 2 | 4 | 4 | 2 | 13 | 20 | 18 | 17 | 16 | 16 | 16 | 20 | 18 | 17 | 18 | 13 | 7 | 4 | 4 | | |
| MED | | | F 315 | F 295 | F 280 | F 288 | F 270 | F 288 | F 305 | F 305 | F 315 | F 315 | F 325 | F 335 | F 338 | F 342 | F 342 | F 330 | F 320 | F 315 | F 335 | F 315 | F 332 | | |
| UQ | | | F 338 | F 312 | | F 312 | F 302 | | F 310 | F 320 | F 330 | F 335 | F 335 | F 338 | F 348 | F 350 | F 355 | F 340 | F 325 | F 330 | F 355 | F 322 | F 358 | | |
| LQ | | | F 310 | F 285 | | F 278 | F 260 | | F 285 | F 295 | F 300 | F 305 | F 308 | F 322 | F 335 | F 332 | F 335 | F 315 | F 310 | F 300 | F 315 | F 298 | F 305 | | |

The Radio Research Laboratories, Japan

APR. 1975

M(3000)F2 (0.01)

IONOSPHERIC DATA

APR. 1975

H^oF₂ (KM)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|
| 1 | | | | | | | | | | L | 350 | B | B | B | B | | | | | | | | | |
| 2 | | | | | | | | | | | 285 | L | 250 | L | | | | | | | | | | |
| 3 | | | | | | | | | L | L | L | 230 | 300 | 270 | | | | | | | | | | |
| 4 | | | | | | | | | | L | L | L | 290 | 275 | L | 235 | | | | | | | | |
| 5 | | | | | | | | | | 395 | 415 | 330 | 290 | L | 275 | | | | | | | | | |
| 6 | | | | | | | | | | | L | 320 | B | B | 250 | L | | | | | | | | |
| 7 | | | | | | | | | | U H | B | B | 330 | L | L | L | | | | | | | | |
| 8 | | | | | | | | | | B | B | B | B | B | B | B | | | | | | | | |
| 9 | | | | | | | | | | B | B | B | B | B | B | B | | | | | | | | |
| 10 | | | | | | | | | | B | B | B | B | B | B | B | | | | | | | | |
| 11 | | | | | | | | | | B | B | B | B | B | B | | | | | | | | | |
| 12 | | | | | | | | | | B | B | B | 340 | B | B | | | | | | | | | |
| 13 | | | | | | | | | | B | B | B | B | B | B | | | | | | | | | |
| 14 | | | | | | | | | | C | C | C | C | C | | | | | | | | | | |
| 15 | | | | | | | | | | L | 320 | 270 | 265 | 255 | | | | | | | | | | |
| 16 | | | | | | | | | | | 230 | B | B | | | | | | | | | | | |
| 17 | | | | | | | | | | | L | 255 | L | | | | | | | | | | | |
| 18 | | | | | | | | | | L | L | | 240 | 240 | | | | | | | | | | |
| 19 | | | | | | | | | | | | L | 240 | | | | | | | | | | | |
| 20 | | | | | | | | | | | | 270 | L | | | | | | | | | | | |
| 21 | | | | | | | | | | | 330 | L | L | L | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | L | L | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | L | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | L | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| CNT | | | | | | | | | | 2 | 3 | 6 | 9 | 4 | 5 | 1 | | | | | | | | |
| MED | | | | | | | | | | 408 | 350 | 320 | 290 | 268 | 250 | 235 | | | | | | | | |
| UQ | | | | | | | | | | | 382 | 330 | 300 | 272 | 255 | | | | | | | | | |
| LQ | | | | | | | | | | | 318 | 230 | 270 | 252 | 240 | | | | | | | | | |

APR. 1975

H^oF₂ (KM)

IONOSPHERIC DATA

APR, 1975

H^oF (KM)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | |
|-------------|----------|------------|-----|------------|------------|-----|------------|-----|------------|------------|-----|----------|------------|------------|----------|------------|-----|-----|------------|------------|------------|------------|------------|----------|---|---|
| 1 | R | A | A | B | A | A | U A 450 | 300 | 250 | 250 | 230 | B | B | B | B | 275 | 250 | 230 | 230 | 255 | B 270 | B | B | B | | |
| 2 | A | A | A | A | B | A | A | R | 300 | 230 | 220 | 215 | 210 | 205 | H 225 | 225 | 225 | 220 | 240 | 225 | 235 | B | E B 280 | B | | |
| 3 | A | A | B | A | B | B | B | A | 250 | 215 | 220 | H 245 | B 230 | 245 | 240 | H 230 | C | C | C | C | C | C | C | C | | |
| 4 | A | A | A | B | A | A | U A 450 | A | 300 | A | 230 | 225 | 230 | 220 | 225 | H 225 | 225 | 230 | 230 | 230 | 240 | 250 | 280 | 300 | A | |
| 5 | A | A | B | A | B | B | A | 335 | H 250 | H 240 | 230 | 250 | 235 | 240 | 240 | 240 | 230 | 225 | 225 | 225 | 225 | A | A | A | | |
| 6 | B | B | A | B | R | B | A | A | U H 290 | 250 | A | 240 | B | B | B | B | 240 | 240 | 250 | 245 | A | A | A | R | A | |
| 7 | F 260 | U F | A | B | F | A | A | A | A | U H 270 | B | B | E B 260 | 245 | 240 | 250 | B | B | B | A | A | A | A | A | | |
| 8 | A | A | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | A | B | A | A | A | B | | |
| 9 | B | A | A | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | A | R | A | A | A | A | | |
| 10 | A | B | B | C | A | 300 | B | B | B | B | B | B | B | B | B | B | B | R | A | 290 | 300 | 350 | F | A | A | A |
| 11 | A | B | B | B | B | B | B | B | B | B | B | B | B | B | B | U F 330 | B | 265 | 325 | R | A | A | A | A | | |
| 12 | A | A | B | B | B | B | B | A | A | B | B | B | B | B | B | B | B | 250 | B | R | A | A | A | A | | |
| 13 | A | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | | |
| 14 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | | |
| 15 | A | A | B | A | A | B | A | B | 325 | A | 270 | 230 | 245 | 230 | 250 | 235 | 230 | 240 | 225 | 235 | B | A | A | A | | |
| 16 | A | A | B | B | A | A | A | B | B | 275 | 250 | 250 | B | B | B | B | 230 | 245 | 260 | 230 | 240 | A | E A 390 | B | | |
| 17 | B | A | A | A | A | 360 | A | 430 | 260 | 250 | 220 | 230 | 240 | 220 | 240 | 225 | 210 | 200 | 230 | 220 | 295 | B | A | A | | |
| 18 | A | A | A | R | A | F | R | R | B | B | 275 | 235 | 205 | 205 | H 220 | 230 | 225 | 220 | 210 | 240 | B | B | A | A | A | |
| 19 | A | A | B | B | B | A | A | A | 305 | 290 | A | 280 | 250 | 225 | H 250 | 230 | 225 | 215 | 240 | E B 275 | B | B | R | A | A | |
| 20 | A | A | A | A | 480 | 400 | 425 | 375 | B | 270 | 235 | 245 | 280 | E B 250 | 230 | 240 | 230 | 230 | 250 | A | 280 | 340 | A | A | A | A |
| 21 | A | 365 | 300 | A | R | C | A | A | 400 | 280 | 280 | 255 | 250 | 230 | 250 | 265 | 250 | 275 | 295 | A | R | A | A | A | | |
| 22 | A | B | A | A | B | A | B | B | A | B | B | B | B | B | B | B | 250 | 250 | 235 | B | B | B | E A 275 | A | A | |
| 23 | A | B | B | B | B | B | B | A | B | B | B | B | B | B | B | B | B | B | B | A | A | A | A | A | | |
| 24 | B | A | B | B | B | B | B | B | A | A | B | B | B | B | B | B | B | B | 260 | 260 | E B 275 | B | B | F 330 | A | |
| 25 | A | B | B | B | B | A | A | B | B | B | 255 | 230 | 225 | B | 220 | 220 | 230 | 260 | E B 250 | E B 270 | B | B | B | B | | |
| 26 | A | U F 365 | 320 | B | B | B | A | A | 280 | 250 | 235 | 230 | 240 | 220 | 230 | 225 | 215 | 235 | A | A | B | U F 330 | F | R | | |
| 27 | R | R | A | A | A | R | 350 | B | B | 300 | 230 | 220 | 220 | 200 | 230 | 220 | B | 280 | 255 | E B 260 | 225 | A | B | B | | |
| 28 | A | R | A | A | A | A | A | R | 275 | 220 | 215 | 200 | 210 | 205 | 210 | 250 | 195 | 230 | 215 | 225 | 245 | 250 | A | 210 | B | |
| 29 | A | A | 270 | 305 | 360 | 315 | U F 300 | 275 | E 240 | 220 | 210 | 200 | 200 | 210 | 215 | 210 | 215 | 280 | 225 | B | B | A | A | A | | |
| 30 | B | B | B | U B 425 | U H 420 | R | R | R | 270 | 230 | 230 | 230 | B | 230 | 215 | 220 | 220 | 220 | 250 | 230 | B | A | R | A | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | | |
| CNT | | 3 | 3 | 3 | 3 | 4 | 6 | 4 | 15 | 18 | 18 | 18 | 16 | 16 | 19 | 22 | 18 | 21 | 20 | 14 | 10 | 4 | 5 | | | |
| MED | | U F 365 | 300 | 425 | 400 | 338 | 362 | 318 | 275 | 250 | 230 | 230 | 225 | 228 | 230 | 230 | 230 | 240 | 244 | 234 | 245 | 278 | U 255 | | | |
| UQ | | 365 | 310 | 452 | 410 | 392 | U A 450 | 382 | 300 | 275 | 250 | 250 | 240 | 235 | 240 | 250 | 230 | 250 | 264 | 258 | 275 | 305 | 315 | | | |
| LQ | | U F 312 | 285 | 365 | 380 | 308 | 325 | 288 | 255 | 230 | 220 | 220 | 215 | 215 | 225 | 225 | 215 | 230 | 230 | 225 | 235 | 256 | A 280 | | | |

The Radio Research Laboratories, Japan

APR, 1975

H^oF (KM)

IONOSPHERIC DATA

APR. 1975

H⁺ES (KM)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 ^K | 105 ^K | 100 ^K | 110 | 100 | 115 | 100 ^K | 135 | G | G | G | B | B | B | B | B | B | 100 | 100 | B | 100 | B | B | B | |
| 2 | 100 ^K | 110 ^K | 125 ^K | 115 | 110 | 95 | 100 | 100 ^K | 100 ^K | 145 | 105 | G | 110 | 105 | G | 105 | 100 | 100 | B | 100 | B | 100 | 100 | B | |
| 3 | 115 ^K | 115 ^K | 110 | 145 ^K | 120 | B | B | 110 | G | 100 | 115 | 110 | B | B | B | B | C | C | C | C | C | C | C | C | |
| 4 | 165 ^K | 110 ^K | 110 | 110 | 100 | 100 | 105 ^K | 100 | 100 | G | G | 115 | 110 | G | B | B | G | 100 | 120 | B | 160 | 120 | 95 ^K | 110 ^K | |
| 5 | 125 ^K | 110 ^K | 125 | 145 ^K | B | 115 | 120 | 115 ^K | G | G | 105 | B | B | B | B | B | B | B | B | B | B | 100 | 110 ^K | 115 ^K | 115 ^K |
| 6 | 110 | 110 | 110 | 115 | 120 ^K | 100 | 100 | 100 | 120 | 120 | 110 | G | B | B | B | B | B | B | 100 | B | 130 | 150 ^K | 135 ^K | 125 ^K | |
| 7 | 140 | 115 ^K | 120 | 130 | 130 ^K | 105 | 110 ^K | 115 ^K | 110 ^K | 115 | B | B | B | G | 100 | 100 | B | B | B | 115 ^K | 140 | 140 ^{U.S.} | 130 | 100 ^K | |
| 8 | 105 ^K | 105 ^K | B | 125 | B | 150 | 130 ^K | B | B | B | B | B | B | B | B | B | B | B | 105 | B | 105 | 110 | 105 | B | |
| 9 | 140 ^K | 125 ^K | 110 ^K | B | B | B | 135 | B | B | B | B | B | B | B | B | B | B | B | 150 ^K | G | 100 | 130 ^K | 150 ^K | 120 ^K | |
| 10 | 170 ^K | B | B | 135 | 110 | 160 ^K | B | B | B | B | B | B | B | B | B | B | B | B | 130 | 150 | 150 ^K | 110 ^K | 110 ^K | 100 ^K | |
| 11 | 145 ^K | 110 | B | B | 100 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | G | 110 | 105 ^K | 100 ^K | 110 ^K | |
| 12 | 115 | 110 ^K | 110 | 100 | 120 | 110 | 100 | 100 | 110 | B | B | B | B | B | B | B | B | B | B | G | 115 | 100 ^K | 105 | 100 | |
| 13 | 120 ^K | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | |
| 14 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 15 | 120 ^K | 115 ^K | 105 | 100 | 110 ^K | 110 | 130 ^K | B | G | 115 | 115 | 115 | 110 | G | B | B | B | B | 100 | 105 | B | 115 ^K | 115 ^K | 110 ^K | |
| 16 | 110 ^K | 110 ^K | 125 | 120 | 100 | 100 | 120 | B | B | G | 120 | B | B | B | B | B | B | B | B | 100 | 100 | 100 | 175 ^K | B | |
| 17 | 100 ^K | 130 ^K | 145 ^K | 150 ^K | 115 | 105 | 100 | 100 ^K | 140 | 110 | G | 100 | 110 | 110 | 110 | B | 100 | B | B | B | 145 | 130 | 100 | 130 ^K | |
| 18 | 110 ^K | 125 ^K | 120 ^K | 105 ^K | 125 ^K | 130 ^K | 150 ^K | 130 | B | B | G | B | B | B | B | 100 | B | B | B | B | B | 150 | 115 ^K | 115 ^K | |
| 19 | 110 ^K | 110 ^K | 125 | 115 | 100 | 110 | 105 | 135 | 130 | 115 | 115 | G | G | B | G | G | 160 | B | B | B | B | 130 ^K | 140 ^K | 150 ^K | |
| 20 | 125 ^K | 130 ^K | 140 ^K | 130 ^K | 130 ^K | 125 ^K | 155 | B | 100 | G | G | G | B | G | C | B | 100 | 105 | B | 150 ^K | 130 ^K | 140 ^K | 140 ^K | 100 | |
| 21 | 150 ^K | 140 ^K | 130 ^K | 100 ^K | 105 ^K | C | 125 | 100 | 100 ^K | B | B | B | 115 | 105 | 115 | G | 95 | 100 | 100 | 105 ^K | 120 ^K | 115 ^K | 115 ^K | 115 ^K | |
| 22 | 105 ^K | 150 | 130 ^K | 130 ^K | 105 | 100 | 100 | B | 100 | B | B | B | B | B | B | B | B | B | G | B | B | 105 ^K | 155 ^K | 110 ^K | |
| 23 | 120 ^K | 110 | 105 | 110 | B | B | 100 | 100 | B | B | B | B | B | B | B | B | B | B | B | 130 ^K | 115 ^K | 110 ^K | 100 | 150 ^K | |
| 24 | 115 | 100 | 130 | B | B | 100 | 110 | B | 110 | 105 | B | B | B | B | B | B | B | B | 130 | B | B | 105 ^K | 110 ^K | 110 ^K | |
| 25 | 115 | 125 | 130 | 170 | 100 | 100 | 115 ^K | B | B | B | G | 100 | B | B | B | B | B | B | B | B | 125 | B | B | B | |
| 26 | 150 ^K | 150 ^K | 140 ^K | 125 | B | 105 | 105 | 145 ^K | 125 ^K | B | G | 105 | 100 | 100 | 100 | B | B | B | 125 | 130 | B | 180 ^K | 150 ^K | 150 ^K | |
| 27 | 105 ^K | 115 ^K | 105 ^K | 115 ^K | 125 ^K | 125 ^K | 125 ^K | 130 | B | B | B | 120 | G | G | B | B | B | B | 120 | 100 | 95 | 95 | B | B | |
| 28 | 175 | 150 ^K | 170 ^K | 110 | 110 | 105 | 130 ^K | 115 ^K | 100 | 100 | 120 | 110 | 110 | 110 | 100 | 105 | 105 | G | 100 | 95 ^K | 95 ^K | 95 | B | 100 | |
| 29 | 95 ^K | 120 ^K | 130 ^K | 125 ^K | 115 ^K | 145 ^K | 120 ^K | 170 | G | 110 | 130 | 90 | 95 | G | B | B | B | B | B | B | 130 ^K | 125 | 120 | | |
| 30 | B | B | B | 125 ^K | 140 ^K | 150 ^K | 110 | G | B | B | B | B | B | B | G | B | B | B | 130 | B | B | 140 ^K | 135 ^K | 130 ^K | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CNT | 28 | 26 | 24 | 25 | 22 | 24 | 25 | 17 | 13 | 10 | 9 | 9 | 8 | 5 | 5 | 4 | 6 | 5 | 13 | 11 | 18 | 24 | 23 | 21 | |
| MED | 118 ^K | 115 ^K | 125 | 120 | 110 | 110 | 110 | 115 | 110 | 112 | 115 | 110 | 110 | 105 | 100 | 102 | 100 | 100 | 120 | 105 | 115 | 115 ^K | 115 ^K | 115 ^K | |
| UQ | 140 ^K | 125 ^K | 130 ^K | 130 ^K | 120 ^K | 125 ^K | 130 | 120 | 115 | 120 | 115 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 130 | 130 | 130 | 135 ^K | 138 ^K | 125 ^K | |
| LQ | 110 ^K | 110 ^K | 110 | 110 | 100 | 100 | 100 | 100 | 100 | 105 | 110 | 100 | 105 | 105 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 ^K | 105 ^K | 110 ^K | |

APR. 1975

H⁺ES (KM)

IONOSPHERIC DATA

APR. 1975

TYPES OF ES

45° E Mean Time (G. M. T. + 3 h)

Station **SYOWA STATION** Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | | |
|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|----------------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|--|
| 1 | K ₂ | F ₅ | LK ₂₂ | FA ₁₁ | R ₂ | R ₂ | LK ₁₂ | C ₁ | D ₁ | | | | | | | | | L ₁ | L ₁ | | F ₁ | | | | | | |
| 2 | LK ₁₁ | RK ₂₁ | K ₃ | R ₃ | R ₁ | R ₃ | R ₂ | K ₁ | K ₂ | HH ₁₁ | L ₁ | | L ₂ | L ₁ | | L ₁ | L ₁ | | | C ₁ | | F ₁ | F ₁ | | | | |
| 3 | K ₂ | K ₃ | RR ₁₁ | HK ₁₂ | R ₁ | | | R ₁ | | LA ₁₁ | C ₁ | L ₁ | | | | | | | | | | | | | | | |
| 4 | HK ₁₁ | LK ₁₃ | R ₂ | R ₁ | RF ₁₁ | R ₁ | RK ₃₁ | R ₁ | L ₁ | | | L ₁ | L ₁ | | | | | L ₁ | H ₁ | | FF ₁₁ | FF ₁₁ | LKH ₁₁ | K ₅ | | | |
| 5 | K ₁ | LK ₁₁ | RF ₁₁ | HKL ₁₁ | | R ₁ | R ₂ | RK ₂₁ | | | L ₁ | | | | | | | | | | L ₁ | KA ₃₁ | K ₆ | K ₆ | | | |
| 6 | F ₁ | FR ₁₁ | R ₁ | R ₁ | K ₁ | L ₁ | R ₂ | R ₂ | R ₁ | R ₁ | C ₁ | D ₁ | | | | | | | L ₁ | | RKA ₁₁ | RK ₁₂ | K ₁ | KA ₃₁ | | | |
| 7 | RA ₁₁ | RKA ₁₁ | R ₁ | R ₁ | HKA ₁₁ | R ₂ | RK ₃₁ | K ₄ | RKL ₁₃ | R ₁ | | | | L ₁ | L ₂ | | | | K ₂ | RA ₁₁ | RA ₃₁ | FAR ₁₁ | K ₂ | | | | |
| 8 | RKA ₁₃ | K ₃ | | RF ₁₁ | | RL ₁₁ | CK ₁₁ | | | | | | | | | | | | RS ₂₁ | S ₁ | RFS ₃₁ | RS ₂₁ | RRS ₁₁ | | | | |
| 9 | HKD ₁₁ | K ₂ | K ₃ | | | | H ₁ | | | | | | | | | | | | HK ₁₁ | | KS ₂₁ | HK ₁₁ | HK ₁₁ | LKA ₁₅ | | | |
| 10 | HKA ₁₃ | | | RF ₁₁ | R ₂ | HKA ₁₁ | | | | | | | | | | | | | H ₁ | HH ₁₁ | AK ₁₁ | CK ₁₂ | K ₁ | K ₃ | | | |
| 11 | RKS ₁ | R ₁ | | | R ₁ | | | | | | | | | | | | | | K ₁ | | S ₂ | KS ₄₁ | KS ₅₁ | K ₄ | | | |
| 12 | R ₁ | RKD ₁₁ | RD ₁₁ | R ₁ | R ₁ | R ₁ | R ₁ | RL ₁₁ | RL ₁₂ | | | | | | | | | | | | RS ₁₁ | KS ₅₁ | R ₄ | RS ₄₁ | | | |
| 13 | RK ₁₂ | | | | | RS ₁₁ | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | K ₁ | K ₂ | R ₁ | R ₁ | RK ₂₁ | R ₁ | HK ₁₁ | | | C ₁ | C ₁ | C ₁ | C ₁ | | | | | | L ₁ | C ₁ | | K ₆ | K ₅ | K ₅ | | | |
| 16 | RK ₁₂ | RK ₁₂ | R ₁ | R ₁ | F ₁ | R ₁ | R ₁ | D ₁ | | | C ₁ | | | | | | | | | C ₁ | LK ₁₁ | F ₁ | HK ₁₁ | | | | |
| 17 | LK ₁₁ | HK ₁₁ | HK ₁₁ | HKL ₁₁ | EF ₂₁ | RA ₁₁ | RA ₁₁ | LKR ₁₁ | H ₁ | CH ₁₁ | | LH ₁₁ | CL ₁₁ | C ₁ | C ₁ | | | L ₁ | | | R ₁ | RA ₁₁ | RA ₁₁ | RK ₁₁ | | | |
| 18 | RKA ₁₂ | CK ₂₂ | K ₂ | KA ₂₁ | KA ₃₁ | K ₁ | K ₁ | C ₁ | | | | | | | | C ₁ | | | | | | RAF ₁₁ | KA ₅₁ | KA ₄₁ | | | |
| 19 | RK ₄₁ | K ₆ | R ₁ | R ₁ | R ₂ | RR ₁₁ | R ₄ | HL ₁₁ | CLH ₁₁ | C ₁ | R ₁ | | | | | | | H ₁ | | | | HK ₁₁ | HK ₁₁ | HKA ₁₁ | | | |
| 20 | RK ₂₄ | K ₃ | HK ₁₁ | RK ₁₁ | AK ₁₁ | RK ₁₁ | RL ₁₁ | | L ₁ | | | | | | | | | L ₁ | L ₁ | | | RK ₁₁ | RKS ₁₁ | HKA ₁₁ | RKA ₁₁ | F ₁ | |
| 21 | RKR ₁₁ | HK ₁₂ | RKA ₁₁ | LK ₂₃ | KA ₁₁ | | R ₁ | B ₂ | LK ₁₂ | | | | C ₁ | L ₁ | C ₁ | | | L ₁ | L ₁ | L ₁ | K ₅ | K ₂ | SD ₁₁ | RK ₁₂ | K ₁ | | |
| 22 | K ₃ | FSD ₁₁ | RK ₁₁ | KL ₁₁ | RD ₁₁ | F ₂ | RD ₁₁ | D ₁ | R ₂ | | | | | | | | | | | | | | HKA ₁₁ | RK ₁₁ | KS ₆₁ | | |
| 23 | K ₄ | F ₁ | F ₁ | R ₁ | | D ₁ | FD ₁₁ | R ₁ | | | | | | | | | | | | | RKA ₁₁ | KA ₂₁ | K ₅ | RS ₃₁ | HK ₁₄ | | |
| 24 | R ₁ | R ₃ | RD ₁₁ | | D ₁ | FD ₁₁ | R ₁ | D ₁ | C ₁ | R ₁ | | | | | | | | | | F ₁ | | | RKA ₁₃ | KL ₇₁ | | | |
| 25 | RA ₃₁ | R ₁ | R ₁ | R ₁ | R ₁ | R ₂ | RK ₁₂ | | | | | L ₁ | | | | | | | | | | F ₁ | | | | | |
| 26 | KA ₁₁ | RKA ₁₁ | RKL ₁₁ | R ₁ | | R ₁ | R ₂ | HK ₁₁ | K ₁ | | | C ₁ | C ₁ | L ₁ | C ₁ | | | | | R ₁ | F ₁ | | KA ₁₁ | RKA ₁₁ | K ₁ | | |
| 27 | K ₅ | K ₁ | RK ₁₂ | RK ₁₂ | RK ₁₁ | K ₁ | RK ₁₂ | R ₁ | | | | L ₁ | | | | | | | | | F ₁ | F ₁ | F ₁ | F ₁ | | D ₁ | |
| 28 | FF ₁₁ | K ₁ | HK ₁₁ | R ₂ | R ₂ | R ₂ | HK ₁₁ | K ₂ | L ₁ | L ₁ | C ₁ | C ₁ | L ₁ | C ₁ | L ₁ | L ₁ | L ₁ | L ₁ | L ₁ | L ₁ | L ₁ | LK ₁₁ | LK ₁₁ | F ₂ | F ₁ | | |
| 29 | LKH ₁₁ | HK ₁₁ | HKA ₁₁ | HK ₂₁ | RK ₁₁ | HKA ₁₁ | RKA ₁₁ | A ₁ | | | C ₁ | CH ₁₁ | LH ₁₁ | L ₁ | | | | | | | | | HK ₁₁ | F ₁ | F ₁ | | |
| 30 | | | | K ₁ | K ₁ | KL ₁₁ | F ₁ | | | | | | | | | | | | | | F ₁ | | HK ₁₁ | K ₁ | RK ₁₁ | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | | |
| CNT | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MED | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UQ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LQ | | | | | | | | | | | | | | | | | | | | | | | | | | | |

APR. 1975

TYPES OF ES

IONOSPHERIC DATA

MAY, 1975

FXI (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69 00.4 S, Long. 39 35.4 E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|-----------|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|
| 1 | A | A | A | A | A | U S 30 | 30 | 35 | 35 | 45 | 70 | O R 50 | 73 | 75 | 70 | 57 | 65 | S 60 | O R 44 | O R 37 | B | A | A | A | |
| 2 | A | A | A | B | A | A | A | A | A | B | O R 45 | B | O R 60 | 72 | R | 58 | S 66 | 63 | R | R | A | A | U S 52 | A | |
| 3 | A | A | A | A | B | B | B | B | A | B | B | B | B | O R 47 | 59 | B | O R 58 | 90 | B | B | R | R | A | A | |
| 4 | A | 50 | A | B | R | R | R | B | R | B | B | B | B | B | O R 53 | O R 51 | O R 41 | B | B | B | B | A | 36 | R | |
| 5 | B | A | B | A | B | B | A | B | A | B | B | B | B | B | B | B | O R 42 | R | B | B | B | A | A | A | |
| 6 | B | B | A | A | B | A | A | B | B | B | B | B | B | B | B | B | B | O R 43 | B | R | B | A | A | A | |
| 7 | A | B | B | B | B | B | A | B | B | B | B | B | B | O R 70 | 75 | 90 | R | O R 45 | 56 | A | A | A | 34 | A | |
| 8 | A | A | A | B | A | A | B | R | B | B | B | O R 43 | O R 49 | O R 49 | O R 56 | B | O R 37 | R | B | B | B | R | A | B | |
| 9 | B | A | B | B | A | B | A | A | A | O R 35 | B | B | B | 49 | B | B | B | 45 | 30 | B | R | A | C | A | |
| 10 | A | A | A | B | B | B | B | B | B | B | B | B | B | B | B | B | O R 43 | R | B | B | A | R | A | A | |
| 11 | A | B | A | A | A | A | A | O R 21 | O R 34 | 33 | 47 | X 66 | X 53 | X 62 | 65 | 45 | 37 | 27 | O R 23 | B | B | R | A | A | |
| 12 | R | R | R | O R 28 | R | A | A | B | B | B | B | B | 62 | 57 | 73 | O R 46 | B | R | B | B | B | A | A | O R 18 | |
| 13 | B | 50 | U S 58 | 45 | A | 40 | R | B | B | 30 | 60 | 57 | 63 | 72 | 70 | O R 42 | B | B | B | B | B | B | R | A | |
| 14 | A | A | A | B | A | A | B | A | B | B | A | B | B | B | B | B | B | O R 34 | B | A | A | A | A | A | |
| 15 | A | B | A | A | A | R | A | A | R | R | O R 39 | 50 | 53 | X 47 | X 47 | X 40 | 28 | O R 31 | 33 | O R 26 | O R 22 | A | B | R | |
| 16 | A | A | A | A | O R 34 | 32 | O R 36 | B | B | 40 | O R 59 | B | B | O R 49 | 54 | 70 | 51 | R | R | A | A | A | A | A | |
| 17 | A | 56 | U S 65 | A | A | A | A | A | A | B | B | O R 36 | R | B | B | B | O R 32 | B | B | B | B | B | R | 40 | |
| 18 | A | A | A | A | A | A | B | B | B | B | B | B | B | B | B | B | B | O R 33 | B | B | B | B | R | 27 | |
| 19 | R | A | U S 47 | A | B | B | A | A | A | A | A | O R 41 | X 48 | O R 51 | B | B | O R 34 | R | B | B | B | R | A | A | |
| 20 | U S 70 | A | A | O R 48 | R | 80 | 80 | A | A | B | B | B | B | B | B | B | B | R | R | A | B | B | R | A | |
| 21 | A | A | A | A | A | A | A | A | A | B | B | O R 46 | B | B | U R 49 | X 48 | 35 | 33 | A | A | A | B | O R 31 | A | |
| 22 | A | A | A | A | A | A | 28 | 39 | A | B | B | B | B | B | B | B | B | 27 | O R 30 | B | B | R | 28 | U S 28 | |
| 23 | A | A | B | A | A | 28 | O R 24 | 25 | 45 | B | B | O R 48 | 70 | 70 | B | 38 | B | R | B | B | B | C | C | C | |
| 24 | 22 | A | A | A | A | A | 30 | U S 28 | 30 | 37 | 42 | B | B | 41 | 55 | O R 41 | R | A | B | R | B | B | R | B | |
| 25 | B | A | A | A | B | A | B | A | 27 | 29 | 37 | 48 | X 50 | X 53 | 43 | O R 46 | U R 28 | R | B | B | B | O R 21 | A | A | A |
| 26 | A | A | S | A | A | B | A | B | B | B | B | B | B | B | B | B | B | R | B | B | B | B | B | A | |
| 27 | A | A | A | 32 | O R 31 | 32 | B | R | B | B | B | B | B | R | R | B | B | R | B | B | B | R | A | A | |
| 28 | A | A | A | A | X 32 | A | A | R | O R 36 | R | 40 | 62 | 65 | 58 | 58 | 44 | 35 | O R 24 | A | B | B | B | R | R | |
| 29 | A | A | A | O R 29 | R | B | A | A | A | A | B | B | B | B | O R 48 | 42 | O R 31 | B | B | A | A | A | A | B | |
| 30 | A | A | A | B | A | A | R | O R 21 | A | B | B | B | O R 46 | 52 | X 52 | 39 | O R 33 | R | B | O R 23 | B | B | B | B | |
| 31 | A | A | A | A | A | A | A | 26 | O R 29 | 25 | 41 | 52 | 51 | O R 41 | O R 42 | O R 33 | O R 28 | B | B | B | B | A | B | R | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | 2 | 3 | 3 | 5 | 3 | 6 | 6 | 7 | 7 | 8 | 10 | 12 | 13 | 18 | 17 | 17 | 18 | 13 | 6 | 3 | 2 | | 5 | 4 | |
| MED | 46 | 50 | U S 58 | O R 32 | O R 32 | 32 | 30 | 26 | 34 | 34 | 44 | 49 | 53 | 52 | 55 | 45 | O R 36 | 34 | 32 | O R 26 | O R 22 | | 34 | 28 | |
| UQ | | 53 | U S 62 | 45 | 33 | 40 | 36 | 32 | 36 | 38 | 59 | 54 | 63 | 70 | 65 | 51 | O R 43 | 45 | 44 | O R 32 | | | 36 | 34 | |
| LQ | | 50 | U S 52 | O R 29 | 32 | 30 | 28 | 23 | 30 | 30 | 40 | O R 44 | 50 | 49 | 49 | 41 | O R 32 | O R 31 | O R 30 | O R 24 | | | 31 | 22 | |

The Radio Research Laboratories, Japan

MAY, 1975

FXI (0.1 MHz)

IONOSPHERIC DATA

MAY. 1975

FOF2 (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | |
|-------------|----|----|----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|---|
| 1 | A | A | A | A | A | F | F | U ₂₄ | F | F ₃₅ | F ₄₃ | 44 | F ₅₅ | F ₅₅ | F | F ₅₀ | U ₄₀ | F ₃₇ | F ₃₅ | F ₂₈ | B | A | A | A | | |
| 2 | A | A | A | B | A | A | A | A | A | B | U ₃₇ | B | U ₅₄ | F ₆₂ | R | F ₄₆ | U ₄₉ | U ₅₀ | R | A | A | A | R | A | | |
| 3 | A | A | A | A | B | B | B | B | B | B | B | B | B | 41 | 52 | B | 52 | U ₄₇ | B | B | R | A | A | A | | |
| 4 | A | F | A | B | A | R | R | B | R | B | B | B | B | B | 47 | 45 | 35 | B | B | B | B | A | F ₁₇ | A | | |
| 5 | B | A | B | A | B | B | A | B | A | B | B | B | B | B | B | B | F ₃₃ | R | B | B | B | A | A | B | | |
| 6 | B | B | A | A | B | A | A | B | B | B | B | B | B | B | B | B | B | U ₃₇ | B | A | B | A | A | A | | |
| 7 | A | B | B | B | B | B | A | B | B | B | B | B | B | U ₆₄ | F ₆₉ | F | R | F ₃₇ | A | A | A | A | U ₂₇ | A | | |
| 8 | A | A | A | B | A | A | B | R | B | B | B | F ₃₅ | U ₄₃ | 43 | 48 | B | 31 | R | B | B | B | R | A | B | | |
| 9 | B | A | B | B | B | B | A | A | A | U ₂₇ | B | B | B | U ₄₃ | B | B | B | F ₃₈ | F | B | R | A | C | A | | |
| 10 | A | A | A | B | B | B | B | B | B | B | B | B | B | B | B | B | 37 | R | B | B | A | R | A | B | | |
| 11 | A | B | A | A | A | A | A | F ₁₃ | U ₁₇ | F ₂₅ | 42 | 60 | 47 | 55 | U ₅₈ | F ₃₈ | U ₂₈ | F | R ₁₇ | B | B | R | A | A | | |
| 12 | R | A | R | 22 | R | A | A | B | B | B | B | B | B | F ₅₅ | F ₄₉ | F | F ₃₈ | B | B | B | B | B | A | U ₁₀ | | |
| 13 | B | A | A | A | A | R | R | B | B | J ₂₃ | F ₃₆ | F ₅₀ | F ₅₂ | U ₆₃ | U ₅₇ | 36 | B | B | B | B | B | B | R | A | | |
| 14 | A | A | A | B | A | A | B | A | B | B | A | B | B | B | B | B | B | U ₂₈ | B | A | A | A | A | A | | |
| 15 | A | B | A | A | A | A | A | A | R | B | F ₃₂ | F ₃₈ | 39 | 41 | 41 | U ₃₂ | U ₂₂ | F ₂₀ | F ₂₅ | U ₁₅ | U ₁₆ | A | B | A | | |
| 16 | A | A | A | A | F ₂₃ | F ₂₄ | B | B | F | U ₅₂ | B | B | B | 43 | F | F ₄₇ | U ₄₃ | A | A | A | A | A | A | A | | |
| 17 | A | F | F | B | A | A | A | A | A | B | B | 30 | B | B | B | B | B | 26 | B | B | B | B | B | R | R | |
| 18 | A | A | A | A | A | A | B | B | B | B | B | B | B | B | B | B | B | B | F ₂₅ | B | B | B | B | A | F | |
| 19 | R | A | F | A | B | B | A | A | B | A | A | F ₃₄ | F ₄₂ | F ₄₃ | B | B | B | 28 | R | B | B | B | R | A | A | |
| 20 | F | A | A | U ₄₂ | R | F | F | A | A | B | B | B | B | B | B | B | B | B | B | B | A | B | B | R | A | |
| 21 | A | A | A | A | A | A | A | A | A | B | B | U ₃₇ | B | B | B | 43 | 42 | F | U ₂₅ | A | A | A | B | F | A | |
| 22 | A | A | A | A | A | A | F | F | A | B | B | B | B | B | B | B | B | B | U ₂₀ | U ₂₃ | B | B | A | U ₂₀ | R | |
| 23 | A | A | B | A | A | U ₂₁ | U ₁₈ | F ₁₇ | U ₁₇ | B | B | F | U ₅₀ | F ₅₀ | B | F | 30 | B | R | B | B | B | C | C | C | |
| 24 | A | A | A | A | A | A | F | F ₁₈ | U ₂₀ | U ₂₁ | F ₃₁ | B | B | F | F | U ₃₅ | R | A | B | A | B | B | A | B | | |
| 25 | B | A | A | A | B | B | B | A | F ₂₀ | U ₂₃ | F ₃₁ | 41 | 45 | 47 | 33 | U ₃₆ | U ₂₂ | B | B | B | B | F ₁₂ | A | A | A | |
| 26 | A | A | S | B | A | B | A | B | B | B | B | B | B | B | B | B | B | B | R | B | B | B | B | B | A | |
| 27 | A | A | A | U ₂₄ | F | R | B | R | B | B | B | B | B | R | R | R | B | B | B | B | B | B | B | R | A | A |
| 28 | A | A | A | A | 27 | A | A | A | F | R | F ₃₀ | F ₄₅ | 48 | U ₄₄ | U ₄₇ | F | J ₂₇ | U ₁₅ | A | B | B | B | R | R | | |
| 29 | B | A | A | U ₂₃ | A | B | A | A | A | A | B | B | B | B | U ₄₂ | F ₃₀ | U ₂₂ | R | B | A | A | A | A | B | | |
| 30 | B | B | B | B | A | A | R | 15 | A | B | B | B | 40 | F ₄₈ | 45 | F ₃₀ | F ₂₅ | R | B | 17 | B | B | B | B | | |
| 31 | A | A | A | A | A | A | A | U ₁₈ | U ₁₈ | F | F | F | J ₄₂ | U ₃₅ | U ₃₆ | F ₂₅ | U ₁₈ | B | B | B | B | B | B | R | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | |
| CNT | | | | 4 | 1 | 2 | 2 | 6 | 5 | 6 | 9 | 10 | 13 | 17 | 13 | 15 | 17 | 12 | 4 | 3 | 2 | | | 3 | 1 | |
| MED | | | | U ₂₄ | 27 | U ₂₂ | 21 | 18 | U ₁₈ | 24 | 36 | 40 | 47 | 47 | 47 | 36 | 28 | U ₃₂ | F ₂₃ | 17 | 14 | | U ₂₀ | U ₁₀ | | |
| UQ | | | | U ₃₃ | | | | U ₁₈ | U ₂₀ | 27 | 42 | 45 | 52 | 55 | 52 | 44 | 37 | F ₃₈ | F ₂₉ | 22 | | | U ₂₄ | | | |
| LQ | | | | 22 | | | | 15 | U ₁₇ | U ₂₃ | 31 | 35 | 42 | 43 | 42 | 31 | U ₂₅ | U ₂₂ | 20 | 16 | | | | 18 | | |

MAY. 1975

FOF2 (0.1 MHz)

IONOSPHERIC DATA

MAY. 1975

FOF1 (0.01 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S. Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| CNT | | | | | | | | | | | | | | | | | | | | | | | | |
| MED | | | | | | | | | | | | | | | | | | | | | | | | |
| UQ | | | | | | | | | | | | | | | | | | | | | | | | |
| LQ | | | | | | | | | | | | | | | | | | | | | | | | |

MAY. 1975

FOF1 (0.01 MHz)

IONOSPHERIC DATA

MAY. 1975

FOE (0.01 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69 00.4 S, Long. 39 35.4 E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|---------|---------|---------|---------|---------|---------|---------|-------|---------|---------|---------|-----|---------|---------|-----|---------|---------|---------|---------|---------|---------|-------|---------|---------|-----|
| 1 | U K 260 | 340 | | | | | 150 | | S | 150 | 160 | B | 210 | U R 225 | 220 | A | U A 150 | B | | | | | U K 330 | 340 | |
| 2 | | | | | | | | | B | B | B | B | B | B | B | B | B | | | | | | 350 | | |
| 3 | | | | | | | | | B | B | B | B | B | B | A | B | B | U K 315 | | | | | 330 | 350 | |
| 4 | 310 | | U K 370 | | | | 275 | | B | B | B | B | B | B | B | B | B | | | | | 230 | U K 120 | 195 | |
| 5 | | | | | | | 370 | | B | B | B | B | B | B | B | B | B | | | | | | | | |
| 6 | | | | | | | | | B | B | B | B | B | B | B | B | B | | | | | 300 | 370 | | |
| 7 | 310 | | | | | | | | B | B | B | B | B | B | B | A | B | 300 | | | 300 | 390 | 190 | 370 | |
| 8 | 340 | U K 260 | | | | | | | B | B | B | B | B | B | B | B | B | | | | | 125 | 330 | 330 | |
| 9 | | | | | | | | | A | 255 | B | B | B | B | B | B | B | | | 225 | | | | 400 | |
| 10 | 380 | | U 320 | | | | U 330 | | B | B | B | B | B | B | B | B | B | | | | | U 100 | U 140 | 290 | |
| 11 | 320 | | 380 | 340 | 280 | 240 | 175 | 125 | 150 | 110 | 170 | Y | A | B | B | B | A | 130 | | | | 120 | U K 100 | 150 | |
| 12 | 150 | 105 | 125 | U K 150 | U 150 | | | | B | B | B | B | B | B | B | B | B | | | | | 120 | | | |
| 13 | | | | | | | | | B | B | A | A | U A 175 | A 175 | R | B | B | | | | | | U 100 | 320 | |
| 14 | | | 340 | | | | | | B | B | B | B | B | B | B | B | B | | | | U K 220 | 240 | 320 | | |
| 15 | 320 | | | | 260 | 210 | 170 | 160 | 120 | B | U 180 | B | B | A | A | A | A | | | 125 | | | | | |
| 16 | U 100 | U K 125 | | | U K 220 | U K 225 | U K 240 | | B | A | B | B | B | B | B | U R 120 | B | | | 350 | 230 | | 310 | U K 390 | |
| 17 | 360 | | | | | | | | B | B | B | B | B | B | B | B | B | | | | | | 150 | 190 | |
| 18 | U K 180 | 330 | 320 | 350 | | | | | B | B | B | B | B | B | B | B | B | | | | | | 170 | U 150 | |
| 19 | U K 160 | 300 | U 300 | | | | | | B | A | A | 230 | A | B | B | B | B | | | | | 170 | 150 | | |
| 20 | | U K 420 | 375 | 260 | 455 | 300 | | | 375 | B | B | B | B | B | B | B | B | | | | | | 130 | 160 | |
| 21 | 170 | | 300 | 350 | | | | | B | B | B | A | B | B | B | B | 280 | B | | | | | U K 220 | | |
| 22 | | | 290 | 380 | U 300 | | | U 140 | B | B | B | B | R | B | B | B | B | | | | | U 160 | 160 | 150 | |
| 23 | 170 | 350 | | | | | | 150 | U K 135 | U K 125 | | | | | | | | | | | | | | | |
| 24 | 100 | U 100 | 170 | 310 | 350 | U 250 | | U 120 | U 120 | 100 | H 130 | B | B | B | B | B | | | | | | | | | |
| 25 | | | | | | | | | U 100 | B | A | 140 | A | A | A | B | | | | | | | 320 | U K 320 | 320 |
| 26 | 370 | | | | | | | | B | B | B | B | B | B | B | B | | | | | | | | 210 | |
| 27 | 250 | U K 230 | 175 | U 130 | U K 180 | U 210 | | | B | B | B | B | B | B | B | B | | | | | | 120 | 350 | 360 | |
| 28 | 370 | 370 | | | 225 | | | | U K 210 | B | U K 215 | 150 | A | A | A | H 150 | A | S | | | | | 160 | 150 | |
| 29 | | | | | | | | | B | B | B | B | B | B | B | A | B | | | | | | 330 | | |
| 30 | | | 350 | | | | 190 | 140 | 110 | B | B | B | B | B | B | B | | | | | U K 120 | | | | |
| 31 | 160 | 320 | 320 | | U K 300 | | | | | A | B | B | B | B | B | B | | | | | 125 | | | U K 170 | |
| CNT | 19 | 12 | 14 | 8 | 10 | 8 | 8 | 6 | 6 | 5 | 5 | 3 | 2 | 2 | 2 | 3 | 1 | 3 | 2 | 3 | 4 | 11 | 22 | 18 | |
| MED | 260 | 310 | 320 | 325 | 270 | 232 | 182 | 132 | 135 | 110 | 170 | 150 | 192 | 200 | 185 | U 150 | 125 | 300 | 175 | U K 220 | 235 | 160 | 255 | 265 | |
| UQ | 330 | 345 | 350 | 350 | 300 | 275 | 258 | 140 | 210 | 150 | U 180 | 190 | | | | 215 | 308 | | 285 | 270 | 265 | 330 | 350 | | |
| LQ | 165 | U 178 | 290 | 205 | U 220 | 210 | 160 | U 125 | 120 | 100 | 160 | 145 | | | | U 135 | | 215 | U K 170 | 165 | 122 | 150 | 160 | | |

The Radio Research Laboratories, Japan

MAY. 1975

FOE (0.01 MHz)

IONOSPHERIC DATA

MAY, 1975

FOES (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69 00.4° S. Long. 39 35.4° E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| 1 | 30 | K 34 | 54 | 47 | J A 40 | 25 | K 15 | E S 17 | E S 12 | J A 26 | 17 | E B 30 | G | G | 25 | 18 | 18 | 17 | E B 22 | E B 22 | B | 27 | 43 | K 34 | |
| 2 | 42 | D S 46 | 43 | B | 51 | J A 57 | 51 | J A 53 | 50 | B | E B 34 | B | E B 35 | E B 33 | E B 45 | E B 20 | E B 12 | E B 22 | 31 | 35 | J A 39 | 36 | K 35 | J A 62 | |
| 3 | 58 | J A 60 | J A 65 | 33 | B | B | B | B | 62 | B | B | B | B | E B 32 | 22 | B | E B 48 | 34 | B | B | J A 27 | 25 | K 33 | K 35 | |
| 4 | 55 | D S 60 | J A 62 | B | 30 | 29 | 30 | B | 23 | B | B | B | B | B | E B 34 | E B 27 | E B 27 | B | B | B | B | 30 | 18 | 22 | |
| 5 | 30 | 45 | J A 45 | 102 | B | B | 122 | 40 | 42 | B | B | B | B | B | B | B | E B 18 | B | B | B | B | J A 35 | D S 60 | J A 52 | |
| 6 | B | B | 43 | 37 | B | 41 | J A 65 | B | B | B | B | B | B | B | B | B | B | E B 26 | B | 32 | B | K 30 | K 37 | J A 84 | |
| 7 | J A 40 | B | 35 | 42 | 47 | B | J A 60 | B | B | B | B | B | B | E B 47 | E B 52 | 19 | E B 23 | 35 | J A 35 | J A 38 | K 30 | K 39 | J A 35 | K 37 | |
| 8 | K 34 | 66 | J A 36 | B | 33 | J A 51 | B | 24 | B | B | B | E B 23 | E B 35 | E B 27 | E B 27 | B | E B 22 | B | B | B | B | K 12 | K 33 | K 33 | |
| 9 | B | 43 | 38 | B | 52 | B | 63 | 50 | 33 | 33 | B | B | B | E B 32 | B | B | B | 22 | 25 | B | 22 | 25 | J A 24 | K 40 | |
| 10 | K 38 | 54 | J A 84 | 40 | B | 38 | B | B | B | B | B | B | B | B | B | B | E B 35 | E B 22 | B | B | 27 | 23 | 29 | D S 68 | |
| 11 | 40 | 38 | K 38 | K 34 | K 28 | J A 44 | J A 27 | 33 | 32 | G | G | G | 27 | E B 21 | E B 22 | 27 | 17 | 15 | E B 15 | B | B | 14 | J A 27 | 21 | |
| 12 | K 15 | 17 | K 12 | 17 | 26 | 28 | 37 | B | B | B | B | B | B | E B 35 | E B 23 | E B 24 | B | B | B | B | B | J A 21 | J A 25 | 18 | |
| 13 | B | J A 22 | 40 | J A 49 | 30 | 23 | 23 | B | B | 30 | 25 | 20 | J A 24 | 21 | G | E B 27 | B | B | B | B | B | B | 16 | K 32 | |
| 14 | J A 46 | 45 | K 34 | 67 | J A 61 | J A 41 | B | 50 | 39 | B | J A 54 | B | B | B | B | B | B | E B 27 | B | 30 | J A 38 | 32 | K 32 | J A 47 | |
| 15 | K 32 | 55 | J A 49 | 43 | K 26 | J A 26 | 35 | 33 | 17 | B | G | E B 26 | E B 24 | 40 | 30 | J A 33 | 12 | J A 26 | 28 | 26 | 31 | J A 28 | B | 16 | |
| 16 | 24 | J A 22 | 23 | 29 | 34 | J A 24 | 33 | B | B | 70 | 45 | B | B | E B 41 | E B 28 | G | 35 | 41 | 34 | 35 | 23 | J A 35 | 31 | K 39 | |
| 17 | K 36 | 48 | D S 90 | 55 | 38 | 49 | 55 | 67 | 54 | B | B | E B 23 | B | B | B | B | E B 21 | B | B | B | B | B | K 15 | K 19 | |
| 18 | J A 27 | 33 | K 32 | K 35 | J A 50 | 42 | 34 | B | B | B | B | B | B | B | B | B | B | E B 17 | B | B | B | B | 25 | 18 | |
| 19 | K 16 | 40 | J A 53 | J A 59 | B | B | 49 | J A 44 | 52 | J A 44 | 40 | G | 24 | E B 32 | B | B | E B 23 | B | B | B | B | K 17 | 27 | 36 | |
| 20 | U S 77 | D S 69 | K 37 | J A 50 | K 45 | K 30 | J A 40 | 52 | 48 | B | B | B | B | B | B | B | B | B | B | B | 22 | B | K 13 | J A 25 | |
| 21 | J A 62 | J A 34 | K 30 | K 35 | 47 | 53 | 49 | 48 | 37 | B | B | 29 | B | B | E B 29 | K 28 | E B 20 | J A 22 | 27 | 25 | 33 | B | 27 | D S 58 | |
| 22 | D S 60 | J A 36 | 42 | J A 62 | J A 64 | 38 | J A 28 | 23 | 45 | B | B | B | B | B | B | B | B | E B 15 | 28 | B | B | 22 | 23 | 17 | |
| 23 | J A 30 | K 35 | B | 54 | J A 33 | 25 | J A 36 | J A 46 | J A 31 | B | B | E B 28 | 23 | E B 20 | B | E B 14 | B | B | B | B | 33 | C | C | C | |
| 24 | 48 | 42 | J A 34 | K 31 | K 35 | K 25 | J A 22 | J A 29 | 37 | 16 | J A 21 | B | B | E B 25 | E B 15 | E B 23 | B | 28 | B | J A 21 | B | B | 18 | B | |
| 25 | B | 30 | J A 40 | 38 | 56 | 52 | B | J A 31 | 18 | 28 | 17 | G | 25 | 19 | J A 23 | E B 21 | E B 18 | B | B | B | J A 23 | K 32 | J A 74 | D S 70 | |
| 26 | J A 64 | J A 76 | 26 | 78 | 27 | B | 58 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 32 |
| 27 | J A 42 | 26 | 27 | 23 | 28 | J A 24 | B | 24 | B | B | B | B | B | E B 33 | E B 26 | B | B | B | B | B | B | 17 | K 35 | K 36 | |
| 28 | K 37 | J A 44 | 29 | 43 | J A 42 | 41 | J A 42 | 30 | J A 37 | 27 | 25 | 25 | 17 | J A 19 | 17 | 23 | J A 26 | E B 12 | J A 20 | B | B | B | K 16 | K 15 | |
| 29 | 25 | J A 39 | J A 31 | J A 26 | 27 | 45 | 51 | J A 62 | J A 44 | 35 | B | B | B | B | E B 36 | 27 | E B 16 | B | B | 26 | 27 | J A 37 | K 33 | B | |
| 30 | J A 31 | 38 | 38 | 40 | 27 | 32 | K 19 | 16 | 27 | B | B | B | E B 30 | E B 18 | E B 13 | E B 13 | E B 16 | B | B | 25 | B | B | B | B | |
| 31 | J A 61 | K 32 | K 32 | J A 43 | J A 39 | J A 44 | J A 32 | J A 39 | 30 | J A 32 | E B 15 | 25 | 27 | E B 22 | E B 25 | 26 | K 12 | B | B | B | B | 32 | B | J A 22 | |
| CNT | 27 | 29 | 30 | 27 | 26 | 25 | 25 | 21 | 21 | 11 | 12 | 12 | 13 | 19 | 19 | 17 | 19 | 16 | 10 | 12 | 12 | 21 | 26 | 27 | |
| MED | 38 | 40 | 38 | 42 | 36 | 38 | 37 | 39 | 37 | 30 | U 21 | E 24 | U 21 | E 25 | E 25 | E 25 | E 20 | U 18 | 28 | 26 | 28 | 28 | 28 | 34 | |
| UQ | 52 | U 51 | 45 | 52 | 47 | 44 | 51 | 50 | 45 | 34 | 37 | 26 | E B 30 | E B 32 | E B 30 | 27 | E B 24 | 28 | 31 | 34 | 33 | 32 | K 35 | 44 | |
| LQ | 30 | 34 | 32 | 34 | 28 | 26 | 30 | 29 | 30 | 26 | 16 | E 20 | 24 | E 20 | | E B 19 | E B 16 | E B 17 | 22 | 24 | 25 | 22 | 23 | 22 | |

The Radio Research Laboratories, Japan

MAY, 1975

FOES (0.1 MHz)

IONOSPHERIC DATA

MAY. 1975

F-MIN (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|----|-------------------|-------------------|-------------------|-------------------|-------------------|----|-------------------|-------------------|----|----|----|----|-------------------|----|-------------------|----|----|----|----|----|----|-------------------|----|----|
| 1 | 12 | 15 | 13 | 10 | 10 | 10 | 10 | E ₁₇ S | E ₁₂ S | 10 | 10 | 30 | 20 | 17 | 15 | 13 | 13 | 10 | 22 | 22 | B | 10 | 10 | 11 | |
| 2 | 10 | 17 | 17 | B | 15 | 15 | 13 | 16 | 27 | B | 33 | B | 33 | 33 | 45 | 20 | 12 | 22 | 22 | 13 | 9 | 9 | 13 | 9 | |
| 3 | 10 | 10 | 14 | 12 | B | B | B | B | 33 | B | B | B | B | 32 | 20 | B | 48 | 10 | B | B | 10 | 10 | 9 | 9 | |
| 4 | 12 | 9 | 27 | B | 9 | E ₁₂ C | 27 | B | 16 | B | B | B | B | B | 34 | 27 | 27 | B | B | B | B | 12 | 9 | 10 | |
| 5 | 20 | 13 | 19 | 8 | B | B | 22 | 35 | 22 | B | B | B | B | B | B | B | 18 | B | B | B | B | 9 | 10 | 18 | |
| 6 | B | B | 14 | 19 | B | 14 | 18 | B | B | B | B | B | B | B | B | B | B | 26 | B | 15 | B | 9 | 9 | 10 | |
| 7 | 22 | B | 26 | 30 | 37 | B | 14 | B | B | B | B | B | B | 47 | 52 | 15 | 23 | 22 | 10 | 10 | 9 | 10 | 9 | 11 | |
| 8 | 12 | 15 | 17 | B | 22 | 15 | B | 8 | B | B | B | 23 | 33 | 27 | 27 | B | 22 | B | B | B | 10 | 9 | 26 | | |
| 9 | B | 14 | 25 | B | 20 | B | 20 | 15 | 10 | 10 | B | B | B | 32 | B | B | B | 17 | 10 | B | 13 | 9 | E ₂₃ C | 11 | |
| 10 | 12 | 9 | 15 | 32 | B | 31 | B | B | B | B | B | B | B | B | B | B | 33 | 22 | B | B | 10 | 9 | 9 | 23 | |
| 11 | 14 | 33 | 16 | 20 | 12 | E ₁₀ C | 9 | 9 | 10 | 10 | 10 | 12 | 12 | 21 | 22 | 15 | 11 | 12 | 15 | B | B | 11 | 10 | 9 | |
| 12 | 18 | 9 | 9 | E ₁₄ C | 13 | 14 | 22 | B | B | B | B | B | 25 | 23 | 22 | 24 | B | B | B | B | B | 11 | 9 | 9 | |
| 13 | B | 10 | 14 | 10 | 12 | 10 | 13 | B | B | 15 | 10 | 11 | 10 | 13 | 15 | 27 | B | B | B | B | B | 9 | 10 | | |
| 14 | 10 | 12 | 14 | 32 | 14 | 15 | B | 15 | 25 | B | 20 | B | B | B | B | B | B | 27 | B | 15 | 10 | 11 | 8 | 13 | |
| 15 | 12 | 23 | 15 | 13 | 10 | 10 | 11 | 9 | 9 | B | 17 | 26 | 24 | 12 | 10 | 10 | 11 | 10 | 10 | 8 | 10 | 10 | B | 10 | |
| 16 | 10 | 10 | 9 | 9 | 9 | 10 | 10 | B | B | 15 | 28 | B | B | 41 | 28 | 11 | 20 | 32 | 15 | 12 | 9 | 8 | 10 | 10 | |
| 17 | 15 | 10 | 18 | 27 | 18 | 17 | 19 | 25 | 19 | B | B | 23 | B | B | B | B | 21 | B | B | B | B | 11 | 10 | | |
| 18 | 10 | 9 | 9 | 18 | 17 | 12 | 31 | B | B | B | B | B | B | B | B | B | B | 17 | B | B | B | B | 12 | 9 | |
| 19 | 9 | 20 | 10 | E ₁₀ C | B | B | 22 | 12 | 27 | 13 | 11 | 18 | 22 | 32 | B | B | 23 | B | B | B | B | 13 | 11 | 11 | |
| 20 | 9 | 11 | 10 | 9 | 12 | 9 | 9 | 10 | 20 | B | B | B | B | B | B | B | B | B | B | 9 | B | B | 9 | 8 | |
| 21 | 8 | E ₁₅ C | 8 | E ₁₅ C | 15 | 20 | 15 | 21 | 20 | B | B | 19 | B | B | 29 | 15 | 20 | 10 | 20 | 13 | 10 | B | 11 | 10 | |
| 22 | 11 | 13 | E ₁₀ C | 14 | E ₁₅ C | 15 | 10 | 10 | 16 | B | B | B | B | B | B | B | B | 15 | 15 | B | B | 10 | 10 | 10 | |
| 23 | 9 | 10 | B | 14 | 10 | 10 | 10 | 8 | 9 | B | B | 28 | 13 | 20 | B | 14 | B | B | B | B | 23 | C | C | C | |
| 24 | 9 | 10 | 9 | 9 | 14 | 9 | 9 | 9 | 8 | 9 | 9 | B | B | 25 | 15 | 23 | B | 15 | B | 10 | B | B | 10 | B | |
| 25 | B | 9 | 10 | 13 | 34 | 22 | B | 13 | E ₁₁ S | 10 | 11 | 13 | 9 | 13 | 10 | 21 | 18 | B | B | B | 9 | 8 | E ₁₇ C | 9 | |
| 26 | 9 | 10 | E ₂₃ S | 18 | 13 | B | 20 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 13 | |
| 27 | 13 | 14 | 11 | 12 | E ₁₈ C | 14 | B | 18 | B | B | B | B | B | 33 | 26 | B | B | B | B | B | B | 10 | 10 | 10 | |
| 28 | 10 | 11 | 20 | 18 | 15 | E ₁₅ C | 12 | 19 | 12 | 23 | 14 | 13 | 12 | E ₁₂ S | 12 | E ₁₂ S | 11 | 12 | 12 | B | B | B | 10 | 11 | |
| 29 | 20 | 20 | 12 | 11 | 13 | 34 | 17 | 13 | 13 | 18 | B | B | B | B | 36 | E ₁₄ S | 16 | B | B | 8 | 9 | 10 | 10 | B | |
| 30 | 15 | 18 | 22 | 34 | 18 | 14 | 12 | 11 | 10 | B | B | B | 30 | 18 | 13 | 13 | 16 | B | B | 12 | B | B | B | B | |
| 31 | 13 | 9 | 9 | 11 | 13 | E ₁₂ C | 12 | 10 | 9 | 10 | 15 | 20 | 19 | 22 | 25 | 17 | 11 | B | B | B | B | 18 | B | 10 | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 30 | 30 | 30 |
| MED | 12 | 12 | 14 | 14 | 14 | 15 | 17 | 17 | 20 | B | B | B | B | 33 | 34 | 27 | 23 | 32 | B | B | B | 10 | 10 | 10 | |
| UQ | 16 | 16 | 18 | 28 | 21 | 26 | 24 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 12 | 13 | |
| LQ | 10 | 10 | 10 | 10 | 12 | 10 | 12 | 10 | 12 | 15 | 16 | 23 | 23 | 22 | 21 | 15 | 17 | 16 | 21 | 13 | 10 | 10 | 9 | 10 | |

The Radio Research Laboratories, Japan

MAY. 1975

F-MIN (0.1 MHz)

IONOSPHERIC DATA

MAY, 1975

M(3000)F2 (0.01)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | | |
|-------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 1 | A | A | A | A | A | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | B | A | A | A | | |
| 2 | A | A | A | B | A | A | A | A | A | B | F | B | U | F | R | F | U | F | U | F | R | A | A | A | R | A | |
| 3 | A | A | A | A | B | B | B | B | B | B | B | B | B | 310 | 325 | B | 285 | F | B | B | R | A | A | A | A | | |
| 4 | A | F | A | B | A | R | R | B | R | B | B | B | B | B | 340 | 345 | 320 | B | B | B | B | A | F | A | 295 | | |
| 5 | B | A | B | A | B | B | A | B | A | B | B | B | B | B | B | B | F | R | B | B | B | B | A | A | B | | |
| 6 | B | B | A | A | B | A | A | B | B | B | B | B | B | B | B | B | B | U | R | B | A | B | A | A | A | | |
| 7 | A | B | B | B | B | B | A | B | B | B | B | B | B | U | R | F | F | R | F | A | A | A | A | F | A | | |
| 8 | A | A | A | B | A | A | B | R | B | B | B | B | F | U | R | V | B | B | B | B | B | R | A | B | B | | |
| 9 | B | A | B | B | B | B | A | A | A | U | F | B | B | B | U | F | B | B | R | F | F | B | R | A | C | A | |
| 10 | A | A | A | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 295 | R | B | B | A | R | A | B | | |
| 11 | A | B | A | A | A | A | A | 285 | E | U | R | 320 | 320 | 365 | 345 | 380 | U | R | 355 | U | R | F | B | B | R | A | A |
| 12 | R | A | R | 320 | R | A | A | B | B | B | B | B | B | F | 360 | 345 | F | 370 | B | R | B | B | B | A | A | F | |
| 13 | B | A | A | A | A | R | R | B | B | F | F | F | F | F | F | F | 360 | B | B | B | B | B | B | R | A | A | |
| 14 | A | A | A | B | A | B | A | B | B | B | A | B | B | B | B | B | B | R | B | A | A | A | A | A | A | A | |
| 15 | A | B | A | A | A | A | A | A | R | B | F | F | F | 330 | 340 | 335 | 340 | 340 | U | R | U | F | F | R | A | B | A |
| 16 | A | A | A | A | F | F | 270 | V | B | B | F | U | R | B | B | 315 | F | 320 | U | V | A | A | A | A | A | A | A |
| 17 | A | F | F | B | A | A | A | A | A | B | B | 300 | R | B | B | B | B | 290 | B | B | B | B | B | R | R | R | |
| 18 | A | A | A | A | A | A | B | B | B | B | B | B | B | B | B | B | B | F | 310 | B | B | B | B | A | F | F | |
| 19 | R | A | F | A | B | B | A | A | B | A | A | 305 | F | 335 | 340 | B | B | 365 | R | B | B | B | R | A | A | A | |
| 20 | F | A | A | U | V | R | F | F | A | A | B | B | B | B | B | B | B | B | R | B | A | B | B | R | A | A | |
| 21 | A | A | A | A | A | A | A | A | A | B | B | U | F | B | B | 345 | 345 | F | U | F | A | A | A | B | F | A | |
| 22 | A | A | A | A | A | A | F | F | A | B | B | B | B | B | B | B | B | F | F | B | B | A | F | R | R | R | |
| 23 | A | A | B | A | A | U | F | U | R | F | U | F | B | B | F | F | 360 | B | F | B | B | B | C | C | C | C | |
| 24 | A | A | A | A | A | A | F | 280 | F | U | F | F | F | B | B | F | F | U | V | B | A | B | A | B | A | B | |
| 25 | B | A | A | A | B | B | B | A | F | F | F | F | 340 | 340 | 355 | 360 | 355 | 355 | U | R | R | B | B | 325 | A | A | A |
| 26 | A | A | S | B | A | B | A | B | B | B | B | B | B | B | B | B | B | B | R | B | B | B | B | B | B | A | |
| 27 | A | A | A | U | F | F | R | B | R | B | B | B | B | B | R | R | B | B | R | B | B | B | R | A | A | A | |
| 28 | A | A | A | A | 305 | A | A | A | F | R | F | F | 330 | 355 | 360 | F | F | F | J | F | U | F | A | B | B | R | R |
| 29 | B | A | A | R | A | B | A | A | A | A | B | B | B | B | B | U | R | 350 | 335 | F | R | B | A | A | A | B | |
| 30 | B | B | B | B | B | A | R | 280 | A | B | B | B | 345 | 315 | 355 | 340 | 360 | F | B | B | 330 | B | B | B | B | | |
| 31 | A | A | A | A | A | A | A | F | F | F | F | F | F | U | R | U | R | 330 | 335 | 340 | F | B | B | B | B | R | |
| CNT | | | | 3 | 1 | 1 | 2 | 4 | 4 | 3 | 8 | 10 | 11 | 15 | 11 | 15 | 15 | 9 | 3 | 2 | 1 | | | 1 | | | |
| MED | | | | U | 310 | 305 | U | 285 | 275 | 282 | U | 285 | 320 | 328 | 340 | 335 | 330 | 340 | 345 | 320 | 300 | 355 | 338 | 325 | 295 | | |
| UQ | | | | 315 | | | | 290 | 298 | 332 | 335 | 350 | 350 | 342 | 348 | 355 | 332 | 315 | 362 | | | | | | | | |
| LQ | | | | U | 300 | | | 280 | U | 255 | 295 | 320 | 305 | 325 | 320 | 338 | 340 | 292 | U | 285 | 338 | | | | | | |

MAY, 1975

M(3000)F2 (0.01)

IONOSPHERIC DATA

MAY, 1975

H^oF₂ (KM)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| CNT | | | | | | | | | | | | | | | | | | | | | | | | |
| MED | | | | | | | | | | | | | | | | | | | | | | | | |
| UQ | | | | | | | | | | | | | | | | | | | | | | | | |
| LQ | | | | | | | | | | | | | | | | | | | | | | | | |

MAY, 1975

H^oF₂ (KM)

IONOSPHERIC DATA

MAY. 1975

H^oF (KM)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-------|-------|-----|
| 1 | A | A | A | A | A | F | U S | S | U S | 215 | 225 | B | 240 | 225 | 220 | 200 | 200 | 220 | 260 | 270 | B | A | A | A | |
| 2 | A | B | B | B | A | A | A | A | B | B | B | B | 260 | 230 | 230 | 230 | 200 | 300 | A | A | A | A | U R | A | |
| 3 | A | A | A | A | B | B | B | B | B | B | B | B | R | 290 | 250 | B | B | 360 | B | B | A | A | A | A | |
| 4 | A | F | A | B | A | A | R | B | A | B | B | B | B | B | 250 | 280 | 280 | R | B | B | B | A | 250 | A | |
| 5 | B | A | B | A | B | B | B | B | B | B | B | B | B | B | B | B | 245 | R | B | B | B | A | A | B | |
| 6 | B | B | A | B | B | A | A | B | B | B | B | B | B | B | B | B | B | E P | B | A | B | A | A | A | |
| 7 | A | B | B | B | B | B | A | B | B | B | B | B | B | B | B | 210 | 295 | 360 | A | A | A | A | F | A | |
| 8 | A | A | B | B | B | A | B | A | B | B | B | 250 | E B | 270 | 250 | 230 | B | 250 | R | B | B | B | R | A | B |
| 9 | B | A | B | B | B | B | A | A | A | 425 | B | B | B | B | B | B | B | 260 | F | B | A | A | C | A | |
| 10 | A | A | A | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 305 | B | B | A | R | A | B | |
| 11 | A | B | A | A | A | A | A | 370 | 450 | 245 | 220 | 220 | 205 | 210 | 215 | 200 | 190 | U F | 275 | B | B | A | A | A | |
| 12 | R | A | R | 295 | R | A | B | B | B | B | B | B | 225 | 210 | 205 | 205 | B | R | B | B | B | A | A | E A | 220 |
| 13 | B | A | B | A | A | A | A | B | B | 240 | 240 | 220 | 220 | 220 | 210 | 220 | B | R | B | B | B | B | A | A | |
| 14 | A | A | A | B | A | A | B | A | B | B | A | B | B | B | B | B | B | R | B | A | A | A | A | A | |
| 15 | A | B | B | A | A | A | A | A | A | B | 245 | 250 | 240 | 225 | 205 | 210 | 205 | 270 | 215 | 250 | A | A | B | A | |
| 16 | A | A | A | A | F | F | E A | B | B | A | A | B | B | B | 230 | 240 | E A | R | A | A | A | A | A | A | |
| 17 | A | F | A | B | B | B | B | B | A | B | B | 320 | B | B | B | B | R | R | B | B | B | B | R | R | |
| 18 | A | A | A | A | A | A | B | B | B | B | B | B | B | B | B | B | B | 275 | B | B | B | B | A | F | |
| 19 | R | A | 330 | A | B | B | B | A | B | A | A | 280 | 250 | 250 | B | B | E B | R | B | B | B | B | R | A | A |
| 20 | F | A | A | U S | R | F | F | A | A | B | B | B | B | B | B | B | B | B | B | A | B | B | R | A | |
| 21 | A | A | A | A | A | B | A | A | A | B | B | 250 | B | B | 230 | 240 | 280 | 230 | B | A | A | B | U F | A | |
| 22 | A | A | A | A | A | A | A | 315 | A | B | B | B | B | B | B | B | B | E R | A | B | B | A | U F | R | |
| 23 | A | A | B | A | A | 320 | A | 295 | 280 | B | B | U R | 205 | 210 | B | 190 | R | B | B | B | B | C | C | C | |
| 24 | A | A | A | A | A | A | S | 315 | U H | 280 | 250 | B | B | 210 | 225 | 240 | F | B | A | B | A | B | B | A | B |
| 25 | B | A | A | A | B | B | B | A | A | 290 | 225 | 210 | 200 | 205 | 195 | 225 | 230 | R | B | B | A | A | A | A | |
| 26 | A | A | S | B | A | B | B | B | B | B | B | B | B | B | B | B | R | R | B | B | B | B | B | B | A |
| 27 | A | A | A | 330 | 350 | 430 | B | A | B | B | B | B | B | 245 | 220 | B | B | B | B | B | B | A | A | A | |
| 28 | A | A | B | A | 320 | A | A | A | 330 | B | 270 | 205 | 200 | 215 | 200 | 240 | 195 | R | A | B | B | B | R | R | |
| 29 | B | A | A | A | A | A | A | A | A | B | B | B | B | B | B | 230 | 260 | B | B | B | A | A | A | B | |
| 30 | B | B | B | B | B | A | R | E A | A | B | B | B | 250 | 210 | 210 | 215 | 230 | R | B | 255 | B | B | B | B | |
| 31 | A | A | A | A | A | A | A | E A | 280 | 250 | 250 | U F | 220 | 240 | 230 | 225 | 280 | B | B | B | B | B | B | R | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | | | 1 | 3 | 2 | 2 | 2 | 7 | 6 | 7 | 8 | 11 | 13 | 18 | 18 | 17 | 17 | 12 | 3 | 3 | | | 4 | 1 | |
| MED | | | 330 | 300 | 335 | 375 | 362 | 308 | 305 | 250 | 242 | 250 | 222 | 225 | 222 | 225 | 240 | 276 | 260 | 255 | | | U 275 | E 220 | |
| UQ | | | 315 | | | | | U A | 350 | 285 | 250 | 258 | 245 | 250 | 230 | 240 | 280 | 302 | 268 | 262 | | | U F | 305 | |
| LQ | | | 298 | | | | | 308 | 280 | 242 | 225 | 220 | 205 | 210 | 210 | 210 | 205 | 245 | 238 | 252 | | | 245 | | |

The Radio Research Laboratories, Japan

MAY. 1975

H^oF (KM)

IONOSPHERIC DATA

MAY, 1975

H^oES (KM)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 ^K | 120 ^K | 100 | 105 | 110 | 115 | 130 ^K | S | S | 110 | 125 | B | G | G | 125 | 145 | 120 | 130 | B | B | B | 130 | 115 ^K | 115 ^K | |
| 2 | 160 | 150 | 115 | B | 100 | 105 | 105 | 105 | 120 | B | B | B | B | B | B | B | B | B | 130 | 120 | 105 | 115 | 110 ^K | 100 | |
| 3 | 105 | 100 | 100 | 95 | B | B | B | B | 100 | B | B | B | B | B | 120 | B | B | 110 | B | B | 130 | 130 | 105 ^K | 105 ^K | |
| 4 | 150 ^K | 100 | 160 ^K | B | 100 | 105 | 140 ^K | B | 140 | B | B | B | B | B | B | B | B | B | B | B | B | 170 ^K | 150 ^K | 120 ^K | |
| 5 | 130 | 100 | 100 | 105 | B | B | 135 ^K | 100 | 100 | B | B | B | B | B | B | B | B | B | B | B | B | 100 | 110 | 100 | |
| 6 | B | B | 100 | 115 | B | 125 | 100 | B | B | B | B | B | B | B | B | B | B | B | B | 125 | B | 110 ^K | 105 ^K | 105 | |
| 7 | 150 ^K | B | 115 | 100 | 100 | B | 100 | B | B | B | B | B | B | B | B | 110 | B | 125 ^K | 105 | 110 | 105 ^K | 105 ^K | 105 ^K | 105 ^K | |
| 8 | 110 ^K | 105 ^K | 105 | B | 100 | 105 | B | 115 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 110 ^K | 125 ^K | |
| 9 | B | 100 | 125 | B | 120 | B | 100 | 100 | 100 | 115 | B | B | B | B | B | B | B | 130 | 125 ^K | B | 120 | 145 | 105 | 115 ^K | |
| 10 | 110 ^K | 115 | 110 ^K | 125 | B | 140 ^K | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 120 ^K | 120 ^K | 110 ^K | 100 | |
| 11 | 150 ^K | 100 | 105 ^K | 120 ^K | 110 ^K | 145 ^K | 100 ^K | 95 | 100 ^K | G | G | G | 100 | B | B | 115 | 110 | B | B | B | B | 130 ^K | 120 ^K | 170 ^K | |
| 12 | 115 ^K | 120 ^K | 120 ^K | 180 ^K | 180 ^K | 100 | 180 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 120 ^K | 120 | 120 | |
| 13 | B | 135 | 125 | 120 | 120 | 110 | 110 | B | B | 100 | 100 | 100 | 100 | 120 | G | B | B | B | B | B | B | B | 135 ^K | 105 ^K | |
| 14 | 110 | 100 | 120 ^K | 105 | 105 | 115 | B | 105 | 100 | B | 105 | B | B | B | B | B | B | B | B | B | 150 ^K | 125 ^K | 120 | 110 ^K | 100 |
| 15 | 120 ^K | 110 | 105 | 110 | 115 ^K | 100 ^K | 180 ^K | 100 ^K | 100 | B | G | B | B | 100 | 100 | 100 | 110 | 100 | 100 ^K | 100 | 100 | 95 | B | 140 | |
| 16 | 150 ^K | 180 ^K | 100 | 130 | 95 | 125 ^K | 160 ^K | B | B | 100 | 115 | B | B | B | B | G | 120 | 125 | 125 | 110 ^K | 120 ^K | 105 | 105 ^K | 115 ^K | |
| 17 | 105 ^K | 125 | 105 | 100 | 125 | 110 | 100 | 130 | 100 | B | B | B | B | B | B | B | B | B | B | B | B | B | 150 ^K | 120 ^K | |
| 18 | 130 ^K | 105 ^K | 105 ^K | 120 ^K | 115 | 105 | 120 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 130 ^K | 150 ^K | |
| 19 | 140 ^K | 135 ^K | 100 ^K | 110 | B | B | 100 | 100 | 115 | 100 | 100 | G | 120 | B | B | B | B | B | B | B | B | 150 ^K | 140 ^K | 105 | |
| 20 | 100 | 140 ^K | 105 ^K | 140 ^K | 110 ^K | 115 ^K | 115 | 100 | 140 ^K | B | B | B | B | B | B | B | B | B | B | B | 110 | B | 110 ^K | 110 ^K | |
| 21 | 125 ^K | 100 | 100 ^K | 110 ^K | 110 | 100 | 100 | 100 | 105 | B | B | 110 | B | B | B | 120 ^K | B | 120 | 125 | 125 | 95 | B | 130 ^K | 105 | |
| 22 | 110 | 105 | 110 ^K | 115 ^K | 100 ^K | 105 | 115 | 175 ^K | 110 | B | B | B | B | B | B | B | B | B | B | 140 | B | 150 ^K | 155 ^K | 150 ^K | |
| 23 | 145 ^K | 115 ^K | B | 100 | 100 | 130 ^K | 110 ^K | 110 ^K | 95 | B | B | B | 105 | B | B | B | B | B | B | B | 115 | C | C | C | |
| 24 | 115 ^K | 125 ^K | 125 ^K | 100 ^K | 105 ^K | 110 ^K | 100 | 100 ^K | 100 ^K | 125 | 100 | B | B | B | B | B | B | 125 | B | 125 | B | 150 | B | B | |
| 25 | B | 105 | 110 | 110 | 115 | 100 | B | 100 | 105 | 100 | 150 | G | 95 | 105 | 100 | B | B | B | B | B | 100 | 110 ^K | 140 ^K | 145 ^K | |
| 26 | 130 ^K | 100 | 125 ^S | 110 | 110 | B | 100 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 145 ^K | |
| 27 | 150 ^K | 140 ^K | 120 ^K | 135 ^K | 120 ^K | 100 ^K | B | 105 | B | B | B | B | B | B | B | B | B | B | B | B | B | 105 ^K | 110 ^K | 105 ^K | |
| 28 | 110 ^K | 115 ^K | 115 | 110 | 110 ^K | 100 | 100 | 95 | 105 ^K | 125 | 110 ^K | 105 | 100 | 100 | 105 | 100 | 90 | B | 105 | B | B | B | 150 ^K | 160 ^K | |
| 29 | 165 | 130 | 120 | 100 | 100 | 130 | 100 | 100 | 95 | 110 | B | B | B | B | B | 100 | B | B | B | 130 | 115 | 105 | 105 ^K | B | |
| 30 | 120 | 120 | 140 ^K | 125 | 100 | 100 | 120 ^K | 150 ^K | 100 ^K | B | B | B | B | B | B | B | B | B | B | B | 120 ^K | B | B | B | |
| 31 | 130 ^K | 110 ^K | 110 ^K | 105 | 100 ^K | 100 | 105 | 120 | 100 | 130 | B | 140 | 120 | B | B | 100 | 150 ^K | B | B | B | B | 115 | B | 150 ^K | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | 27 | 29 | 30 | 27 | 26 | 25 | 25 | 20 | 20 | 10 | 8 | 4 | 7 | 4 | 5 | 8 | 6 | 8 | 8 | 11 | 12 | 20 | 26 | 27 | |
| MED | 130 ^K | 115 | 110 | 110 | 110 | 105 | 105 | 100 | 100 | 110 | 108 | 108 | 100 | 102 | 105 | 105 | 115 | 125 | 125 | 120 | 115 | 118 | 112 ^K | 115 ^K | |
| UQ | 148 ^K | 125 ^K | 120 ^K | 120 | 115 | 115 | 120 ^K | 112 | 108 | 125 | 120 | 125 | 112 | 112 | 120 | 118 | 120 | 128 | 128 | 125 | 120 | 130 ^K | 140 ^K | 142 ^K | |
| LQ | 110 ^K | 100 | 105 | 105 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 100 | 100 | 100 | 100 | 110 | 115 | 105 | 110 | 102 | 105 | 110 ^K | 105 | |

MAY, 1975

H^oES (KM)

IONOSPHERIC DATA

MAY. 1975

TYPES OF ES

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69 00.4 S, Long. 39 35.4 E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|-------|------|-------|------|-------|-------|-------|-------|-------|------|------|----|----|----|----|------|----|------|-------|------|-------|-------|-------|-------|-------|
| 1 | RK12 | KA11 | R4 | R4 | R3 | R3 | KA11 | | | C1 | H1 | | | | R1 | HL11 | C1 | F1 | | | | RA21 | RK55 | KD51 | |
| 2 | RFR11 | RF11 | B2 | | B2 | B2 | BS31 | B2 | R1 | | | | | | | | | | R1 | R1 | RS51 | RS51 | KA21 | RA21 | |
| 3 | R5 | RA31 | RA21 | F1 | | | | | R1 | | | | | | C1 | | | RK31 | | | RA11 | RA11 | KS71 | KS71 | |
| 4 | HKA12 | A1 | HK11 | | R2 | R3 | CK11 | | RL11 | | | | | | | | | | | | | HKA11 | RK11 | RK11 | |
| 5 | F1 | R2 | R1 | RF12 | | | RKA11 | FD11 | R1 | | | | | | | | | | | | | RS31 | RA11 | R1 | |
| 6 | | | R1 | R1 | | RFS21 | F1 | | | | | | | | | | | | | R1 | | KS41 | KS71 | RS21 | |
| 7 | HK11 | | F1 | F1 | F1 | | R2 | D1 | | | | | | | C1 | | | RK11 | RS21 | RS41 | KS61 | KS51 | RK13 | K4 | |
| 8 | K3 | RK11 | R1 | | R1 | R1 | | FF11 | | | | | | | | | | | | | | K1 | K5 | K1 | |
| 9 | | R2 | R2 | | RSA11 | | R1 | R1 | R2 | LK12 | | | | | | | | R1 | RKA12 | | F1 | RAA11 | RA11 | KS31 | |
| 10 | K4 | RA41 | RKA12 | R1 | | HK11 | | | | | | | | | | | | | | | LKH11 | RKA11 | KS61 | RR11 | |
| 11 | BS22 | F1 | K2 | K1 | K1 | HKL11 | HK11 | HK11 | HK11 | | | | | | | C1 | | | | | | K1 | LK11 | HK11 | |
| 12 | K1 | KA11 | K1 | KH11 | HK11 | FA11 | F1 | | D1 | | | | | | | | | | | | | CK11 | F1 | F1 | |
| 13 | | FA11 | F1 | F1 | F1 | F1 | F1 | | | L1 | C1 | C1 | C1 | H1 | | | | | | | | | HK11 | KA41 | |
| 14 | R3 | RD11 | K3 | R1 | FS11 | RAS11 | D1 | R2 | L1 | | R1 | | | | | | | | | | CK11 | RKS11 | R3 | KSL61 | RA21 |
| 15 | KA21 | R1 | R1 | R2 | K2 | LKA12 | RK11 | LK11 | L1 | | | | | | C1 | LR11 | C1 | C1 | F1 | LK11 | FA11 | FA11 | F1 | R1 | |
| 16 | HK11 | HK11 | R1 | F1 | LK11 | RK11 | HKR11 | D1 | | RA11 | R1 | | | | | | R1 | R1 | R2 | K2 | KA11 | RS41 | KA51 | KA51 | |
| 17 | KSA11 | RA11 | FA11 | R1 | R1 | B2 | B2 | R1 | RR11 | | | | | | | | | | | | | | | K1 | KA11 |
| 18 | RK33 | K5 | K4 | K2 | R2 | R3 | R1 | | | | | | | | | | | | | | | | | RK11 | RK11 |
| 19 | KA11 | CK11 | RK3 | RA31 | | | F1 | B2 | R1 | † | B2 | | | | | | | | | | | | K1 | RK11 | RA31 |
| 20 | BA51 | HK13 | K4 | AK14 | K2 | K6 | AR13 | RF21 | HKA11 | | | | | | | | | | | | RA11 | | K1 | LK12 | |
| 21 | HKH13 | R3 | K5 | K3 | R2 | R1 | R1 | R1 | R1 | | | R1 | | | | K1 | | R1 | F1 | RA11 | F1 | | RK11 | F3 | |
| 22 | B3 | BS11 | RKA12 | CK52 | BS11 | B2 | B2 | RKL11 | RR11 | | | | | | | | | | R1 | | | | HKA11 | AK11 | HKA11 |
| 23 | HKA11 | K4 | | R2 | R2 | HK11 | CK41 | HK21 | FA21 | | | | | | | | | | | | | F1 | | | |
| 24 | CHK11 | HK11 | HK32 | K5 | K2 | KA41 | F1 | LKA21 | RKH11 | H1 | † | | | | | | | R1 | | F1 | | | F1 | | |
| 25 | | RA41 | B3 | B2 | R1 | R1 | | R1 | F1 | C1 | H1 | | | | | | | | | | | F1 | K5 | HKA11 | HK12 |
| 26 | HK13 | B2 | R1 | FR11 | F1 | | R2 | | | | | | | | | | | | | | | | | | K1 |
| 27 | HK11 | CK11 | RKA12 | RK11 | CK11 | LK11 | | FA11 | | | | | | | | | | | | | | | LK11 | K5 | KS71 |
| 28 | KS71 | RK15 | F1 | R1 | RK11 | RA31 | RA31 | FF11 | RKA21 | R1 | CK11 | † | † | † | † | † | † | | F1 | | | | K1 | K1 | |
| 29 | F1 | FF12 | R1 | F2 | F2 | RR11 | R2 | R1 | R2 | R1 | | | | | | L1 | | | | | RA11 | BS31 | R3 | K5 | |
| 30 | R1 | R1 | RK12 | R1 | F1 | R2 | K1 | RK11 | LKR14 | | | | | | | | | | | | | CK11 | | | |
| 31 | CK11 | KA91 | KA51 | RA11 | RK12 | B2 | B2 | FFA11 | FA21 | HL11 | H1 | | | | | | | | | | | F1 | | AK11 | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | | | | | | | | | | | | | | | | | | | | | | | | | |
| MED | | | | | | | | | | | | | | | | | | | | | | | | | |
| UQ | | | | | | | | | | | | | | | | | | | | | | | | | |
| LQ | | | | | | | | | | | | | | | | | | | | | | | | | |

MAY. 1975

TYPES OF ES

IONOSPHERIC DATA

JUN. 1975

FXI (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | 34 | A | A | B | A | A | R | O ₂₂ | O ₂₅ | 32 | X ₄₃ | X ₄₆ | O ₄₁ | 56 | 46 | B | B | B | A | A | A | A | A | |
| 2 | A | A | A | A | B | B | A | B | B | B | B | B | B | B | B | B | B | B | B | B | A | A | A | B | |
| 3 | A | B | B | B | B | B | A | R | A | R | B | B | B | B | B | B | B | R | B | B | B | B | A | 53 | |
| 4 | A | A | B | B | A | B | B | A | B | B | B | B | B | B | B | B | B | R | B | B | A | B | R | A | |
| 5 | B | A | B | A | B | A | A | A | B | R | A | 34 | B | B | B | O ₃₈ | B | B | B | B | B | A | A | A | |
| 6 | B | B | A | B | B | B | B | A | B | B | B | B | B | B | B | B | B | R | B | B | B | R | 33 | 36 | |
| 7 | A | C | B | B | B | A | A | A | A | B | B | B | B | B | B | B | O ₁₈ | R | B | B | B | B | B | A | |
| 8 | A | A | A | A | A | A | A | O ₂₂ | R | A | 32 | X ₃₈ | X ₄₅ | 48 | 39 | 28 | R | B | B | B | B | B | A | B | |
| 9 | A | A | A | A | 30 | 25 | B | A | A | R | 30 | 39 | 46 | 53 | 40 | 37 | B | A | A | B | A | A | A | A | |
| 10 | A | B | O ₃₄ | A | A | A | A | 25 | A | O ₂₄ | 32 | 43 | 53 | O ₄₆ | 42 | 35 | B | A | R | A | A | B | R | 42 | |
| 11 | A | A | A | B | A | A | A | A | A | B | A | A | B | B | B | B | B | R | B | B | B | A | A | A | |
| 12 | A | A | A | A | A | 57 | A | B | A | A | B | B | B | X ₅₂ | B | B | B | B | B | B | A | O ₃₇ | A | A | |
| 13 | B | A | B | A | B | B | A | A | B | B | B | B | B | R | B | B | B | U ₃₁ | R | A | B | A | A | A | |
| 14 | A | B | A | A | A | A | A | A | A | A | B | B | R | B | B | O ₃₆ | B | B | B | B | B | B | A | A | |
| 15 | R | A | A | A | X ₄₄ | A | 45 | 33 | 35 | B | R | O ₄₁ | O ₃₉ | B | R | B | R | A | R | A | B | A | A | R | |
| 16 | A | A | A | A | A | A | B | A | A | A | B | B | 40 | B | B | B | B | B | B | R | B | A | A | A | |
| 17 | A | A | A | A | A | A | B | B | R | O ₂₃ | 32 | B | B | B | B | B | B | R | B | B | B | R | R | A | A |
| 18 | A | A | A | A | B | B | A | B | B | B | B | B | 41 | X ₄₀ | O ₃₆ | O ₃₆ | O ₂₉ | X ₂₃ | O ₂₇ | B | B | B | R | R | |
| 19 | R | A | A | A | B | A | A | A | O ₂₄ | B | B | B | B | B | B | B | B | R | B | B | A | A | A | R | |
| 20 | R | A | A | A | A | A | A | A | O ₃₃ | O ₃₃ | 29 | 36 | 46 | O ₃₇ | 35 | 32 | B | R | B | B | A | A | B | A | |
| 21 | A | A | A | A | A | A | B | A | A | B | 28 | O ₃₄ | B | B | B | B | B | R | B | B | R | A | R | R | |
| 22 | A | A | A | A | B | A | A | A | A | B | R | O ₃₇ | O ₄₁ | 53 | O ₄₅ | B | B | B | A | B | B | B | B | A | |
| 23 | A | A | A | A | A | A | R | R | A | A | A | 35 | 40 | 48 | 34 | A | A | O ₂₆ | A | A | A | B | A | A | |
| 24 | A | A | A | A | A | A | A | 23 | 25 | O ₂₃ | 28 | X ₃₆ | 41 | 52 | O ₃₉ | 28 | O ₂₃ | A | A | R | A | R | R | R | |
| 25 | A | A | A | A | A | 32 | O ₃₇ | R | R | A | 32 | 41 | 60 | 51 | 36 | 25 | O ₂₁ | A | A | A | A | A | R | A | |
| 26 | A | A | A | B | B | A | A | A | B | A | O ₃₁ | 39 | 45 | X ₄₂ | 47 | 31 | O ₂₃ | R | B | B | B | B | A | R | |
| 27 | A | A | A | A | 32 | A | A | A | A | B | B | 42 | 40 | O ₄₁ | 37 | 38 | A | A | A | R | A | R | R | A | |
| 28 | A | A | A | A | A | R | A | A | O ₂₁ | 25 | 30 | O ₃₆ | 42 | 46 | 53 | 37 | 24 | R | A | A | A | A | A | A | |
| 29 | A | A | A | R | A | 30 | A | A | 33 | 26 | B | A | 65 | 50 | 43 | 35 | 31 | 30 | 29 | A | A | A | A | U ₇₅ | |
| 30 | A | A | A | 87 | B | A | A | A | B | B | A | B | B | B | B | B | B | B | B | B | B | A | A | A | A |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | | 1 | 1 | 1 | 3 | 4 | 2 | 4 | 7 | 7 | 11 | 15 | 16 | 15 | 14 | 14 | 6 | 5 | 2 | | | 1 | 1 | 4 | |
| MED | | 34 | O ₃₄ | 87 | 32 | 31 | 41 | 24 | O ₂₅ | O ₂₅ | 31 | 38 | 44 | 48 | 40 | 36 | O ₂₄ | O ₂₆ | 28 | | O ₃₇ | 33 | 48 | | |
| UQ | | | | | 38 | 44 | | 29 | 33 | 26 | 32 | 41 | 46 | 52 | 45 | 37 | 29 | O ₃₀ | | | | | | 64 | |
| LQ | | | | | 31 | 28 | | 22 | O ₂₃ | O ₂₄ | 30 | 36 | 40 | 42 | 36 | 31 | O ₂₃ | O ₂₃ | | | | | | 39 | |

The Radio Research Laboratories, Japan

JUN. 1975

FXI (0.1 MHz)

IONOSPHERIC DATA

JUN. 1975

FOF2 (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | F | A | A | B | B | A | R | F ₁₅ | F ₁₇ | F ₂₄ | F ₃₇ | 40 | 35 | F ₄₅ | F ₃₇ | B | R | B | A | A | A | A | A |
| 2 | A | A | B | A | B | B | A | B | B | B | B | B | B | B | B | B | B | B | B | B | A | A | A | B |
| 3 | A | B | B | B | B | B | A | A | B | A | B | B | B | B | B | B | B | R | B | B | B | B | A | R |
| 4 | B | A | B | B | B | B | A | A | B | B | B | B | B | B | B | B | B | R | B | B | A | B | R | A |
| 5 | B | B | B | A | B | B | A | A | B | A | A | U _F ₂₈ | B | B | B | F ₃₀ | B | B | B | B | B | A | A | A |
| 6 | B | B | B | B | B | B | B | B | B | B | B | B | R | B | B | B | B | R | B | B | B | A | F ₂₅ | U _F ₂₀ |
| 7 | A | C | B | B | B | B | A | A | A | B | B | B | B | B | B | B | B | U _R ₁₂ | A | B | B | B | B | A |
| 8 | A | A | A | A | C | A | A | F ₁₃ | A | A | F ₂₅ | F ₃₂ | 39 | 40 | F ₃₂ | F | R | B | B | B | B | B | B | B |
| 9 | A | A | A | A | F | F ₁₇ | B | B | A | A | U _F ₂₁ | U _F ₃₀ | J _F ₃₈ | U _F ₃₅ | U _F ₃₀ | U _F ₃₀ | B | A | A | B | A | B | B | |
| 10 | A | B | 28 | A | A | A | A | F | A | F | J _F ₂₅ | U _F ₃₀ | U _F ₄₀ | F ₃₈ | F | U _F ₂₈ | B | A | A | A | A | B | A | F |
| 11 | A | A | B | B | A | A | A | A | A | B | A | A | B | B | B | B | B | A | B | B | B | B | A | A |
| 12 | A | A | A | A | A | A | A | B | A | A | B | B | B | J _F ₄₆ | B | B | B | B | B | A | A | U _R ₃₁ | A | A |
| 13 | B | B | B | A | B | B | B | A | B | B | B | B | B | B | B | B | B | F ₂₅ | A | B | A | A | A | A |
| 14 | A | B | B | B | A | A | A | A | A | A | B | B | B | B | B | F ₂₉ | B | R | B | B | B | B | A | A |
| 15 | A | A | A | A | 38 | A | U _F ₃₈ | F | F ₂₂ | B | A | U _R ₃₅ | F ₃₂ | B | R | B | R | A | R | A | B | A | A | A |
| 16 | B | A | B | A | A | A | B | B | A | B | B | B | U _F ₃₀ | B | B | B | B | B | B | A | B | A | A | A |
| 17 | A | A | B | A | A | A | B | B | A | F ₁₅ | U _F ₂₄ | B | B | B | B | B | B | R | B | B | A | R | A | A |
| 18 | B | A | B | A | B | B | B | B | B | B | B | B | U _F ₃₂ | F ₃₄ | F ₂₇ | F ₂₇ | F ₂₃ | F ₁₇ | F ₂₀ | B | B | B | R | R |
| 19 | A | A | A | A | B | A | A | A | F ₁₈ | B | B | B | B | B | B | B | B | B | B | B | A | A | A | R |
| 20 | R | A | A | B | A | B | A | A | F ₁₅ | F ₁₅ | F ₂₂ | 30 | F ₃₉ | U _R ₃₁ | F | U _F ₂₃ | B | B | B | B | B | B | B | A |
| 21 | A | A | A | A | A | A | B | A | A | B | U _F ₂₂ | 28 | B | B | B | B | B | B | B | B | R | A | R | R |
| 22 | A | A | A | B | B | B | A | A | A | B | A | 30 | 35 | 47 | F ₃₇ | B | B | R | A | B | B | B | B | A |
| 23 | A | A | A | A | A | A | A | R | A | A | A | F ₂₈ | F ₃₅ | F | U _F ₂₅ | A | A | F | A | A | A | B | A | A |
| 24 | A | A | A | A | A | A | A | F | F | F ₁₅ | U _F ₁₈ | 29 | F ₃₃ | F | U _F ₂₆ | F | F ₁₆ | A | A | R | A | A | R | R |
| 25 | A | A | A | A | A | F | U _F ₂₈ | R | R | A | F | F ₃₃ | U _F ₃₅ | J _F ₄₄ | U _F ₂₇ | F | 15 | B | A | A | A | A | R | A |
| 26 | A | A | A | B | B | B | B | B | B | A | U _F ₂₃ | U _F ₃₃ | F ₃₇ | F ₃₅ | F ₃₈ | U _F ₂₂ | F ₁₅ | B | B | B | B | B | A | R |
| 27 | A | A | A | A | F ₂₅ | A | A | A | A | B | B | F | F | F ₃₄ | F | F | A | A | A | A | A | A | A | A |
| 28 | A | A | A | A | A | R | A | A | U _F ₁₈ | F ₁₃ | U _F ₂₃ | 28 | F | U _F ₃₇ | F ₃₅ | F ₂₈ | F | A | B | B | B | B | B | B |
| 29 | A | A | A | A | A | F ₂₄ | A | A | F ₂₅ | F | B | A | F | U _F ₄₀ | U _F ₃₅ | J _F ₂₆ | F | F ₁₇ | U _F ₁₇ | A | A | A | A | F |
| 30 | B | A | A | R | B | A | A | B | B | B | A | B | B | B | B | B | B | R | B | B | A | A | A | A |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| CNT | | | 1 | | 2 | 2 | 2 | 1 | 6 | 5 | 10 | 14 | 13 | 13 | 11 | 10 | 4 | 4 | 2 | | | 1 | 1 | 1 |
| MED | | | 28 | | 32 | 20 | U _F ₃₃ | 15 | 18 | 15 | U _F ₂₃ | 30 | 35 | 37 | 32 | 28 | 16 | 17 | 18 | | U _R ₃₁ | 25 | U _F ₂₀ | |
| UQ | | | | | | | | | 22 | 15 | 24 | U _F ₃₃ | 39 | 40 | 36 | 30 | 20 | 21 | | | | | | |
| LQ | | | | | | | | | 15 | 15 | U _F ₂₂ | 28 | 33 | 35 | U _F ₂₈ | 26 | 15 | 14 | | | | | | |

The Radio Research Laboratories, Japan

JUN. 1975

FOF2 (0.1 MHz)

IONOSPHERIC DATA

JUN. 1975

FOF1 (0.01 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station **SYOWA STATION** Lat. 69 00.4 S, Long. 39 35.4 E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| CNT | | | | | | | | | | | | | | | | | | | | | | | | |
| MED | | | | | | | | | | | | | | | | | | | | | | | | |
| UQ | | | | | | | | | | | | | | | | | | | | | | | | |
| LQ | | | | | | | | | | | | | | | | | | | | | | | | |

JUN. 1975

FOF1 (0.01 MHz)

IONOSPHERIC DATA

JUN. 1975

FOE (0.01 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station **SYOWA STATION** Lat. 69° 00.4' S. Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 1 | | U K 100 | K 270 | B | | | | K 190 | K 125 | 100 | U A 120 | U R 130 | B | A | A | K 180 | | | | | | | | |
| 2 | | | | | | | | | | B | B | B | B | B | B | B | | | | | | | | |
| 3 | | | | | | | | | | | B | B | B | B | B | B | | | | | | | K 140 | K 260 |
| 4 | | | | | | | | | | B | B | B | B | B | B | B | | | | K 95 | | K 160 | K 210 | K 210 |
| 5 | | | | | | | | U K 320 | | B | B | A | B | B | B | B | | | | | | | | K 325 |
| 6 | | | | | | | | | | B | B | B | B | B | B | B | | | | | | K 170 | K 130 | K 170 |
| 7 | U K 200 | U K 360 | | | | | | K 275 | K 320 | | B | B | B | B | B | B | U K 100 | B | | | | | | K 175 |
| 8 | K 330 | K 310 | K 290 | | | K 120 | K 100 | U K 105 | | B | A | | U A 130 | U A 135 | U A 125 | H 125 | A | | | | | | | |
| 9 | K 180 | U K 250 | | | | U K 130 | | | | 170 | K 120 | 120 | 120 | 135 | 100 | B | | | | | | | | |
| 10 | U K 150 | | U K 150 | K 120 | U K 160 | | | | | K 110 | A | A | A | A | B | B | B | U K 150 | | U K 160 | K 160 | | K 125 | K 180 |
| 11 | K 320 | K 280 | | | | | K 420 | K 295 | | B | A | A | B | B | B | B | | | | | | | | K 360 |
| 12 | K 340 | K 350 | | | | K 160 | | | | U K 220 | B | B | B | B | B | B | | | | K 300 | | U K 230 | | |
| 13 | | | | U K 275 | | | | | | B | B | B | B | B | B | B | | | | | U K 200 | K 210 | | K 350 |
| 14 | K 360 | | | | | | K 290 | K 225 | | U K 210 | B | B | B | B | B | B | | | | | | | U K 120 | K 150 |
| 15 | K 180 | K 150 | K 150 | K 360 | K 330 | | U K 240 | U K 230 | K 130 | B | A | U K 250 | B | B | B | B | | | K 240 | | | U K 160 | K 150 | K 160 |
| 16 | | | | | K 375 | | | | | B | B | B | U A 150 | B | B | B | | | | U K 150 | | K 370 | | K 330 |
| 17 | K 360 | | | U K 350 | | | | | | 120 | A | B | B | B | B | B | | | | | | K 140 | K 350 | K 370 |
| 18 | | | | | | | | | | B | B | B | B | B | B | B | U K 140 | | K 110 | | | | K 120 | K 190 |
| 19 | K 180 | K 230 | | K 375 | | | | U K 300 | K 170 | B | B | B | B | B | B | B | | | | | U K 150 | K 170 | K 290 | K 180 |
| 20 | K 170 | K 320 | | | K 320 | | | | | 125 | 120 | 120 | | A | B | B | 130 | | | | | | | K 250 |
| 21 | U K 195 | K 280 | K 275 | K 275 | | K 320 | | | U K 260 | B | U R 110 | 130 | B | B | B | B | | | | | K 110 | | K 170 | U K 170 |
| 22 | K 370 | | U K 230 | | | | U K 275 | | K 210 | B | B | 200 | B | K 245 | B | B | | | | | | | | K 220 |
| 23 | K 300 | K 155 | U K 250 | K 340 | K 350 | K 190 | K 195 | K 150 | | B | B | U A 140 | 165 | A | H 120 | A | U K 140 | | | K 250 | U K 170 | | | |
| 24 | B | U K 250 | U K 250 | K 300 | K 325 | | | K 155 | K 150 | K 150 | 100 | 110 | U K 125 | U A 120 | B | B | U K 120 | U K 150 | K 125 | U K 100 | | K 120 | K 170 | B |
| 25 | | K 105 | A | U K 90 | U K 90 | U K 90 | U K 110 | | | U A 110 | A | 110 | U A 130 | U A 120 | A | A | | | | | U K 115 | K 130 | K 170 | K 350 |
| 26 | U K 275 | A | U K 310 | | | | | | | B | B | U A 140 | U R 125 | B | K 125 | B | | | | | | | K 120 | K 150 |
| 27 | U K 175 | U K 160 | U K 160 | K 275 | U K 170 | U K 130 | | | | B | B | B | B | B | A | A | | | | K 110 | B | K 100 | K 125 | K 175 |
| 28 | | U K 120 | | | | U K 210 | K 145 | K 190 | | U A 100 | A | B | B | B | A | A | A | | | | | | | |
| 29 | | | U K 140 | K 245 | | | | | K 120 | 120 | B | B | U R 175 | A | A | U A 100 | U K 100 | U K 120 | | K 380 | | K 400 | K 100 | |
| 30 | | | | U K 260 | | K 390 | | | | B | B | B | B | B | B | B | | | | | U K 130 | | K 325 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| CNT | 16 | 15 | 11 | 12 | 8 | 9 | 9 | 11 | 8 | 10 | 5 | 11 | 8 | 5 | 4 | 3 | 2 | 5 | 4 | 6 | 9 | 10 | 16 | 21 |
| MED | 238 | 250 | 250 | 275 | 322 | 160 | 240 | 225 | 140 | 122 | 120 | 130 | U K 130 | U A 125 | 122 | 130 | U K 130 | U K 140 | 122 | 155 | U K 150 | 165 | 155 | 190 |
| UQ | 335 | 295 | 275 | 345 | 340 | 210 | 275 | 298 | 190 | 170 | 120 | U A 140 | U R 158 | 135 | 125 | 155 | U K 150 | 182 | 250 | U K 170 | 210 | 230 | 325 | |
| LQ | 180 | 155 | 155 | 255 | 165 | 130 | 145 | 175 | 125 | 110 | 110 | 120 | U K 125 | U K 120 | 110 | 115 | U K 100 | 115 | U K 110 | U K 115 | 130 | 125 | 170 | |

JUN. 1975

FOE (0.01 MHz)

IONOSPHERIC DATA

JUN. 1975

FOES (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|----|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 1 | J ₂₄ ^A | 21 | 30 | D ₄₀ ^S | B | 46 | 33 | K ₁₉ | 15 | G | 13 | G | E ₂₂ ^B | 24 | J ₂₄ ^A | J ₂₃ ^A | B | B | B | 37 | 43 | 35 | 45 | 46 | |
| 2 | 110 | 78 | 67 | J ₄₁ ^A | B | 47 | 45 | B | B | B | B | B | B | B | B | B | B | B | B | B | J ₃₄ ^A | 26 | 29 | B | |
| 3 | J ₇₁ ^A | B | 42 | B | B | B | 38 | 26 | 29 | 25 | B | B | B | B | B | B | B | B | B | B | B | J ₂₆ ^A | K ₂₆ | | |
| 4 | 32 | 27 | B | B | 32 | B | B | 33 | B | B | B | B | B | B | B | B | B | B | B | B | 28 | B | K ₁₆ | 27 | |
| 5 | B | J ₃₅ ^A | 47 | J ₃₂ ^A | B | 38 | 42 | J ₄₄ ^A | B | 27 | 32 | 35 | B | B | B | E ₂₂ ^B | B | B | B | B | B | 45 | 35 | K ₃₂ | |
| 6 | B | 45 | J ₃₆ ^A | B | 47 | B | B | 51 | B | B | B | B | B | B | B | B | B | B | B | B | B | 22 | J ₂₄ ^A | 27 | |
| 7 | J ₃₉ ^A | 44 | B | J ₄₁ ^A | 51 | 47 | K ₂₇ | J ₃₇ ^A | 26 | B | B | B | B | B | B | B | B | 16 | 17 | B | B | B | B | 27 | |
| 8 | K ₃₃ | D ₄₀ ^S | J ₃₁ ^A | 22 | J ₆₀ ^A | J ₃₁ ^A | 27 | 19 | 16 | 29 | J ₂₆ ^A | J ₂₁ ^A | 27 | 14 | 12 | J ₂₂ ^A | 13 | B | B | B | B | B | 26 | B | |
| 9 | 24 | 30 | J ₄₁ ^A | J ₃₆ ^A | J ₇₂ ^A | 32 | B | 40 | 34 | 21 | G | G | 14 | 28 | J ₂₆ ^A | 13 | B | 80 | J ₃₁ ^A | B | 30 | J ₂₆ ^A | 40 | J ₂₇ ^A | |
| 10 | 22 | B | 37 | J ₇₁ ^A | 65 | J ₅₀ ^A | J ₄₇ ^A | 48 | J ₂₄ ^A | 37 | 39 | J ₂₃ ^A | J ₂₆ ^A | E ₂₃ ^B | J ₃₂ ^A | 28 | B | 27 | J ₂₄ ^A | 63 | J ₄₁ ^A | B | 17 | 27 | |
| 11 | K ₃₂ | J ₃₄ ^A | 40 | B | J ₅₄ ^A | 52 | K ₄₂ | K ₂₉ | J ₅₂ ^A | B | 55 | J ₄₄ ^A | B | B | B | B | B | 28 | B | B | B | 32 | J ₃₃ ^A | K ₃₆ | |
| 12 | K ₃₄ | K ₃₅ | 53 | 58 | J ₅₀ ^A | J ₂₇ ^A | J ₅₂ ^A | B | J ₃₉ ^A | 36 | B | B | B | E ₂₀ ^B | B | B | B | B | B | B | 36 | 27 | 30 | 47 | J ₃₉ ^A |
| 13 | B | 52 | 37 | J ₉₇ ^A | 115 | B | C ₄₇ | J ₃₉ ^A | B | B | B | B | B | B | B | B | B | E ₁₅ ^R | 35 | B | J ₃₀ ^A | 26 | J ₄₃ ^A | K ₃₅ | |
| 14 | K ₃₆ | 46 | 41 | 52 | 43 | 43 | J ₃₇ ^A | 35 | 38 | 38 | B | B | B | B | B | E ₂₁ ^B | B | B | B | B | B | B | 24 | 27 | |
| 15 | 23 | J ₄₉ ^A | 22 | K ₃₆ | 57 | 50 | J ₄₆ ^A | J ₄₀ ^A | J ₂₉ ^A | B | 26 | 32 | E ₂₃ ^B | B | E ₂₆ ^B | B | 103 | 115 | K ₂₄ | 40 | B | 31 | 22 | 19 | |
| 16 | J ₃₉ ^A | J ₄₂ ^A | J ₄₉ ^A | J ₄₅ ^A | 45 | 34 | B | 58 | 38 | 45 | B | B | 25 | B | B | B | B | B | B | 22 | B | K ₃₇ | J ₃₉ ^A | 35 | |
| 17 | K ₃₆ | J ₈₄ ^A | 53 | J ₅₂ ^A | J ₄₆ ^A | J ₅₁ ^A | B | B | 17 | G | 14 | B | B | B | B | B | B | B | B | B | J ₂₄ ^A | K ₁₄ | K ₃₅ | K ₃₇ | |
| 18 | 26 | 39 | J ₃₇ ^A | J ₆₀ ^A | B | B | 51 | B | B | B | B | B | E ₁₆ ^B | E ₁₅ ^B | E ₁₈ ^B | 25 | E ₁₄ ^B | E ₁₁ ^R | 11 | B | B | B | K ₁₂ | K ₁₉ | |
| 19 | J ₂₄ ^A | J ₂₈ ^A | 30 | D ₆₈ ^S | B | 45 | 55 | 39 | J ₂₄ ^A | B | B | B | B | B | B | B | B | B | B | B | 25 | 30 | K ₂₉ | K ₁₈ | |
| 20 | K ₁₇ | K ₃₂ | 41 | 41 | K ₃₂ | J ₄₅ ^A | 38 | 38 | 15 | G | 30 | 13 | J ₁₉ ^A | E ₂₃ ^B | J ₂₂ ^A | 17 | B | B | B | B | 34 | 20 | B | K ₂₅ | |
| 21 | J ₂₇ ^A | K ₂₈ | K ₂₇ | K ₂₇ | 38 | K ₃₂ | B | 41 | 28 | B | G | 15 | B | B | B | B | B | B | B | B | 11 | 30 | 19 | 20 | |
| 22 | 47 | 41 | 44 | 46 | 42 | 42 | J ₄₆ ^A | J ₃₁ ^A | J ₂₆ ^A | B | 33 | 33 | E ₂₃ ^R | 33 | E ₂₇ ^B | B | B | B | B | 25 | B | B | B | 27 | |
| 23 | K ₃₀ | J ₂₅ ^A | J ₃₄ ^A | K ₃₄ | K ₃₅ | 28 | 25 | 15 | 30 | 34 | 32 | J ₂₈ ^A | 25 | J ₃₂ ^A | J ₃₅ ^A | J ₆₁ ^A | 40 | J ₂₆ ^A | J ₂₉ ^A | 32 | J ₂₉ ^A | B | 21 | J ₂₂ ^A | |
| 24 | J ₄₇ ^A | 31 | 30 | K ₃₀ | J ₄₃ ^A | 38 | 29 | J ₃₀ ^A | 17 | 17 | 14 | 35 | 17 | 23 | J ₂₆ ^A | 30 | 17 | 32 | 48 | 12 | J ₂₃ ^A | 17 | K ₁₇ | 17 | |
| 25 | J ₂₃ ^A | J ₃₃ ^A | J ₄₆ ^A | J ₅₀ ^A | 19 | J ₂₈ ^A | J ₃₆ ^A | J ₁₈ ^A | 19 | 25 | 32 | J ₅₂ ^A | 59 | 73 | J ₆₄ ^A | J ₃₀ ^A | E ₁₂ ^B | J ₂₅ ^A | 28 | 25 | 28 | J ₂₇ ^A | K ₁₅ | 35 | |
| 26 | J ₈₁ ^A | J ₆₄ ^A | 47 | B | 58 | D ₆₇ ^S | 65 | 52 | B | 33 | 23 | 25 | G | E ₁₉ ^B | 15 | E ₁₂ ^B | 14 | B | B | B | B | B | 30 | K ₁₅ | |
| 27 | J ₂₇ ^A | J ₂₉ ^A | J ₂₉ ^A | J ₄₅ ^A | J ₂₄ ^A | J ₁₇ ^A | J ₃₆ ^A | 100 | 71 | B | B | E ₁₄ ^B | E ₂₆ ^B | 45 | J ₂₅ ^A | J ₂₅ ^A | 28 | J ₄₉ ^A | J ₂₁ ^A | 17 | J ₃₃ ^A | 15 | 15 | 24 | |
| 28 | J ₂₈ ^A | J ₂₉ ^A | 42 | 37 | U ₃₈ ^S | 23 | J ₄₇ ^A | J ₄₇ ^A | 17 | 13 | J ₂₈ ^A | E ₁₆ ^B | E ₁₆ ^B | 28 | 30 | J ₃₇ ^A | 24 | 19 | 26 | 53 | 25 | 32 | 24 | 25 | |
| 29 | 22 | 33 | J ₂₉ ^A | 28 | D ₇₀ ^S | D ₄₅ ^S | 46 | J ₃₂ ^A | J ₂₄ ^A | 20 | B | J ₇₃ ^A | J ₉₂ ^A | J ₃₃ ^A | J ₃₂ ^A | 28 | 20 | J ₂₄ ^A | 18 | J ₅₂ ^A | K ₄₂ | 42 | 45 | J ₄₂ ^A | |
| 30 | J ₅₈ ^A | 45 | J ₅₁ ^A | 31 | B | K ₃₉ | 60 | 61 | B | B | 28 | B | B | B | B | B | B | B | B | B | 25 | 37 | K ₃₂ | 38 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CNT | 27 | 28 | 28 | 25 | 23 | 25 | 24 | 26 | 22 | 17 | 17 | 17 | 16 | 15 | 15 | 15 | 10 | 13 | 13 | 11 | 18 | 20 | 27 | 28 | |
| MED | 32 | 35 | 40 | 41 | 47 | 43 | 46 | 38 | 26 | 25 | 28 | 25 | U ₂₀ | 24 | J ₂₆ ^A | 25 | 18 | 26 | 25 | 36 | 28 | 30 | 26 | 27 | |
| UQ | 39 | 46 | 46 | J ₅₂ ^A | 59 | 48 | 49 | 47 | 34 | 34 | 32 | 35 | 26 | 32 | J ₃₁ ^A | 29 | 28 | 32 | 29 | 46 | J ₃₄ ^A | 34 | 35 | 35 | |
| LQ | 24 | 30 | 30 | 34 | 40 | 32 | 36 | 30 | 17 | 17 | 14 | 14 | E ₂₂ ^B | U ₂₀ | 22 | 22 | 14 | 19 | 21 | 24 | 25 | 24 | 20 | 23 | |

JUN. 1975

FOES (0.1 MHz)

IONOSPHERIC DATA

JUN. 1975

F=MIN (0.1 MHz)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-------------|-----------|-----------|-----------|----|-----------|----|----|----|-----------|----|----|----|----|-----------|-----------|-----------|----|----|----|----|----|----|-----------|-----------|--|
| 1 | 9 | 8 | E C 10 | 14 | B | 17 | 13 | 11 | 10 | 9 | 10 | 12 | 22 | 17 | E C 10 | 9 | B | R | B | 15 | 10 | 10 | 12 | 13 | |
| 2 | 10 | 10 | 15 | 11 | B | 36 | 17 | B | B | B | B | B | R | B | B | B | B | R | B | B | 10 | 13 | 12 | B | |
| 3 | 13 | B | 23 | B | B | B | 15 | 13 | 22 | 20 | B | B | B | B | B | B | B | R | B | B | B | B | 9 | 9 | |
| 4 | 20 | 16 | B | B | 18 | B | B | 13 | B | B | B | B | B | B | B | B | B | R | B | B | 9 | B | 10 | 8 | |
| 5 | B | 15 | 27 | 10 | B | 21 | 12 | 12 | B | 18 | 23 | 11 | R | B | B | 22 | B | R | B | B | B | 9 | 10 | 9 | |
| 6 | B | 23 | 16 | B | 26 | B | B | 24 | B | B | B | B | R | B | B | B | B | R | B | B | B | 9 | 8 | 9 | |
| 7 | 9 | E C 23 | B | 22 | 22 | 15 | 10 | 10 | 10 | B | B | B | B | B | B | B | B | 10 | 12 | B | B | B | B | 9 | |
| 8 | 9 | 9 | 10 | 9 | E C 21 | 9 | 9 | 8 | 11 | 11 | 10 | 10 | 10 | 11 | 10 | 10 | 10 | P | B | B | B | B | 15 | B | |
| 9 | 10 | 8 | 14 | 10 | 10 | 8 | B | 22 | 9 | 14 | 10 | 10 | 11 | 13 | 9 | 10 | B | 16 | 14 | B | 15 | 16 | 17 | 15 | |
| 10 | 15 | B | 15 | 10 | 10 | 12 | 15 | 10 | 10 | 9 | 9 | 9 | 10 | 23 | 22 | 12 | B | 15 | 12 | 12 | 12 | B | 11 | 9 | |
| 11 | 9 | 9 | 18 | B | 11 | 12 | 15 | 10 | 10 | B | 10 | 10 | B | B | B | B | R | 22 | B | B | B | 18 | 10 | 10 | |
| 12 | 9 | 9 | 11 | 14 | 9 | 8 | 9 | B | 10 | 10 | B | B | B | 20 | B | B | B | R | B | 20 | 9 | 9 | 15 | E C 10 | |
| 13 | B | 17 | 22 | 9 | 27 | B | 22 | 15 | B | B | B | B | R | B | B | B | B | 15 | 23 | B | 11 | 9 | 8 | 10 | |
| 14 | 9 | 22 | 20 | 21 | 10 | 10 | 10 | 10 | 11 | 10 | B | B | R | B | B | 21 | B | R | B | B | B | B | 8 | 9 | |
| 15 | 9 | 9 | 9 | 9 | 9 | 12 | 10 | 10 | 10 | B | 13 | 20 | 23 | B | 26 | B | 14 | 23 | 16 | 15 | B | 10 | 9 | 16 | |
| 16 | 18 | 10 | 16 | 14 | 21 | 14 | B | 24 | 15 | 27 | B | B | 13 | B | B | B | B | R | B | 11 | B | 12 | 9 | 8 | |
| 17 | 9 | 9 | 19 | 15 | 15 | 13 | B | B | 10 | 10 | 10 | B | R | B | B | B | B | B | B | 10 | 9 | 9 | E S 13 | | |
| 18 | 20 | 10 | 15 | 10 | B | B | 22 | B | B | B | B | B | 16 | 15 | 18 | 14 | 14 | 11 | 10 | B | B | B | 10 | 9 | |
| 19 | 10 | 10 | 10 | 15 | B | 10 | 15 | 15 | 10 | B | B | B | R | B | B | B | B | R | B | B | 9 | 10 | 9 | 10 | |
| 20 | 9 | 10 | 13 | 20 | 15 | 19 | 13 | 11 | 10 | 10 | 10 | 10 | 10 | 23 | 15 | 10 | B | R | B | B | 21 | 17 | B | 9 | |
| 21 | 7 | 10 | 12 | 13 | 15 | 10 | B | 18 | 13 | B | 11 | 12 | B | B | B | B | B | R | B | B | 8 | 8 | 11 | 9 | |
| 22 | 10 | 12 | 15 | 22 | 30 | 17 | 10 | 10 | 10 | B | 15 | 15 | 23 | 22 | 27 | B | B | B | 15 | B | B | B | B | 10 | |
| 23 | 10 | 9 | 9 | 11 | 10 | 10 | 10 | 10 | 15 | 18 | 15 | 10 | 10 | 11 | 10 | 10 | 10 | 10 | 11 | 13 | 17 | B | 10 | 9 | |
| 24 | 9 | 9 | 9 | 9 | 15 | 10 | 11 | 10 | E S 10 | 10 | 9 | 9 | 9 | 9 | 15 | 15 | 10 | 11 | 10 | 10 | 9 | 10 | 10 | 9 | |
| 25 | E C 10 | 9 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 9 | 10 | 10 | 10 | 10 | 12 | 14 | 13 | 10 | 10 | 11 | 10 | 10 | |
| 26 | 16 | 10 | 19 | B | 26 | 22 | 19 | 24 | B | 12 | 13 | 12 | 12 | 19 | 10 | 12 | 12 | P | B | B | B | B | 10 | 10 | |
| 27 | 11 | E C 10 | 9 | 9 | 9 | 13 | 11 | 15 | 15 | B | B | 14 | 26 | 22 | 12 | 10 | 12 | 11 | 11 | 10 | 10 | 9 | E C 10 | 9 | |
| 28 | 8 | 8 | 12 | 10 | 10 | 9 | 9 | 9 | E C 10 | 8 | 8 | 16 | 16 | 11 | 9 | 10 | 12 | 12 | 18 | 18 | 17 | 15 | 14 | 15 | |
| 29 | 12 | 8 | 8 | 9 | 18 | 10 | 10 | 9 | 8 | 9 | B | 23 | 13 | 12 | 10 | 8 | 10 | 9 | 8 | 9 | 11 | 13 | 10 | 9 | |
| 30 | 18 | 11 | 10 | 12 | B | 23 | 18 | 22 | B | B | 20 | B | B | B | B | B | B | R | B | B | 10 | 10 | 9 | 10 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | |
| MED | 10 | 10 | 14 | 12 | 17 | 13 | 14 | 12 | 10 | 19 | 18 | 18 | 24 | D B 23 | D B 27 | D B 22 | B | R | B | B | 16 | 13 | 10 | 10 | |
| UQ | 16 | 14 | 19 | 21 | 30 | 22 | 22 | 22 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 12 | 10 | |
| LQ | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 12 | 15 | 10 | 10 | 12 | 14 | 13 | 15 | 10 | 10 | 9 | 9 | |

JUN. 1975

F=MIN (0.1 MHz)

IONOSPHERIC DATA

JUN. 1975

M(3000)F2 (0.01)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 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 | F | A | A | B | B | A | R | F ₂₆₅ | F ₂₉₅ | F ₃₀₅ | F ₃₂₅ | F ₃₅₀ | F ₃₆₀ | F ₃₄₅ | F ₃₅₀ | B | R | B | A | A | A | A | A | |
| 2 | A | A | B | A | B | B | A | B | B | B | B | B | B | B | B | B | B | R | B | B | B | A | A | A | B |
| 3 | A | B | B | B | B | B | A | A | B | A | B | B | B | B | B | B | B | B | B | B | B | B | B | A | R |
| 4 | B | A | B | B | B | B | B | A | B | B | B | R | R | B | B | B | B | R | B | B | B | A | B | R | A |
| 5 | B | B | B | A | B | B | A | A | B | A | A | U ₃₂₀ | F ₃₂₀ | B | B | B | F ₃₂₀ | B | R | B | B | B | A | A | A |
| 6 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | R | B | B | B | B | A | F ₃₂₀ | F |
| 7 | A | C | B | B | B | B | A | A | A | B | B | B | B | B | B | B | B | A | A | B | B | B | B | B | A |
| 8 | A | A | A | A | C | A | A | F ₃₁₀ | A | A | F ₂₈₀ | F ₃₂₀ | F ₃₃₀ | F ₃₆₅ | F ₃₄₅ | F | R | B | B | B | B | B | B | B | B |
| 9 | A | A | A | A | F ₂₆₅ | B | B | A | A | U ₃₀₀ | F ₃₀₀ | F | F ₃₂₀ | U ₃₂₀ | F | F | B | A | A | B | A | B | B | B | |
| 10 | A | B | 315 | A | A | A | F | A | F | F ₃₂₀ | F | F | F | F ₃₄₀ | F | U ₃₄₅ | B | A | A | A | A | B | A | F | |
| 11 | A | A | B | B | A | A | A | A | A | B | A | A | B | B | B | B | B | A | B | B | B | B | B | A | A |
| 12 | A | A | A | A | A | A | A | B | A | A | B | B | B | F ₃₁₅ | B | B | B | R | B | A | A | U ₃₁₅ | A | A | A |
| 13 | B | B | B | A | B | B | B | A | B | B | B | B | B | B | B | B | B | F ₂₆₅ | A | B | A | A | A | A | A |
| 14 | A | B | B | B | A | A | A | A | A | A | B | B | B | B | B | F ₃₄₀ | B | R | B | B | B | B | B | A | A |
| 15 | A | A | A | A | 360 | A | F | F | F ₂₉₀ | B | A | U ₃₁₀ | F ₃₁₅ | B | R | B | R | A | R | A | B | A | A | A | A |
| 16 | B | A | B | A | A | A | B | B | A | B | B | B | F | B | B | B | B | R | B | A | B | A | A | A | A |
| 17 | A | A | B | A | A | A | B | B | A | 325 | F | B | B | B | B | B | B | B | B | B | B | A | R | A | A |
| 18 | B | A | B | A | B | B | B | B | B | B | B | B | U ₃₄₅ | F ₃₆₀ | F ₃₇₀ | F ₂₉₅ | F ₃₂₅ | F ₃₂₅ | F ₃₂₅ | B | B | B | R | R | |
| 19 | A | A | A | A | B | A | A | A | F ₃₀₅ | B | B | B | B | B | B | B | B | R | B | B | B | A | A | A | R |
| 20 | R | A | A | B | A | B | A | A | 300 | F ₃₀₀ | F ₃₀₅ | F ₃₄₅ | F ₃₄₅ | R | F | U ₃₅₀ | B | R | B | B | B | B | B | A | |
| 21 | A | A | A | A | A | A | B | A | A | B | U ₃₁₀ | F ₃₀₀ | B | B | B | B | B | R | B | B | B | R | A | R | R |
| 22 | A | A | A | B | B | B | A | A | A | B | A | 325 | F ₃₄₀ | F ₃₄₀ | F ₃₅₀ | F | B | B | B | A | B | B | B | B | A |
| 23 | A | A | A | A | A | A | A | R | A | A | A | F ₃₄₀ | F ₃₃₅ | F | F | F | A | A | F | A | A | A | B | A | A |
| 24 | A | A | A | A | A | A | A | F | F | F ₃₀₀ | U ₃₃₅ | F ₃₄₅ | F ₃₃₅ | F | F | F | F | F | A | A | R | A | A | R | R |
| 25 | A | A | A | A | A | F | F | R | R | A | F | 335 | F | F | U ₃₆₅ | F | 320 | R | A | A | A | A | A | R | A |
| 26 | A | A | A | B | B | B | B | A | B | A | U ₂₉₅ | F ₃₂₀ | F ₃₅₀ | F ₃₃₅ | F ₃₃₅ | F | F ₃₃₅ | B | B | B | B | B | B | A | R |
| 27 | A | A | A | A | F ₃₃₀ | A | A | A | A | B | B | F | F | F ₃₅₅ | F | F | A | A | A | A | A | A | A | A | A |
| 28 | A | A | A | A | A | R | A | A | F | F ₃₁₀ | F | F | F ₃₅₀ | F | F | F ₃₄₅ | F ₃₅₅ | F | A | B | B | B | B | B | B |
| 29 | A | A | A | A | A | F ₂₈₀ | A | A | F ₂₉₀ | F | B | A | F | F | U ₃₄₅ | F ₃₈₅ | F | F ₂₉₅ | U ₂₇₅ | A | A | A | A | A | F |
| 30 | B | A | A | R | B | A | A | B | B | B | A | B | B | B | B | B | B | B | B | B | B | A | A | A | A |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| CNT | | | 1 | | 2 | 2 | | 1 | 5 | 5 | 8 | 12 | 9 | 9 | 8 | 8 | 4 | 3 | 2 | | | | 1 | 1 | |
| MED | | | 315 | | 345 | 272 | | 310 | F ₂₉₀ | F ₃₀₀ | F ₃₀₅ | F ₃₂₅ | F ₃₄₀ | F ₃₄₀ | F ₃₄₅ | F ₃₄₈ | F ₃₂₂ | F ₂₉₅ | F ₃₀₀ | | | U ₃₁₅ | F ₃₂₀ | | |
| UQ | | | | | | | | | F ₃₀₀ | F ₃₁₀ | F ₃₁₅ | F ₃₄₂ | F ₃₄₅ | F ₃₆₀ | F ₃₅₈ | F ₃₅₂ | F ₃₃₀ | F ₃₁₀ | | | | | | | |
| LQ | | | | | | | | | F ₂₉₀ | F ₃₀₀ | F ₂₉₈ | F ₃₂₀ | F ₃₃₅ | F ₃₃₅ | F ₃₄₅ | F ₃₃₀ | F ₃₀₈ | F ₂₈₀ | | | | | | | |

The Radio Research Laboratories, Japan

JUN. 1975

M(3000)F2 (0.01)

IONOSPHERIC DATA

JUN. 1975

H^oF₂ (KM)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S. Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| CNT | | | | | | | | | | | | | | | | | | | | | | | | |
| MED | | | | | | | | | | | | | | | | | | | | | | | | |
| UQ | | | | | | | | | | | | | | | | | | | | | | | | |
| LQ | | | | | | | | | | | | | | | | | | | | | | | | |

JUN. 1975

H^oF₂ (KM)

IONOSPHERIC DATA

JUN. 1975

H^oF (KM)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------|----|----|----|---------|-----------|-----|-----|-------|-----|-------|---------|---------|-----|-----|-----|-----|---------|---------|-----|----|----|----|-----|---------|
| 1 | A | A | A | A | B | B | A | R | A | 280 | 270 | 230 | 225 | 225 | 225 | 230 | B | B | B | B | A | A | A | A |
| 2 | A | A | B | A | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | A | A | A | B |
| 3 | A | B | B | B | B | B | B | A | B | B | B | B | B | B | B | B | B | B | B | B | B | B | A | R |
| 4 | B | B | B | B | B | B | B | A | B | B | B | B | B | B | B | B | B | B | B | B | A | B | R | A |
| 5 | B | B | B | A | B | B | A | A | B | A | B | A | B | B | B | B | B | B | B | B | B | A | A | A |
| 6 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | A | 275 | U H 280 |
| 7 | A | C | B | B | B | B | A | A | A | B | B | B | B | B | B | B | B | A | R | B | B | B | B | A |
| 8 | A | A | A | A | C | A | A | 320 | A | A | 275 | 230 | 210 | 195 | 205 | 205 | R | R | B | B | B | B | B | B |
| 9 | A | A | B | A | F U F 400 | B | B | A | A | 250 | 220 | 205 | 225 | 200 | 220 | B | A | A | B | B | B | B | B | B |
| 10 | A | B | A | A | A | A | B | A | A | A | 250 | 230 | 225 | 225 | 230 | 210 | B | A | A | A | A | B | A | 280 |
| 11 | A | A | B | B | A | A | A | A | A | B | A | A | B | B | B | B | B | R | B | B | B | B | A | A |
| 12 | A | A | A | A | A | A | A | B | A | A | B | B | B | 240 | B | B | B | R | B | A | A | A | B | A |
| 13 | B | B | B | A | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 340 | B | B | A | A | A |
| 14 | A | B | B | B | A | A | A | A | A | A | B | B | B | B | B | B | B | B | B | B | B | B | A | A |
| 15 | A | A | A | A | 280 | A | 350 | F 290 | B | A | 270 | 275 | B | B | 265 | B | B | R | R | A | B | A | A | A |
| 16 | B | A | B | B | A | A | B | B | A | B | B | B | 250 | B | B | B | B | B | B | B | A | B | A | A |
| 17 | A | A | B | A | A | A | B | B | A | 270 | 240 | B | B | B | B | B | B | R | B | B | A | R | A | A |
| 18 | B | A | B | A | B | B | B | B | B | B | B | B | 225 | 200 | 200 | 225 | 250 | 260 | 250 | B | B | B | R | R |
| 19 | A | A | A | A | B | A | B | A | 350 | B | B | B | B | B | B | B | B | B | B | B | A | A | A | R |
| 20 | R | A | B | B | A | B | A | A | A | 340 | 250 | 230 | 225 | 230 | 225 | 225 | B | B | B | B | B | B | B | A |
| 21 | A | A | A | A | B | A | B | B | A | B | 250 | 245 | B | B | B | B | B | R | B | B | R | A | A | A |
| 22 | A | A | B | B | B | B | A | A | A | B | A | 250 | 250 | 240 | 230 | F | B | B | R | B | B | B | B | A |
| 23 | A | A | A | A | A | A | A | R | A | B | A | 225 | 225 | 195 | 200 | A | A | U F 250 | A | A | A | B | A | A |
| 24 | A | A | A | A | A | A | A | A | 350 | F | A | U F 250 | 195 | 225 | 200 | 220 | 250 | 325 | A | A | A | A | A | A |
| 25 | A | A | A | A | A | A | A | A | A | A | U F 265 | 225 | 200 | 205 | 215 | 210 | F B 260 | B | B | B | A | A | R | A |
| 26 | A | A | A | B | B | B | B | B | B | A | 310 | 240 | 200 | 230 | 225 | 215 | F B 220 | R | B | B | B | B | A | R |
| 27 | A | A | A | A | 255 | A | A | B | B | B | B | 225 | 210 | 220 | 200 | 225 | A | A | A | A | A | A | A | A |
| 28 | A | A | A | A | A | A | A | A | A | F 280 | 250 | 265 | 240 | 235 | 220 | 230 | A | A | A | B | B | B | B | B |
| 29 | A | A | A | A | B | 325 | A | A | 300 | 290 | B | B | 230 | 220 | 210 | 180 | 230 | 275 | 315 | A | A | A | A | A |
| 30 | B | A | A | U F 225 | B | B | B | B | B | B | B | B | B | B | B | B | B | R | B | B | A | A | A | A |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| CNT | | | | 1 | 2 | 2 | 1 | 1 | 4 | 5 | 11 | 14 | 16 | 15 | 15 | 14 | 6 | 4 | 2 | | | | 1 | 2 |
| MED | | | | U F 225 | 268 | 362 | 350 | 320 | 325 | 280 | 250 | 230 | 225 | 225 | 220 | 225 | 235 | 268 | 282 | | | | 275 | 280 |
| UQ | | | | | | | | | 350 | 290 | 268 | 245 | 235 | 230 | 225 | 230 | 260 | 308 | | | | | | |
| LQ | | | | | | | | | 295 | 280 | 250 | 225 | 210 | 202 | 202 | 210 | F B 225 | 255 | | | | | | |

The Radio Research Laboratories, Japan

JUN. 1975

H^oF (KM)

IONOSPHERIC DATA

JUN. 1975

H⁺ES (KM)

45° E Mean Time (G. M. T. + 3 h)

Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----|------------------|------------------|-----|-----|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 1 | 115 | 130 ^K | 150 ^K | 105 ^K | B | 100 | 105 | 105 ^K | 120 ^K | G | 150 | G | R | 110 | 100 | 115 ^K | R | R | B | 110 | 110 | 110 | 110 | 120 |
| 2 | 130 | 110 | 105 | 105 | R | 125 | 105 | B | B | B | B | B | R | B | B | B | B | R | R | B | 105 | 100 | 105 | B |
| 3 | 105 | B | 105 | B | B | B | 100 | 105 | 105 | 125 | B | B | B | B | B | B | B | R | B | B | B | B | 110 ^K | 100 ^K |
| 4 | 120 | 120 | B | B | 100 | B | B | 100 | B | B | B | B | B | B | B | B | B | R | B | B | 100 ^K | B | 150 ^K | 100 ^K |
| 5 | B | 100 | 100 | 90 | B | 100 | 100 | 100 ^K | B | 100 | 110 | 100 | B | B | B | B | B | R | B | B | B | 100 | 105 | 100 ^K |
| 6 | B | 100 | 105 | B | 100 | B | B | 100 | B | B | B | B | B | B | B | B | B | R | B | B | B | 170 ^K | 100 ^K | 120 ^K |
| 7 | 125 ^K | 130 ^K | B | 100 | 100 | 100 | 105 ^K | 110 ^K | 100 | B | B | R | R | B | B | B | R | 130 ^K | 130 ^K | B | B | B | B | 145 ^K |
| 8 | 105 ^K | 120 ^K | 125 ^K | 150 | 100 | 115 ^K | 105 ^K | 105 ^K | 125 | 125 | 120 | 105 | 110 | 105 | 105 | 100 | 105 | R | B | R | B | B | 110 | B |
| 9 | 175 ^K | 140 ^K | 115 | 105 | 105 | 120 ^K | B | 100 | 100 | 140 ^K | G | G | 130 | 105 | 115 | 100 | B | 120 | 110 | B | 125 | 120 | 130 | 130 |
| 10 | 130 ^K | B | 175 ^K | 130 ^K | 130 ^K | 100 | 100 | 130 | 110 ^K | 110 | 105 | 110 | 105 | B | 120 | 120 | B | 115 ^K | 120 | 140 ^K | 140 ^K | B | 190 ^K | 150 ^K |
| 11 | 110 ^K | 105 ^K | 110 | B | 100 | 100 | 100 ^K | 100 ^K | 100 | B | 100 | 100 | R | B | B | B | R | 130 | B | B | B | 125 | 115 | 105 ^K |
| 12 | 110 ^K | 110 ^K | 100 | 100 | 100 | 125 ^K | 100 | B | 100 | 140 ^K | B | B | B | B | B | B | B | R | B | 125 ^K | 115 | 100 ^K | 105 | 110 |
| 13 | B | 100 | 120 | 100 ^K | 100 | B | 100 | 110 | B | B | B | B | B | B | B | B | B | R | 130 | B | 155 ^K | 160 ^K | 100 | 110 ^K |
| 14 | 100 ^K | 105 | 110 | 100 | 100 | 100 | 110 ^K | 100 ^K | 100 | 100 ^K | B | B | R | B | B | B | B | R | B | B | B | 150 ^K | 150 ^K | 150 ^K |
| 15 | 140 ^K | 115 ^K | 110 ^K | 100 ^K | 170 ^K | 100 | 100 ^K | 100 ^K | 100 ^K | 100 ^K | B | 100 | 110 ^K | B | B | B | 120 | 125 | 150 ^K | 105 | B | 120 ^K | 130 ^K | 130 ^K |
| 16 | 110 | 100 | 105 | 100 | 140 ^K | 100 | B | 100 | 100 | 155 | B | B | 100 | B | B | B | R | R | B | 150 ^K | B | 105 ^K | 100 | 140 ^K |
| 17 | 105 ^K | 100 | 100 | 110 ^K | 105 | 100 | B | B | 125 | G | 155 | B | B | B | B | B | B | R | B | B | 140 | 140 ^K | 105 ^K | 110 ^K |
| 18 | 120 | 110 | 105 | 105 | B | B | 100 | B | B | B | B | B | B | B | B | 105 | B | R | 130 | B | B | 170 ^K | 145 ^K | 145 ^K |
| 19 | 125 ^K | 130 ^K | 100 | 150 ^K | R | 100 | 100 | 105 ^K | 120 ^K | B | B | B | B | B | B | B | B | R | R | B | 120 | 130 | 105 ^K | 130 ^K |
| 20 | 120 ^K | 110 ^K | 110 | 100 | 100 ^K | 110 | 100 | 100 | 115 | G | 100 | 120 | 100 | B | 110 | 100 | B | R | R | B | 100 | 125 | B | 100 ^K |
| 21 | 100 ^K | 130 ^K | 120 ^K | 110 ^K | 105 | 110 | B | 100 | 100 ^K | B | G | 130 | R | B | B | B | R | R | B | B | 100 ^K | 110 | 145 ^K | 140 |
| 22 | 140 ^K | 110 | 130 ^K | 105 | 120 | 100 | 130 ^K | 105 ^K | 110 ^K | B | 110 | 125 ^K | B | 120 | B | B | B | R | 115 | B | B | B | B | 165 ^K |
| 23 | 105 ^K | 125 ^K | 120 ^K | 110 ^K | 105 ^K | 150 ^K | 140 ^K | 125 ^K | 100 | 100 | 105 | 100 | 130 | 100 | 145 | 105 | 110 | 120 ^K | 115 | 110 ^K | 125 ^K | B | 150 | 135 |
| 24 | 125 ^K | 140 ^K | 150 ^K | 115 ^K | 110 ^K | 100 | 100 | 110 ^K | 115 ^K | 155 ^K | 120 | 100 | 105 | 100 | 130 | 105 | 100 ^K | 105 ^K | 175 ^K | 100 ^K | 100 ^K | 100 ^K | 130 ^K | 155 ^K |
| 25 | 130 | 125 ^K | 125 ^K | 115 ^K | 100 ^K | 140 ^K | 125 ^K | 130 | 120 | 115 | 115 | 115 | 110 | 120 | 100 | 100 | B | 120 | 140 | 115 | 100 ^K | 175 ^K | 150 ^K | 115 ^K |
| 26 | 135 ^K | 115 ^K | 125 ^K | B | 105 | 100 | 120 | 100 | B | 100 | 120 | 100 | G | B | 145 | B | 130 | B | B | B | B | B | 100 | 150 ^K |
| 27 | 150 ^K | 140 ^K | 130 ^K | 125 ^K | 125 ^K | 155 ^K | 120 | 150 | 150 | B | B | B | B | 120 | 115 | 100 | 130 | 180 | 115 | 110 ^K | 110 ^K | 110 ^K | 100 ^K | 155 ^K |
| 28 | 145 | 120 ^K | 105 | 100 | 100 | 100 ^K | 135 ^K | 140 ^K | 125 | 140 | 100 | B | R | 100 | 100 | 100 | 105 | 100 | 150 | 120 | 125 | 175 | 105 | 100 |
| 29 | 100 | 95 | 95 ^K | 130 ^K | 150 | 120 | 100 | 105 | 100 ^K | 100 | B | 130 | 125 | 125 | 90 | 90 | 100 | 150 ^K | 130 ^K | 110 | 165 ^K | 110 | 160 ^K | 120 ^K |
| 30 | 100 | 100 | 100 | 150 ^K | B | 100 ^K | 100 | 100 | B | B | 125 | B | R | B | B | B | B | R | B | B | 180 ^K | 105 | 100 ^K | 105 |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| CNT | 27 | 28 | 28 | 25 | 23 | 25 | 24 | 26 | 22 | 14 | 15 | 13 | 9 | 10 | 12 | 12 | 8 | 11 | 13 | 11 | 18 | 20 | 27 | 28 |
| MED | 120 ^K | 112 ^K | 110 | 105 ^K | 105 | 100 | 100 | 105 | 108 | 120 | 110 | 110 | 110 | 108 | 112 | 100 | 108 | 120 | 130 | 110 ^K | 118 ^K | 115 | 110 ^K | 125 ^K |
| UQ | 130 ^K | 128 ^K | 125 ^K | 115 ^K | 115 | 120 | 115 ^K | 110 ^K | 120 | 140 | 120 | 120 | 125 | 120 | 125 | 105 | 125 | 130 | 140 | 122 | 140 ^K | 135 ^K | 148 ^K | 145 ^K |
| LQ | 105 ^K | 102 | 105 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 100 | 105 | 100 | 100 | 100 | 102 | 118 | 115 | 110 | 100 | 105 | 105 | 108 ^K |

The Radio Research Laboratories, Japan

JUN. 1975

H⁺ES (KM)

IONOSPHERIC DATA

JUN. 1975

TYPES OF ES

45° E Mean Time (G. M. T. + 3 h)

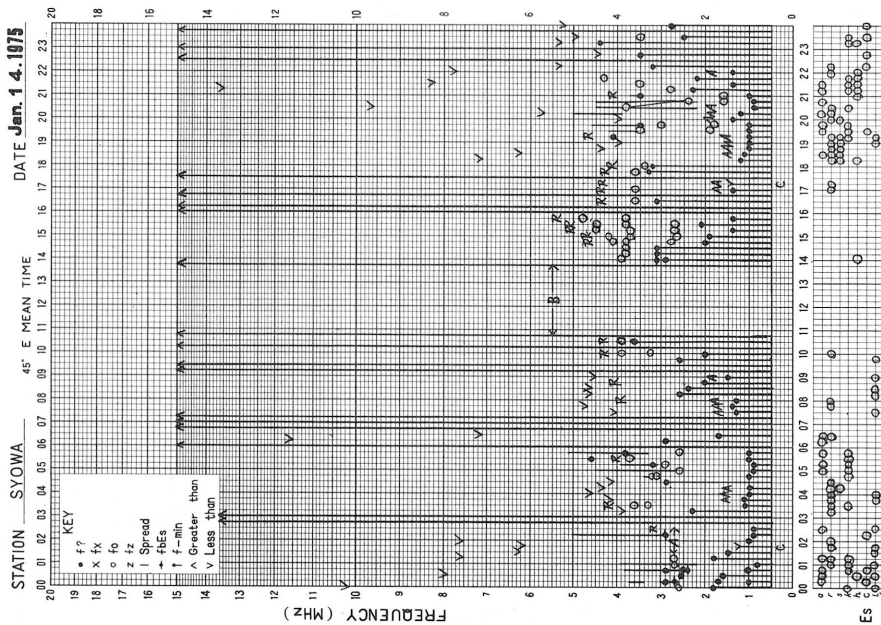
Station SYOWA STATION Lat. 69° 00.4' S, Long. 39° 35.4' E Sweep 0.5 MHz to 15 MHz in 30 sec in automatic operation

| Hour Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1 | RA11 | RAK11 | HK22 | CK22 | | F1 | R1 | K1 | RK11 | | R1 | | C1 | LR21 | CK11 | | | | | R2 | R4 | R3 | R2 | R2 | | |
| 2 | AR14 | FRA11 | R2 | RA21 | | R1 | R1 | | | | | | | | | | | | | | R3 | R2 | R3 | | | |
| 3 | R2 | | R1 | | | | R1 | R1 | F1 | R1 | | | | | | | | | | | | | RK11 | K3 | | |
| 4 | R1 | R1 | | | F1 | | | R1 | | | | | | | | | | | | | LK11 | | K1 | RK23 | | |
| 5 | | R1 | R1 | R1 | D1 | F1 | R2 | RK21 | | RD11 | C1 | L1 | | | | | | | | | RS21 | R4 | K4 | | | |
| 6 | | FF11 | RS21 | | R1 | | | R1 | | | | | | | | | | | | | | RK12 | LK11 | AKL12 | | |
| 7 | HK42 | CK13 | | F1 | R1 | R2 | K4 | LK12 | F1 | | | | | | | | | HK11 | HK11 | | | | | RK11 | | |
| 8 | K7 | CK13 | LKA13 | FFA11 | F5 | CK41 | CK21 | CK11 | F1 | R1 | C1 | L1 | LH11 | C1 | L1 | C1 | F1 | | | | | | F1 | | | |
| 9 | HK11 | HK13 | RA11 | RA11 | FA11 | RLK | | R1 | R2 | HK11 | | | H1 | L1 | C1 | C1 | | FA11 | R1 | | R1 | F1 | FF11 | F1 | | |
| 10 | HK11 | | HKH11 | HKA11 | HKA11 | RA11 | A1 | AR12 | RKA11 | CA21 | CA11 | A1 | CA11 | | C1 | C1 | | CK11 | R1 | CKH11 | HHK11 | | HK11 | RK11 | | |
| 11 | K7 | RK81 | R1 | | B2 | B2 | K3 | K3 | B3 | D1 | RA11 | B2 | | | | | | | F1 | | | RA11 | BA11 | KS11 | | |
| 12 | K6 | K4 | R3 | R2 | R3 | HKA11 | RF21 | | R2 | RRK11 | | | | | | | | | | | CK11 | RA11 | RK11 | R2 | R3 | |
| 13 | | R1 | R1 | FKH21 | FA11 | | F1 | R1 | | | | | | | | | | | | R1 | | RKA11 | HKA11 | R7 | K6 | |
| 14 | K4 | R1 | R1 | R1 | R1 | B3 | RK14 | RK12 | R1 | LK11 | | | | | | | | | | | | | RKA11 | RKA11 | | |
| 15 | HKA11 | HK82 | CKA11 | K5 | RK14 | R2 | RKA11 | RKA11 | RK21 | | R2 | RK11 | | | | | FA11 | F1 | K1 | R2 | | RK11 | HKA11 | RK11 | | |
| 16 | R1 | R4 | B2 | B2 | RK11 | B3 | | R1 | F1 | RR11 | | | C1 | | | | | | | | HKL11 | K3 | B5 | HKS26 | | |
| 17 | K6 | B3 | F1 | CK22 | R2 | R3 | | | R1 | | H1 | | | | | | | | | | | RA11 | KA11 | K6 | K6 | |
| 18 | R1 | B3 | B2 | R4 | D1 | | R1 | | | | | | | | | | | | | | | | | K1 | KA11 | |
| 19 | RK11 | CK22 | B3 | HK13 | | B3 | B2 | BK21 | LK11 | | | | | | | | | | | | | | CK11 | HKA11 | K3 | KA11 |
| 20 | KA11 | K4 | R2 | R1 | KL21 | R2 | R1 | R2 | R2 | | L1 | C1 | C1 | | C1 | C1 | | | | | | R1 | F1 | | KA11 | |
| 21 | RKA11 | KA21 | K3 | K3 | R2 | K3 | | R1 | RK21 | | | C1 | | | | | | | | | | K1 | B7 | RKA11 | RKA11 | |
| 22 | AK13 | RS11 | RKA11 | R1 | R1 | R1 | HKR11 | R4 | RK11 | | R1 | HK11 | | CK11 | | | | | | F1 | | | | | HK11 | |
| 23 | K5 | HKA13 | HK13 | K4 | K3 | RK11 | HKA11 | KA11 | FF11 | R1 | R1 | LH11 | H1 | LC11 | H1 | C2 | F2 | RKA11 | FA11 | CK11 | HK11 | | FA11 | F1 | | |
| 24 | CK21 | HKA11 | RKA11 | K3 | RK11 | R4 | BA11 | RKA11 | HK11 | HKA11 | H1 | L1 | C2 | L2 | HC11 | LA11 | RKH11 | LKA11 | HKC11 | CK11 | F1 | LK11 | KA11 | HKA11 | | |
| 25 | R4 | CKL11 | CK21 | CK61 | CK41 | CK61 | CK41 | R1 | R2 | HA11 | CA11 | R1 | CA11 | LH11 | L2 | R1 | | F1 | FF11 | F1 | CK11 | HK11 | KA11 | K4 | | |
| 26 | AK11 | RKA11 | RK11 | | R1 | R1 | R1 | RA11 | | R1 | R1 | L1 | | | | C1 | | F1 | | | | | | LK11 | K1 | |
| 27 | HK11 | RKA11 | HKA11 | KA14 | AA11 | HKA11 | FA11 | AF11 | FF12 | | | | | H1 | C1 | LA11 | F1 | FFF11 | R1 | CK11 | CK11 | CK11 | LK11 | HK12 | | |
| 28 | FA11 | RKA11 | R3 | R3 | R2 | RK11 | HK11 | HKA11 | R3 | A1 | L1 | | | C1 | L1 | L3 | F1 | F1 | F1 | FA11 | F1 | FF11 | F1 | F1 | | |
| 29 | FA11 | FA11 | LKH11 | HK11 | AF11 | BA11 | RA11 | R4 | RK22 | L1 | | HC11 | H1 | H1 | L2 | LH11 | F2 | HK11 | AK11 | RA11 | AK13 | R4 | AK16 | FKA11 | | |
| 30 | R1 | RS21 | BA11 | HKA11 | | K1 | R1 | R2 | | | R1 | | | | | | | | | | | HKL11 | RS11 | K4 | R4 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | |
| CNT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MED | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UQ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LQ | | | | | | | | | | | | | | | | | | | | | | | | | | |

JUN. 1975

TYPES OF ES

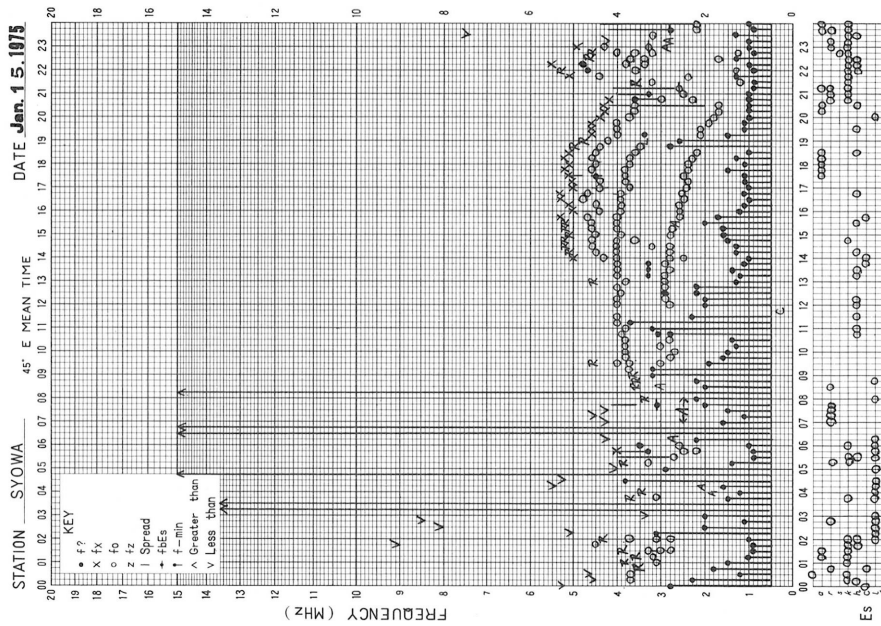
f-PLOT OF IONOSPHERIC DATA



SCALED BY S. Taguchi

The Radio Research Laboratories, Japan

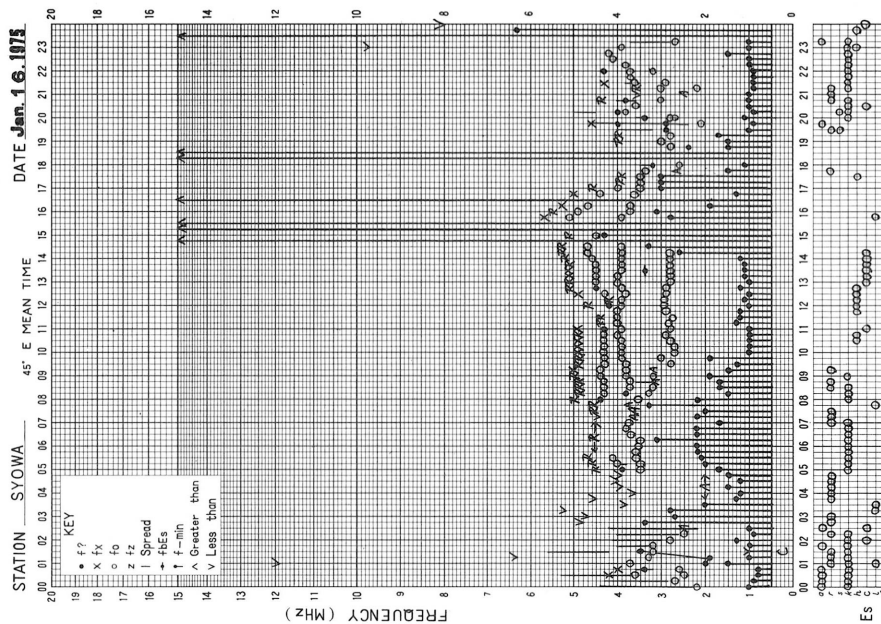
f-PLOT OF IONOSPHERIC DATA



SCALED BY S. Taguchi

The Radio Research Laboratories, Japan

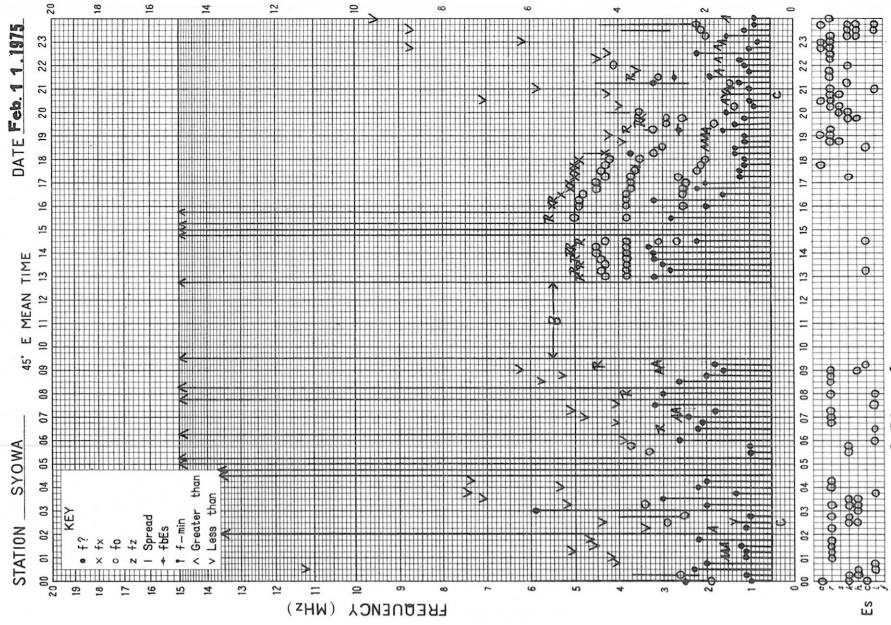
f-PLOT OF IONOSPHERIC DATA



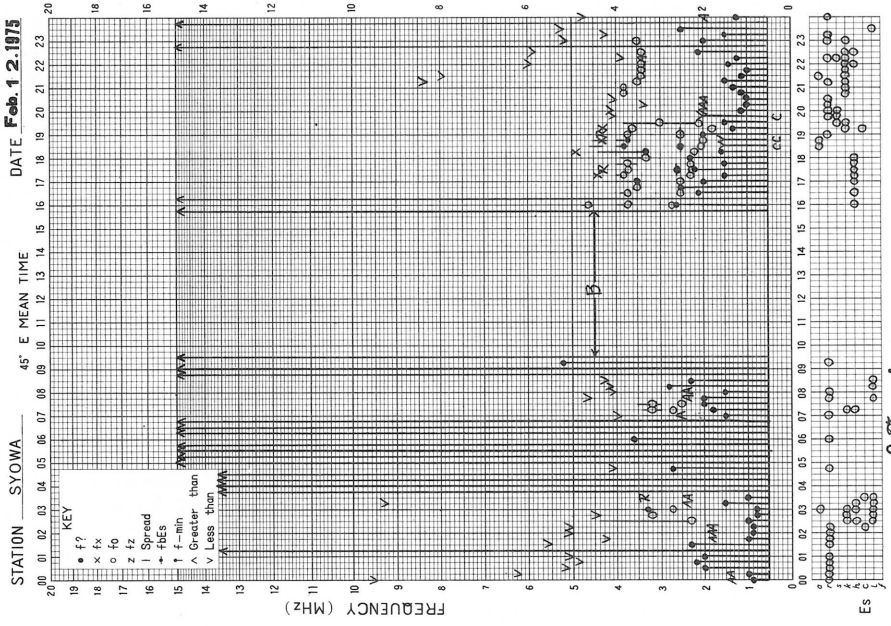
SCALED BY S. Taguchi

The Radio Research Laboratories, Japan

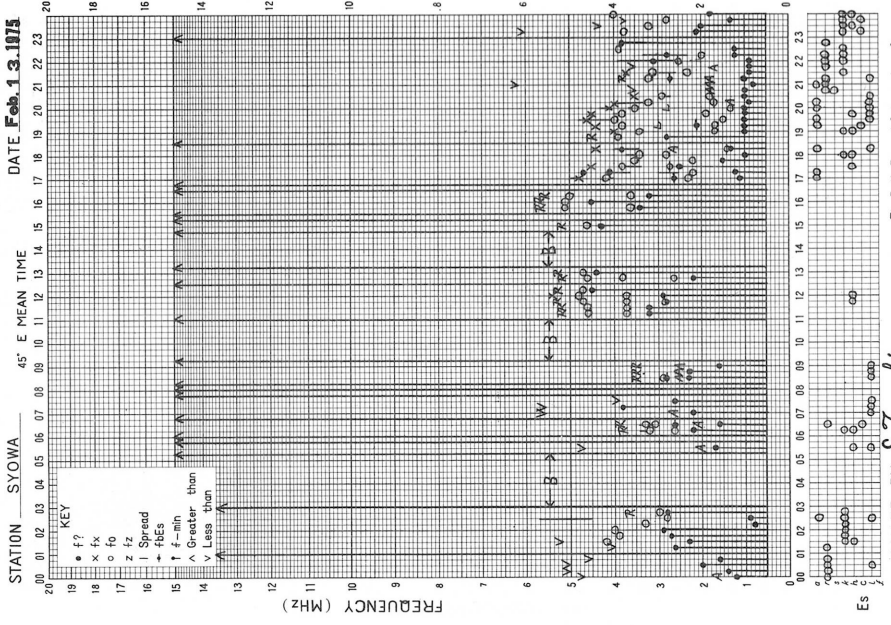
f-PLOT OF IONOSPHERIC DATA



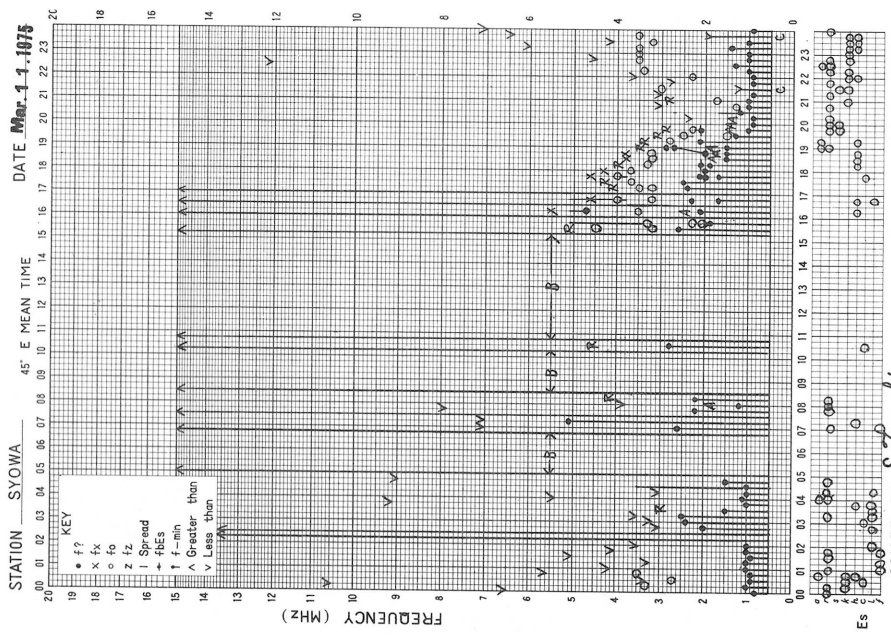
f-PLOT OF IONOSPHERIC DATA



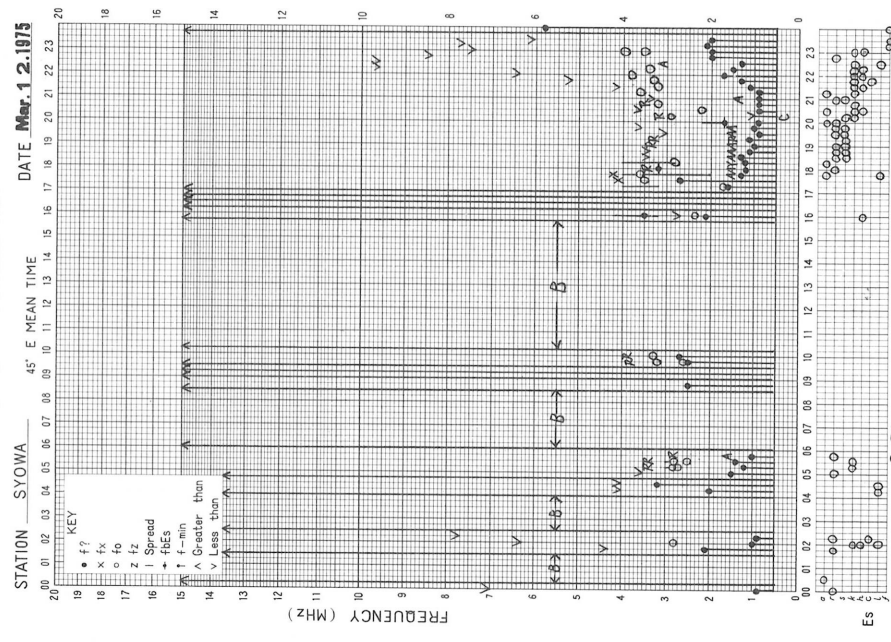
f-PLOT OF IONOSPHERIC DATA



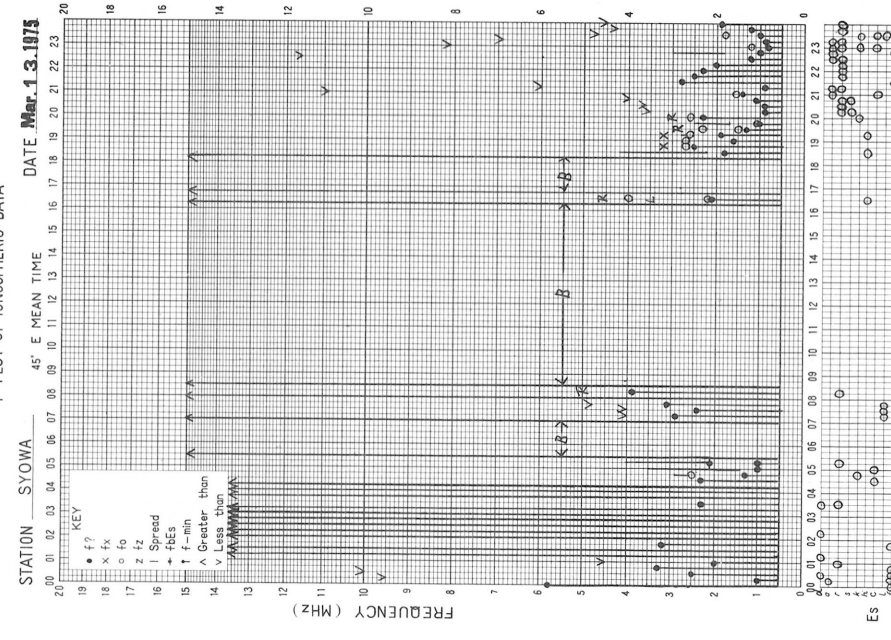
f-PLOT OF IONOSPHERIC DATA



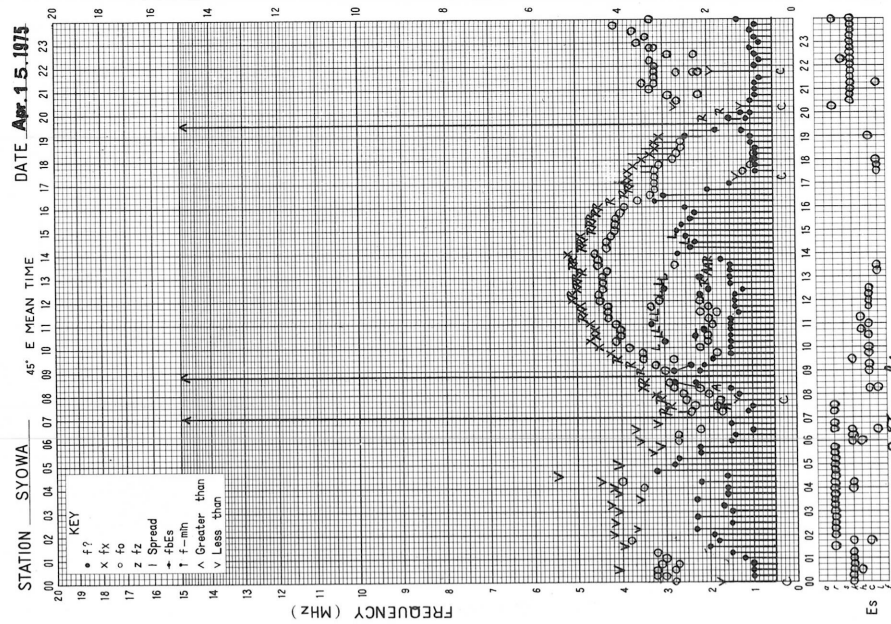
f-PLOT OF IONOSPHERIC DATA



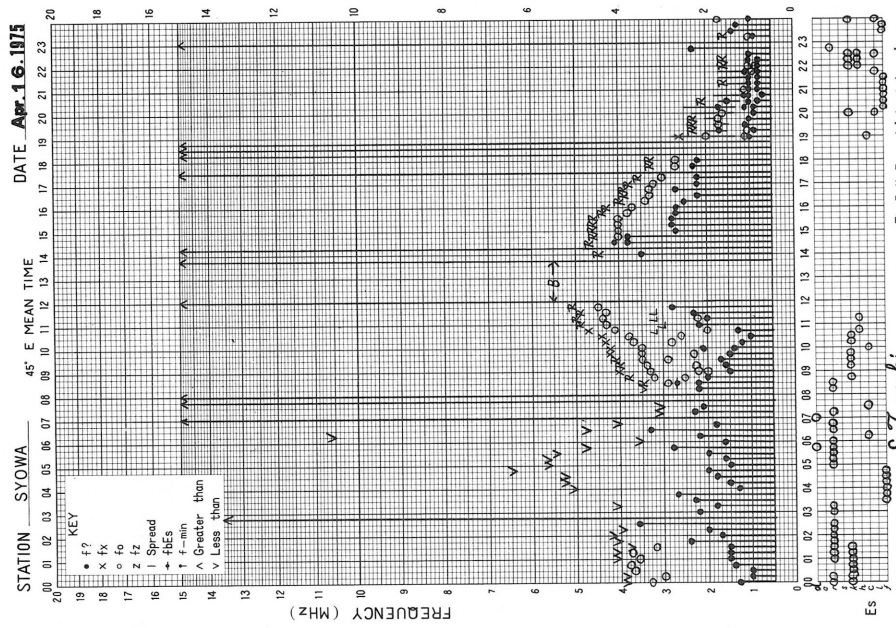
f-PLOT OF IONOSPHERIC DATA



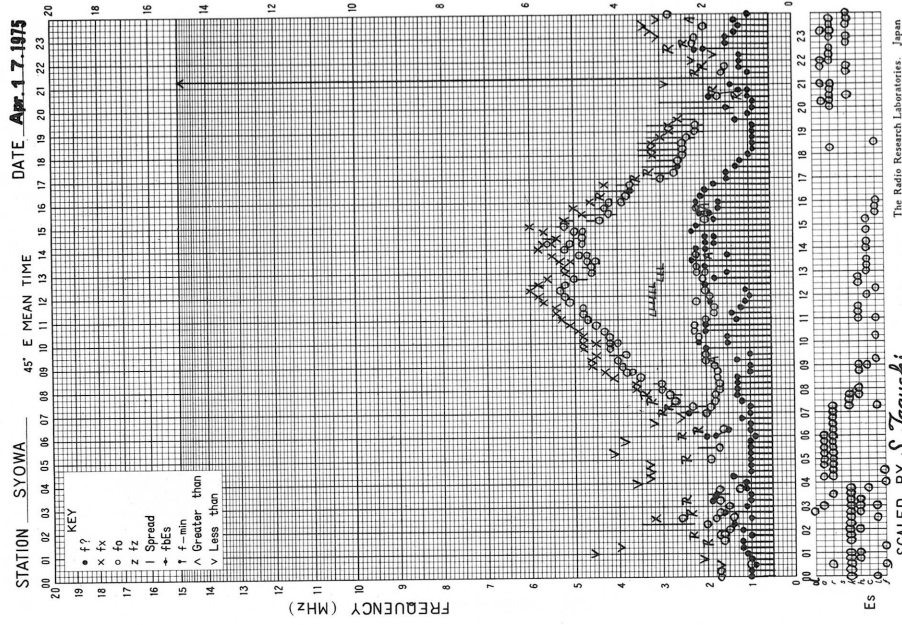
f-PLOT OF IONOSPHERIC DATA



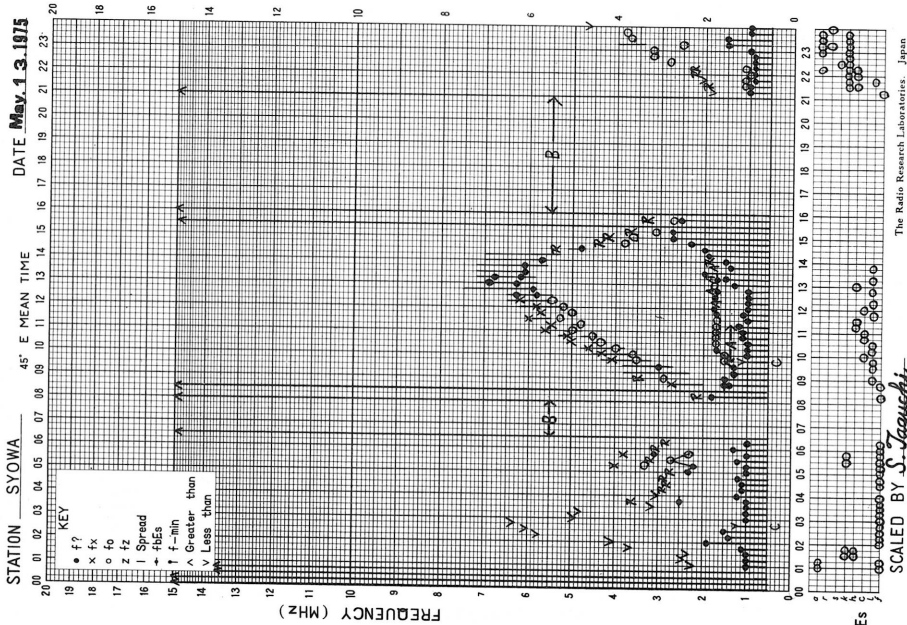
f-PLOT OF IONOSPHERIC DATA



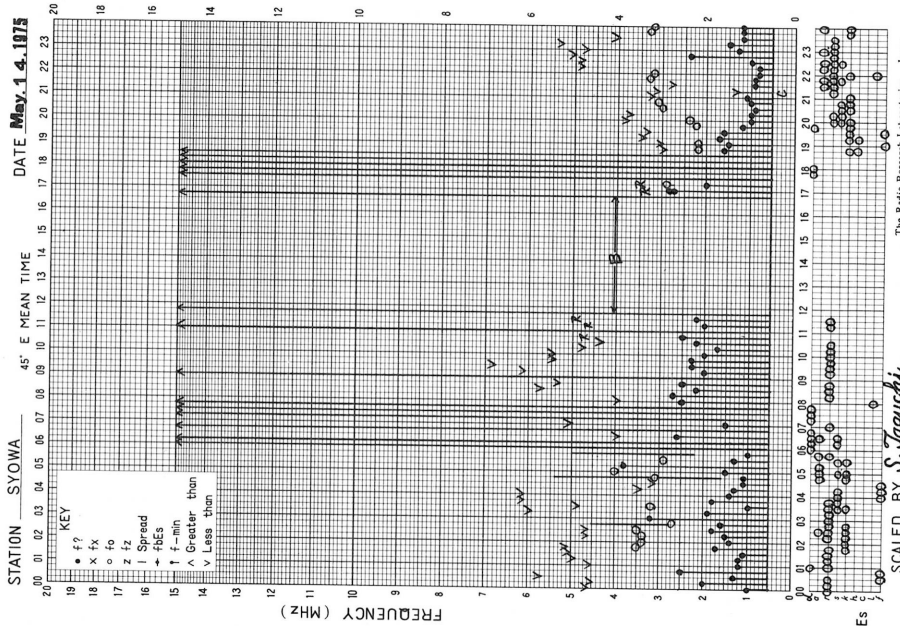
f-PLOT OF IONOSPHERIC DATA



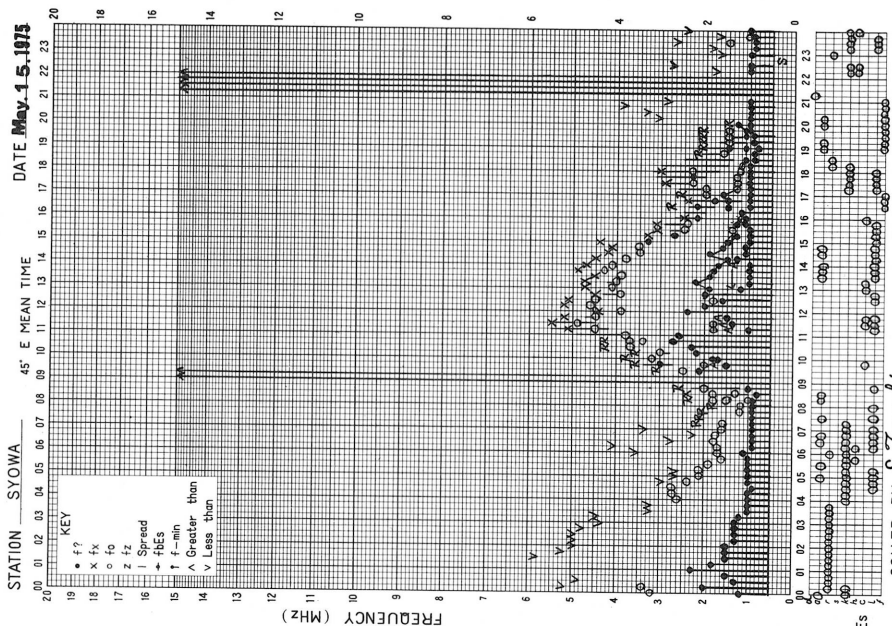
f-PLOT OF IONOSPHERIC DATA



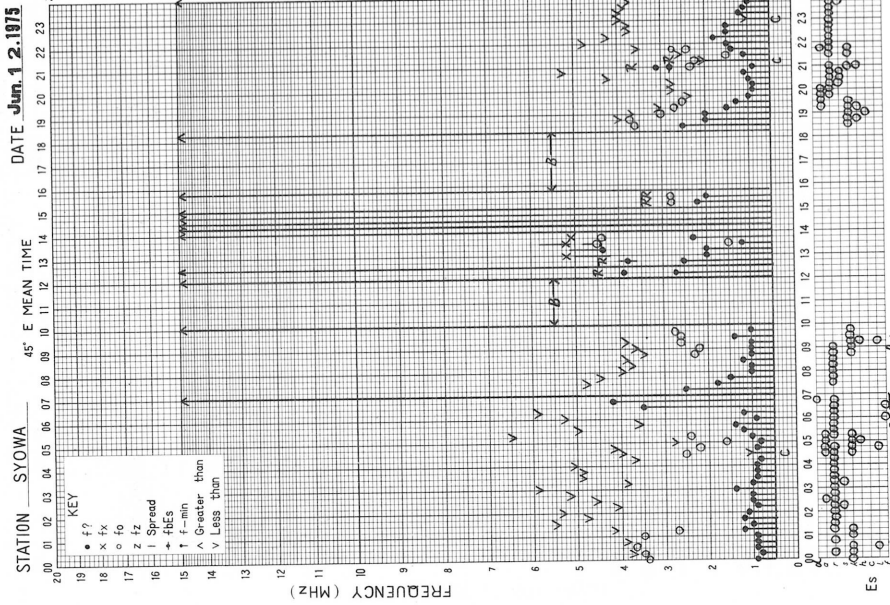
f-PLOT OF IONOSPHERIC DATA



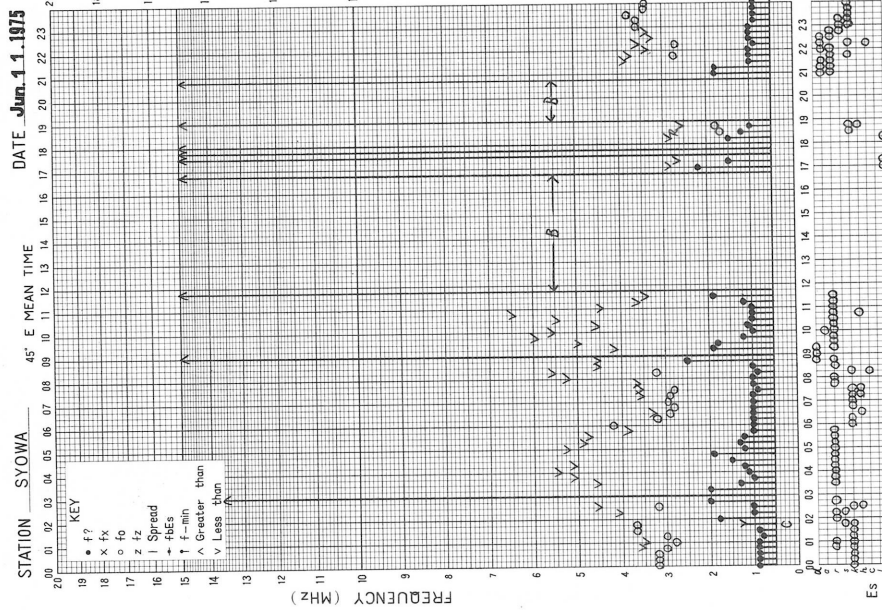
f-PLOT OF IONOSPHERIC DATA



f-PLOT OF IONOSPHERIC DATA



f-PLOT OF IONOSPHERIC DATA



f-PLOT OF IONOSPHERIC DATA

