

RECORDS OF RADIO AURORA AT SYOWA STATION, ANTARCTICA IN 1975

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1. Introduction

Observations of the aurora by means of the radar at 112.2 MHz have been carried out at Syowa Station, Antarctica, by staffs from the Radio Research Laboratories, since March 1966.

An alternative radar system was installed there in February 1974 and the observation of radio aurora using the system at four frequencies (50, 65, 80 and 112 MHz) in the VHF band was made during the period from January 1 to December 31, 1975.

The records of the 35 mm film in the form of A-scope display have been deposited in the Radio Research Laboratories.

Inquiries about the details of data should be addressed to:

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Ministry of Posts and Telecommunications
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Tokyo 184, Japan

2. Location

Syowa Station			
Geographic		Geomagnetic	
Latitude	Longitude	Latitude	Longitude
69°00'S	39°35'E	69.6°S	77.1°E

3. Observers

Hidetoshi SUGIUCHI (Radio Research Laboratories)
Noriaki KOMIYA (Radio Research Laboratories)

4. Method of Measurement

The antenna was fixed in the direction of the magnetic south and with an elevation angle of 25 degrees. The declination and inclination of the geomagnetic field at Syowa Station in 1974 were 45°50'W and 65°17'S, respectively.

The observation was made every one minute during hours from 18:00 through 08:00 L.T. (45° E.M.T.=U.T.+3 hours) in January, February and March 1975. Subsequently, the observation was made for one minute at intervals of 5 minutes throughout 24 hours every day.

On account of malfunction at the last stage of transmitter, the transmission power was reduced down to 60% or less of the maximum only for 112 MHz.

Characteristics of the system are as follows:

Antenna

An 8-element Yagi, 0.75 λ height

	(50 MHz)	(65 MHz)	(80 MHz)	(112 MHz)
Gain	: 12.3 dB	12.3 dB	12.2 dB	12.3 dB
Directivity (Front/Back)	: 16 dB	19 dB	18 dB	17 dB
Polarization	: horizontal			

Main equipment

Frequency	: 50, 65, 80, 112 MHz
Transmission power	: 20 kW (peak)
Pulse width	: 50 or 100 μ s
Pulse repetition frequency	: 50 Hz
Receiver bandwidth	: 50 kHz
Receiver noise figure	: less than 4 dB

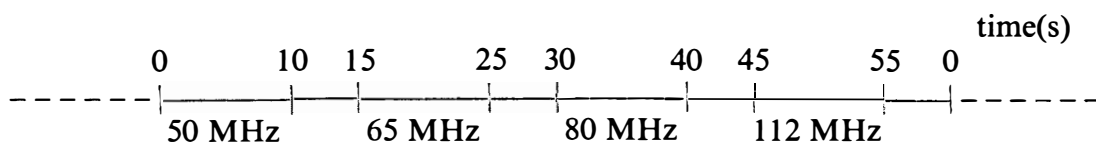
Indicator and recorder

A-scope display on 5-inch oscilloscope as shown in Fig. 1.

Recording	: 1 frame/10 s for each frequency with 35 mm film
Maximum range	: 1000 or 1500 km
Range mark	: every 50 and 100 km

Time schedule of operation

The following schedule was automatically carried out every minute.



5. Explanation of Tables

Table 1 shows the operation time of the radar in 1975.

Table 2 shows the relative field strengths and ranges of radio aurora echoes measured with 50 and 112 MHz at both 00 and 30 minutes of every hour. The local time is 45° E.M.T. and the symbols used in the tables are as follows:

- N : non-observation on schedule
- F : non-observation due to failure of operation
- Blank : non-reflection

Typical examples of the A-scope record of radio aurora are shown in Fig. 1.

Sometimes the echo is not single but has multiple peaks at separated ranges. In case of isolated multiple echoes as shown in Fig. 1 (b) the strengths and ranges with respect to each peak are indicated in Table 2.

On the other hand, in case of diffused multiple echoes as shown in Fig. 1 (c), only the strength and range of the most intense echo is shown and marked by “•”.

Monthly means of echo strength are shown only for the echo range of 300~350 km, and the cases, in which the echoes are received less than three times a month are neglected.

The data for 00 and 30 minute in Table 2 include those obtained within ± 5 minutes centered at 00 and 30 minute of each hour, respectively.

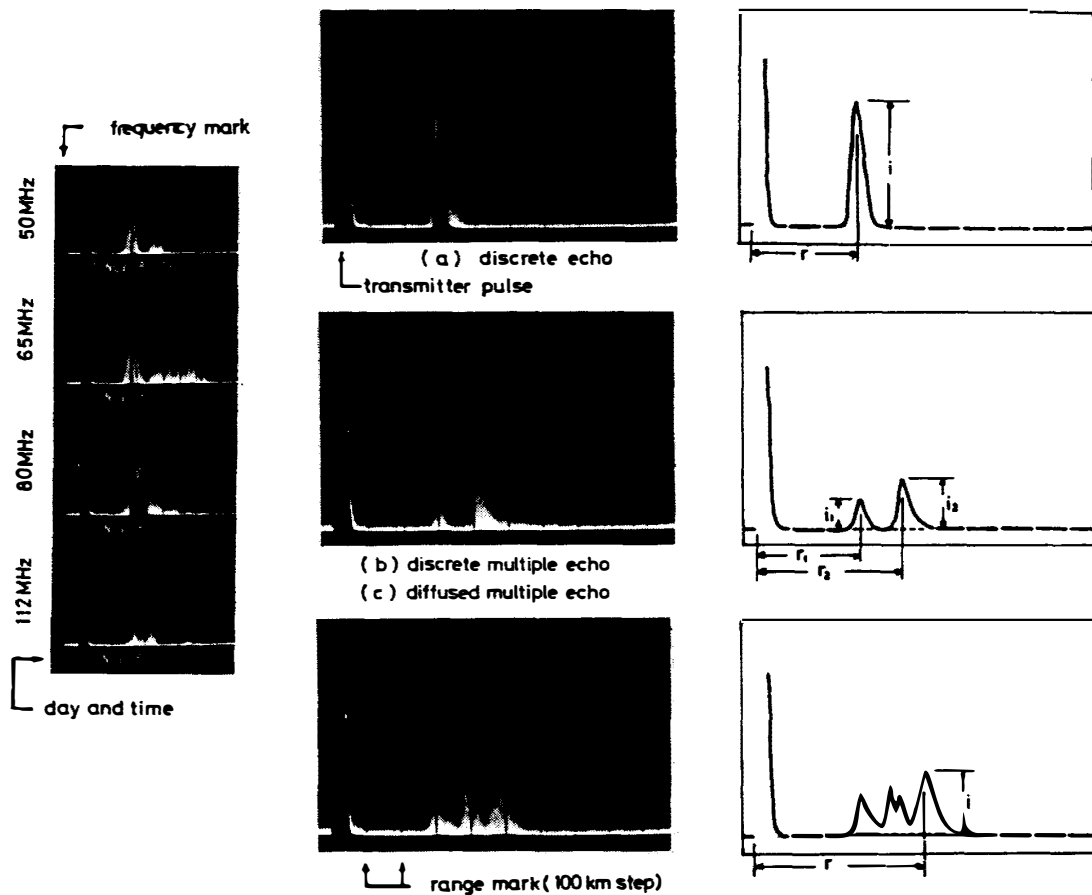


Fig. 1. A-scope Examples of radar echoes observed at Syowa Station.

Table 1. Time interval of operation of auroral radar at Syowa Station (1975).

Day	Observing time interval (45°E.M.T.)				Total observing time interval (h. m.)	Day	Observing time interval (45°E.M.T.)				Total observing time interval (h. m.)
	Starting time	Ending time	Starting time	Ending time			Starting time	Ending time	Starting time	Ending time	
1975 Jan.						1975 Feb.					
1	00 00	-08 00	18 48	-23 59	13 11	1			18 01	-23 59	5 58
2	00 00	-08 00	21 36	-23 59	10 23	2	00 00	-08 01	18 01	-23 59	13 59
3	00 00	-09 10	18 01	-23 59	15 28	3	00 00	-07 57	18 01	-23 59	13 55
4	00 00	-08 00	18 01	-23 59	13 58	4	00 00	-08 00	22 51	-23 59	9 08
5	00 00	-08 00	18 01	-23 59	13 58	5	00 00	-07 44	18 00	-23 59	13 43
6	00 00	-01 28	18 01	-23 59	7 26	6	00 00	-08 00	18 00	-23 59	13 59
7	00 00	-08 00	18 01	-23 59	13 58	7	00 00	-07 59	18 00	-23 59	13 58
8	00 00	-01 57			1 57	8	00 00	-07 58	18 00	-23 59	13 57
9			18 01	-23 59	5 58	9	00 00	-07 58	18 01	-23 59	13 56
10	00 00	-08 00	18 01	-23 59	13 58	10	00 00	-07 01	17 33	-23 59	13 27
11	00 00	-08 00	18 01	-19 20 19 47-23 59	13 31	11	00 00	-08 00	18 08	-23 59	13 51
12	00 00	-08 00	18 01	-23 59	13 58	12	00 00	-07 59	18 01	-23 59	13 57
13	00 00	-08 00	18 01	-23 59	13 58	13	00 00	-08 01	18 01	-23 59	13 59
14	00 00	-08 00	18 01	-23 59	13 58	14	00 00	-08 01	18 01-22 40 22 52-23 59		13 47
15	00 00	-08 00	18 01	-23 59	13 58	15	00 00	-08 00	18 02	-23 59	13 57
16	00 00	-07 01	17 01	-23 59	13 59	16	00 00	-08 00	18 02	-23 59	13 57
17	00 00	-07 01	17 01	-23 59	13 59	17	00 00	-08 01	18 02	-23 59	13 58
18	00 00	-07 00	17 01	-23 59	13 58	18	00 00	-08 01	18 02	-23 59	13 58
19	00 00	-07 32	18 01	-23 59	13 30	19	00 00	-08 01	18 02	-23 59	13 58
20	00 00	-08 00	18 02	-23 59	13 57	20	00 00	-08 01	18 01	-23 59	13 59
21	00 00	-08 01	18 32	-23 59	13 28	21	00 00	-08 01	18 01	-23 59	13 59
22	00 00	-08 01	23 00	-23 59	9 00	22	00 00	-07 55	18 01	-23 59	13 53
23	00 00	-08 01	18 01	-23 59	13 59	23	00 00	-08 01	18 03	-23 59	13 57
24	00 00	-08 00	18 02	-23 59	13 57	24	00 00	-08 01	18 01	-23 59	13 59
25	00 00	-08 01	18 01	-23 59	13 59	25	00 00	-07 53	18 02	-21 00	10 51
26	00 00	-08 01	18 01	-23 59	13 59	26			18 07	-23 59	5 52
27	00 00	-08 01	18 01	-23 59	13 59	27	00 00	-08 00			8 00
28	00 00	-08 01	18 02	-23 59	13 58	28			18 02	-23 59	5 57
29	00 00	-08 01	19 02	-23 59	12 58	29					
30	00 00	-08 02	18 03	-23 59	13 58	30					
31	00 00	-08 01	18 00	-20 16	10 17	31					

Day	Observing time interval (45°E.M.T.)				Total observing time interval (h. m.)	Day	Observing time interval (45°E.M.T.)				Total observing time interval (h. m.)
	Starting time	Ending time	Starting time	Ending time			Starting time	Ending time	Starting time	Ending time	
1975 Mar.						1975 Apr.					
1	00 00	08 00	18 02	23 59	13 57	1	00 00	23 59		23 59	
2	00 00	07 00	17 18	23 59	13 41	2	00 00	23 59		23 59	
3	00 00	08 00	18 11	22 00	11 49	3	00 00	17 00	23 30	23 59	17 29
4			18 04	23 59	5 55	4	00 00	23 59			23 59
5	00 00	07 44			7 44	5	00 00	10 30	12 01	23 59	22 28
6						6	00 00	23 59			23 59
7						7	00 00	23 59			23 59
8						8	00 00	23 59			23 59
9						9	00 00	14 55	17 05	23 59	21 49
10						10	00 00	23 59			23 59
11			21 07	23 59	2 52	11	00 00	23 59			23 59
12	00 00	12 01	18 01	23 59	17 59	12	00 00	23 59			23 59
13	00 00	08 00	19 21	23 59	12 38	13	00 00	23 59			23 59
14	00 00	08 01			8 01	14	00 00	23 59			23 59
15						15	00 00	23 59			23 59
16			18 00	21 10	3 10	16	00 00	23 59			23 59
17			18 00	23 59	5 59	17	00 00	23 59			23 59
18	00 00	08 00	18 00	23 59	13 59	18	00 00	23 59			23 59
19	00 00	08 00	18 01	23 59	13 58	19	00 00	23 59			23 59
20	00 00	07 00	17 14	23 59	13 45	20	00 00	14 40	19 30	23 59	19 09
21	00 00	07 00	18 01	23 59	12 58	21	00 00	23 59			23 59
22	00 00	08 00	18 03	23 59	13 56	22	00 00	23 59			23 59
23	00 00	08 00	18 00	23 59	13 59	23	00 00	16 58			16 58
24	00 00	04 00	18 00	23 59	9 59	24					
25	00 00	07 59	18 08	23 59	13 50	25					
26	00 00	07 56	18 06	23 59	13 49	26					
27	00 00	08 00	18 00	23 59	13 59	27			17 35	23 59	6 24
28	00 00	07 59	18 00	23 59	13 58	28	00 00	23 59			23 59
29	00 00	07 59	18 00	23 59	13 58	29	00 00	23 59			23 59
30	00 00	07 59	18 00	23 59	13 58	30	00 00	23 59			23 59
31	00 00	07 58			7 58	31					

Day	Observing time interval (45°E.M.T.)				Total observing time interval (h. m.)	Day	Observing time interval (45°E.M.T.)				Total observing time interval (h. m.)
	Starting time	Ending time	Starting time	Ending time			Starting time	Ending time	Starting time	Ending time	
1975 May						1975 June					
1	00 00	—23 59			23 59	1	00 00	—17 00	18 10	—23 59	22 49
2	00 00	—23 59			23 59	2	00 00	—23 59			23 59
3	00 00	—23 59			23 59	3	00 00	—23 59			23 59
4	00 00	—05 35	17 25	—23 59	12 09	4	00 00	—23 59			23 59
5	00 00	—23 59			23 59	5	00 00	—23 59			23 59
6	00 00	—23 59			23 59	6	00 00	—23 59			23 59
7	00 00	—23 59			23 59	7	00 00	—23 59			23 59
8	00 00	—23 59			23 59	8	00 00	—23 59			23 59
9	00 00	—23 59			23 59	9	00 00	—23 59			23 59
10	00 00	—23 59			23 59	10	00 00	—23 59			23 59
11	00 00	—23 59			23 59	11	00 00	—23 59			23 59
12	00 00	—23 59			23 59	12	00 00	—23 59			23 59
13	00 00	—23 59			23 59	13	00 00	—13 10			13 10
14	00 00	—23 59			23 59	14			14 16	—23 59	9 43
15	00 00	—04 30	08 30	—23 59	19 59	15	00 00	—23 59			23 59
16	00 00	—15 45	17 00	—23 59	22 44	16	00 00	—23 59			23 59
17	00 00	—23 59			23 59	17	00 00	—23 59			23 59
18	00 00	—23 59			23 59	18	00 00	—23 59			23 59
19	00 00	—01 59			01 59	19	00 00	—09 05	17 20	—23 59	15 44
20						20	00 00	—23 59			23 59
21						21	00 00	—23 59			23 59
22			14 31	—23 59	9 28	22	00 00	—23 59			23 59
23	00 00	—23 59			23 59	23	00 00	—23 59			23 59
24	00 00	—23 59			23 59	24	00 00	—23 59			23 59
25	00 00	—21 20			21 20	25	00 00	—23 59			23 59
26			12 26	—23 59	11 33	26	00 00	—23 59			23 59
27	00 00	—23 59			23 59	27	00 00	—23 59			23 59
28	00 00	—23 59			23 59	28	00 00	—23 59			23 59
29	00 00	—23 59			23 59	29	00 00	—23 59			23 59
30	00 00	—23 59			23 59	30	00 00	—23 59			23 59
31	00 00	—23 59			23 59	31					

Day	Observing time interval (45°E.M.T.)				Total observing time interval (h. m.)	Day	Observing time interval (45°E.M.T.)				Total observing time interval (h. m.)
	Starting time	Ending time	Starting time	Ending time			Starting time	Ending time	Starting time	Ending time	
1975 July						1975 Aug.					
1	00 00	16 15	17 25	23 59	22 49	1	00 00	23 59		23 59	
2	00 00	23 59			23 59	2	00 00	23 59		23 59	
3	00 00	23 59			23 59	3	00 00	23 59		23 59	
4	00 00	23 59			23 59	4	00 00	23 59		23 59	
5	00 00	23 59			23 59	5	00 00	23 59		23 59	
6	00 00	23 59			23 59	6	00 00	23 59		23 59	
7	00 00	16 50	17 40	23 59	23 09	7	00 00	23 59		23 59	
8	00 00	23 59			23 59	8	00 00	23 59		23 59	
9	00 00	23 59			23 59	9	00 00	16 45	17 15-23 59	23 29	
10	00 00	23 59			23 59	10	00 00	23 59		23 59	
11	00 00	23 59			23 59	11	00 00	23 59		23 59	
12	00 00	23 59			23 59	12	00 00	23 59		23 59	
13	00 00	23 59			23 59	13	00 00	23 59		23 59	
14	00 00	23 59			23 59	14	00 00	23 59		23 59	
15	00 00	23 59			23 59	15	00 00	23 59		23 59	
16	00 00	23 59			23 59	16	00 00	10 10	16 55-23 59	17 14	
17	00 00	23 59			23 59	17	00 00	23 59		23 59	
18	00 00	23 59			23 59	18	00 00	23 59		23 59	
19	00 00	23 59			23 59	19	00 00	00 35	16 20-23 59	8 14	
20	00 00	23 59			23 59	20	00 00	23 59		23 59	
21	00 00	23 59			23 59	21	00 00	23 59		23 59	
22	00 00	23 59			23 59	22	00 00	23 59		23 59	
23	00 00	23 59			23 59	23	00 00	23 59		23 59	
24	00 00	23 59			23 59	24	00 00	23 59		23 59	
25	00 00	23 59			23 59	25	00 00	23 59		23 59	
26	00 00	23 59			23 59	26	00 00	23 59		23 59	
27	00 00	23 59			23 59	27	00 00	23 59		23 59	
28	00 00	23 59			23 59	28	00 00	23 59		23 59	
29	00 00	23 59			23 59	29	00 00	23 59		23 59	
30	00 00	23 59			23 59	30	00 00	23 59		23 59	
31	00 00	23 59			23 59	31	00 00	23 59		23 59	

Day	Observing time interval (45°E.M.T.)				Total observing time interval (h. m.)	Day	Observing time interval (45°E.M.T.)				Total observing time interval (h. m.)
	Starting time	Ending time	Starting time	Ending time			Starting time	Ending time	Starting time	Ending time	
1975 Sep.						1975 Oct.					
1	00 00	—23 59			23 59	1	00 00	—23 59			23 59
2	00 00	—23 59			23 59	2	00 00	—23 59			23 59
3	00 00	—23 59			23 59	3	00 00	—22 40	23 55	—23 59	22 44
4	00 00	—23 59			23 59	4	00 00	—23 59			23 59
5	00 00	—23 59			23 59	5	00 00	—23 59			23 59
6	00 00	—16 25	17 05	—23 59	23 19	6	00 00	—23 59			23 59
7	00 00	—23 59			23 59	7	00 00	—23 59			23 59
8	00 00	—23 59			23 59	8	00 00	—23 59			23 59
9	00 00	—23 59			23 59	9	00 00	—23 59			23 59
10	00 00	—23 59			23 59	10	00 00	—23 59			23 59
11	00 00	—23 59			23 59	11	00 00	—23 59			23 59
12	00 00	—23 59			23 59	12	00 00	—23 59			23 59
13	00 00	—23 59			23 59	13	00 00	—23 59			23 59
14	00 00	—23 59			23 59	14	00 00	—23 59			23 59
15	00 00	—23 59			23 59	15	00 00	—23 59			23 59
16	00 00	—23 59			23 59	16	00 00	—23 59			23 59
17	00 00	—23 59			23 59	17	00 00	—23 59			23 59
18	00 00	—23 59			23 59	18	00 00	—19 50			19 50
19	00 00	—23 59			23 59	19			17 30	—23 59	6 29
20	00 00	—23 59			23 59	20	00 00	—23 59			23 59
21	00 00	—17 00	18 30	—23 59	22 29	21	00 00	—23 59			23 59
22	00 00	—23 59			23 59	22	00 00	—23 59			23 59
23	00 00	—23 59			23 59	23	00 00	—23 59			23 59
24	00 00	—23 59			23 59	24	00 00	—23 59			23 59
25	00 00	—23 59			23 59	25	00 00	—23 59			23 59
26	00 00	—23 59			23 59	26	00 00	—23 59			23 59
27	00 00	—23 59			23 59	27	00 00	—23 59			23 59
28	00 00	—23 59			23 59	28	00 00	—23 59			23 59
29	00 00	—23 59			23 59	29	00 00	—23 59			23 59
30	00 00	—23 59			23 59	30	00 00	—23 59			23 59
31						31	00 00	—23 59			23 59

Day	Observing time interval (45°E.M.T.)				Total observing time interval (h. m.)	Day	Observing time interval (45°E.M.T.)				Total observing time interval (h. m.)
	Starting time	Ending time	Starting time	Ending time			Starting time	Ending time	Starting time	Ending time	
1975 Nov.						1975 Dec.					
1	00 00	23 59			23 59	1	00 00	13 45	14 22	23 59	23 22
2	00 00	23 59			23 59	2	00 00	23 59			23 59
3	00 00	23 59			23 59	3	00 00	23 59			23 59
4	00 00	23 59			23 59	4	00 00	06 25	14 12	23 59	16 12
5	00 00	23 59			23 59	5	00 00	23 59			23 59
6	00 00	23 59			23 59	6	00 00	10 25	14 07	23 59	20 17
7	00 00	23 59			23 59	7	00 00	23 59			23 59
8	00 00	23 59			23 59	8	00 00	11 54	13 47	23 59	22 06
9	00 00	23 59			23 59	9	00 00	23 59			23 59
10	00 00	23 59			23 59	10	00 00	23 59			23 59
11	00 00	23 59			23 59	11	00 00	23 59			23 59
12	00 00	23 59			23 59	12	00 00	10 03	11 45	23 59	22 17
13	00 00	23 59			23 59	13	00 00	00 02	11 30	23 59	12 31
14	00 00	16 15	17 05	23 59	23 09	14	00 00	23 59			23 59
15	00 00	23 59			23 59	15	00 00	23 59			23 59
16	00 00	23 59			23 59	16	00 00	06 55	09 30	23 59	21 24
17	00 00	23 59			23 59	17	00 00	23 59			23 59
18	00 00	23 59			23 59	18	00 00	06 14	11 05	23 59	19 08
19	00 00	23 59			23 59	19	00 00	10 39	11 21	23 59	23 17
20	00 00	23 59			23 59	20	00 00	05 39	11 16	23 59	18 22
21	00 00	23 59			23 59	21	00 00	09 09	10 31	23 59	22 37
22	00 00	06 17	10 25	23 59	19 51	22	00 00	09 19	10 51	23 59	22 27
23	00 00	23 59			23 59	23	00 00	23 59			23 59
24	00 00	23 59			23 59	24	00 00	06 50	11 25	23 59	19 24
25	00 00	23 59			23 59	25	00 00	10 45	11 25	23 59	23 19
26	00 00	07 10	11 00	23 59	20 09	26	00 00	23 59			23 59
27	00 00	23 59			23 59	27	00 00	15 45	17 20	23 59	22 24
28	00 00	05 55	14 00	23 59	15 54	28	00 00	23 59			23 59
29	00 00	23 59			23 59	29	00 00	16 30	17 40	23 59	22 49
30	00 00	06 35	14 05	23 59	16 29	30	00 00	16 30	17 15	23 59	23 14
31						31	00 00	23 59			23 59

Table 2. The relative field strengths and ranges of radio aurora echoes at Syowa Station (1975).

Syowa Station		RADIO AURORA DATA												F = 50 MHz						INTENSITY (dB)					
		45° EAST MERIDIAN TIME (U. T. + 3 hours)												JANUARY						1975					
Day	00		01		02		03		04		05		06		07		08		09		10		11		
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1														6			N	N	N	N	N	N	N	N	
2													20				N	N	N	N	N	N	N	N	
3																		N	N	N	N	N	N	N	
4							14	10					7	18	22	14	5	N	N	N	N	N	N	N	
5			10	13					6				8			5	N	N	N	N	N	N	N	N	
6			F	F	F	F	F	F	F	F	F	F	F	F	F	F	N	N	N	N	N	N	N	N	
7						16		27	26	29	30	5	5				N	N	N	N	N	N	N	N	
8			F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
9	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
10						10		15									N	N	N	N	N	N	N	N	
11													17				N	N	N	N	N	N	N	N	
12																	N	N	N	N	N	N	N	N	
13	5					6	5			12	18	18			25	23	N	N	N	N	N	N	N	N	
14			11	12	17	8	5	15	15				27				25	N	N	N	N	N	N	N	
15		25	17		30									6		18	N	N	N	N	N	N	N	N	
16		22	21	8	25												N	N	N	N	N	N	N	N	
17	27	9	7			15	9										N	N	N	N	N	N	N	N	
18	20						18		10								N	N	N	N	N	N	N	N	
19	10			10						25	20	15		5	15		N	N	N	N	N	N	N	N	
20											5	5			5	5		N	N	N	N	N	N	N	
21	15																N	N	N	N	N	N	N	N	
22																	N	N	N	N	N	N	N	N	
23																	N	N	N	N	N	N	N	N	
24					7	7				9	9						N	N	N	N	N	N	N	N	
25																	N	N	N	N	N	N	N	N	
26																	N	N	N	N	N	N	N	N	
27																	N	N	N	N	N	N	N	N	
28														10			N	N	N	N	N	N	N	N	
29						4		18						22			N	N	N	N	N	N	N	N	
30							10	13				8	5	19											
31		11						5					11												
Month	15	17	13	11	20	8	10	14	15	16	16	16	14	11	15	13									

RADIO AURORA DATA F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JANUARY 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1															290			N	N	N	N	N	N	N
2													320					N	N	N	N	N	N	N
3																			N	N	N	N	N	N
4							320	280					320	350	350	320	310	N	N	N	N	N	V	N
5			290	280				300					310			300		N	N	N	N	N	N	N
6				F	F	F	F	F	F	F	F	F	F	F	F	F	F	N	N	N	N	N	N	N
7						300		290	280	350	300	320	380					N	N	N	N	N	N	N
8				F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
9	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
10						330		330										N	N	N	N	N	N	N
11													330					N	N	N	N	N	N	N
12																		N	N	N	N	N	N	N
13	310					300	300			320	300	300			350	290		N	N	N	N	N	N	N
14			300	330	300	300	290	570	290					300			320	N	N	N	N	N	N	N
15		310	280		300										310	340		N	N	N	N	N	N	N
16		290	290	320	300													N	N	N	N	N	N	N
17	320	300	300			290	330											N	N	N	N	N	N	N
18	300							340		300								N	N	N	N	N	N	N
19	310			320						340	320	330		290	330			N	N	N	N	N	N	N
20											300	300			290	450			N	N	N	N	N	N
21																			N	N	N	N	N	N
22																			N	N	N	N	N	N
23																			N	N	N	N	N	N
24					330	310				320	400								N	N	N	N	N	N
25																			N	N	N	N	N	N
26																			N	N	N	N	N	N
27																			N	N	N	N	N	N
28															310				N	N	N	N	N	N
29						330		320							310				N	N	N	N	N	N
30							280	310				290	360	320										
31		330						340					320											

RADIO AURORA DATA

F = 50 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JANUARY 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	N	N	N	N	N	N	N	N	N	N	N	N	N	N										
2	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	5			
3	N	N	N	N	N	N	N	N	N	N	N	N									4			
4	N	N	N	N	N	N	N	N	N	N	N	N	10	18			13	18	9					10
5	N	N	N	N	N	N	N	N	N	N	N	N	15	27	18	15	13	13	10		16	20	22	
6	N	N	N	N	N	N	N	N	N	N	N	N			14		5	10	8				17	
7	N	N	N	N	N	N	N	N	N	N	N	N												
8	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
9	F	F	F	F	F	F	F	F	F	F	F	F												
10	N	N	N	N	N	N	N	N	N	N	N	N												
11	N	N	N	N	N	N	N	N	N	N	N	N				F								
12	N	N	N	N	N	N	N	N	N	N	N	N												
13	N	N	N	N	N	N	N	N	N	N	N	N				3		26		10	7	10		
14	N	N	N	N	N	N	N	N	N	N	N	N	23	22	15	15					30	22	25	
15	N	N	N	N	N	N	N	N	N	N	N	N					12	14	7			10	11	
16	N	N	N	N	N	N	N	N	N	N	N	13	20	25	15	20	20	10	13			23	8	6
17	N	N	N	N	N	N	N	N	N	N	N	N						18						14
18	N	N	N	N	N	N	N	N	N	N	N	F	F											15
19	N	N	N	N	N	N	N	N	N	N	N	N								7				
20	N	N	N	N	N	N	N	N	N	N	N	N										17		
21	N	N	N	N	N	N	N	N	N	N	N	N	N						9	5				
22	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
23	N	N	N	N	N	N	N	N	N	N	N	N				10								
24	N	N	N	N	N	N	N	N	N	N	N	N												
25	N	N	N	N	N	N	N	N	N	N	N	N						7						
26	N	N	N	N	N	N	N	N	N	N	N	N												
27	N	N	N	N	N	N	N	N	N	N	N	N			15			11		13	30	25	30	
28	N	N	N	N	N	N	N	N	N	N	N	N												
29	N	N	N	N	N	N	N	N	N	N	N	N	N	N								5		
30	N	N	N	N	N	N	N	N	N	N	N	N												
31	N	N	N	N	N	N	N	N	N	N	N	N				13	14	F	F	F	F	F	F	F
Mean													18	19	13	14	14	10	9	14	18	20	13	

RADIO AURORA DATA F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JANUARY 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	N	N	N	N	N	N	N	N	N	N	N	N	N	N										
2	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	310		
3	N	N	N	N	N	N	N	N	N	N	N	N										320		
4	N	N	N	N	N	N	N	N	N	N	N	N	270	290			330	320	330					300 330
5	N	N	N	N	N	N	N	N	N	N	N	N		330	340	320	320	300	330	300		280	290	290
6	N	N	N	N	N	N	N	N	N	N	N	N				330		310	310	350			320	
7	N	N	N	N	N	N	N	N	N	N	N	N												
8	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
9	F	F	F	F	F	F	F	F	F	F	F	F												
10	N	N	N	N	N	N	N	N	N	N	N	N												
11	N	N	N	N	N	N	N	N	N	N	N	N				F								
12	N	N	N	N	N	N	N	N	N	N	N	N												
13	N	N	N	N	N	N	N	N	N	N	N	N				330		310		300	300	330		
14	N	N	N	N	N	N	N	N	N	N	N	N		350	310	300	330				280	330	320	
15	N	N	N	N	N	N	N	N	N	N	N	N					330	320	320			300		310
16	N	N	N	N	N	N	N	N	N	N	N	330	330	310	330	330	340	320	320			320	320	390
17	N	N	N	N	N	N	N	N	N	N	N							320						350
18	N	N	N	N	N	N	N	N	N	N	N	F	F											300
19	N	N	N	N	N	N	N	N	N	N	N	N							310					
20	N	N	N	N	N	N	N	N	N	N	N	N									340			
21	N	N	N	N	N	N	N	N	N	N	N	N							330	320				
22	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
23	N	N	N	N	N	N	N	N	N	N	N	N				320								
24	N	N	N	N	N	N	N	N	N	N	N	N												
25	N	N	N	N	N	N	N	N	N	N	N	N					330							
26	N	N	N	N	N	N	N	N	N	N	N	N												
27	N	N	N	N	N	N	N	N	N	N	N	N			330			330		320	350	330	310	
28	N	N	N	N	N	N	N	N	N	N	N	N												
29	N	N	N	N	N	N	N	N	N	N	N	N	N	N							300			
30	N	N	N	N	N	N	N	N	N	N	N	N												
31	N	N	N	N	N	N	N	N	N	N	N	N				320	360	F	F	F	F	F	F	F

RADIO AURORA DATA

F = 50 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

FEBRUARY 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11						
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30					
1	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F					
2	5				15		5					5	10	16			N	N	N	N	N	N	N	N					
3								12							23		N	N	N	N	N	N	N	N					
4								10									N	N	N	N	N	N	N	N					
5						17	7	17	10		17	7			19		N	N	N	N	N	N	N	N					
6		5						5				7	17			19	N	N	N	N	N	N	N	N					
7			10	15				4					17			5	N	N	N	N	N	N	N	N					
8				5									15	25	24	21	3	N	N	N	N	N	N	N					
9							15				20	12	16	9	15	19		N	N	N	N	N	N	N					
10						10	25			8	9	7	22		23	N	N	N	N	N	N	N	N	N					
11	21					12	5	5	12	7	22	23	9	15	9		22		27	27	12	N	N	N	N	N	N	N	
12	12		15	25	10	9				4	11		10	11	26	28		21			N	N	N	N	N	N	N	N	
13	37	6	9	19			13	20	11	10	25	15	23	13		10					N	N	N	N	N	N	N	N	
14			9			21		23	17	10	25	21	27	25	19	28	12	N	N	N	N	N	N	N	N	N	N	N	
15	32	20	10	8		9			5			10					8	N	N	N	N	N	N	N	N	N	N	N	
16				32		20	10	8	15	10	5							N	N	N	N	N	N	N	N	N	N	N	
17	8		31	10	20	17								11	12	15	27			N	N	N	N	N	N	N	N	N	
18					28			11	9	22	29	20	19	15	20	23	10	23	5		N	N	N	N	N	N	N	N	N
19	10		21	26				17										20			N	N	N	N	N	N	N	N	N
20				5		10				11											N	N	N	N	N	N	N	N	N
21						24		4			5	13	22		10	12	22			N	N	N	N	N	N	N	N	N	N
22									5		18	17	18							N	N	N	N	N	N	N	N	N	N
23					5						30	9								N	N	N	N	N	N	N	N	N	N
24			11				8	15	14	12	10	22	20	10						N	N	N	N	N	N	N	N	N	N
25	15	19	5								20					25				N	N	N	N	N	N	N	N	N	N
26	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	N	N	N	N	N	N	N	N	N	N
27																				N	N	N	N	N	N	N	N	N	N
28	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
29																													
30																													
31																													
Mean	14	13	13	15	14	15	14	13	10	14	16	14	17	17	20	21	15												

RADIO AURORA DATA F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

FEBRUARY 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
2	340				320		300					290 370	290	300				N	N	N	N	N	N	N
3								230							300			N	N	N	N	N	N	N
4								310										N	N	N	N	N	N	N
5					290	290	290 400		300 380					400				N	N	N	N	N	N	N
6		290						330				330	320			330		N	N	N	N	N	N	N
7			310	300				290					330			290		N	N	N	N	N	N	N
8				290									330	330	350	300	300	N	N	N	N	N	N	N
9								330			300	310	300	310	300	300		N	N	N	N	N	N	N
10					320	300			350	310	350	310		290	N	N	N	N	N	N	N	N	N	N
11	290 400		280	280	290	310 460	290	290	330	330	290		310		340	320	400	N	N	N	N	N	N	N
12	330		320	300	290	300			320	300		290	310	320	320		300	N	N	N	N	N	N	N
13	270	300	310 370			310	320	320	330	310	310	300	300		280			N	N	N	N	N	N	N
14			350			300		310	300	290	350	310	320	300	310	300	310	N	N	N	N	N	N	N
15	300	300	330	370		280			290			300					380	N	N	N	N	N	N	N
16				280		290	300	300	310	300	300							N	N	N	N	N	N	N
17	310		300	370	280	290								320	320	320	320		N	N	N	N	N	N
18					300			330	320	360	300	290	300	290	400	300	350	320 410	N	N	N	N	N	N
19	390		300	300				290										330	N	N	N	N	N	N
20				300		300				310									N	N	N	N	N	N
21					290		290				310	370	330			350	280	350	N	N	N	N	N	N
22								300			350	300	300						N	N	N	N	N	N
23					300							320	300						N	N	N	N	N	N
24			310				280	290	290	350	290	300	290	300					N	N	N	N	N	N
25	310	320	380								350					310			N	N	N	N	N	N
26	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	N	N	N	N	N	N
27																			N	N	N	N	N	N
28	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
29																								
30																								
31																								

RADIO AURORA DATA F = 50 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

FEBRUARY 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23		
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1	F	F	F	F	F	F	F	F	F	F	F	F	5	15	10	7	17	11			5				
2	N	N	N	N	N	N	N	N	N	N	N	N	4							8				5	
3	N	N	N	N	N	N	N	N	N	N	N	N							5						
4	N	N	N	N	N	N	N	N	N	N	N	N	F	F	F	F	F	F	F	F	F	F			
5	N	N	N	N	N	N	N	N	N	N	N	N				15	20	10	13	5					
6	N	N	N	N	N	N	N	N	N	N	N	N													
7	N	N	N	N	N	N	N	N	N	N	N	N				15	17	26	13	3	17	13	7		
8	N	N	N	N	N	N	N	N	N	N	N	N													
9	N	N	N	N	N	N	N	N	N	N	N	N													
10	N	N	N	N	N	N	N	N	N	N	N	N	22	5	12	17	15	19							
11	N	N	N	N	N	N	N	N	N	N	N	N		25	22	18	17	5	10	5	20				
12	N	N	N	N	N	N	N	N	N	N	N	N				24	17		25	10			5		
13	N	N	N	N	N	N	N	N	N	N	N	N	10		4			18	12	20		10		10	
14	N	N	N	N	N	N	N	N	N	N	N	N			19	15	18	7			10			9	
15	N	N	N	N	N	N	N	N	N	N	N	N	18				18	17			15			18	
16	N	N	N	N	N	N	N	N	N	N	N	N	5	9			12	15	25	8			13	16	5
17	N	N	N	N	N	N	N	N	N	N	N	N						12	15	13	5				
18	N	N	N	N	N	N	N	N	N	N	N	N					5			13					4
19	N	N	N	N	N	N	N	N	N	N	N	N								7	5				
20	N	N	N	N	N	N	N	N	N	N	N	N												5	
21	N	N	N	N	N	N	N	N	N	N	N	N			8				5						
22	N	N	N	N	N	N	N	N	N	N	N	N			4					11	18				
23	N	N	N	N	N	N	N	N	N	N	N	N		26	24	22	13	6							
24	N	N	N	N	N	N	N	N	N	N	N	N		6	6	13	9								
25	N	N	N	N	N	N	N	N	N	N	N	N									F	F	F	F	F
26	N	N	N	N	N	N	N	N	N	N	N	N													
27	N	N	N	N	N	N	N	N	N	N	N	N	F	F	F	F	F	F	F	F	F	F	F	F	F
28	F	F	F	F	F	F	F	F	F	F	F	F													
29																									
30																									
31																									
Mean													11	14	12	16	15	14	12	10	12	12	10	6	

RADIO AURORA DATA F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

FEBRUARY 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23		
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1	F	F	F	F	F	F	F	F	F	F	F	F	F	320	340	310	320	310	280			320			
2	N	N	N	N	N	N	N	N	N	N	N	N	N	310						300				320	
3	N	N	N	N	N	N	N	N	N	N	N	N	N						320						
4	N	N	N	N	N	N	N	N	N	N	N	N	N	F	F	F	F	F	F	F	F	F	F		
5	N	N	N	N	N	N	N	N	N	N	N	N	N				330	330	300	300	290				
6	N	N	N	N	N	N	N	N	N	N	N	N	N												
7	N	N	N	N	N	N	N	N	N	N	N	N	N			320	320	350	380	280	340	350	330		
8	N	N	N	N	N	N	N	N	N	N	N	N	N												
9	N	N	N	N	N	N	N	N	N	N	N	N	N												
10	N	N	N	N	N	N	N	N	N	N	N	N	N	330	320	330	330	300	310						
11	N	N	N	N	N	N	N	N	N	N	N	N	N		330	330	330	330	280	260	310	300	330		
12	N	N	N	N	N	N	N	N	N	N	N	N	N				320	320		300	320			450	
13	N	N	N	N	N	N	N	N	N	N	N	N	N	300		290			300	300	330		300	280	
14	N	N	N	N	N	N	N	N	N	N	N	N	N			320	300	330	320			300		330	
15	N	N	N	N	N	N	N	N	N	N	N	N	N	300				340	320			300		290	
16	N	N	N	N	N	N	N	N	N	N	N	N	N	320	320			290	310	300	420		280	300	320
17	N	N	N	N	N	N	N	N	N	N	N	N	N						330	310	320	310			
18	N	N	N	N	N	N	N	N	N	N	N	N	N					310			330			310	
19	N	N	N	N	N	N	N	N	N	N	N	N	N							320	350				
20	N	N	N	N	N	N	N	N	N	N	N	N	N											350	
21	N	N	N	N	N	N	N	N	N	N	N	N	N			300				300					
22	N	N	N	N	N	N	N	N	N	N	N	N	N			320					360	320			
23	N	N	N	N	N	N	N	N	N	N	N	N	N		320	300	320	320	310						
24	N	N	N	N	N	N	N	N	N	N	N	N	N		340	310	300	330							
25	N	N	N	N	N	N	N	N	N	N	N	N	N								F	F	F	F	F
26	N	N	N	N	N	N	N	N	N	N	N	N	N												
27	N	N	N	N	N	N	N	N	N	N	N	N	N	F	F	F	F	F	F	F	F	F	F	F	
28	F	F	F	F	F	F	F	F	F	F	F	F	F												
29																									
30																									
31																									

RADIO AURORA DATA F = 50 MHz INTENSITY (dB)

Syowa Station 45° EAST MERIDIAN TIME (U. T. + 3 hours) MARCH 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1					18	F	F	F	F			20	3	F	F	F	F	N	N	N	N	N	N	N
2																N	N	N	N	N	N	N	N	N
3	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	N	N	N	N	N	N	N
4	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
5																	N	N	N	N	N	N	N	N
6	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
7	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
8	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
9	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
10	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
11	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
12									F	F	23	10	7	10	22	10		23						
13		24		25	21													N	N	N	N	N	N	N
14				5	F													N	N	N	N	N	N	N
15	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
16	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
17	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
18					32	21	26	21		13	15	18	5	12				N	N	N	N	N	N	N
19		5	18	10						13	18	25	22	18		21	11		N	N	N	N	N	N
20						11	20									23	N	N	N	N	N	N	N	N
21			18				15			7							N	N	N	N	N	N	N	N
22																		N	N	N	N	N	N	N
23							13	29			23	16		12	8	8		5	N	N	N	N	N	N
24								9	F	F	F	F	F	F	F	F	N	N	N	N	N	N	N	N
25	10	12			8										14	7			N	N	N	N	N	N
26	5														17	10	10			N	N	N	N	N
27					5			7		20		5	15	20	20	12			N	N	N	N	N	N
28	17	23			18	15	20	15	15	13							15	18	N	N	N	N	N	N
29				14							5		5	6					N	N	N	N	N	N
30			13		7		17	20	20		20	18	14	8	21				N	N	N	N	N	N
31						10		20	30	19	23	20	25	12	5	25	5		N	N	N	N	N	N
Mean	11	16	16	14	16	14	19	17	17	17	19	16	11	14	13	15								

RADIO AURORA DATA F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

MARCH

1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1					310	F	F	F	F			300	280	F	F	F	F	N	N	N	N	N	N	N
2															N	N	N	N	N	N	N	N	N	N
3	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	N	N	N	N	N	N	N
4	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
5																	N	N	N	N	N	N	N	N
6	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
7	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
8	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
9	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
10	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
11	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
12								F	F	290	290	320	290	310	300		340							
13		300		290	300												N	N	N	N	N	N	N	N
14				290	F												N	N	N	N	N	N	N	N
15	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
16	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
17	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
18				300	300	300	300		300	370	310	310	350				N	N	N	N	N	N	N	N
19		300	310	300					330	320	300	350	330		350	350		N	N	N	N	N	N	N
20					320	330								350	N	N	N	N	N	N	N	N	N	N
21			310			330		300							N	N	N	N	N	N	N	N	N	N
22																	N	N	N	N	N	N	N	N
23						320	320			330	310		300	300	400		300	N	N	N	N	N	N	N
24							330	F	F	F	F	F	F	F	N		N	N	N	N	N	N	N	N
25	300	300			340								290	310			N	N	N	N	N	N	N	N
26	290												300	310	400			N	N	N	N	N	N	N
27					390			350		300		300	350	300	330	350		N	N	N	N	N	N	N
28	300	300			330	300	310	330	330	360						300	310	N	N	N	N	N	N	N
29				290							310		330	330				N	N	N	N	N	N	N
30			330		320		320	300	300		300	300	280	330	300			N	N	N	N	N	N	N
31					300		300	300	280	300	300	300	300	280	320	310	N	N	N	N	N	N	N	N

RADIO AURORA DATA

F = 50 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

MARCH

1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	N	N	N	N	N	N	N	N	N	N	N	N				7	18	18	10	16				28
2	N	N	N	N	N	N	N	N	N	N	N					F	F	F	F	F	F	F	F	F
3	N	N	N	N	N	N	N	N	N	N	N										F	F	F	F
4	F	F	F	F	F	F	F	F	F	F	F													
5	N	N	N	N	N	N	N	N	N	N	N	F	F	F	F	F	F	F	F	F	F	F	F	F
6	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
7	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
8	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
9	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
10	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
11	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F			5	5	F		12
12		N	N	N	N	N	N	N	N	N	N	N	F		23	18	5		10			5	11	5
13	N	N	N	N	N	N	N	N	N	N	N	N	N	N	20	20				10				
14	N	N	N	N	N	N	N	N	N	N	N	N	F	F	F	F	F	F	F	F	F	F	F	F
15	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
16	F	F	F	F	F	F	F	F	F	F	F			22	20	15				F	F	F	F	F
17	F	F	F	F	F	F	F	F	F	F	F													
18	N	N	N	N	N	N	N	N	N	N	N				24	28	19	12	22	17	11			
19	N	N	N	N	N	N	N	N	N	N	N									12	13			10
20	N	N	N	N	N	N	N	N	N	N				10	10		15	15	8		19	9		
21	N	N	N	N	N	N	N	N	N	N	N													
22	N	N	N	N	N	N	N	N	N	N	N													
23	N	N	N	N	N	N	N	N	N	N	N													5 5
24	N	N	N	N	N	N	N	N	N	N	N	22	17	5			13	15		-6				
25	N	N	N	N	N	N	N	N	N	N	N							5						6
26	N	N	N	N	N	N	N	N	N	N	N								8	10				
27	N	N	N	N	N	N	N	N	N	N	N	20	13									7		27
28	N	N	N	N	N	N	N	N	N	N	N		13	7	10									15
29	N	N	N	N	N	N	N	N	N	N	N			5		20				11	8			
30	N	N	N	N	N	N	N	N	N	N	N													
31	N	N	N	N	N	N	N	N	N	N					5				4					
Mean														13	14	15	16	13	10	9	11	7	13	11

RADIO AURORA DATA

F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

MARCH

1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	N	N	N	N	N	N	N	N	N	N	N	N				300	310	310	290	310				300
2	N	N	N	N	N	N	N	N	N	N	N				F	F	F	F	F	F	F	F	F	F
3	N	N	N	N	N	N	N	N	N	N	N										F	F	F	F
4	F	F	F	F	F	F	F	F	F	F	F													
5	N	N	N	N	N	N	N	N	N	N	N	F	F	F	F	F	F	F	F	F	F	F	F	F
6	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
7	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
8	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
9	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
10	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
11	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		310	310	F	330		
12		N	N	N	N	N	N	N	N	N	N	N	F		330	330	300		320			350	300	350
13	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	310	340		310					
14	N	N	N	N	N	N	N	N	N	N	N	N	F	F	F	F	F	F	F	F	F	F	F	F
15	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
16	F	F	F	F	F	F	F	F	F	F	F				320	310	310			F	F	F	F	F
17	F	F	F	F	F	F	F	F	F	F	F													
18	N	N	N	N	N	N	N	N	N	N	N				330	320	320	300	330	330	290			
19	N	N	N	N	N	N	N	N	N	N	N								320	300			290	
20	N	N	N	N	N	N	N	N	N	N			340	330		310	320	310		300	330			
21	N	N	N	N	N	N	N	N	N	N	N													
22	N	N	N	N	N	N	N	N	N	N	N													
23	N	N	N	N	N	N	N	N	N	N	N												340	300
24	N	N	N	N	N	N	N	N	N	N	N	330	320	330		310	300		300					
25	N	N	N	N	N	N	N	N	N	N	N					340								310
26	N	N	N	N	N	N	N	N	N	N	N							330	300					
27	N	N	N	N	N	N	N	N	N	N	N	310	330								300	270		
28	N	N	N	N	N	N	N	N	N	N	N		320	320	300								330	
29	N	N	N	N	N	N	N	N	N	N	N			310		300		300	300					
30	N	N	N	N	N	N	N	N	N	N	N													
31	N	N	N	N	N	N	N	N	N	N					330			330						

RADIO AURORA DATA

F = 50 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

APRIL

1975

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

RADIO AURORA DATA F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

APRIL

1975

Day	00		01		02		03		04		05		06		07		08		09		10		11		
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1					290		310																		
2			330		350	320	330																		
3										340	310	330													
4					390							320	300	350	300										
5				320			400	300		330	350												F	F	F
6												F	F												
7		320		350					330						340	320									
8		380		300		330			300					300											
9						310	F	310	F	F	300			F	320		320		340	330	330				
10		330			300	310			350	F	F	F	300	290	280	350	350	380							
11			300	300	300	300			300	300	300	300			300	320	300								
12			330	300	310		300	300		310															
13		320	300	300	280	330	300	310	370	310	300				300	330	360	330				330			
14						290		300	330	290	280	290	300	270	290	290	360								
15									350	310															
16							330	300	330	320															
17	F	F																							
18																									
19				300	300		340	300		330	350														
20																									
21	320	310	300	300	300	380							310												
22																		330							
23				310						F	F	F													
24	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
25	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
26	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
27	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
28				300																					
29																									
30																									
31																									

RADIO AURORA DATA F = 50 MHz INTENSITY (dB)

Syowa Station 45° EAST MERIDIAN TIME (U. T. + 3 hours) APRIL 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																								
2																								
3										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
4																								
5																	F							
6									F			F	F		4									
7																						5		3
8															17	12		13				20	6	
9							N	N	N	N	N				F	F			6		7		20	
10																		7				5		
11													5	5		10								
12																	6		7					
13																								
14																								
15																			7					
16																						F	F	F
17																								
18																								
19																								
20							N	N	N	N	N	N	N	N			15					8	17	26
21														13										
22																								
23											F	F	F	F	F	F	F	F	F	F	F	F	F	F
24	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
25	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
26	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
27	F	F	F	F	F	F	F	F	F	F	F	F												
28																								
29																								
30																								
31																								
Mean														9		10		7				10		

RADIO AURORA DATA F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

APRIL 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23		
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1																									
2																									
3											F	F	F	F	F	F	F	F	F	F	F	F	F	F	
4																									
5																	F								
6								F			F	F			330										
7																							350	350	
8															320	320		370					300	300	
9							N	N	N	N	N				F	F			300		340			290	
10																	330						370		
11														300	300		330								
12																	310		300						
13																									
14																									
15																		320							
16																							F	F	F
17																									
18																									
19																									
20							N	N	N	N	N	N	N	N	N		330						320	300	300
21															330										
22																									
23												F	F	F	F	F	F	F	F	F	F	F	F	F	F
24	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
25	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
26	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
27	F	F	F	F	F	F	F	F	F	F	F	F	F												
28																									
29																									
30																									
31																									

RADIO AURORA DATA

F = 50 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

MAY 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																								
2					13		19		14	20	18				22	18		30						
3				22 15	22		15	22	22	15	28	25	26	29	30	37	30	22	27					
4				21	28	25	24							N	N	N	N	N	N	N	N	N	N	N
5	13	45	30	35	17			25	35	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
6			25	21		19	25	40	31	27		21 15	38	30	38	25	25							
7	30					20		18		15			20											
8			10	22	23	20					18		23											
9	28	21	15	20	11			27	22	25	19	22	28	20										
10		13				27	29			15	23	23	28	39	35		22	28						
11			23																					
12																								
13																								
14					23	F	23	23	27	F	25		35	27	28	F	30	F	25					
15										F	F	F	F	F	F	F	F	F				F	F	F
16																						28		
17				22	29	16	27			19					25	33	20							
18						12		20	25				12											
19				F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
20	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
21	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
22	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
23		14																						
24																								
25																								
26	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
27																							5	
28							15						20	22										
29								28		23	12	20												
30				15		13			23															
31																								
Mean	24	23	21	23	20	21	17	28	25	20	22	21	25	28	30	28	25	27						

RADIO AURORA DATA

F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

MAY 1975

Day	00		01		02		03		04		●5		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																								
2					350		300		330	300	300					320	330		310					
3				310 550	330		300	320	320	300	320	310	310	300	300	300	290	300	330					
4				300	300	300	350							N	N	N	N	N	N	N	N	N	N	N
5	310	290	300	290	290			340	310	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
6			300	300		320	340	280	300	300		300 530	300	310	320	290	300							
7	320					300		300		290			300											
8			350	300	300	300					300		310											
9	300	300	340	380	290			300	300	320	300	300	300	300										
10		300				300	300			310	320	340	300	300	300		300	300						
11			300																					
12																								
13																								
14					300	F	300	320	310	F	300		300	310	310	F	300	F	300					
15										F	F	F	F	F	F	F	F	F				F	F	F
16																						320		
17				500	320	290	300			310					330	320	300							
18						310		300	300				300											
19					F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
20	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
21	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
22	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
23		320																						
24																								
25																								
26	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
27																							290	
28						300							330	300										
29								300		300	300	300												
30					340		330			300														
31																								

RADIO AURORA DATA F = 50 MHz INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

MAY 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23		
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1																			13	21	6	15			
2											22		10	19	20	22	22	22	20			13		25	
3												10	15	20								11			
4	N	N	N	N	N	N	N	N	N	N	N									12	15				
5	F	F	F	F	F									15			12	19	20					15	
6											10					20	15		21	17				25	
7												15	27	25	20	22	20								
8																				22			15	27	
9													19					15		25		12			
10																						20		15	
11																									
12																									
13																								20	
14																						16	10	F	
15																									
16																	17	23	23					20	
17										12															
18																									
19	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
20	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
21	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
22	F	F	F	F	F	F																			
23																									
24																									
25																					F	F	F	F	F
26	F																								
27																					10	12	15	19	
28																									
29																	22	25	21	20				15	
30																									
31																									
Mean										19			18	18		21	18	21	20	19	12	14	18	20	

RADIO AURORA DATA

F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

MAY 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																		340	350	330	350			
2										320		350	330	330	330	350	330	300			330		330	
3									300	300	340										300			
4	N	N	N	N	N	N	N	N	N	N	N								310	310				
5	F	F	F	F	F								300				340	330	300				310	
6											300				300	340		310	300				300	
7										300	340	340	330	330	330									
8																			350			300	300	
9												350					300		320		300			
10																					330		330	
11																								
12																								
13																							300	
14																				300	300	F		
15																								
16																330	330	300					330	
17									300															
18																								
19	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
20	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
21	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
22	F	F	F	F	F	F																		
23																								
24																								
25																				F	F	F	F	
26	F																							
27																				310	300	310	300	
28																								
29																340	330	330	330				300	
30																								
31																								

RADIO AURORA DATA F = 50 MHz INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JUNE 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	19	11						20	24															
2	19		•29		•23	25	15	27	•31		19	•25	31	30	28	22	32	•29	•19					22
3		20						12		17														
4			15							18		23												
5				F					20	9		12												
6	•20			25						25														
7																								
8																								
9													22	22										
10									15															
11		10	18	21	22		20	22	22	16														11
12		15	12							25		19	•24	23										
13			17	•29	25		28																	
14	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
15										18	25													
16	20	15		•26						17		10	12			18	•18	22						
17	18																							
18				25	32	26	20								25	12		10						
19							15		22	10										N	N	N	N	N
20			13		10						18													
21	10	18										23	20	18										
22					0	20	•27			23	25													
23	11	12		17																				
24			F	15						11		19												
25																								
26				20	18	25				29	25	27	27	20	28	25								
27	8	8	10																					
28																								
29							15	25					25											
30	•27	12					15	23	28	35	18	24	35	•21	34	28		•27	•20	•16				
31																								
Mean	17	13	16	22	15	24	19	21	22	20	21	20	25	22	27	21		22						

RADIO AURORA DATA F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JUNE 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	340	330						300	300															
2	310		290		300	310	300	310	280		310	300	330	340	300	300	290	290	290				310	
3		300						300		300														
4			340							300		300												
5				F					300	300		300												
6	300			300						300														
7																								
8																								
9													300	290										
10									330															
11		290	320	310	340		330	300	300	300														320
12		330	330							320		300	300	290										
13			290	310	320		330																	
14	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
15										300	300													
16	320	320		310						300		310	300			320	300	300						
17	300																							
18				320	310	300	350								300	330		280						
19							330		300	340											N	N	N	N
20			300		630						320													
21	320	350										310	300	300										
22					330	310	310			320	320													
23	300	340		340																				
24			F	300					340		310													
25																								
26				330	310	300					300	300	330	350	320	320	310							
27	310	330	310																					
28																								
29							340	330					310											
30	300	300					370	300	300	290	300	300	320	360	300	300		300	300	300				
31																								

RADIO AURORA DATA

F = 50 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JUNE 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1												N	N						17	27	25	12	18	
2															17	22	13						16	
3																					15	12		
4																								
5																				15	18			
6																								
7																								
8																								
9																								
10																								
11																						12		12
12		12								23						12	27	25	25	22	27		12	15
13			F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
14	F	F	F	F	F																			
15															19	17	14	14		20	11			15
16																	20		15	18				
17																						15		
18																				14				
19	N	N	N	N	N	N	N	N	N	N	N									12	19			
20																						12	20	19
21																	F	18	18					14
22																								
23																								
24																								
25																						15	15	8
26																								12
27																								
28																								
29															15	18	18		10		16	10	20	30
30																			22		25	24	25	12
31																								
Mean															17	17	18	20	18	18	19	15	17	16

RADIO AURORA DATA F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JUNE 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1											N	N						350	310	320	300	300		
2															350	310	310					300		
3																					350	340		
4																								
5																				310	310			
6																								
7																								
8																								
9																								
10																								
11																					320		310	
12		300								350					300	350	300	300	300	300	300		300	310
13				F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
14	F	F	F	F	F																			
15														300	300	300	300		330	320			300	
16																	320		300	340				
17																						330		
18																				310				
19	N	N	N	N	N	N	N	N	N	N	N									310	310			
20																						330	340	350
21																	F	310	310					300
22																								
23																								
24																								
25																						350	340	300
26																								340
27																								
28																								
29															300	300	320		320		320	300	300	300
30																			310		330	310	300	300
31																								

RADIO AURORA DATA

F = 50 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JULY 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1		25	15	26	13	31	21	27	22		12	16		27										
2					30 17	25	31	18					25	18										
3								F	F	F														
4		21	17							25	22													
5	34	25	18																					
6		14																						
7		14				15	33	28 12	28	13														
8	10		22	17	29	15	22	18	23	32	25	27	33	43	37	25	22	28	20	21	32	18	20	18
9						15			23	12		17	22			23	33	15						15
10									12							23	27							
11	10				23			27	17		20									18				
12																								
13	11										22													
14			25	27	30		20	17		12	24													
15		32		F			15 15	13	17	15	20													
16							20			25	17													
17	12	21										8												
18				18	17											17	20							
19				22	20	18		25	25						17									
20	18	10		12	22			28	27	19			25											
21			12		15				25	17														
22		22	17	22	30	10		21 18																
23				10					19	14		23		29										
24					17	11	27	20																
25	13												11	27	25	25	22	35	17	20	23	27	33	
26	14 13			30					19	25	25			28	18									
27					23	10				25	23	24			10									
28				30	20 15	21	20	18	23															
29	23	15							15	11														
30				11	12		11	13			11	18	22	18	8		10 10							
31								20	6	15														
Mean	16	20	18	22	22	19	18	21	22	20	18	20	21	24	28	17	22	23	23	19				22

RADIO AURORA DATA F = 50 MHz RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JULY 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1		300	550	300	300	300	300	300	310		300	300		320										
2					300	400	280	290	300					310	310									
3								F	F	F														
4		350	340								320	320												
5	290	300	300																					
6		330																						
7		330					300	300	300	470	290	300												
8	300		300	300	290	300	300	300	300	310	310	310	300	280	310	300	300	300	350	300	300	310	300	300
9							300				300	350		310	330		310	340	310					310
10											320						300	310						
11	300					310				330	300		310								300			
12																								
13	320												320											
14			310	300	300		300	310		310	320													
15		320		F				290	420	300	350	300	300											
16								300				320	300											
17	300	320												300										
18					350	300												350	320					
19					320	330	300		300	290							300							
20	300	300		300	350			300	340	370				310										
21			340		300				300	320														
22		310	280	300	310	370		280	320															
23					300						330	290		310		310								
24						290	350	280	300															
25	320													320	330	310	380	380	300	300	320	300	320	300
26	320	500			300					300	300	290				310	310							
27						320	300					310	360	300			310							
28					310	310	310	300	300	300														
29	300	300									320	300												
30					310	300		300	340			390	350	300	340	300		290	310					
31									330	300	300													

RADIO AURORA DATA F = 50 MHz INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JULY 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1									N	N														
2																						12		
3																								
4																								30
5																								
6																								
7											N	N			18	23	21	22	28	23	27	17	21	
8							25				15	23	24	7	17	20			16	16				
9	18		25				18				12	15			17		12	14	15	11			15	
10											12	7			18	15	22	20			12	17		
11																12	12							
12																							11	18
13																							12	
14																								
15					10	12										22	21	24	24					
16																				16			12	
17											9							23						
18															17	12	23		12			15	16	
19																		10	18	10	22	22	19	
20																								
21																							13	
22																								
23																								
24																								
25										12	29	28	19	27	23	21			13	15			14	
26																								
27																	8	10	11					
28																						13		15
29																						24		
30																								
31																								
Mean											16	16				18	17	18	16	17	15	19	15	21

RADIO AURORA DATA F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JULY 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1									N	N														
2																					310			
3																								
4																								290
5																								
6																								
7											N	N			340	310	300	300	310	300	300	300	300	290
8							300			300	320	320	300	320	320			300	300					
9	310		310				300			300	340				330		310	300	300	310			280	
10											350	300			350	310	330	340		310	340			
11															310	310								
12																							310	320
13																							310	
14																								
15					300	300									350	310	320	320						
16																			350			340		
17											340						310							
18															320	320	310		330		300	300		
19																		310	310	320	320	310	300	
20																								
21																							300	
22																								
23																								
24																								
25										310	320	310	310	320	310	310			310	300			310	
26																								
27																320	300	300						
28																						310		290
29																					390			
30																								
31																								

RADIO AURORA DATA

F = 50 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

AUGUST 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11		
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1			33			10						20	26	27	18	32	30								
2																									
3	12	14																							
4	20	18	13						15	23	28	25													
5							28	15		25	17			23	19		26								
6	19	15		11					17		15														
7																									
8						F	F	15				20	27	F	26	35	29	30	25	22	F	34	16		
9			F	F	F	F					F	F													
10		18	11	25	25	F	12		29					18	25	20	20					27	30	F	
11																									
12						F																			
13	6	15																							
14					20					15	6	27	20	18	12	29	27	17				20	16		
15	5	17						19					17	25											
16																							N	N	N
17											21	23	10	22	12	20	22								
18	12	20	13	18							5			8											
19			F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
20	15	12		10																					
21	F	5	12	27	23	F	20	11				12		20		15	18	27							
22	25	15	F						F	15	F	F			30	26	20	15							
23					25	18	20	21	24																
24							F	F		9															
25	F	F	25	20	17		7						25	10											
26				18	18	23		10	9	15															
27						25	18	21	16	10	25	27	32	22	33	F									
28										15	27														
29	12	23	28	22	20	16	20		26	33	25	28	16	13		17	20	35	30	35	32	22			
30					32	15	10	19	19	13						28									
31								16					16	10	10										
Mean	13	18	18	17	23	19	16	17	18	19	17	22	20	18	22	25	24	26	23				25		

RADIO AURORA DATA

F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

AUGUST 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11		
	00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1			310			300						360	310	350	300	330	310								
2																									
3	310	320																							
4	330	330	350						280	350	310	300													
5						320	320		310	300			310	320		300									
6	380	310		310					310		300														
7																									
8					F	F	310				310	310	F	300	290	290	330	300	300	F	310	310			
9			F	F	F	F					F	F													
10		310	320	300	320	F	360		300					300	310	340	310					320	300	F	
11																									
12					F																				
13	350	300																							
14				340					320	300	310	300	300	350	310	310	300				320	360			
15	300	310					300						310	320											
16																							N	N	N
17											330	300	300	300	300	310	300								
18	300	350	300	360							300			320											
19			F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
20	300	300		320																					
21	F	350	300	300	390	F	360	300			350		310		320	350	290								
22		300	300	F						F	350	F	F			300	310	310	290						
23				300	300	290	300	300																	
24						F	F		330																
25	F	F	300	300	350		280						300	300											
26				300	310	300		300	300	340															
27					300	300	300	300	300	310	310	310	300	320	F										
28									330	330															
29	310	310	300	300	350	300	330		300	300	310	300	310	320		330	300	300	320	310	320	300			
30					300	300	300	300	300	300						300									
31								300				330	320	330											

RADIO AURORA DATA

F = 50 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

AUGUST 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23		
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1																								7	
2																									
3																				10		20	13	19	
4																				10	20	14	18	15	
5											11	11	17	18	19	21	22	17	20	15	25	20	15		
6																									
7																			18	21	22	25	23		
8																			F	F					
9											N					15	25	10							
10																22									
11																								F	
12																									
13																									
14																								-5	
15								18	21				10	17	10		20	18				22			
16	N	N	N	N	N	N	N	N	N	N															
17																						15	17		
18																					10	15			
19	F	F	F	F	F	F	F	F	F										18	15	16	20	15		
20											15	13	F	19								10	10	15	
21																15	20	F	17	14					
22																									
23																									
24																					F			10	
25																									
26																						13	10		
27																									
28																					10	15	16	16	
29									10						11	18	25	24	19						
30																									
31																					12	10			
Mean												18				18	22	20	16	15	17	16	12		

RADIO AURORA DATA F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

AUGUST 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23			
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30		
1																								320		
2																										
3																				310		310	300	300		
4																				340	320	340	320	320		
5												310	300	300	350	350	320	330	310	300	300	310	300	300		
6																										
7																				340	320	340	310	310		
8																				F	F					
9											N						350		300 490							
10																	320									
11																								F		
12																										
13																										
14																									300	
15								290	300					300	320	310			310	310			310			
16	N	N	N	N	N	N	N	N	N	N																
17																							320	310		
18																					300	300				
19	F	F	F	F	F	F	F	F	F												320	320	320	320	310	
20												300	330	F	300									340	300	300
21																	330	320	F	310	310					
22																										
23																										
24																						F			340	
25																										
26																							330	350		
27																										
28																							310	310	320	320
29										300						300	310	310	310	310						
30																										
31																							310	310		

RADIO AURORA DATA F = 50 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

SEPTEMBER 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	15																15	20						
2	17	15	15	10	F	26	F	16	23	18	7	20												
3	20	7	10						F	18	9	13												
4									10	10														
5				5																				
6					F	F	23	21		10		22	18		F	22								
7			13	17			18	16		20		12												
8	13						12	18	12			23	25											
9	12			17		23	28	23				12	F		17		10							
10	9		25	15	23		12		25	30	27	39	37	27	28	27	15		20	28				
11		28		17			20	18		10				15	17	25								
12			15								23		23	22	20	25	22	25	20					
13			17	10							22	22	20	12										
14			18	20						20	25	F	27	21	29	22								
15														11										
16		10							14	22	20													
17		12		13				17									26	30						
18	21	27		22			25		23	20	15	18	21	10										
19					15	18	16							20										
20							18			15														
21							9			7			15											
22												20												
23							19	10	27	23	14	15	10											
24																								
25																								
26					20	21							18		35	27								
27	23	20		15	15		20	10		13	20	22	12	10	12	24	27	20						
28							17	20	23			22	15		15									
29							18																	
30		8			10		15																	
Mean	16	16	16	15	18	19	19	16	19	17	18	20	20	16	22	25	19	24						

RADIO AURORA DATA F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

SEPTEMBER 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	300																360	320						
2	310	300	300	300	F	300	F	320	390	350	320	300												
3	300	300	300						F	310	310	310												
4									290	330														
5				320																				
6					F	F	300	300		300		310	330		F	310								
7			300	300			310	330		330		320												
8	350						300	300	300			310	310											
9	320			300		310	300	300				340	F		320		320							
10	300		320	300	340		310		300	300	300	290	300	280	300	320	290		310	320				
11		300		300			300	300		320				310	300	320								
12			300								370		300	300	300	300	300	310	300					
13			300	300							310	300	300	300										
14			320	310						300	300	F	300	300	300	300								
15														300										
16		300							300	300	300													
17		320		310			300										310	300						
18	300	310		320			310		300	370	310	300	310	300										
19				300	300	300							300											
20							330			340														
21							300			300			350											
22												300												
23							300	300	300	300	300	300	330											
24																								
25																								
26						320	310						310		310	320								
27	310	310		320	300		300	300		350	340	300	340	300	300	310	310	300						
28							300	290	310			300	300		300									
29							340																	
30		320				330		350																
31																								

RADIO AURORA DATA

F = 50 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

SEPTEMBER 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																	10	23	16	16	16	17	15	18
2																		F	F	15	12	F	18	20
3																								
4																								
5																						F	F	F
6									N	9	15	10	20	24	18	15								
7																								10
8																						F	F	
9										10	15	18	21	17		12	13	15		17	13	18		
10										7	11	10	12	23	15	10	10		18		15			
11															20		10	17	22	15	15			18
12										12														
13																								
14																								
15																				12		17		
16																								
17																		10	20	25				16
18													7					17	27					
19																								
20																		12						
21												N	N							12	12	13		
22																								
23																								
24																								
25																								
26											F	13	20	17	22	21	17	16	10					
27												10	12	21	22	21	22	27	25	18				
28																								
29																								13
30																								
31																								
Mean											12	14	15	16	20	17	14	17	20	17	14	16	15	16

RADIO AURORA DATA F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

SEPTEMBER 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																	350	340	330	310	300	300	310	310
2																		F	F	320	320	F	320	300
3																								
4																								
5																						F	F	F
6									N	340	320	350	350	330	330	310								
7																								320
8																						F	F	
9									300	340	320	310	300		300	310	300		300	300	310			
10									300	330	330	330	310	300	300	350		340		320				
11													320		340	310	330	300	300					310
12									310															
13																								
14																								
15																			320		330			
16																								
17																	330	310	300					340
18													330				330	310						
19																								
20																310								
21											N	N							330	330	310			
22																								
23																								
24																								
25																								
26										F	340	350	330	330	310	310	310	300						
27												330	320	300	330	330	330	320	340	320				
28																								
29																								310
30																								
31																								

RADIO AURORA DATA

F = 50 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

OCTOBER 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1			13		10					15		25	20	18										
2	12		•22		7				15	21														
3									17															
4	18	28	10		12	•25	22	18	•25	20	18	18	12											
5			10		15	•21							•20	25										
6				15					16			28	24	30	12	25	10	22	14					
7	21		10	25	24		25			25	23	29			8	33	25							
8			15		18	18	25	18	15	24	22	21		F	18	25	18	20						
9	17	30	F	17	F	F	17			•15			17	F	17	F	F	25	F	32	F	30		
10				22	17	13	20		20		17	18	18		24	10	25	35	20	F				
11		•28	30		28		16	24	27	25	13													
12	11	25			28	16	14		20			22	19											
13			•12	10				16	15	18		10				28								
14					•10																			
15			31	11																				
16				10		9	18	18				27	25											
17				10	23	10		22	•22	15			15											
18																								
19	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
20		24	25		12				15	18		29	18											
21				12		12	24	25		30	13	25	15	27	20	18								
22									10	18														
23			21		13			25					20	•17	•13									
24				18		23	21	20				17	12											
25								9	17															
26					10			15	25															
27											22		•17	27	23	25	21	17						
28							22	20	10	10	18	23	19	20										
29	•18	•10	25	16	19	15					12	18	20	25	13			28	22	10			25	
30				•31	•25	15	27	15				•20	20											
31		25					10	18	23	22	30	28	29	27	29	38	24						27	37
Mean	16	30	19	16	19	14	20	19	18	19	20	22	21	21	19	21	25	22	17				27	

RADIO AURORA DATA F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

OCTOBER 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1			310		290 340						320		380	350	300									
2	330		320			300				350	300													
3									300															
4	330	320	300			300	300	300	310	310	300	300	300	300										
5				300		300	290							300	300									
6					300					350			330	310	310	300	310	300	360	340				
7	370		300	330	350			320			300	300	300			300	310	330						
8			300		300 330	290		350	310	300	300	330		F	330	300	300	300						
9	310	300	F	340	F	F	300			300			300	F	300	F	F	300	F	300	F	320		
10				290	300	300	300		300		300	300	330		300	290	300	300	300	F				
11		300	290		310		300	300	310	300	300													
12	300	300			300	310	300		320			300	300											
13			300	300				300	300	300		300				320								
14					350																			
15			300	300																				
16				300		300	330	310				310	300											
17				320	300	300		330	300	300				330										
18																								
19	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
20		370	340		300				300	300		310	300											
21				300		300	300	310		320	300	310	310	310	300	300								
22									300	350														
23			300		310			310						300	300	340								
24				300		300	300	300					350	320										
25								330	300															
26						320		300	300															
27											300		310	310	310	310	310	310						
28							300	330	300	300	310	310	320	320										
29	310	300	320	310	300	300				290	300	300	310	370			320	300	300			290		
30				310	290	310	300	300				340	310											
31		300					300	320	300	340	310	300	330	310	300	300	310					330	320	

RADIO AURORA DATA F = 50 MHz INTENSITY (dB)

Syowa Station 45° EAST MERIDIAN TIME (U. T. + 3 hours) OCTOBER 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																								
2																								
3																						12	N	32
4																								17
5																								
6											10		27	16	18	18		9					30	25
7									12	13		15	10	18	20	25	25	18	8					
8					16	13	17		F	17		19	F	15		13	F							17
9					18									F		F			F					
10																	22	12						27
11																		8					18	25
12														22	18	19	18	21	18		27	27	18	10
13																								
14										7						10	13	6	10					
15																								
16																		15	18			17		
17													10					13	15	18				
18																	F	F	F	F	F	F	F	F
19	F	F	F	F	F	F	F	F	F	F														
20																								
21																								
22																								
23																								10
24																								
25																								
26															15	23	14							
27																								
28																						14	25	19
29																						13	8	-8
30																							10	
31															18						F		F	15
Mean													17	17	18	18	19	12	13	19	18	18	17	

RADIO AURORA DATA F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

OCTOBER 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																								
2																								
3																					300		N	320
4																								320
5																								
6											300		330	310	320	300		300					300	310
7									320	300			330	330	320	310	320	310	300	300				
8					300	300	330		F	350			330	F	300		310	F						300
9					310									F		F			F					
10																	320	300						300
11																		300					300	300
12													320	310	320	340	310	350			330	320	300	360
13																								
14											310						320	300	300	320				
15																								
16																		320	310		310			
17													310					300	300	300				
18																		F	F	F	F	F	F	F
19	F	F	F	F	F	F	F	F	F	F	F													
20																								
21																								
22																								
23																								330
24																								
25																								
26																340	300	300						
27																								
28																						300	310	300
29																						330	300	300
30																							290	
31																330					F		F	300

RADIO AURORA DATA

F = 50 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

NOVEMBER 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1						20								F	F									
2				35	25	15	F							27	F	F	F	F						
3	12		17	10 10	19	22	18	27				10			20		32	28	25	32	35	10		
4		29	18	23	23				F	23	27	17	35	25	37	23	25		25	21				
5					17	30				25	17													
6						18	11	22	20															
7										19	17			23		21								
8														15										
9													17	19	18									
10		18				27	23			17														
11						28	26	32		18	11													
12				10	19		22	17		23		12												
13														20										
14							16	15																
15																								
16						13	13						17	21	25									
17																								
18	12				15					15														
19															20									
20					F																			
21		20								17	18	18		12	15	22	32	23	30	25				
22														N	N	N	N	N	N	N	N			
23	8	5									9													
24																								
25								5		7					10	15	10							
26															N	N	N	N	N	N	N	N		
27																								
28														N	N	N	N	N	N	N	N	N	N	N
29																						8		
30			12										5		N	N	N	N	N	N	N	N	N	N
31																								
Mean	11	18	16	20	20	22	21	19	14	20	15	15	20	19	21	20	25		27	26				

RADIO AURORA DATA

F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

NOVEMBER 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1					320								F	F										
2			290	300	300	F							310	F	F	F	F							
3	300		330	300	340	290	330	300	300			300			300		300	300	300	300	320	310	300	
4		300	300	350	300				F	310	300	290	300	300	300	300	290		300	300				
5					300	300				290	290													
6						340	290	300	300															
7										320	300			350		350								
8														310										
9														300	300	300								
10		300				300	300			300														
11						300	300	310		300	300													
12				300	290		300	290		300		290												
13															300									
14								300	300															
15																								
16							300	300						300	300	300								
17																								
18	300				300						300													
19																300								
20						F																		
21		300									280	290	300		300	300	300	300	300	300	290			
22															N	N	N	N	N	N	N	N	N	N
23	320	310									300													
24																								
25									300		300					350	300	290						
26																N	N	N	N	N	N	N	N	N
27																								
28															N	N	N	N	N	N	N	N	N	N
29																						300		
30			300											280		N	N	N	N	N	N	N	N	N
31																								

RADIO AURORA DATA F = 50 MHz INTENSITY (dB)

Syowa Station 45° EAST MERIDIAN TIME (U. T. + 3 hours) NOVEMBER 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																								
2								20	20	F	17	21	22	17	19	20	10			30	17	21		
3			15	17	22	25	20		23	23	21	13	22		21					25	15	15		F
4					22	17	20	23	17	20	23	13	15	17	15	15	20			15	8			
5													15	17	17	12	20							23
6								12																
7																17								
8																								
9								13	23	23	21	10							26				18	
10																								
11																	18							
12																								
13																								
14										N	N													
15																								
16																								
17								12		18	17										34	20		
18																								
19																								
20																10	19							
21																								
22				25		25	22	16	12	17	23	21									8		5	
23																								
24												8		5										
25																								
26							13																	
27												10	13											
28	N	N	N	N																				
29							11	20	9		15	15	13			6	13	7						
30	N	N	N	N	N			20	25	13	17	13			10	5								
31																								
Mean							19	18	18	18	19	17	15	16	15	15	13	16			17	19	16	

RADIO AURORA DATA F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

NOVEMBER 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																								
2								310	300	F	300	320	310	300	300	300	300				290	310	310	
3			300	300	300	300	300		300	300	300	300	320		300					290	300	340		F
4					300	300	300	300	300	300	300	300	300	300	300	300	300				300	300		
5														350	330	320	300	300						300
6								320																
7																	320							
8																								
9									300	300	320	320	300						300					300
10																								
11																		320						
12																								
13																								
14										N	N													
15																								
16																								
17									310		300	300										300	320	
18																								
19																								
20																	300	300						
21																								
22					290		290	290	300	300	300	340	330									310		290
23																								
24														300		310								
25																								
26								290																
27														300	330									
28	N	N	N	N																				
29									300	310	310		300	300	320			310	300	310				
30	N	N	N	N	N				300	330	310	310	310		300		310							
31																								

RADIO AURORA DATA F = 50 MHz INTENSITY (dB)

Syowa Station 45° EAST MERIDIAN TIME (U. T. + 3 hours) DECEMBER 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1						14														F				
2		5		5		5						10												
3										10														
4					15									N	N	N	N	N	N	N	N	N	N	N
5																								
6												5	5									N	N	N
7						5																		
8			8												23	24	14							
9					10					13			5											
10																								
11																								
12																						N	N	N
13	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
14													5											
15		15																						
16	5								20	7		5		10	N	N	N	N						
17													5	7										
18										12		7	N	N	N	N	N	N	N	N	N	N	N	N
19													10	10										N
20													N	N	N	N	N	N	N	N	N	N	N	N
21																				N	N			
22									5											N	N	N		
23													5											
24												5	10		N	N	N	N	N	N	N	N	N	N
25			15	3		12								21	28	19	28	7	23				N	
26			10			28					10	5	10				18	10						
27																	25					22	*	30
28						5																		
29															15					23				
30																								
31														15										
Mean				13		9	15					10	8	7	9	14	19	22						

RADIO AURORA DATA F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

DECEMBER 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1						300																		
2		310		310		300						350												
3									300															
4				290										N	N	N	N	N	N	N	N	N	N	N
5																								
6													300	300								N	N	N
7							310																	
8			320												390	300	300							
9					290				330				320											
10																								
11																								
12																						N	N	N
13		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
14													310											
15		300																						
16	330								310	320		300		310	N	N	N	N						
17													300	300										
18										310		310	N	N	N	N	N	N	N	N	N	N	N	N
19													300	300									N	
20														N	N	N	N	N	N	N	N	N	N	N
21																				N	N			
22									330												N	N	N	
23													320											
24												310	300		N	N	N	N	N	N	N	N	N	N
25				300	290		300							300	300	300	300	300	330				N	
26				310			260				300	410	300			350	320							
27																	310					300	310	310
28							300																	
29															310				300					
30																								
31													300											

RADIO AURORA DATA

F = 50 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

DECEMBER 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1					N			F	23	23	F	19	22	13			10	5						7
2									18			20	7		5									
3												18	11											
4	N	N	N	N	N					15	13	22	9	5	5									
5																								
6	N	N	N	N	N												6	7	12	5	12			
7																								
8	N	N	N	N												10	10							
9									22	F		7												
10										18	20		5											
11																								
12																								
13																								
14																								
15																								
16																	5							
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25												5	11	10	10	7								
26									11	18	18	26	25	20		8								
27										N	N	N	15	10		12	7							10
28																	3							
29												N	N											
30												N												
31																								
Mean									20	19	16	17	12	9		9	8	5						

RADIO AURORA DATA

F = 50 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

DECEMBER 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1					N			F	300	300	F	300	300	290			300	310						300
2									300			310	300		300									
3												300	310											
4	N	N	N	N	N				300	300	300	300	300	300										
5																								
6	N	N	N	N	N												320	320	330	300	300			
7																								
8	N	N	N	N												300	300							
9									300	F		300												
10									300	330		310												
11																								
12																								
13																								
14																								
15																								
16																	310							
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25											330	320	320	320		300								
26								300	300	300	320	290	320			310								
27								N	N	N	290	320			300	300								280
28																	310							
29											N	N												
30											N													
31																								

RADIO AURORA DATA F = 112 MHz INTENSITY (dB)

Syowa Station 45° EAST MERIDIAN TIME (U. T. + 3 hours) JANUARY 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1															-2			N	N	N	N	N	N	N
2													3					N	N	N	N	N	N	N
3																			N	N	N	N	N	N
4								-5	-7				0	0	5	5	-4	N	N	N	N	N	N	N
5			11	-3					-7			0	0			4		N	N	N	N	N	N	N
6				F	F	F	F	F	F	F	F	F	F	F	F	F	F	N	N	N	N	N	N	N
7							5	-3	13	14	14	13		5				N	N	N	N	N	N	N
8				F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
9	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
10							0		-2									N	N	N	N	N	N	N
11													11					N	N	N	N	N	N	N
12																		N	N	N	N	N	N	N
13	-7					-7	-2			-6	10	10			10	9		N	N	N	N	N	N	N
14			3	5	-4	-5		-4					5					N	N	N	N	N	N	N
15		14	-1		23									-1		-2		N	N	N	N	N	N	N
16		-3	5		15													N	N	N	N	N	N	N
17	15	-4	14			5	-6											N	N	N	N	N	N	N
18	8	-2	-5					8		-7			-5	4				N	N	N	N	N	N	N
19				0					6	10	15	0		0	8			N	N	N	N	N	N	N
20												-5	-6		0	-6			N	N	N	N	N	N
21	12	-2																	N	N	N	N	N	N
22			3	-2															N	N	N	N	N	N
23		15	-4	2	5		-6	-5								-5			N	N	N	N	N	N
24					-6	-4	-5			-2		-2		4	2				N	N	N	N	N	N
25	-7	-7				-7				0			7						N	N	N	N	N	N
26									8										N	N	N	N	N	N
27																			N	N	N	N	N	N
28										5	-2	-5	-2	10	-7				N	N	N	N	N	N
29						-6		9						5					N	N	N	N	N	N
30							-6					-7	4											
31													-5	-6	-6									
Mean	4	2	3	-1	7	-4	-3	0	2	2	4	1	1	2	2	2								

RADIO AURORA DATA F = 112 MHz RANGE (km)
 Syowa Station 45° EAST MERIDIAN TIME (U. T. + 3 hours) JANUARY 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1														280			N	N	N	N	N	N	N	N
2													320				N	N	N	N	N	N	N	N
3																	N	N	N	N	N	N	N	N
4							290	280					310	330	330	320	330	N	N	N	N	N	N	N
5			290	280				290			300	310			320		N	N	N	N	N	N	N	N
6			F	F	F	F	F	F	F	F	F	F	F	F	F	F	N	N	N	N	N	N	N	N
7							300	310	300	300	370	360		320			N	N	N	N	N	N	N	N
8				F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
9	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
10							320		330								N	N	N	N	N	N	N	N
11													320				N	N	N	N	N	N	N	N
12																	N	N	N	N	N	N	N	N
13	310					350	330			320	310	310			330	300	N	N	N	N	N	N	N	N
14			290	350	310	300		310					310				N	N	N	N	N	N	N	N
15		300	290		320									300		320	N	N	N	N	N	N	N	N
16		300	290		350											N	N	N	N	N	N	N	N	N
17	300	300	340			300	330										N	N	N	N	N	N	N	N
18	300	300	320					330		320				300	290		N	N	N	N	N	N	N	N
19				310						350	330	320	320		300	330	N	N	N	N	N	N	N	N
20												310	300			350 500		N	N	N	N	N	N	N
21	320	290															N	N	N	N	N	N	N	N
22			330	330													N	N	N	N	N	N	N	N
23		310	320	300	320		300	300								330	N	N	N	N	N	N	N	N
24					350	320	310			310		300		330	310		N	N	N	N	N	N	N	N
25	290	320				320					350			320			N	N	N	N	N	N	N	N
26									350								N	N	N	N	N	N	N	N
27																	N	N	N	N	N	N	N	N
28										300	320	310	320	320	290		N	N	N	N	N	N	N	N
29						320		310						310			N	N	N	N	N	N	N	N
30							310				300	330												
31				290								330	340	330			340							

RADIO AURORA DATA F = 112 MHz INTENSITY (dB)
 Syowa Station 45° EAST MERIDIAN TIME (U. T. + 3 hours) JANUARY 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	N	N	N	N	N	N	N	N	N	N	N	N	N											
2	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-8		
3	N	N	N	N	N	N	N	N	N	N	N	N					-7					-7		
4	N	N	N	N	N	N	N	N	N	N	N	N		-3	0		-5	2	-5					
5	N	N	N	N	N	N	N	N	N	N	N	N		0	14	2	0	-3	-3	-3		5	-5	15
6	N	N	N	N	N	N	N	N	N	N	N	N				-2			-2	-3				
7	N	N	N	N	N	N	N	N	N	N	N	N												
8	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
9	F	F	F	F	F	F	F	F	F	F	F	F												
10	N	N	N	N	N	N	N	N	N	N	N	N												
11	N	N	N	N	N	N	N	N	N	N	N	N				F								
12	N	N	N	N	N	N	N	N	N	N	N	N												
13	N	N	N	N	N	N	N	N	N	N	N	N				-5		20		-5	-5	0		
14	N	N	N	N	N	N	N	N	N	N	N	N		16	14	10	-4				20	12	15	0
15	N	N	N	N	N	N	N	N	N	N	N	N					5	8	-5			-6		0
16	N	N	N	N	N	N	N	N	N	N	N	N		0	13	18	-3	1	12	0	-8		-8	2
17	N	N	N	N	N	N	N	N	N	N	N	N						5	-4					-5
18	N	N	N	N	N	N	N	N	N	N	N	N		4	-5									5
19	N	N	N	N	N	N	N	N	N	N	N	N								-2				
20	N	N	N	N	N	N	N	N	N	N	N	N							5		-2	5	-6	-5
21	N	N	N	N	N	N	N	N	N	N	N	N							0	-7	4			
22	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
23	N	N	N	N	N	N	N	N	N	N	N	N			-3	-5	-2	-5						
24	N	N	N	N	N	N	N	N	N	N	N	N					-5	-5	-4					
25	N	N	N	N	N	N	N	N	N	N	N	N					1							
26	N	N	N	N	N	N	N	N	N	N	N	N												
27	N	N	N	N	N	N	N	N	N	N	N	N			-3	12			-8	-3	13	12	5	15
28	N	N	N	N	N	N	N	N	N	N	N	N												
29	N	N	N	N	N	N	N	N	N	N	N	N	N	N										
30	N	N	N	N	N	N	N	N	N	N	N	N												
31	N	N	N	N	N	N	N	N	N	N	N	N				-5	-5	F	F	F	F	F	F	F
Mean														8	3	1	-1	2	-3	-1	2	2	4	2

RADIO AURORA DATA F = 112 MHz RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JANUARY 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23		
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1	N	N	N	N	N	N	N	N	N	N	N	N	N												
2	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	320			
3	N	N	N	N	N	N	N	N	N	N	N	N					320					320			
4	N	N	N	N	N	N	N	N	N	N	N	N		300	290		320	320	310						
5	N	N	N	N	N	N	N	N	N	N	N	N		330	340	310	320	310	310	290		290	290	280	
6	N	N	N	N	N	N	N	N	N	N	N	N				320			310	330					
7	N	N	N	N	N	N	N	N	N	N	N	N													
8	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
9	F	F	F	F	F	F	F	F	F	F	F	F													
10	N	N	N	N	N	N	N	N	N	N	N	N													
11	N	N	N	N	N	N	N	N	N	N	N	N				F									
12	N	N	N	N	N	N	N	N	N	N	N	N													
13	N	N	N	N	N	N	N	N	N	N	N	N				330		310		300	310	300			
14	N	N	N	N	N	N	N	N	N	N	N	N		330	350	330	330				290	340	300	310	
15	N	N	N	N	N	N	N	N	N	N	N	N					310	330	310			300		300	
16	N	N	N	N	N	N	N	N	N	N	N		330	310	320	330	310	320	320	330		330	320		
17	N	N	N	N	N	N	N	N	N	N	N								310	300					360
18	N	N	N	N	N	N	N	N	N	N	N		300	300											310
19	N	N	N	N	N	N	N	N	N	N	N	N							320						
20	N	N	N	N	N	N	N	N	N	N	N	N							350		340	310	320	300	
21	N	N	N	N	N	N	N	N	N	N	N	N	N						330	310	340				
22	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
23	N	N	N	N	N	N	N	N	N	N	N	N			320	310	320	320							
24	N	N	N	N	N	N	N	N	N	N	N	N					320	330	320						
25	N	N	N	N	N	N	N	N	N	N	N	N						350							
26	N	N	N	N	N	N	N	N	N	N	N	N													
27	N	N	N	N	N	N	N	N	N	N	N	N			320	320		300	300	340	340	300	310		
28	N	N	N	N	N	N	N	N	N	N	N	N													
29	N	N	N	N	N	N	N	N	N	N	N	N	N	N											
30	N	N	N	N	N	N	N	N	N	N	N	N													
31	N	N	N	N	N	N	N	N	N	N	N	N				330	330	F	F	F	F	F	F	F	F

RADIO AURORA DATA F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

FEBRUARY 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
2	-6				-4	-5	-5	-6				-6	3	-5			N	N	N	N	N	N	N	N
3								-5							10		N	N	N	N	N	N	N	N
4								-6				-5					N	N	N	N	N	N	N	N
5		-5			-7	-7	-5	5		-2				0			N	N	N	N	N	N	N	N
6								-7				-7	-5			5	N	N	N	N	N	N	N	N
7			-5	-4									5			-5	N	N	N	N	N	N	N	N
8												-2	11	8	10	-5	N	N	N	N	N	N	N	N
9								-2			11	-2	3	-6	0	0	N	N	N	N	N	N	N	N
10					-7	0			-3	-6	-1	10			0	N	N	N	N	N	N	N	N	N
11	0		0		-5	4	0	-6	-3	-4		7			0	7	-5	N	N	N	N	N	N	N
12	-5		8	0	-4				-3	0			-4	12	13		2	N	N	N	N	N	N	N
13	9	-4			-5	5	-3		12	1	7	-4			-6			N	N	N	N	N	N	N
14					4		14	1	-3	8	10	11	9	5	19	-5		N	N	N	N	N	N	N
15	14	-6			-4		-7				-5					-5		N	N	N	N	N	N	N
16				20		3	-6				-6					-4		N	N	N	N	N	N	N
17			8	-5	5	3							-6	-5	-5	13		N	N	N	N	N	N	N
18					10			-5	0	-1	10	7	0	-5	3	0	10	N	N	N	N	N	N	N
19			-5	0				-2									4	N	N	N	N	N	N	N
20				-5				-6		-3								N	N	N	N	N	N	N
21		-4				-5	-6						6			-4	8	N	N	N	N	N	N	N
22								-5			5	2	2					N	N	N	N	N	N	N
23											16	-5						N	N	N	N	N	N	N
24			-5				-5	-1	-5	-4		7	10	5				N	N	N	N	N	N	N
25	-5	4	-3								1				10			N	N	N	N	N	N	N
26	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	N	N	N	N	N	N	N
27																		N	N	N	N	N	N	N
28	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
29																								
30																								
31																								
Mean	1	-3	-1	1	0	-3	-2	-2	-3	-1	4	0	2	2	3	4	1							

RADIO AURORA DATA

F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

FEBRUARY 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
2	320				300 370	310	290	300				330	310	300				N	N	N	N	N	N	N
3								310							300			N	N	N	N	N	N	N
4								310				330						N	N	N	N	N	N	N
5		320			300	300	290	300		300				310				N	N	N	N	N	N	N
6								330				320	320			320		N	N	N	N	N	N	N
7			290	300									320			300		N	N	N	N	N	N	N
8													330	320	300	300	300	N	N	N	N	N	N	N
9								330			300	310	300	300	300	300		N	N	N	N	N	N	N
10						310	300			330	310	300	320		340	N	N	N	N	N	N	N	N	N
11	320		290			320	370	300	320	310	340		320		330	310	400	N	N	N	N	N	N	N
12	350		310	300	290				290	340			310	320	320		300	N	N	N	N	N	N	N
13	290	320				290	320	320		310	310	300	310		290			N	N	N	N	N	N	N
14						300		300	320	290	380	300	320	330	320	300	300	N	N	N	N	N	N	N
15	300	340				300		330				300					380	N	N	N	N	N	N	N
16				300		330	300					300				300		N	N	N	N	N	N	N
17			300	350	290	340								340	320	310	330	N	N	N	N	N	N	N
18					310			330	310	350	300	300	310	290 420	320	340	320	N	N	N	N	N	N	N
19			300	300 380				300									330	N	N	N	N	N	N	N
20				320				300		350								N	N	N	N	N	N	N
21		320				300	300							320		290	320	N	N	N	N	N	N	N
22								330				310	300	300				N	N	N	N	N	N	N
23												320	300					N	N	N	N	N	N	N
24			300				320	290	290	310		310	300	300				N	N	N	N	N	N	N
25	310	310	380									290				320		N	N	N	N	N	N	N
26	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	N	N	N	N	N	N	N
27																		N	N	N	N	N	N	N
28	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
29																								
30																								
31																								

RADIO AURORA DATA F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

FEBRUARY 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23		
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1	F	F	F	F	F	F	F	F	F	F	F	F		0	-5	-5	0	-7				-6		-7	
2	N	N	N	N	N	N	N	N	N	N	N	N		-7				-6			-6			-5	
3	N	N	N	N	N	N	N	N	N	N	N	N								-5					
4	N	N	N	N	N	N	N	N	N	N	N	N	F	F	F	F	F	F	F	F	F	F	F		
5	N	N	N	N	N	N	N	N	N	N	N	N				-3	13	0	-2						
6	N	N	N	N	N	N	N	N	N	N	N	N													
7	N	N	N	N	N	N	N	N	N	N	N	N				3	1	14	-2	-1	0	-4	-5		
8	N	N	N	N	N	N	N	N	N	N	N	N													
9	N	N	N	N	N	N	N	N	N	N	N	N													
10	N	N	N	N	N	N	N	N	N	N	N	N		4		-4	-3	-4	2						
11	N	N	N	N	N	N	N	N	N	N	N	N			5	5	0	0	-4			0			
12	N	N	N	N	N	N	N	N	N	N	N	N			-5		5	0						6	-3
13	N	N	N	N	N	N	N	N	N	N	N	N		-2		-5			12	-2	5		-5		
14	N	N	N	N	N	N	N	N	N	N	N	N				1	0	-1	-4			0			
15	N	N	N	N	N	N	N	N	N	N	N	N		2				-4	0			-4		2	
16	N	N	N	N	N	N	N	N	N	N	N	N		-4	-6	-3			5				-2	-2	
17	N	N	N	N	N	N	N	N	N	N	N	N							-3	-1	-4				
18	N	N	N	N	N	N	N	N	N	N	N	N									-3				
19	N	N	N	N	N	N	N	N	N	N	N	N													
20	N	N	N	N	N	N	N	N	N	N	N	N													
21	N	N	N	N	N	N	N	N	N	N	N	N													
22	N	N	N	N	N	N	N	N	N	N	N	N									-4	0			
23	N	N	N	N	N	N	N	N	N	N	N	N			10	5	5	-3	-5						
24	N	N	N	N	N	N	N	N	N	N	N	N					-4	-5							
25	N	N	N	N	N	N	N	N	N	N	N	N									F	F	F	F	F
26	N	N	N	N	N	N	N	N	N	N	N	N													
27	N	N	N	N	N	N	N	N	N	N	N	N	F	F	F	F	F	F	F	F	F	F	F	F	F
28	F	F	F	F	F	F	F	F	F	F	F	F						-6							
29																									
30																									
31																									
Mean															-1	1	-1	0	-1	0	-2	-2	-2	-4	-1

RADIO AURORA DATA F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

FEBRUARY 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	F	F	F	F	F	F	F	F	F	F	F			320	310	320	310	330				320		320
2	N	N	N	N	N	N	N	N	N	N	N	N	330					320		320				300
3	N	N	N	N	N	N	N	N	N	N	N	N							310					
4	N	N	N	N	N	N	N	N	N	N	N	N	F	F	F	F	F	F	F	F	F	F	F	F
5	N	N	N	N	N	N	N	N	N	N	N	N				330	320	300	310					
6	N	N	N	N	N	N	N	N	N	N	N	N												
7	N	N	N	N	N	N	N	N	N	N	N	N				320	330	330	340	330	330	320	320	
8	N	N	N	N	N	N	N	N	N	N	N	N												
9	N	N	N	N	N	N	N	N	N	N	N	N												
10	N	N	N	N	N	N	N	N	N	N	N	N	330		330	330	300	320						
11	N	N	N	N	N	N	N	N	N	N	N	N		310	300	320	320	310			350			
12	N	N	N	N	N	N	N	N	N	N	N	N		320		320	310							410 290
13	N	N	N	N	N	N	N	N	N	N	N	N	320		300			300	290	330		300		
14	N	N	N	N	N	N	N	N	N	N	N	N			320	300	320	320			340			
15	N	N	N	N	N	N	N	N	N	N	N	N	330				330	310			300		290	
16	N	N	N	N	N	N	N	N	N	N	N	N	330	320	320			300				300	300	
17	N	N	N	N	N	N	N	N	N	N	N	N						320	310	310				
18	N	N	N	N	N	N	N	N	N	N	N	N								330				
19	N	N	N	N	N	N	N	N	N	N	N	N												
20	N	N	N	N	N	N	N	N	N	N	N	N												
21	N	N	N	N	N	N	N	N	N	N	N	N												
22	N	N	N	N	N	N	N	N	N	N	N	N								360	330			
23	N	N	N	N	N	N	N	N	N	N	N	N		320	320	320	330	300						
24	N	N	N	N	N	N	N	N	N	N	N	N				310	330							
25	N	N	N	N	N	N	N	N	N	N	N	N								F	F	F	F	F
26	N	N	N	N	N	N	N	N	N	N	N	N												
27	N	N	N	N	N	N	N	N	N	N	N	N	F	F	F	F	F	F	F	F	F	F	F	F
28	F	F	F	F	F	F	F	F	F	F	F	F					310							
29																								
30																								
31																								

RADIO AURORA DATA F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

MARCH

1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1					8	F	F	F	F			-2		F	F	F	F	N	N	N	N	N	N	N
2															N	N	N	N	N	N	N	N	N	N
3	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	N	N	N	N	N	N	N
4	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
5																	N	N	N	N	N	N	N	N
6	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
7	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
8	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
9	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
10	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
11	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
12								F	F	15	-5	-4	-3	8	-4		7							
13		10		11	10												N	N	N	N	N	N	N	N
14				-5	F												N	N	N	N	N	N	N	N
15	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
16	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
17	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
18				10	9	13	8		-5		5						N	N	N	N	N	N	N	N
19			8	-5					-2	3	12	0	0		0		N	N	N	N	N	N	N	N
20		-5			-5	0								5	N	N	N	N	N	N	N	N	N	N
21		-5				0									N	N	N	N	N	N	N	N	N	N
22																	N	N	N	N	N	N	N	N
23							9	22			8	-3		-3		-5	N	N	N	N	N	N	N	N
24							-5	-6	F	F	F	F	F	F	F	N	N	N	N	N	N	N	N	N
25		-5												-7	-7		N	N	N	N	N	N	N	N
26			-6											-2			N	N	N	N	N	N	N	N
27						-3			-5		4		-6	0	2	0	-5			N	N	N	N	N
28		5			10	0	5	2	-2	-5						-3	5	N	N	N	N	N	N	N
29				0						-5					-5			N	N	N	N	N	N	N
30			-2				0	2	2		0	-3	-5	0				N	N	N	N	N	N	N
31						-6		-2	10	-4	17	-1	8		-5	-5	0	N	N	N	N	N	N	N
Mean		0	0	0	7	-1	3	3	2	-2	10	-2	0	-3	0	-4								

RADIO AURORA DATA F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

MARCH

1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1					330	F	F	F	F			300		F	F	F	F	N	N	N	N	N	N	N
2															N	N	N	N	N	N	N	N	N	N
3	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	N	N	N	N	N	N	N
4	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
5																	N	N	N	N	N	N	N	N
6	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
7	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
8	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
9	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
10	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
11	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
12								F	F	290	290	330	330	310	300		330							
13		310		300	300												N	N	N	N	N	N	N	N
14				290	F												N	N	N	N	N	N	N	N
15	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
16	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
17	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
18				300	300	300	300		300		310						N	N	N	N	N	N	N	N
19			300	360					330	320	320	320	330		340		N	N	N	N	N	N	N	N
20		310				310	320								320	N	N	N	N	N	N	N	N	N
21		300					320									N	N	N	N	N	N	N	N	N
22																	N	N	N	N	N	N	N	N
23						320	320				330	300		310			300	N	N	N	N	N	N	N
24						310	310	F	F	F	F	F	F	F	F	N	N	N	N	N	N	N	N	N
25		330												290	300			N	N	N	N	N	N	N
26			310											330				N	N	N	N	N	N	N
27					380			350		330		300	370	300	300	330	420		N	N	N	N	N	N
28		300			300	310	330	330	330	340						300	320	N	N	N	N	N	N	N
29				330						330				320				N	N	N	N	N	N	N
30			320				310	300	300		300	300	280	300				N	N	N	N	N	N	N
31						300		300	300	300	300	300	300	300		300	330	330	N	N	N	N	N	N

RADIO AURORA DATA F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

MARCH

1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	N	N	N	N	N	N	N	N	N	N	N	N					0	0	-5	-1				13
2	N	N	N	N	N	N	N	N	N	N	N					F	F	F	F	F	F	F	F	F
3	N	N	N	N	N	N	N	N	N	N	N										F	F	F	F
4	F	F	F	F	F	F	F	F	F	F	F													
5	N	N	N	N	N	N	N	N	N	N	N	F	F	F	F	F	F	F	F	F	F	F	F	F
6	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
7	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
8	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
9	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
10	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
11	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F					F		
12		N	N	N	N	N	N	N	N	N	N	N	F		7	4			0					0
13	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-1	5				-3				
14	N	N	N	N	N	N	N	N	N	N	N	F	F	F	F	F	F	F	F	F	F	F	F	F
15	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
16	F	F	F	F	F	F	F	F	F	F	F			2	0	-1				F	F	F	F	F
17	F	F	F	F	F	F	F	F	F	F	F													
18	N	N	N	N	N	N	N	N	N	N	N			5	10	-1	-2	3	0					
19	N	N	N	N	N	N	N	N	N	N	N								-5	-5				
20	N	N	N	N	N	N	N	N	N	N				-4	-3	-2				2	-5			
21	N	N	N	N	N	N	N	N	N	N	N													
22	N	N	N	N	N	N	N	N	N	N	N													
23	N	N	N	N	N	N	N	N	N	N	N													-6
24	N	N	N	N	N	N	N	N	N	N	N	3	-2			-3	-2							
25	N	N	N	N	N	N	N	N	N	N	N													
26	N	N	N	N	N	N	N	N	N	N	N													
27	N	N	N	N	N	N	N	N	N	N	N	-4										-5	19	
28	N	N	N	N	N	N	N	N	N	N	N		-6		-5									-5
29	N	N	N	N	N	N	N	N	N	N	N					-1								
30	N	N	N	N	N	N	N	N	N	N	N													
31	N	N	N	N	N	N	N	N	N	N														
Mean														-3	3	2	-1	-2	-1	-2				3

RADIO AURORA DATA F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

MARCH

1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	N	N	N	N	N	N	N	N	N	N	N	N					300	310	290	310				300
2	N	N	N	N	N	N	N	N	N	N	N					F	F	F	F	F	F	F	F	F
3	N	N	N	N	N	N	N	N	N	N	N										F	F	F	F
4	F	F	F	F	F	F	F	F	F	F	F													
5	N	N	N	N	N	N	N	N	N	N	N	N	F	F	F	F	F	F	F	F	F	F	F	F
6	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
7	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
8	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
9	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
10	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
11	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F				F			
12		N	N	N	N	N	N	N	N	N	N	N	F		320	310			300					350
13	N	N	N	N	N	N	N	N	N	N	N	N	N	N	300	320			300					
14	N	N	N	N	N	N	N	N	N	N	N	N	F	F	F	F	F	F	F	F	F	F	F	F
15	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
16	F	F	F	F	F	F	F	F	F	F	F			320	320	320				F	F	F	F	F
17	F	F	F	F	F	F	F	F	F	F	F													
18	N	N	N	N	N	N	N	N	N	N	N			330	320	320	300	330	330					
19	N	N	N	N	N	N	N	N	N	N	N								320	300				
20	N	N	N	N	N	N	N	N	N	N				330		310	320			300	310			
21	N	N	N	N	N	N	N	N	N	N														
22	N	N	N	N	N	N	N	N	N	N														
23	N	N	N	N	N	N	N	N	N	N														320
24	N	N	N	N	N	N	N	N	N	N	N	320	320			310	330							
25	N	N	N	N	N	N	N	N	N	N														
26	N	N	N	N	N	N	N	N	N	N														
27	N	N	N	N	N	N	N	N	N	N	N	300	340								300	300		
28	N	N	N	N	N	N	N	N	N	N	N		300		300									330
29	N	N	N	N	N	N	N	N	N	N						300								
30	N	N	N	N	N	N	N	N	N	N														
31	N	N	N	N	N	N	N	N	N															

RADIO AURORA DATA F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

APRIL

1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1					-6		-5	-6																
2				5		-7																		
3				-6							-2	-3												
4											-1	-5	-5											
5				-6			-1		2	-4												F	F	F
6											F	F												
7	-2		-5					-3							-2	-5								
8	5		F	F				F	-6					-5										
9						-1	F	0	F	F	20				F	F		F		F	F	F		
10	5				-5				3	F	F	F	8	14	15	4	7	3						
11			F	F	F	F				F	F	F	F	F		F	F	F						
12			-2	2		-3	-4		F															
13	-2		4	3	-4	11	1	2	5	6						9	-6	5					0	
14	F						F		F	F	F	F	F	F	F	F	F	F						
15	-6								F	F														
16							-5		0	-2														
17	F	F																						
18																								
19			-6	5	-2		-5		-5	-5	-5													
20																								
21	F	F	-6	0										-3										
22																								-5
23									F	F	F													
24	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
25	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
26	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
27	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
28						-5																		
29																								
30																								
31																								
Mean		0	-3	-1	-1	-1	-3	-3	-2	0	-3	5		-1		6								

RADIO AURORA DATA F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

APRIL

1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1						300		320	300															
2					300		330																	
3				320								310	330											
4													320	300	300									
5					320			300		330	340													F F F
6												F F												
7		300		350					330						330	330								
8		330		F		F			F	310				300										
9							310	F	340	F	F	300			F	F		F		F	F	F		
10		330				310				360	F	F	F	300	300	300	380	350	380					
11			F	F	F	F				F	F	F	F	F		F	F	F						
12				330	310		330	330		F														
13		310 390	320	300	290	310	300	320	330	350						330	310	320					340	
14	F						F		F	F	F	F	F	F	F	F	F	F						
15		320								F	F													
16								380		320	320													
17	F	F																						
18																								
19			330	310	320		360		380	330	330													
20																								
21	F	F	300	300									320											
22																							330	
23										F	F	F												
24	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
25	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
26	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
27	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
28						300																		
29																								
30																								
31																								

RADIO AURORA DATA F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

APRIL

1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																								
2																								
3										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
4																								
5																F								
6								F			F	F												
7																						F		
8															-1	-5						-3		
9							V	N	N	N	N				-2	F	F				-5		-5	
10																	F					F		
11																-5								
12																					F			
13																								
14															F									
15																					F			
16																						F	F	F
17																								
18																								
19																								
20							N	N	N	N	N	N	N	N	N		-2					-2	F	F
21																-2								
22																								
23											F	F	F	F	F	F	F	F	F	F	F	F	F	F
24	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
25	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
26	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
27	F	F	F	F	F	F	F	F	F	F	F	F												
28																								
29																								
30																								
31																								
Mean																								

RADIO AURORA DATA F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

APRIL

1975

Day	12		13		14		15		16		17		18		19		20		21		22		23		
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1																									
2																									
3											F	F	F	F	F	F	F	F	F	F	F	F	F	F	
4																									
5																	F								
6									F			F	F												
7																						F			
8															320	310						340			
9							N	N	N	N	N			320	F	F					340		330		
10																	F					F			
11																340									
12																			F						
13																									
14															F										
15																			F						
16																						F	F	F	
17																									
18																									
19																									
20							N	N	N	N	N	N	N	N	N		330					340	F	F	
21															330										
22																									
23												F	F	F	F	F	F	F	F	F	F	F	F	F	
24	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
25	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
26	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
27	F	F	F	F	F	F	F	F	F	F	F	F													
28																									
29																									
30																									
31																									

RADIO AURORA DATA F = 112 MHz INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

MAY 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																								
2				0					-2	-7					-5									
3				-5	-5							1	10	0	7	5	8	0						
4														N	N	N	N	N	N	N	N	N	N	N
5		20	7	0	-6								F	F	F	F	F	F	F	F	F	F	F	F
6			0																					
7		8																						
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
21	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
22	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
23																								
24																								
25																								
26	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
27																								
28																								
29																								
30																								
31																								
Mean																								

RADIO AURORA DATA F = 112 MHz RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

MAY 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																								
2				320					320	320				320			330							
3			330	310			320			320	310	320	300	300	310	290	310							
4				300								N	N	N	N	N	N	N	N	N	N	N	N	N
5		330	300	300	300			300	320	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
6			300				320	300	300	300		340	310	320	300	310			360					
7	320						330																	
8			300	300	310					310		310												
9		300		300			320				310	310	310											
10					300	330				320	330	300	300	350		320	300							
11		360																						
12																								
13																								
14					320	330	330	320	310	F		310	310	300	300	310	320	300						
15									F	F	F	F	F	F	F	F	F					F	F	F
16																					400			
17			370	320	300	300								320	320									
18																								
19				F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
20	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
21	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
22	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
23																								
24																								
25																								
26	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
27																						300		
28												330	300											
29								F		F	F	F												
30				330		320																		
31																								

RADIO AURORA DATA F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

MAY 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23		
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1																				-4	-7				
2															-4									9	
3																									
4	N	N	N	N	N	N	N	N	N	N	N														
5	F	F	F	F	F													-5	-5						
6																									
7											0	-1	-7	-5											
8																							-5	10	
9																				3					
10																									
11																									
12																									
13																								-3	
14																						8	F		
15																									
16																		-2	-5						
17																									
18																									
19	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
20	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
21	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
22	F	F	F	F	F	F																			
23																									
24																									
25																				F	F	F	F	F	
26	F																								
27																								-7	
28																									
29																		-5	-6		-5			-6	
30																									
31																									
Mean																								-4	
																									-2
																									2

RADIO AURORA DATA F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

MAY 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																				330	330			
2															320									320
3																								
4	N	N	N	N	N	N	N	N	N	N														
5	F	F	F	F	F												300	300						
6																								
7											330	330	320	320										
8																							300	330
9																			330					
10																								
11																								
12																								
13																								330
14																					300	F		
15																								
16																	310	300						
17																								
18																								
19	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
20	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
21	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
22	F	F	F	F	F	F																		
23																								
24																								
25																				F	F	F	F	F
26	F																							
27																								310
28																								
29																330	330		330				310	
30																								
31																								

RADIO AURORA DATA F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JUNE 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	-6							-5	0															
2	-3		6		-5	-1	-4	7	8		15	5	4	10		12	6	-5						
3		5						-5		-5														
4										-5	0													
5									-5	-6														
6	1			-5						2														
7																								
8																								
9														-4	-4									
10									-1															
11			-3	1			10	-3	-6															
12		-6	-6										-3	2										
13			2	3	5			15																
14	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
15											-5													
16	-5			8						-5								-5						
17	5																							
18				1	2	5	-5									-6								
19									-3												N	N	N	N
20																								
21		-5										-5		-5										
22					-5	2	-1			0	-5													
23				-6																				
24			F	-6																				
25																								
26						-5				0	5	4		-2	12	-6								
27																								
28																								
29									8					0										
30	7							3	-2	12	-5		10	-5	10	0							-1	
Mean	0	-2	1	-1	0	0	3	1	-1	-1	-1	4	3	-2	4									0

RADIO AURORA DATA

F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JUNE 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	320						300	310																
2	320		310		300	310	300	310	290			310	320	310	310		300	290	350					
3		300						300		300														
4									300		300													
5									310	310														
6	300			300						310														
7																								
8																								
9													300	300										
10									330															
11				310	330		290	300	310															
12		330	330										320	300										
13			300	300	300		300																	
14	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
15											300													
16	310			300						300								310						
17	300																							
18				320	320	300	330								300									
19									300											N	N	N	N	N
20																								
21		340										310		300										
22					330	310	320			310	330													
23				320																				
24			F	320																				
25																								
26						300				300	300	330		320	320	320								
27																								
28																								
29								320					310											
30	300							310	330	290	300		320	300	300	300		320						
31																								

RADIO AUROPA DATA F = 112 MHz INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JUNE 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23			
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30		
1											N	N								20	-5					
2															-5	-5							-2			
3																										
4																										
5																							-5			
6																										
7																										
8																										
9																										
10																										
11																										
12		-5								4								-4	4	-2	-5	0				
13				F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
14	F	F	F	F	F																					
15															-6	-6	-6				-2					
16																		-6			4			-6		
17																										
18																							-6			
19	N	N	N	N	N	N	N	N	N	N	N												-5			
20																									-5	
21																			F	-5	-6				-6	
22																										
23																										
24																										
25																								-7	-5	
26																										
27																										
28																										
29																	-5	-5					-6		-5	
30																		-3		-2			-5	-5	0	
Mean																		-5	-5		-3		2	-4	-5	-4

RADIO AURORA DATA

F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JUNE 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1											N	N								320	320			
2														330	320							300		
3																								
4																								
5																						320		
6																								
7																								
8																								
9																								
10																								
11																								
12		320								300							330	310	320	300	300			
13			F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
14	F	F	F	F	F																			
15														300	310	300				320				
16																	310			330		300		
17																								
18																						320		
19	N	N	N	N	N	N	N	N	N	N	N										310			
20																							330	
21																	F	310	320				300	
22																								
23																								
24																								
25																						330	330	
26																								
27																								
28																								
29															310	320					320		300	
30																310		330		310	310	330		
31																								

RADIO AURORA DATA F = 112 MHz INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JULY 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1					12		-3	-5	-1		-6		2											
2				13		12							-1											
3								F	F	F														
4		-3								0														
5	0	5																						
6																								
7		-7						-1	6	4														
8							-1		5	0	-5	18	17	10	-5	-5	3		-6	8	-1			
9									-5			-7	-3	-6		0	-4							
10																-5	-2							
11									-2		-3										-7			
12																								
13												-5												
14			-3		5	-5																		
15		F																						
16																								
17																								
18					-7												-5							
19					-7				10	-6							-5							
20	-5			-7					-5					-5										
21					-5				-3	-5	-5													
22				7																				
23										-5			0	10										
24									-4															
25										-7				-7	-2	-1	4	-5	18		-7	0	5	8
26	14			5					-6	-3	0					-3								
27					-5	-7					2		-5			5								
28					-3	-6	-4	-7	-7	-2														
29		-7																						
30					-7								-6	-2	-4									
31									-7															
Mean	3	-3		2	-2	-2	-1	-4	-2	-2	-2	-4	0	0	2	-1	-3	-2						

RADIO AURORA DATA

F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JULY 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1					300		310	320	310		330		320											
2				300			290						300											
3								F	F	F														
4		300								310														
5	300	310																						
6																								
7		320					300	300	300															
8						300			310	320	300	280	290	330	300	310	300		340	300	300			
9									310			310	320	360		310	300							
10																370	320							
11								320			310								300					
12																								
13											320													
14			300		290	330																		
15		F																						
16																								
17																								
18				370													340							
19				300				300	320								300							
20	310			280	370			330					310											
21				350				320	300	350														
22			300																					
23									300			310		320										
24								300																
25									310				320	310	310	310	300	300		310	300	310	350	
26	290		300					300	290	290					310									
27				300	300					310	290			330										
28				310	310	300	320	300	300															
29		300																						
30				300								370	310	310										
31								310																

RADIO AURORA DATA F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JULY 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1									N	N														
2																								
3																								
4																								
5																								
6																								
7										N	N				-5	-3	-6	-5	7	0				-5
8											-5	-5	-5		-5	-4				-2				
9			-5												-6		-7							
10											-5				0		-2	-7				-6		
11																								
12																								-7
13																								
14																								
15																	-2	-4	0	-6				
16																						-5		-7
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25											-7	10	4	-2	-2									
26																								-7
27																								
28																								0
29																								
30																								
31																								
Mean																								

RADIO AURORA DATA

F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

JULY 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23		
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1									N	N															
2																									
3																									
4																									
5																									
6																									
7											N	N			330	310	310	310	310	310	300			300	
8											310	320	320		310	310			310						
9		310													340		310								
10											320				330		330	320			330				
11																									
12																								320	
13																									
14																									
15							F									330	330	330	300						
16																				330			330		
17																	310								
18															320		320								
19																			330		310	310	300		
20																									
21																									
22																									
23																									
24																									
25										310	320	310	320	320	310			310	310						
26																							320		
27																									
28																								290	
29																									
30																									
31																									

RADIO AURORA DATA F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

AUGUST 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11		
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1											-5	3	3		5	14									
2																									
3		-7																							
4	-6	-5									0	-5													
5							2			0				-5	-5		•	-5							
6										-5															
7																									
8						F	F					-5	4	3	5	-3	F	10	0	0	-5	14	5		
9			F	F	F	F					F	F													
10					0					-5				-6	F	-6	-4					-5	-7	F	
11																									
12						F																			
13																									
14										-6		2	-7	-6		•	•	-7				-5			
15										-7				-4											
16																							N	N	N
17											-4	-7	•	-6	-2		-6	-6							
18		-5																							
19			F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
20																									
21	F				13	-6	-5	-5						F		-7	-5	-4							
22		2	-2							F	-3	-2	-7			2	7								
23					-5	-6				F															
24										F	E														
25	F	F	F					-7					0												
26					-6					-8	-7														
27						-1				-6			-4	5	10	-1	•	10	7						
28											-2														
29		-1	-7	-7	-7					5	19	8	0					-5	-2	20	10	0	0	5	
30					-6													-4							
31													-6												
Mean		-3			-2	-4	-3	-6	-3	1	-1	-3	0	-2	3	-1	1	5					-3	5	

RADIO AURORA DATA F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

AUGUST 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1											340	330	320		320	320								
2																								
3		320																						
4	330	330									300	300												
5						320			310				330	350		380								
6								300																
7																								
8					F	F					310	310	350	300	330	F	310	290	300	330	310	330		
9			F	F	F	F					F	F												
10					350				300				330	F	320	320						350	330	F
11																								
12					F																			
13																								
14										330	310	300	300		310	310	300				340			
15						310							320											
16																						N	N	N
17											330	300	300	300		370	310							
18		300																						
19			F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
20																								
21		F			310	320	310	300					F		330	300	300							
22		290	300							F	320	300	310		300	330								
23					300	300			F															
24							F	F																
25	F	F	F			300						300												
26					310				330	310														
27					290	300				320	310	320	300	320	320									
28									330															
29		310	300	300	380				300	300	310	310			310	290	310	330	310	320	310			
30					330										300									
31											320													

RADIO AURORA DATA F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

AUGUST 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23				
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30			
1																											
2																											
3																								-2			
4																								-6			
5														-6		-5	-6							-7	5	-4	-5
6																											
7																											
8																											
9																											
10																											
11																											
12																											
13																											
14																											
15																											
16	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
17																											
18																											
19	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
20																											
21																											
22																											
23																											
24																											
25																											
26																											
27																											
28																											
29																											
30																											
31																											
Mean																											

RADIO AURORA DATA F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

AUGUST 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																								
2																								
3																						310		
4																						310		
5													310			330	330				300	310	300	310
6																								
7																			330	320	330	310	280	
8																					F	F		
9											N									310				
10																								
11																								F
12																								
13																								
14																								
15								300	300				300	340	300		330	330	290			290		
16	N	N	N	N	N	N	N	N	N	N														
17																								320
18																								
19	F	F	F	F	F	F	F	F													330		330	320
20												330	330	300										
21																	320	320	F					
22																								
23																								
24																						F		330
25																								
26																								
27																								
28																							320	
29																	310	320	320					
30																								
31																								

RADIO AURORA DATA F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

SEPTEMBER 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	-5																-7	8						
2	-5			F		F	-6	10																
3	-7							F	-6		-6													
4																								
5																								
6				F	F	-6	-5				-7			-6	-3									
7		-7	-4																					
8							-2				-4	-5												
9			-6				10	-1			0	-6												
10		-7						-3	4	5	2	5	10	7	-2				-7	-4				
11								-7							-6									
12												0	0	-4	10	-5	-5							
13											-6	0	0											
14			5	-7						0	3	1	4	0	2	-2								
15																								
16									-5	0														
17							-5										7	9						
18	-3			-4			-5		0	-2			-2	-5										
19			0		-7		-6		-6															
20							-4			-5														
21																								
22												-5												
23							-5		2	0		-6												
24																								
25																								
26						-6	-1						-6		13	7								
27	7	-7			-6		2			-5		-2				-1	-1	-6						
28								-2	-5	0		-1												
29								-4																
30																								
Mean	-3		-2	-5			-2	-4	0	-2	1	-3	-1	1	1	2	-2	2						

RADIO AURORA DATA F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

SEPTEMBER 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1	300																340	320						
2	310			F		F	320	310																
3	300							F	320		310													
4																								
5																								
6				F	F	320	300				310				320	310								
7		300	320																					
8							300				300	320												
9			310			300	300				350	300												
10		310						300	330	310	320	360	290	310	340				320	330				
11							300								300									
12												300	310	300	300	300	320							
13											330	300	300											
14		310	300						300	300	300	300	290	300	300	300								
15																								
16									310	300														
17							300										320	310						
18	330			320			300		300	310			360	310										
19		300		300			290		300															
20							320			300														
21																								
22												300												
23							300		300	320		300												
24																								
25																								
26							310	310					310		320	320								
27	310	310				300		300			340		300				320	320	300					
28								310	310	310		300												
29							320																	
30																								
31																								

RADIO AURORA DATA F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

SEPTEMBER 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																		-4		-7	-7	-7		-7
2																		F	F			F	-7	-5
3																								
4																								
5																						F	F	F
6									N				-5	0	-5	-7								
7																								
8																								
9												-7	-7	-5	-7						-8	-8		
10														-7	-7									
11															-5			-4	-7					-7
12																								
13																								
14																								
15																							-5	
16																								
17																				-4	10			
18																			-5					
19																								
20																			-7					
21												N	N											
22																								
23																								
24																								
25																								
26												F		-4	-5	-6	-4	-6	-7					
27															-3	-4	-6	-5	-2	1				
28																								
29																								
30																								
31																								
Mean														-6	-4	-4	-7	-5	-4	-1				-6

RADIO AURORA DATA F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

SEPTEMBER 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																	320		310	310	310			320
2																	F	F			F	320	320	
3																								
4																								
5																					F	F	F	
6								N				320	350	320	310									
7																								
8																								
9											320	310	300	300					300	300				
10												330	320											
11													320				320	320						300
12																								
13																								
14																								
15																						320		
16																								
17																			320	300				
18																		330						
19																								
20																		310						
21											N	N												
22																								
23																								
24																								
25																								
26										F		330	330	330	320	300	300							
27													320	330	320	330	320	320						
28																								
29																								
30																								
31																								

RADIO AURORA DATA F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

OCTOBER 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11		
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1													-1	-4											
2			-5								0														
3																									
4	-5					-6	8	-4		-5	-2		-5												
5							-2									7									
6													4	3	4		13	-2	-5						
7				-4							3	1	5				8	-5							
8									-4	2	-1	-6		F		-5									
9	5	15	F	4	F	F	-5							F		-2	F	0	8	9	15	9			
10						-6	-5					-5	-5		2		20	13	-5						
11		0			-4		-7	8	-2	-1															
12		13				5		-5					-6	-5											
13											-3						-2								
14																									
15			5																						
16							-3						-2	5											
17				2	3	-7				-2															
18																									
19	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
20		-5	1			-5							-2												
21				10				-5	-2		-4		2	-7	-7	3	-1								
22																									
23			-5													-5									
24								-5						-5											
25											-6														
26										-4	5														
27													-4		5	5	2	-5	-2	-5					
28										-5	-3	-6	-6	-7	-5										
29	-2			-1		-5									12			15	-2					-3	
30					5	-5		10	-5						-1										
31		11							-2	-3	-1	2	13	7	12	13	17	-2	-5					-5	12
Mean	-1	7	-1	3	-2	-6	-2	-2	-2	-3	-1	-2	1	1	5	0	9	0	-1						

RADIO AURORA DATA F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

OCTOBER 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1												310	300											
2			310								320													
3																								
4	320				300	310	320		300	300		310												
5						300									300									
6												320	310	300		310	330	300						
7			310							300	300	300				330	300							
8								310	300	300	310		F		300									
9	310	300	F	300	F	F	300						F		300	F	300	300	320	310	320			
10					300	300					320	350		300		290	330	300						
11		350		310		300	300	310	320															
12		300		300		300					310	300												
13									310						320									
14																								
15			300																					
16						340					300	300												
17			310	300	310			300																
18																								
19	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
20		320	320		310							330												
21			300			300	300		300		310	320	320	310	300									
22																								
23			300												300									
24						300					310													
25									300															
26							300	300																
27										300		310	310	310	300	310	310							
28							300	320	300	320	300	310												
29	310		310		300							320				320	330					300		
30				310	290		310	300				300												
31		300						300	300	320	320	310	320	300	300	300	370						330	320

RADIO AURORA DATA F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

OCTOBER 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																								
2																								
3																							N	-2
4																								-5
5																								
6													0	-5										2
7													-6	-5	0	-2								
8									F				-4	-5	F									
9															F		F				F			
10																								
11																								-7
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19	F	F	F	F	F	F	F	F	F	F	F													
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
31																								
Mean																								

RADIO AURORA DATA F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

OCTOBER 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																								
2																								
3																							N	320
4																								310
5																								
6													320		310									300
7														310	310	320	310							
8									F			310	320	F			310							
9					300									F		F				F				
10																	310	300						300
11																								310
12													320	310	330	310	300	320			320	310	300	
13																								
14																								
15																								
16																		310	310			300		
17																				300	300			
18																		F	F	F	F	F	F	F
19	F	F	F	F	F	F	F	F	F	F	F													
20																								
21																								
22																								
23																								
24																								
25																								
26																	300	300						
27																								
28																							350	300
29																								
30																								
31																						F		F

RADIO AURORA DATA F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

NOVEMBER 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1													F	-5										
2				13	5		F						0	F	F	F	F							
3			-5	-7	0	-2		0							-5		0	0	-7	10	16			
4	-7	F		-5					F	0	5	-7	10	0		5	13		-5					
5										-5	-5													
6								-5	5	-1														
7												-7		-1		-5								
8														-7										
9														-6	-5									
10						5	2																	
11				-7	-7	-1	5	-5		5	-7													
12				-4			-7	-1		-5		-7												
13																								
14								-7	-7															
15																								
16								-5						-4	-3	-1								
17																								
18	-7											-4												
19																								
20						F																		
21		-2										-3	-4		-5	-2	7	10	-4	10	-1			
22															N	N	N	N	N	N	N	N	N	N
23	-5																							
24																								
25										-1	-4	-7				2	2							
26																N	N	N	N	N	N	N	N	N
27							-5																	
28															N	N	N	N	N	N	N	N	N	N
29																								
30				-1									-3	0		N	N	N	N	N	N	N	N	N
31																								
Mean	-6			-1	-1	1	-1	-4	-1	-1	-3	-6	-1	-4	-4	2	6		-1					

RADIO AURORA DATA

F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

NOVEMBER 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1													F	290										
2			300	300		F							300	F	F	F	F							
3			320	300	300	310		300						300		300	300	300	300	300	310			
4	300	F		320					F	300	300	290	340	300		300	300		300					
5										290	290													
6							300	300	300															
7											300		300		300									
8														310										
9												300	300											
10					310	300																		
11				290 350	290	300	300		300	300														
12			300			300	300		300		290													
13														300										
14							300	300																
15																								
16							300						300	300	300									
17																								
18	340										300													
19															290									
20				F																				
21		300									300	300		300	290	310	330	280	300	280				
22															N	N	N	N	N	N	N			
23	330																							
24																								
25								300	300	300					310	290								
26																N	N	N	N	N	N	N		
27							290																	
28														N	N	N	N	N	N	N	N	N	N	N
29																								
30			300									280	290		N	N	N	N	N	N	N	N	N	N
31																								

RADIO AURORA DATA

F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

NOVEMBER 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23		
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1																									
2									-5	-5	F	-6	-1	-4	-6	-2	-5							-1	
3			-5	-6	-2	-1	-7		0	-1			-5		-7					[•] 3	-7			F	
4						-5	-6	-4	0	-6	-5	-5			-7	-6									
5														-7	-5									5	
6									-7																
7																	-6								
8																									
9									-5	0	5	-5								3					
10																									
11																									
12																									
13																									
14											N	N													
15																									
16																									
17									0		-4	-5											[•] 12	2	
18																									
19																									
20																	-6	-2							
21																									
22						-2		0	-3		-6	-4	0	-5									-7	-7	-4
23																									
24																	-5	-7	-7	-6					-7
25																									
26																									
27																									
28	N	N	N	N																					
29										-6			-6	-4	-1					3	-5				
30	N	N	N	N	N					-2	2	-7	-4	-3	-7	-3	-7	-7						-3	-7
31																									
Mean									-4		-3	-3	-3	-4	-4	-5	-6	-6	-5					0	-3

RADIO AURORA DATA F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

NOVEMBER 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1																								
2									310	300	F	300	320	310	310	310	300				300			
3			300	300	300	300	300		300	300			310		290					300	300			F
4						300	300	300	300	300	300	300			300	300								
5														320	330									300
6									320															
7																	320							
8																								
9									300	300	320	320						300						
10																								
11																								
12																								
13																								
14										N	N													
15																								
16																								
17									300		300	300									300	320		
18																								
19																								
20																310	310							
21																								
22					290	290	290		300	300	320	300									280	300	290	
23																								
24																300	300	300	300					300
25																								
26																								
27														300										
28	N	N	N	N																				
29									310			300	300	310				300	300					
30	N	N	N	N	N				300	300	310	320	310	300	300	300	300					290	300	
31																								

RADIO AURORA DATA

F = 112 MHz

INTENSITY (dB)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

DECEMBER 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11		
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	
1					-4														F						
2			-3	-7	0									-7											
3								-5	0	-3															
4					-1									N	N	N	N	N	N	N	N	N	N	N	
5																									
6														-5	-7							N	N	N	
7					-7	-7																			
8															-6	-2	2								
9			-6	-6	6	-6			-4	-6				-5											
10																									
11																									
12																							N	N	N
13	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
14														-7											
15			-3																						
16	-7								0	-7			-6	-7	-4	N	N	N	N						
17												-6		-5	-5										
18					-6					0			-1	N	N	N	N	N	N	N	N	N	N	N	
19															-3	2								N	
20															N	N	N	N	N	N	N	N	N	N	
21																				N	N				
22									-6											N	N	N			
23														-4											
24													-5	-2	N	N	N	N	N	N	N	N	N	N	
25					5			-7					-5		-2	2	5	20		-5				N	
26					-7	-7		12	-5				-5	-6			0	1							
27																	-7						2	10	-4
28					-5			-5	-6																
29																									
30																									
31																									
Month																									

RADIO AURORA DATA F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

DECEMBER 1975

Day	00		01		02		03		04		05		06		07		08		09		10		11			
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30		
1						300																				
2			300	310		300							300													
3								300	300	300																
4					290									N	N	N	N	N	N	N	N	N	N	N	N	
5																										
6													300	300									N	N	N	
7						290	300																			
8														300	300	300										
9			300	300		300	300			350	310			.320												
10																										
11																										
12																								N	N	N
13		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
14														310												
15		300																								
16	330									310	310		300	290	320	N	N	N	N							
17												300		300	310											
18				290						300		300	N	N	N	N	N	N	N	N	N	N	N	N	N	
19													300	300											N	
20													N	N	N	N	N	N	N	N	N	N	N	N	N	
21																					N	N				
22								300													N	N	N			
23													320													
24												300	310		N	N	N	N	N	N	N	N	N	N	N	
25			300			300						330		300	300	310	290		300						N	
26				310	300		290	300			300	300				340	310									
27														300		300						300	300	340		
28			300			300	300																			
29																					310					
30										290																
31													300													

RADIO AURORA DATA F = 112 MHz INTENSITY (dB)
 Syowa Station 45° EAST MERIDIAN TIME (U. T. + 3 hours) DECEMBER 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1				N			F	2	0	F	-5	-2	0				-3	-7	-5					-5
2								-4			-7	-5		-7										
3																								
4	N	N	N	N	N						-2	-4	-5	-5										
5																								2
6	N	N	N	N	N												-6	-4	-3	-5	-7	-7		
7																								
8	N	N	N	N												-4	-4	-7						
9								-2	F		-4	-7	-6											
10								-5	-4		-7													
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25											-5	-1	-5	-4	-7	-5								
26								-5	-5	-2	-5	-2		-7	-4									
27								N	N	N		-5				-5	-6							5
28																-7	-7							
29										N	N											-7		
30										N														
31																								
Mean								-2	-3	-4	-4	-5	-4	-7	-4	-5	-6							1

RADIO AURORA DATA F = 112 MHz

RANGE (km)

Syowa Station

45° EAST MERIDIAN TIME (U. T. + 3 hours)

DECEMBER 1975

Day	12		13		14		15		16		17		18		19		20		21		22		23	
	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30	.00	.30
1					N			F	300	300	F	300	300	300			300	300	300					280
2									310			300	300		300									
3																								
4	N	N	N	N	N							300	300	300	300									
5																								320
6	N	N	N	N	N												310	320	320	300	290	290		
7																								
8	N	N	N	N												300	300	300						
9									300	F		300	330	320										
10									300	300		300												
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25											300	300	300	300	300	310								
26									300	300	300	300	320		300	300								
27								N	N	N		320				300	300							290
28																330	310							
29											N	N								300				
30											N													
31																								