

B. Solar Radio Emission
 B1. Daily Data at Hiraiso
 500 MHz

Hiraiso

September 2002

Single-frequency total flux observations at 500 MHz					
Flux density: $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$					
UT Date	00-03	03-06	06-09	21-24	Day
1	36	36	36	35	36
2	34	34	35	33	34
3	32	32	33	33	33
4	33	34	35	37	35
5	35	35	36	34	35
6	35	32	31	35	33
7	34	34	34	34	34
8	34	33	34	31	33
9	33	32	32	35	33
10	34	34	34	37	35
11	35	33	35	35	34
12	34	33	35	36	35
13	37	37	36	40	38
14	39	39	39	37	38
15	38	37	36	18	32
16	22	27	14	38	28
17	37	35	44 [*]	39	37
18	38	36	35	42	38
19	39	37	38	40	39
20	38	37	38	43	39
21	42	38	41	40	40
22	39	39	37	39	38
23	37	35	35	41	37
24	39	35	36	38	37
25	36	35	35	38	36
26	36	36	37	37	36
27	38	37	37	32	36
28	32	34	33	36	34
29	34	33	32	35	33
30	34	35	35	35	35
31					

Note: No data is available during the following periods.

A superscript * stands for being superposed on a burst.

B. Solar Radio Emission
B2.Outstanding Occurrences at Hiraiso

Hiraiso

September 2002

Single-frequency observations								
Normal observing period: 2020 - 0845 U.T. (sunrise to sunset)								
SEP. 2002	FREQ. (MHz)	TYPE	START TIME (U.T.)	TIME OF MAXIMUM (U.T.)	DUR. (MIN.)	FLUX DENSITY ($10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$)		POLARIZATION
						PEAK	MEAN	REMARKS
1	2800	1 S	02240	02240	1.0	45	-	WR
1	500	47 GB	02240	02240	1.0	535	-	0
1	200	8 S	02240	02240	1.0	70	-	0
1	500	8 S	04480	04480	1.0	150	-	0
1	500	8 S	04440	04440	1.0	20	-	0
1	500	8 S	05120	05120	1.0	35	-	0
1	500	8 S	06550	06550	1.0	170	-	0
1	200	8 S	05440	05480	1.0	85	-	0
1	200	8 S	08300	08320	2.0	145	-	0
1	500	8 S	20570	20570	1.0	25	-	0
1	200	8 S	20570	20570	1.0	305	-	0
1	500	8 S	22340	22340	1.0	85	-	0
1	200	8 S	22340	22350	1.0	95	-	WR
2	500	3 S	00070	00080	17.0	170	-	WL
2	200	47 GB	00070	00070	1.0	1165	-	WR
2	200	47 GB	01170	01170	1.0	530	-	0
2	200	8 S	01290	01290	1.0	100	-	0
2	200	8 S	02460	02460	1.0	655	-	0
2	500	3 S	02470	02470	5.0	25	-	0
2	500	8 S	07150	07150	1.0	145	-	0
2	200	8 S	07160	07160	1.0	245	-	0
2	200	8 S	07350	07360	1.0	70	-	WL
3	200	8 S	00020	00020	1.0	240	-	0
3	200	8 S	01060	01060	1.0	60	-	0
3	200	8 S	01540	01540	1.0	140	-	0
3	200	8 S	02550	02550	2.0	60	-	ML
3	200	8 S	06180	06180	1.0	165	-	0
3	200	8 S	07410	07420	2.0	40	-	ML
4	200	8 S	03430	03430	1.0	115	-	0
4	200	47 GB	05130	05140	2.0	575	-	0
4	500	8 S	05140	05140	1.0	15	-	0
4	200	8 S	07340	07350	1.0	165	-	WR
4	200	8 S	08280	08280	1.0	180	-	WR
4	200	8 S	22480	22480	1.0	25	-	0
5	200	8 S	07290	07290	1.0	50	-	0
6	200	8 S	00060	00060	1.0	70	-	ML
6	200	8 S	02180	02180	1.0	125	-	WL
6	200	8 S	05120	05120	1.0	85	-	0
6	200	8 S	21430	21440	3.0	105	-	0
7	200	8 S	02080	02080	1.0	135	-	0
7	200	8 S	05130	05140	1.0	80	-	0
7	200	8 S	05370	05370	1.0	75	-	0
7	200	7 C	07190	07220	4.0	150	-	0
8	200	8 S	00400	00400	1.0	35	-	0
8	200	8 S	00420	00420	1.0	75	-	0
8	2800	7 C	01370	01390	12.0	225	-	0
8	500	7 C	01370	01390	16.0	85	-	0

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SEP. 2002	FREQ. (MHz)	TYPE	START TIME (U.T.)	TIME OF MAXIMUM (U.T.)	DUR. (MIN.)	FLUX DENSITY ($10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$)		POLARIZATION
						PEAK	MEAN	REMARKS
8	200	7 C	01380	01430	13.0	175	-	0
9	200	8 S	01400	01400	1.0	25	-	0
9	200	8 S	06330	06330	1.0	110	-	0
9	200	7 C	21550	21570	4.0	260	-	0
10	200	8 S	00040	00040	1.0	85	-	0
10	200	7 C	03090	03110	3.0	145	-	0
10	200	47 GB	05570	05580	2.0	540	-	0
10	200	42 SER	21130	21140	11.0	140	-	
10	200	8 S	22520	22520	1.0	35	-	
10	200	8 S	23150	23150	1.0	55	-	
11	200	8 S	04170	04170	1.0	25	-	
11	2800	3 S	07280	07340	10.0	225	-	
13	200	7 C	21480	21480	5.0	50	-	0
14	2800	4 S/F	05570	05580	3.0	225	-	0
14	500	7 C	05570	05590	2.0	20	-	0
14	200	8 S	05580	05580	1.0	35	-	0
14	200	8 S	07510	07510	1.0	175	-	0
16	2800	1 S	01450	01450	3.0	25	-	0
16	200	8 S	01470	01470	1.0	95	-	WL
16	500	8 S	01540	01540	1.0	40	-	0
16	200	8 S	01540	01540	1.0	170	-	WL
16	2800	1 S	03080	03090	1.0	35	-	0
16	200	8 S	03080	03090	3.0	215	-	WL
16	200	8 S	22130	22140	2.0	140	-	0
17	200	7 C	01570	02020	7.0	60	-	0
17	500	3 S	01580	02020	5.0	15	-	0
17	2800	1 S	03060	03070	3.0	25	-	WL
17	500	8 S	04110	04110	2.0	25	-	WR
17	2800	8 S	04120	04120	1.0	50	-	ML
17	200	8 S	04160	04160	1.0	30	-	0
17	500	8 S	04210	04210	1.0	55	-	WR
17	200	8 S	04210	04210	1.0	100	-	WR
17	2800	8 S	04220	04220	1.0	55	-	0
17	2800	4 S/F	05490	05520	3.0	120	-	0
17	200	4 S/F	05490	05510	4.0	210	-	0
17	500	4 S/F	05500	05540	4.0	65	-	0
17	200	8 S	07000	07010	2.0	245	-	0
17	500	8 S	07060	07060	1.0	45	-	0
17	200	8 S	21320	21320	1.0	35	-	WR
17	200	8 S	21460	21460	1.0	65	-	0
17	200	8 S	23280	23280	1.0	240	-	0
17	200	8 S	23580	23580	2.0	300	-	0
18	200	8 S	00100	00100	1.0	40	-	0
18	200	8 S	02150	02150	3.0	265	-	0
18	200	8 S	05270	05270	1.0	15	-	0
19	500	8 S	01320	01320	1.0	10	-	0
19	500	7 C	05130	05230	17.0	15	-	0

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SEP. 2002	FREQ. (MHz)	TYPE	START TIME (U.T.)	TIME OF MAXIMUM (U.T.)	DUR. (MIN.)	FLUX DENSITY (10^{-22} W m ⁻² Hz ⁻¹)		POLARIZATION
						PEAK	MEAN	REMARKS
20	200	8 S	00200	00200	1.0	45	-	0
20	200	8 S	01110	01110	1.0	90	-	MR
20	200	8 S	02540	02540	1.0	120	-	0
20	200	8 S	04140	04140	1.0	50	-	0
20	200	4 SER	04500	05000	29.0	75	-	0
20	500	7 C	05340	05410	19.0	85	-	MR
21	200	8 S	03170	03180	2.0	145	-	WL
21	200	7 C	04110	04110	4.0	30	-	0
21	200	8 S	06520	06520	1.0	70	-	0
22	500	8 S	04290	04290	1.0	25	-	0
22	200	8 S	04290	04290	1.0	190	-	0
22	500	8 S	04390	04390	1.0	25	-	0
22	200	8 S	06560	06560	1.0	30	-	WL
23	500	8 S	04370	04370	1.0	10	-	0
23	500	8 S	05130	05140	1.0	140	-	0
23	200	8 S	06490	06490	1.0	75	-	0
23	200	8 S	07350	07350	1.0	180	-	0
23	200	8 S	20540	20540	1.0	85	-	0
23	200	8 S	21290	21290	1.0	20	-	0
24	200	8 S	02250	02260	1.0	115	-	0
24	500	8 S	06010	06020	1.0	25	-	0
25	200	8 S	00490	00490	1.0	15	-	0
25	200	8 S	01590	01590	1.0	35	-	0
25	200	8 S	04120	04120	1.0	135	-	0
25	200	8 S	04470	04470	1.0	35	-	0
25	200	8 S	04530	04530	1.0	15	-	0
25	200	8 S	07350	07350	1.0	20	-	0
25	200	8 S	08010	08010	1.0	360	-	0
25	200	47 GB	20550	20550	1.0	1880	-	0
25	200	8 S	21270	21270	1.0	40	-	0
25	200	47 GB	22590	22590	1.0	860	-	0
26	500	8 S	02060	02060	2.0	30	-	0
26	200	8 S	02060	02060	1.0	125	-	0
26	500	8 S	02360	02360	1.0	45	-	0
26	200	8 S	02360	02370	1.0	215	-	0
26	200	8 S	03400	03400	1.0	60	-	0
26	500	8 S	03500	03500	1.0	50	-	0
26	500	8 S	05110	05110	1.0	45	-	0
26	500	42 SER	05160	05160	4.0	25	-	0
26	500	8 S	07480	07480	1.0	30	-	0
27	500	4 S/F	03310	03310	9.0	10	-	0
27	200	8 S	04190	04190	2.0	15	-	0
28	500	7 C	01010	01050	10.0	190	-	0
28	200	42 SER	01030	01070	7.0	15	-	WL
28	200	8 S	06570	06580	1.0	105	-	0
28	200	8 S	07250	07250	1.0	140	-	WL
28	200	8 S	08080	08080	1.0	15	-	WR

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SEP.	FREQ.	TYPE	START TIME	TIME OF MAXIMUM	DUR.	FLUX DENSITY ($10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$)		POLARIZATION
2002	(MHz)		(U.T.)	(U.T.)	(MIN.)	PEAK	MEAN	REMARKS
28	200	47 GB	20440	20440	1.0	785	-	0
28	500	8 S	21260	21260	1.0	60	-	WL
28	500	8 S	21310	21330	3.0	285	-	ML
29	500	42 SER	06040	06060	5.0	45	-	WL
29	200	42 SER	06040	06090	13.0	330	-	ML
29	200	8 S	06200	06200	1.0	280	-	0
29	500	42 SER	06300	06410	15.0	455	-	SL
29	200	47 GB	06300	06360	14.0	810	-	WL
30	500	7 C	03090	03110	3.0	20	-	0
30	200	7 C	03090	03130	4.0	355	-	0
30	200	8 S	04040	04040	1.0	80	-	0
30	500	8 S	04050	04050	1.0	25	-	WL
30	200	47 GB	04200	04210	4.0	2810	-	0
30	500	7 C	04210	04220	3.0	125	-	ML
30	200	8 S	05220	05220	1.0	35	-	0
30	200	47 GB	05420	05430	4.0	1070	-	0
30	500	7 C	05430	05430	3.0	100	-	ML
30	200	7 C	06590	07020	9.0	185	-	0
30	500	7 C	07000	07000	3.0	40	-	0
30	200	8 S	21250	21250	1.0	20	-	0
30	200	8 S	21580	21590	2.0	235	-	0

