S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

Day	OBSERVATION Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
01	0000	0700	CULG	0000.0E	0700.0D	III	S,C	1	57X	180	
			LEAR	0027.0	0035.0	III		2	25	180	
	0000	0944	HIRA	0030.0	0035.0	III	G	1	25X	300	
			CULG	0031.0	0035.0	III	GG	3	57X	300	
			LEAR	0041.0	0051.0	III		2	25	180	
			CULG	0042.0	0044.0	III	G	3	57X	280	
			HIRA	0042.0	0050.0	III	G	1	25X	300	
			CULG	0102.0	0700.0D	I	S	1	70	170	
			HIRA	0144.0	0144.5	III	B	1	25X	60	
			LEAR	0144.0	0144.0	III		1	25	54	
			HIRA	0325.5	0326.0	III	B	1	230	500	
			CULG	0326.0	0326.0	III	B	1	250	470	
			SVTO	0420.0	1329.0	CONT		1	25	180	
			IZMI	0551.0E	1155.0U	III	N	1	25X	95	
	0551	1200	IZMI	0551.0E	1200.0D	I	S,C	2	50	270X	
			IZMI	0552.8	0553.9	III	G	1	45	90	
	0450	1750	BLEN	0613.0	0614.3	III	GG	2	210	450	
			BLEN	0616.3	0617.5	III	GG,S	2	210	500	
			BLEN	0622.8	0626.7	DCIM	C	2	1400	4000X	
			IZMI	0645.3	0647.8	III	GG	1	45	95	
	0340	1843	POTS	0647 U	0818 U	III	GG,N	1	40X	90	
			IZMI	0658.4	0706.6	III	GG	2	35	180	
			POTS	0719.8	0720.1	DCIM		2	400U	530	
			POTS	0727 U	1040 U	I	S,C,DC	3	200U	380	
			POTS	0727.2	0727.4	DCIM		2	340	420	
			POTS	0740.7	0742.7	III	GG	2	200U	520	
			BLEN	0740.8	0749.5	DCIM	C,S	3	150	4000X	
			HIRA	0741.0	0742.5	III	G	1	200	280	
			IZMI	0741.0	0742.6	III	GG,C	3	175	270X	
			POTS	0743.1	0743.9	DCIM		2	300	530	
			IZMI	0750.3	0750.9	III	G	1	45	190	
			SVTO	0811.0	0811.0	III		1	56	180	
			IZMI	0852.0	0852.0	III	B	2	115	180	
			POTS	1040 U	1843 U	I	S,C,DC	2	50	300	1352-1405 no data
			IZMI	1113.2	1114.2	III	GG	2	120	260	
			IZMI	1121.7	1121.8	III	B	2	240	270X	
	1123	1729	ONDR								
			IZMI	1154.0	1154.2	III	B	1	25	90	
			HOLL	1704.0	1706.0	III		1	25	180	
			BLEN	1704.4	1710.7	DCIM	C	3	100X	4000X	
			POTS	1704.4	1706.1	DCIM		2	300U	680	
			PALE	1705.0	1706.0	III		2	25	180	
			SGMR	1705.0	1706.0	III		1	30	80	
			SVTO	1705.0	1706.0	III		2	25	180	
			POTS	1705.7	1706.1	III	G	3	60	600U	
			POTS	1705.8	1706.5	V	G	3	110U	300	
			SGMR	1856.0	1933.0	III	N	1	30	80	
			HOLL	1929.0	1932.0	III		1	25	159	
	2100	2400	CULG	2154.0	2322.0	III	N	1	57X	180	
			HOLL	2156.0	2157.0	III		1	25	129	
	1943	2400	HIRA	2156.0	2157.5	III	G	1	25X	200	
			HOLL	2353.0	2356.0	III		2	25	180	
			LEAR	2354.0	2356.0	V		3	25	180	
			PALE	2354.0	2356.0	V		2	25	180	
			LEAR	2358.0	0009.0	III	N	1	25	111	
02	0000	0700	CULG	0003.0	0145.0	I	S	1	100	180	
			CULG	0006.0	0206.0	III	N	1	57X	180	
			LEAR	0015.0	0024.0	III		1	56	132	
			LEAR	0108.0	0108.0	III		1	49	180	
			LEAR	0110.0	0236.0	CONT		1	102	180	
			CULG	0305.0	0305.0	III	B	2	57X	150	
			LEAR	0305.0	0305.0	III		1	50	118	
	0000	0944	HIRA	0305.0	0305.5	III	B	1	50	140	
			CULG	0308.0	0700.0D	I	S	1	130	180	
			CULG	0333.0	0333.0	III	B	1	75	180	
			CULG	0341.0	0700.0D	III	N	1	57X	180	
			HIRA	0341.0	0342.5	III	G	1	25X	110	
			LEAR	0341.0	0342.0	III		1	25	115	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
02	0341	1842	POTS	0411 U	1842 U	I	S,N,DC	2	200U	400	100-200MHz no data
			LEAR	0414.0	0946.0	III	N	1	25	155	
			SVTO	0435.0	0654.0	III	N	1	25	180	
			POTS	0456.6	0458.2	III	G,N	2	40X	80	
			HIRA	0525.5	0526.0	III	B	2	40	200	
			POTS	0525.8	0526.0	III	B	2	40X	400	
			CULG	0526.0	0526.0	III	B	2	57X	180	
			SVTO	0528.0	0529.0	III		2	25	62	
			LEAR	0532.0	0705.0	CONT		1	113	180	
			SVTO	0533.0	0704.0	CONT		1	111	180	
			POTS	0556.0	0557.0	III	G	2	40X	250	
			IZMI	0556.8	0557.3	III	G	1	45	65	
			IZMI	0557.0E	1200.0D	III	N	1	25X	95	
	0557	1200	IZMI	0557.0E	1200.0D	I	S,C	2	45	270X	
	0450	1750	BLEN	0619.1	0621.7	DCIM	C	3	2000	4000X	
			IZMI	0620.5	0622.3	III	G	2	25X	95	
			CULG	0651.0	0654.0	III	G	3	57X	360	
			HIRA	0651.0	0652.5	III	G	2	25X	400	
			SVTO	0651.0	0651.0	III		2	25U	84U	
			IZMI	0651.2	0654.1	III	GG	2	25X	270X	
			POTS	0651.2	0654.0	III	G	2	40X	400	
			BLEN	0651.6	0652.5	III	C	2	150	3500	
			POTS	0721.9	0724.0	III	G	2	45	300	
			SVTO	0723.0	1130.0	III	N	1	25	180	
			HIRA	0723.5	0724.0	III	B	2	50	220	
			IZMI	0723.7	0723.9	III	G,C	2	45	250	
			IZMI	0742.7	0743.5	III	G	2	25X	130	
			POTS	0742.7	0810.7	III	GG,N	1	40X	85	
			IZMI	0839.3	0839.4	III	G	2	130	190	
			POTS	0908	0911	III	GG	3	40X	730	
			HIRA	0908.0	0910.0	III	G	2	60	130	
			BLEN	0908.1	0910.4	DCIM	C,P	2	100X	4000X	
			IZMI	0908.3	0911.7	III	GG,C,FS	2	25X	270X	
	0549	1729	ONDR	0908.4	0910.3	DCIM	G	1	2000X	4500X	
			POTS	0912	1446 U	III	GG,N	2	40X	85	
			IZMI	0915.0	0925.6	III	GG	2	25X	160	
			POTS	0927.7	0955 U	III	GG,N	3	40X	500	
			IZMI	1053.2	1057.6	III	GG,C	2	45	270X	
			POTS	1056.5	1126	III	GG,N	3	40X	430	
			IZMI	1101.2	1102.5	III	GG	2	40	125	
			SGMR	1111.0	1112.0	III		1	30	80	
			SVTO	1111.0	1112.0	V		2	25	180	
			IZMI	1111.5	1112.8	III	GG,C	2	25X	270X	
			BLEN	1111.7	1113.0	III	GG,S	2	100X	4000X	
			IZMI	1120.0	1124.7	III	GG,C,FS	2	45	270X	
			BLEN	1136.6	1147.5	DCIM	P	2	800	4000X	
			ONDR	1143.5	1146.3	DCIM	G	1	2107	4500X	
			SVTO	1159.0	1432.0	III	N	1	25	180	
			HOLL	1249.0	1249.0	III		1	49	123	
			SGMR	1249.0	1249.0	III		1	30	80	
			SVTO	1305.0	1439.0	CONT		1	114	180	
			HOLL	1306.0	1306.0	III		1	50	103	
			HOLL	1316.0	1429.0	CONT		1	103	180	
			HOLL	1321.0	1432.0	III	N	1	25	85	
			SGMR	1355.0	1356.0	III		1	30	80	
			POTS	1355.5	1356.0	III	G	3	40X	400	
			HOLL	1647.0	1752.0	III	N	1	25	148	
			PALE	1647.0	0409.0	III	N	1	25	180	
			SVTO	1647.0	1743.0	III	N	1	25	180	
			SGMR	1657.0	1658.0	III		1	30	80	
			BLEN	1712.9	1713.5	III	G	1	140	260	
			SGMR	1749.0	1752.0	III		1	30	60	
			HOLL	1846.0	1848.0	III		1	25	143	
			SGMR	1846.0	2033.0	III	N	1	30	80	
			HOLL	1911.0	0111.0	III	N	1	25	155	
			HOLL	1911.0	1918.0	III		1	25	155	
	1944	2400	HIRA	2031.5	2033.5	III	G	1	25X	110	
			HIRA	2047.0	2047.5	III	B	1	70	230	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
03			LEAR	0021.0	0349.0	III	N	1	32	180	
	0342	1841	POTS	0350 U	1841 U	I	S,N,DC	2	200U	400	100-200MHz no data
	0550	1200	IZMI	0550.0E	1150.0U	I	N	1	180	270X	
			LEAR	0554.0	0554.0	III		1	25	107	
			SVTO	0554.0	0554.0	III		1	25U	82U	
	0000	0943	HIRA	0554.5	0555.0	III	B	1	25X	100	
			IZMI	0554.6	0554.9	III	G	2	25X	95	
			POTS	0928.3	0928.5	DCIM		2	400	760	
			IZMI	1027.9	1028.7	III	G	2	25X	100	
			POTS	1027.9	1028.6	III	G	3	40X	85	
			IZMI	1028.0	1031.0U	V		2	25X	70U	
			SVTO	1028.0	1029.0	V		2	25U	82U	
			POTS	1028.2	1029.4	V	G	3	40X	75	
			IZMI	1141.6	1144.0	III	GG,C	2	25X	135	
			POTS	1141.7	1142.8	III	G	2	40X	85	
			POTS	1142.5	1143.4	V	G	2	45	70	
			SGMR	1221.0	1222.0	III		1	30	60	
			POTS	1221.7	1222.0	III	B	2	40X	85	
			HOLL	1243.0	1344.0	III	N	1	25	180	
			POTS	1244	1320 U	III	GG,N	3	40X	85	
			SGMR	1244.0	1306.0	III	N	2	30	80	
	0619	1727	ONDR	1300.1	1302.0	DCIM	G	1	2000X	4500X	
	0455	1750	BLEN	1300.5	1306.6	DCIM	P,C	2	430	4000X	
			POTS	1302	1306	DCIM		2	450	640	
			POTS	1700.8	1702.4	DCIM		1	460	800X	
			HOLL	1904.0	1909.0	III		1	25	180	
			PALE	1904.0	1913.0	III		2	25	180	
			SGMR	1904.0	1924.0	III	N	2	30	80	
			HOLL	1910.0	1914.0	III		1	25	109	
			HOLL	1921.0	2000.0	CONT		1	25	120	
			HOLL	2046.0	2047.0	III		1	25	53	
	1944	2400	HIRA	2229.0	2230.0	III	G	1	100	200	
			LEAR	2314.0	2320.0	III		1	97	180	
			HOLL	2330.0	2331.0	III		1	25	180	
			LEAR	2340.0	2341.0	III		1	179	180	
04			LEAR	0209.0	0209.0	III		1	81	141	
	0000	0942	HIRA	0209.5	0210.0	III	B	1	80	210	
			HIRA	0408.0	0408.5	III	B	2	40	120	
			LEAR	0408.0	0408.0	III		1	38	123	
	0343	1840	POTS	0411	0938 U	I	S,N,DC	2	200U	400	
			POTS	0444.2	0447.5	DCIM		2	470	770	
			LEAR	0445.0	0447.0	III		1	25	180	
			SVTO	0445.0	0446.0	III		1	58	180	
			HIRA	0445.5	0447.0	III	G	2	50	1000	
			POTS	0445.6	0446.8	III	G	2	40X	370	
	0455	1745	BLEN	0514.5	0514.8	III	GG	2	980	1200	
	0550	1200	IZMI	0550.0E	1200.0D	I	N	2	120	270X	
			POTS	0701.9	0702.8	DCIM		2	240	460	
			LEAR	0716.0	0719.0	III		1	25	180	
			SVTO	0716.0	0718.0	III		1	25	180	
			IZMI	0716.6	0720.0	III	GG	2	25X	160	
			POTS	0716.6	0721.0	III	GG	2	40X	600	
			BLEN	0717.0	0722.6	III	GG,C	2	100X	4000X	
			HIRA	0717.0	0718.5	III	G	2	50	150	
			BLEN	0738.5	0739.6	III	G	1	300	450	
			POTS	0738.5	0739.7	DCIM		1	300	440	
			POTS	0738.5	0739.7	III	B	2	40X	65	
			IZMI	0750.6	0751.0	III	G	1	45	90	
			SVTO	0816.0	0816.0	III		1	25	59	
	0619	1446	ONDR	0903.3	0935.3	DCIM	GG	3	2000X	4500X	
			POTS	0906.8	0908.6	DCIM		1	330	580	
			BLEN	0908.0	0923.5	DCIM	C	3	380	4000X	
			POTS	0929	0940	III	G,N	2	40X	280	
			IZMI	0929.1	0931.6	III	GG	1	45	270X	
			SVTO	0930.0	0930.0	III		1	25	180	
			IZMI	0937.9	0939.6	III	GG	2	40	200	
			IZMI	0943.5	0944.0	III	G	1	125	240	
			POTS	0953.8	0955.6	DCIM		2	400U	660	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
04			SVTO	0955.0	0956.0	III		1	25	53	
			POTS	0955.6	0956.1	III	B,U	2	40X	70	
			IZMI	0955.7	0956.0	III	G,U	1	25X	65	
			IZMI	1117.6	1117.8	III	G	1	200	270X	
			IZMI	1138.2	1148.3	III	GG	1	130	270X	
			HOLL	1259.0	1300.0	III		1	65	180	
			SVTO	1259.0	1300.0	III		2	61U	180U	
			HOLL	1453.0	1500.0	III		1	25	162	
			POTS	1453.0	1506.7	III	GG,N	3	40X	85U	
			SGMR	1453.0	1459.0	III	N	2	30	75	
			SVTO	1453.0	1506.0	III	N	2	25	180	
			BLEN	1453.2	1500.5	DCIM	P	2	150	4000X	
			POTS	1453.5	1505.0	DCIM		2	400U	750	
			HOLL	1901.0	1901.0	III		1	40	86	
			PALE	1901.0	1901.0	III		1	31	95	
			PALE	1913.0	0453.0	CONT		1	25	180	
			HOLL	2025.0	2026.0	III		1	25	137	
			PALE	2025.0	2026.0	III		1	25	73	
			SGMR	2025.0	2026.0	III		1	30	55	
	1945	2400	HIRA	2025.5	2026.0	III	B	1	25X	130	
			HOLL	2043.0	2050.0	III		1	25	165	
			HIRA	2050.0	2051.0	III	B	1	50	200	
			HOLL	2125.0	2125.0	III		1	25	44	
	2212	2400	CULG								
05			HOLL	0002.0	0002.0	III		1	25	86	
	0000	0710	CULG	0002.0	0003.0	III	G	1	57X	160	
			CULG	0236.0	0236.0	III	B	1	57X	80	
			CULG	0431.0	0431.0	III	B	1	57X	100	
	0343	1840	POTS	0446.2	0446.6	DCIM		2	400U	580	100-400MHz no data
	0500	1745	BLEN								
			CULG	0501.0	0501.0	III	B	1	57X	90	
			CULG	0511.0	0617.0	I	S	1	120	180	
	0550	1200	IZMI	0605.0U	0945.0U	I	N	1	110	250	
			IZMI	0633.6	0633.8	III	B	1	45	95	
			CULG	0634.0	0651.0	III	N	1	57X	90	
			CULG	0642.0	0645.0	III	G	2	57X	280	
			IZMI	0642.0	0644.7	III	G	2	25X	270X	
			LEAR	0642.0	0644.0	III		1	25	180	
			POTS	0642.0	0644.7	III	G	2	40X	85	
			SVTO	0642.0	0644.0	III		1	25	131	
	0000	0941	HIRA	0642.0	0644.5	III	G	1	30	200	
			IZMI	0650.3	0650.4	III	B	1	45	95	
	0656	1723	ONDR								
			IZMI	0800.1	0800.2	III	B	1	45	65	
			IZMI	0807.7	0807.9	III	B	1	50	65	
			IZMI	0829.3	0829.5	III	B	1	45	65	
			IZMI	0948.0	0949.0	III	G	1	45	65	
			IZMI	1028.4	1028.7	III	G	1	45	95	
			POTS	1034.4	1034.6	DCIM		2	400U	650	
	2100	2400	CULG	2124.0	2127.0	III	G	1	57X	180	
	1946	2400	HIRA	2124.5	2125.0	III	B	1	50	200	
			CULG	2200.0	2200.0	III	B	1	57X	90	
			CULG	2245.0	2248.0	III	G	1	57X	80	
06	0000	0710	CULG	0207.0	0207.0	III	B	1	57X	80	
			CULG	0343.0	0343.0	III	B	1	480	660	
			CULG	0414.0	0414.0	III	B	1	57X	90	
			CULG	0509.0	0710.0D	III	N	1	57X	100	
			LEAR	0510.0	0510.0	III		1	25	116	
			SVTO	0510.0	0510.0	III		1	25U	81U	
	0000	0940	HIRA	0510.0	0511.0	III	B	1	25X	100	
	0600	1200	IZMI	0606.0U	1143.0U	III	N	1	45	95	
	0500	1740	BLEN	0747.7	0751.5	III	GG	2	400	1000	
	0343	1839	POTS	0748.2	0748.6	III	B	1	40X	80	100-400MHz no data
			IZMI	0748.3	0748.4U	III	B	2	50	90	
			POTS	0748.6	0751.6	DCIM		2	430	760	
			IZMI	0845.7	0846.4	III	G	2	50	65	
			IZMI	0959.2	0959.3	III	B	2	45	75	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

Day	OBSERVATION Start (UT)	OBSERVATION End (UT)	Sta	EVENT Start (UT)	EVENT End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	FREQUENCY Upper (MHz)	Remarks
06			IZMI	1011.8	1013.5	III	G	1	25	95	
			SVTO	1034.0	1054.0	III	N	1	25	52	
			POTS	1043.8	1044.3	DCIM		2	520	720	
	0619	1722	ONDR	1129.2	1130.1	DCIM	G	1	2068	4500X	
			ONDR	1255.2	1259.1	DCIM	GG	2	2000X	4500X	
			BLEN	1255.9	1258.3	DCIM	C	3	700	4000X	
			POTS	1316.5	1316.8	DCIM		2	450	600	
			POTS	1337.9	1338.0	DCIM		2	460	570	
			HOLL	1423.0	1723.0	CONT		1	25	75	
			HOLL	1424.0	1426.0	III		1	25	83	
			SVTO	1424.0	1425.0	III		1	32U	82U	
			SGMR	1425.0	1425.0	III		1	30	50	
			HOLL	1458.0	1607.0	III	N	1	25	180	
			HOLL	1818.0	1819.0	III		1	25	180	
			HOLL	1818.0	1936.0	III	N	1	25	180	
			PALE	1818.0	1940.0	III	N	1	25	180	
			SGMR	1843.0	1843.0	III		1	30	80	
	2100	2400	CULG	2100.0E	2400.0D	III	N	1	57X	90	
			CULG	2249.0	2250.0	III	G	1	57X	180	
			HOLL	2249.0	2250.0	III		1	25	170	
	1947	2400	HIRA	2249.5	2250.0	III	B	1	25X		
			LEAR	2338.0	0948.0	CONT		1	62	180	
07	0000	0710	CULG	0000.0E	0435.0	III	S,C	2	57X	180	
			HOLL	0030.0	0140.0	CONT		1	25	142	
			PALE	0053.0	0452.0	CONT		1	25	180	
	0000	0939	HIRA	0413.5	0414.0	III	B	1	25X	120	
			CULG	0414.0	0414.0	III	B	3	57X	160	
			CULG	0435.0	0710.0D	III	S,C	1	57X	160	
			SVTO	0445.0	0547.0	CONT		1	25U	180U	
	0454	1721	ONDR								
	0510	1740	BLEN								
			IZMI	0600.0E	1200.0D	III	N	1	25X	95	
	0600	1200	IZMI	0600.0E	1200.0D	I	S	1	60	170	
			IZMI	0606.3	0607.1	III	G	2	40	90	
			IZMI	0632.2	0633.3	III	G,C	2	30	90	
	0344	1839	POTS	0632.2	0632.9	III	G	1	40X	80	100-400MHz no data
			IZMI	0748.9	0749.0	III	B	2	45	90	
			POTS	0748.9	0749.1	III	B	1	45	80	
			IZMI	0758.6	0758.9	III	G	2	45	90	
			POTS	0758.7	0758.9	III	B	1	40X	85	
			SVTO	0824.0	0825.0	III		1	37U	73U	
			IZMI	0824.7	0825.1	III	G,C	2	40	95	
			POTS	0824.8	0825.1	III	B	2	40X	85	
			SVTO	1045.0	1210.0	III	N	1	25	78	
			IZMI	1105.7	1106.0	III	B	2	25X	65	
			POTS	1105.7	1105.9	III	B	2	40X	90	
			POTS	1106.7	1106.9	DCIM		1	430	570	
			IZMI	1119.6	1129.3	III	GG	2	25X	95	
			POTS	1152	1156	III	G,N	1	40X	85	
			IZMI	1153.1	1154.2	III	G	1	45	95	
			HOLL	1252.0	1900.0	CONT		1	77	180	
			SVTO	1252.0	1737.0	CONT		1	75U	180U	
			HOLL	1344.0	2352.0	III	N	1	25	180	
			SVTO	1344.0	1737.0	III	N	1	25U	57U	
	2100	2400	CULG	2100.0E	2400.0D	III	S,C	1	57X	180	
			LEAR	2311.0	0949.0	CONT		1	25	180	
			LEAR	2321.0	0257.0	III	N	1	25	54	
08	0000	0710	CULG	0000.0E	0230.0	III	S,C	1	57X	180	
			HOLL	0024.0	0026.0	III		1	25	81	
			HOLL	0114.0	0140.0	CONT		1	25	139	
			CULG	0230.0	0507.0	III	S,C	2	57X	180	
			SVTO	0413.0	1736.0	CONT		1	25	180	
			CULG	0507.0	0710.0D	III	S,C	2	57X	180	
	0551	1200	IZMI	0551.0E	1200.0D	I	S,C	1	50	270	
			IZMI	0610.0U	0905.0U	III	N	1	25	95	
	0345	1839	POTS	0644 U	0945 U	I	S,N	1	60	85	100-400MHz no data
			IZMI	0812.7	0815.6	III	GG	2	45	215	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

Day	OBSERVATION Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
08			IZMI	0852.0	0852.1	III	B	1	45	65	
			IZMI	0853.0	0854.3	I	GG,DC	2	45	65	
			IZMI	0857.7	0858.0	III	G	2	45	170	
			POTS	0945 U	1117 U	III	GG,N	1	40X	85	
			IZMI	1022.7	1023.3	III	GG	2	160	270X	
	0510	1740	BLEN	1022.7	1023.3	III	GG,C	2	100X	4000X	
			POTS	1025 U	1150 U	I	S,N	1	55	85	
	0455	1720	ONDR	1110.1	1110.5	DCIM	G	2	978	1648	
			POTS	1223 U	1533 U	III	GG,N,RS	1	40X	85	
			HOLL	1406.0	1845.0	CONT		1	40	136	
			HOLL	1532.0	1533.0	III		1	25	135	
			SGMR	1532.0	1533.0	III		1	30	60	
			SVTO	1532.0	1533.0	III		1	25	159	
			PALE	1612.0	1842.0	CONT		1	25	180	
	2100	2400	CULG	2100.0E	2400.0D	III	S,C	1	57X	180	
			PALE	2120.0	2120.0	III		1	32	150	
			HOLL	2256.0	0140.0	CONT		1	61	153	
			LEAR	2310.0	0949.0	CONT		1	25	180	
09	0000	0710	CULG	0000.0E	0710.0D	III	S,C	1	57X	180	
			PALE	0033.0	0450.0	CONT		1	25	180	
			SVTO	0454.0	0808.0	CONT		1	25	180	
	0456	1718	ONDR								
	0515	1740	BLEN								
			SVTO	0552.0	0552.0	III		1	113U	180U	
	0555	1200	IZMI	0555.0E	1200.0D	I	S	1	50	270X	
			SVTO	0932.0	1735.0	CONT		1	25	180	
			IZMI	1138.5	1139.6	III	GG	1	110	230	
	0346	1838	POTS	1222.4	1223.1	III	G,W	1	60	85	100-400MHz no data
			SVTO	1237.0	1239.0	III		1	25	56	
			POTS	1256	1303	III	G	1	45	85	
			HOLL	1331.0	0145.0	CONT		1	26	169	
			HOLL	1501.0	1505.0	III		1	25	88	
			SGMR	1501.0	1505.0	III		1	30	60	
			SVTO	1501.0	1505.0	III		1	25	85	
			POTS	1501.6	1506.1	III	G	2	40X	85	
			POTS	1609.7	1609.9	DCIM		1	460	720	
	2100	2400	CULG	2100.0E	2400.0D	III	S,C	1	57X	180	
			LEAR	2309.0	0949.0	CONT		1	62	180	
10	0000	0710	CULG	0000.0E	0710.0D	III	S,C	1	57X	180	
			SVTO	0415.0	1344.0	CONT		1	25	180	
	0457	1717	ONDR								
	0515	1740	BLEN								
	0600	1200	IZMI	0600.0E	0950.0U	I	S	1	90	180	
			IZMI	0742.5	0742.6	III	B	1	40	65	
			IZMI	0751.2	0806.1	III	N	1	45	95	
			SVTO	0756.0	0758.0	III		1	25U	82U	
	0346	1837	POTS	0756.0	0815.2	III	GG,N	2	40X	85	100-400MHz no data
			IZMI	0756.1	0758.6	III	GG,FS	2	25X	150	
			LEAR	0757.0	0758.0	III		1	25	180	
			LEAR	0802.0	0803.0	III		1	25	180	
			SVTO	0802.0	0803.0	III		2	25U	82U	
			IZMI	0802.3	0803.6	III	GG	2	25X	95	
			IZMI	0808.7	0810.6	III	G	2	45	90	
			IZMI	0836.4	0836.9	III	GG	2	120	180	
			IZMI	0908.6	0908.7	III	B	1	45	65	
			POTS	0908.6	0908.8	III	B	1	45	80	
			IZMI	0950.0U	1200.0D	I	S	2	90U	270X	
			SVTO	1000.0	1000.0	III		1	25	65	
			POTS	1000.5	1000.8	III	B	1	40X	85	
			IZMI	1000.6	1000.8	III	B	1	25X	45U	
			POTS	1005.1	1127 U	III	GG,N	1	40X	85	
			IZMI	1110.6	1110.8	III	B	1	25X	45U	
			HOLL	1614.0	1615.0	III		1	25	87	
			SVTO	1614.0	1615.0	III		1	25	180	
			PALE	1645.0	0444.0	CONT		1	25	180	
			SGMR	1722.0	1748.0	III	N	1	30	55	
			HOLL	2042.0	2042.0	III		1	25	149	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
10			PALE	2042.0	2043.0	III		1	25	148	
			SGMR	2042.0	2042.0	III		1	30	55	
	2100	2400	CULG	2100.0E	2400.0D	III	S	1	57X	180	
			LEAR	2309.0	0950.0	CONT		1	25	180	
11	0000	0710	CULG	0000.0E	0710.0D	III	S	1	57X	180	
			CULG	0352.0	0353.0	III	G	2	57X	170	
			LEAR	0352.0	0352.0	III		2	25	180	
			PALE	0352.0	0352.0	III		1	25	180	
			SVTO	0549.0	1159.0	CONT		1	25U	180U	
	0600	1200	IZMI	0600.0E	1200.0D	I	S	1	60	270X	
			IZMI	0721.1	0723.2	III	G	2	40	170	
			IZMI	0740.1	0741.3	III	G	2	40	90	
	0347	1835	POTS	0740.1	0740.3	III	B	1	40X	85	100-400MHz no data
			IZMI	0755.6	0757.2	III	G	1	45	90	
			IZMI	0801.0U	0925.0U	III	N	1	45	90	
			POTS	0914.6	0914.8	III	B	2	40X	100U	
			ONDR	0925.4	0926.2	DCIM	G,W	1	969	2000X	
	0458	1715	ONDR	0925.5	0926.1	DCIM	G	1	2000X	4500X	
	0515	1740	BLEN	0925.5	0926.7	DCIM	C	2	800	4000X	
			IZMI	0954.8	0955.5	III	G	2	115	175	
			IZMI	0957.5	0957.7	III	B	1	25X	40	
			POTS	1010.5	1014.1	III	G	2	40X	90	
			IZMI	1011.8	1014.1	III	GG	2	25X	215	
			POTS	1034.4	1034.7	III	B	1	40X	80	
			IZMI	1034.5	1034.6	III	B	1	25X	45	
			POTS	1113.5	1113.7	III	B,U	1	40X	80	
			SVTO	1247.0	1626.0	CONT		1	110	180	
			POTS	1403.8	1412.3	III	GG,U	2	40X	90	
			HOLL	1404.0	1413.0	III		1	25	180	
			SGMR	1404.0	1409.0	III		2	30	60	
			SVTO	1404.0	1413.0	III		1	25	180	
			BLEN	1408.8	1411.4	III	GG	1	280	420	
			HOLL	1611.0	1615.0	III		1	25	180	
			SGMR	1615.0	1615.0	III		1	30	45	
			SVTO	1615.0	1615.0	III		1	25	136	
	2100	2400	CULG	2100.0E	2231.0	III	S,C	1	57X	180	
12			LEAR	0122.0	0123.0	III		1	25	180	
			PALE	0122.0	0122.0	III		1	25	180	
	0000	0710	CULG	0122.0	0124.0	III	G	1	57X	270	
	0053	0933	HIRA	0122.0	0123.0	III	B	1	60	220	
			CULG	0146.0	0146.0	III	B	1	57X	160	
			CULG	0301.0	0306.0	III	G	1	57X	120	
			LEAR	0301.0	0306.0	III		1	25	180	
			PALE	0301.0	0301.0	III		1	25	132	
	0500	1713	ONDR								
	0515	1740	BLEN								
			CULG	0604.0	0710.0D	III	N	1	57X	90	
			SVTO	0606.0	0811.0	III	N	1	25U	65U	
	0550	1200	IZMI	0606.4	0606.5	III	B	1	40	90	
			IZMI	0702.3	0702.6	III	B	1	55	85	
			IZMI	0711.5	0711.7	III	B	1	40	95	
			IZMI	0729.5	0729.8	III	G	1	45	95	
			IZMI	0733.0	0733.1	III	B	1	55	100	
			IZMI	0821.4	0821.5	III	G	1	45	95	
			IZMI	0856.7	0956.8	III	G	1	130	175	
			IZMI	0932.7	0938.9	III	GG	1	45	160	
	0349	1836	POTS	0934.3	0941.5	III	GG,RS	1	40X	85	100-400MHz no data
			SVTO	1030.0	1142.0	III	N	1	25	82	
			POTS	1049.8	1102.0	III	G,N	1	40X	80	
			IZMI	1050.0	1050.2	III	B	2	25X	45	
			POTS	1100.7	1101.1	DCIM		1	440	540	
			IZMI	1101.8	1102.3	III	B	1	25X	40	
			POTS	1139.7	1141.3	III	G	1	40X	85	
			SVTO	1419.0	1421.0	III		1	25	143	
			HOLL	1505.0	1507.0	III		1	25	121	
			SGMR	1505.0	1506.0	V		1	30	55	
			SVTO	1505.0	1507.0	III		1	25	130	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
12			POTS	1505.6	1507.6	III	G	2	40X	85	
			POTS	1505.8	1506.2	V	B	2	40X	60	
			HOLL	1533.0	1533.0	III		1	25	70	
			SVTO	1533.0	1533.0	III		1	25	79	
			HOLL	1727.0	1732.0	III		1	25	84	
			SGMR	1728.0	1732.0	III		1	30	75	
	2100	2400	CULG	2208.0	2210.0	UNCLF		1	130	170	
			HOLL	2218.0	2219.0	III		1	25	140	
			PALE	2218.0	2219.0	III		1	25	147	
	1952	2400	HIRA	2218.5	2223.0	III	G	1	25X	210	
			CULG	2219.0	2223.0	III	G	1	57X	180	
			LEAR	2307.0	0241.0	CONT		1	75	180	
			CULG	2308.0	2341.0	III	S,C	1	57X	160	
13			LEAR	0103.0	0106.0	III		1	25	112	
			PALE	0104.0	0106.0	III		1	25	121	
	0000	0720	CULG	0104.0	0106.0	III	G	1	57X	100	
	0000	0932	HIRA	0106.0	0106.5	III	B	1	30	170	
			CULG	0147.0	0147.0	III	B	1	57X	90	
			LEAR	0210.0	0211.0	III		1	25	180	
			PALE	0210.0	0211.0	III		1	25	180	
			HIRA	0210.5	0212.0	III	G	1	25X	160	
			CULG	0211.0	0212.0	III	G	1	57X	150	
			PALE	0237.0	0239.0	III		1	25	129	
			CULG	0446.0	0446.0	III	B	1	57X	90	
	0501	1712	ONDR								
			LEAR	0554.0	0609.0	III	N	1	54	180	
			CULG	0555.0	0610.0	III	N	1	57X	170	
	0600	1200	IZMI	0603.3	0603.4	III	B	1	90	160	
			SVTO	0712.0	0715.0	V		2	25	180	
	0515	1740	BLEN	0712.3	0714.5	III	GG	2	130	380	
			IZMI	0712.7	0714.8	III	GG,C	2	25X	245	
	0350	1832	POTS	0712.8	0719.2	III	GG	3	40X	90	100-400MHz no data
			CULG	0713.0	0715.0	III	G	3	57X	200	
			HIRA	0713.0	0720.0	III	G	2	25X	310	
			LEAR	0713.0	0719.0	III		2	25	180	
			IZMI	0718.6	0719.8	III	GG	2	25	270X	
			CULG	0719.0	0720.0	III	G	2	57X	180	
			SVTO	0719.0	0719.0	III		1	25	180	
			IZMI	0732.4	0732.5	III	G,FS	1	50	90	
			IZMI	0741.0	0741.2	III	B	1	45	65	
			HIRA	0746.0	0747.0	III	G	1	60	230	
			LEAR	0746.0	0747.0	III		1	62	180	
			SVTO	0746.0	0746.0	III		1	40U	126U	
			IZMI	0746.2	0747.2	III	GG,C	2	45	270X	
			POTS	0746.3	0747.0	III	G	1	40X	80	
			LEAR	0830.0	0836.0	III		1	25	180	
			SVTO	0830.0	0836.0	III		1	25	180	
			HIRA	0830.5	0836.5	III	G	1	50	170	
			IZMI	0830.7	0831.8	III	GG	1	25X	160	
			POTS	0830.7	0831.5	III	G	2	40X	90	
			IZMI	0836.4	0836.6	III	G	2	40	130	
			LEAR	0848.0	0902.0	III	N	1	56	180	
			SVTO	1144.0	1148.0	III		1	73U	180U	
			IZMI	1144.2	1144.6	III	GG	2	95U	270X	
			IZMI	1146.6	1146.7	III	G	1	90U	270X	
			IZMI	1148.2	1149.4	III	GG	2	90	270X	
			SVTO	1241.0	1403.0	III	N	1	25U	180U	
			POTS	1256.6	1302.3	III	G,N	1	40X	85	
			HOLL	1449.0	1450.0	III		1	25	64	
			SVTO	1449.0	1450.0	III		1	25	65	
			HOLL	1505.0	1506.0	III		1	25	140	
			SGMR	1505.0	1506.0	III		1	30	55	
			SVTO	1505.0	1506.0	III		1	25	180	
			BLEN	1505.2	1507.1	III	GG,C	2	100X	4000X	
			POTS	1505.3	1507.2	III	G	2	40X	90	
			POTS	1505.6	1506.2	DCIM		2	400U	800X	
			HOLL	1539.0	1539.0	III		1	25	63	
			SVTO	1539.0	1539.0	III		1	25	73	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
13			POTS	1706.7	1707.6	III	B	1	40X	75	
			HOLL	1743.0	2328.0	III	N	1	25	85	
			PALE	1754.0	0447.0	CONT		1	25	180	
			HOLL	1803.0	2053.0	CONT		1	25	84	
			HOLL	1852.0	1853.0	III		1	25	162	
	1953	2400	HIRA								
	2100	2400	CULG	2115.0	2123.0	III	GG	1	57X	150	
			CULG	2119.0	2400.0D	III	N	1	57X	160	
			LEAR	2352.0	0951.0	CONT		1	25	180	
14	0000	0720	CULG	0000.0E	0026.0	III	N	1	57X	180	
			LEAR	0017.0	0018.0	III		1	25	180	
	0000	0931	HIRA	0017.5	0018.0	III	B	1	25X	320	
			CULG	0057.0	0302.0	III	N	1	57X	180	
			LEAR	0057.0	0213.0	III	N	1	25	180	
			HIRA	0130.5	0142.5	III	G	1	25X	240	
			HIRA	0155.0	0158.0	III	G	1	25X	140	
			CULG	0157.0	0159.0	III	G	2	57X	160	
			LEAR	0157.0	0208.0	II		3	25	157	ESS 0506
			CULG	0158.0	0206.0	II	FN	3	57X	80	
			CULG	0158.0	0209.0	II	SH	3	60	170	FLA ESS 400
			HIRA	0158.0	0206.0	II		3	25X	140	
			PALE	0158.0	0217.0	II		2	25	29	ESS 0606
			PALE	0159.0	0205.0	V		3	25	144	
			LEAR	0300.0	0304.0	III		1	25	180	
			CULG	0304.0	0304.0	III	G	2	57X	170	
			HIRA	0304.5	0305.0	III	B	2	25X	400	
			SVTO	0418.0	1729.0	CONT		1	25	180	
			LEAR	0419.0	0425.0	III		1	25	180	
			HIRA	0419.5	0425.5	III	G	1	25X	310	
			CULG	0420.0	0425.0	III	GG	1	57X	180	
			CULG	0532.0	0605.0	III	N	1	57X	180	
			SVTO	0534.0	0554.0	III	N	1	25	180	
			HIRA	0539.0	0554.0	III	G	2	30	210	
			LEAR	0539.0	0554.0	III	N	1	25	180	
	0352	0845	POTS	0542	0554	III	G,N	1	40X	90	100-400MHz no data
			CULG	0542.0	0545.0	III	G	2	57X	180	
			CULG	0553.0	0554.0	III	G	2	57X	180	
	0600	1200	IZMI	0604.6	0604.7	III	B	1	110	170	
			HIRA	0621.5	0622.0	III	B	1	240	610	
			POTS	0621.6	0622.0	DCIM		2	400U	640	
			IZMI	0621.9	0622.5	III	G	1	160	270X	
			CULG	0622.0	0622.0	III	B	1	100	540	
	0520	1730	BLEN	0622.0	0623.2	III	GG,RS,C	2	200	4000X	
			CULG	0644.0	0720.0D	III	N	1	57X	100	
			IZMI	0658.0	0658.1	III	B	1	45	65	
			IZMI	0720.7	0721.5	III	G,C	2	85	210	
			LEAR	0731.0	0734.0	III		1	25	180	
			SVTO	0731.0	0734.0	III		1	36	160	
			HIRA	0731.5	0734.0	III	G	2	50	130	
			IZMI	0731.6	0732.3	III	G,C	2	40	170	
			POTS	0731.8	0734.2	III	G,N	2	40X	90	
			IZMI	0733.9	0734.3	III	G	2	45	155	
			IZMI	0819.5	0819.6	III	B	1	45	95	
			BLEN	0837.7	0839.5	III	GG,RS,C	3	150	4000X	
			IZMI	0837.7	0839.4	III	GG	2	115	270X	
			ONDR	0838.2	0838.4	DCIM	G,W	1	800X	2000X	
	0502	1710	ONDR	0838.3	0838.4	DCIM	G	1	2000X	4500X	
			HIRA	0838.5	0839.0	III	B	1	110	900	
			POTS	0838.5	0838.7	DCIM		2	400U	800X	
			IZMI	0840.9	0842.4	III	G	2	95	160	
			IZMI	0844.5	0845.5	III	G	1	45	90	
			IZMI	0850.6	0853.4	III	G	1	45	90	
			ONDR	0901.0	0901.3	DCIM	G,W	1	1489	2000X	
			IZMI	0901.3	0901.5	III	G,RS	2	130	270X	
			IZMI	0904.2	0905.2	III	G	1	50	95	
			IZMI	0919.3	0919.5	III	B	1	95	145	
			IZMI	0922.1	0923.8	III	G	2	45	150	
			IZMI	0951.0	0951.8	III	G,C	2	55	175	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
14			IZMI	0952.6	0953.7	III	G	2	55	175	
			IZMI	1004.3	1004.4	III	B	1	55	65	
			BLEN	1004.7	1009.0	III	GG,RS	2	400	900	
			IZMI	1006.7	1006.8	III	B	2	230	270X	
			ONDR	1007.1	1008.4	DCIM	G,SP	2	800X	1058	
			IZMI	1143.6	1145.8	III	G	2	55	270X	
			IZMI	1151.7	1152.0	III	G	1	80	240	
			ONDR	1215.5	1217.4	DCIM	GG	2	800X	1939	
			BLEN	1216.0	1217.9	III	GG,RS,P	3	230	2300	
			SVTO	1407.0	1407.0	III		1	25	54	
			HOLL	1431.0	1434.0	III		1	25	180	
			SVTO	1432.0	1434.0	III		1	25	180	
			HOLL	1520.0	1957.0	III	N	1	25	129	
			SVTO	1520.0	1556.0	III	N	1	25	148	
			ONDR	1553.0	1556.5	DCIM	GG	1	800X	2000X	
			BLEN	1554.2	1555.9	DCIM	P,C	2	330	4000X	
			ONDR	1707.3	1707.5	DCIM	G	2	903	1288	
			PALE	1803.0	0447.0	CONT		1	25	180	
	2100	2400	CULG	2100.0E	2146.0	III	N	1	57X	180	
	1954	2400	HIRA	2108.5	2109.0	III	B	1	120	270	
			HOLL	2208.0	0134.0	III	N	1	25	70	
			HIRA	2241.0	2241.5	III	B	1	130	250	
			CULG	2307.0	2308.0	III	G	2	57X	170	
			HIRA	2307.0	2307.5	III	B	2	25X	200	
			LEAR	2307.0	0951.0	III	N	1	25	180	
			CULG	2318.0	2320.0	III	G	1	57X	180	
15	0000	0720	CULG	0013.0	0023.0	III	G	1	57X	180	
	0000	0930	HIRA	0016.0	0016.5	III	G	1	100	150	
			CULG	0100.0	0425.0	III	N	1	57X	180	
			HIRA	0109.5	0117.5	III	G	1	70	600	
			CULG	0112.0	0112.0	III	B	1	57X	1000	
			CULG	0303.0	0306.0	III	G	3	57X	200	
			HIRA	0303.0	0307.0	III	G	3	25X	210	
			LEAR	0303.0	0306.0	III		2	25	180	
			HIRA	0322.0	0342.5	III	G	1	40	250	
			SVTO	0419.0	1727.0	CONT		1	25	180	
			CULG	0455.0	0720.0D	III	N	1	57X	180	
	0600	1200	IZMI	0602.1	0602.3	III	B	1	50	90	
	0504	1709	ONDR	0604.0	0608.5	CONT		2	800X	2000X	
	0520	1730	BLEN	0604.0	0607.3	DCIM	C	3	700	4000X	
			IZMI	0618.3	0618.5	III	B	1	45	90	
			IZMI	0627.1	0627.2	III	B	1	70	120	
			IZMI	0631.8	0632.0	III	GG	1	140	270	
			SVTO	0635.0	0635.0	III		1	25	180	
			HIRA	0635.5	0636.0	III	B	1	50	240	
			IZMI	0635.7	0636.3	III	G	2	45	270X	
			IZMI	0655.4	0656.0	III	G	1	45	95	
			IZMI	0701.4	0701.5	III	B	1	45	95	
			IZMI	0705.3	0705.6	III	G,C	1	80	155	
			IZMI	0709.6	0709.6	III	G	1	120	170	
			IZMI	0751.1	0751.3	III	G	2	45	155	
	0354	0840	POTS	0751.1	0802.5	III	GG,N	3	40X	90	100-400MHz no data
			SVTO	0753.0	0802.0	III		2	25	180	
			HIRA	0753.5	0802.0	III	G	2	40	500	
			IZMI	0753.5	0756.2	III	GG	2	25X	270X	
			LEAR	0758.0	0759.0	III		2	25	180	
			IZMI	0758.2	0800.6	III	GG,C	2	25X	270X	
			IZMI	0802.2	0802.5	III	G	2	25X	95	
			HIRA	0834.0	0836.0	III	G	2	40	320	
			SVTO	0834.0	0835.0	III		2	25	180	
			BLEN	0834.4	0836.4	III	GG	2	150	500	
			IZMI	0834.4	0836.2	III	GG,C	2	25X	270X	
			POTS	0834.4	0836.2	III	GG,N	3	40X	90	
			HIRA	0846.5	0847.0	III	B	1	110	300	
			IZMI	0846.5	0847.5	III	GG	2	60	270X	
			IZMI	0856.4	0857.8	III	G	1	40	65	
			IZMI	0907.8	0908.6	III	GG,C	2	80	270X	
			IZMI	0911.4	0911.5	III	B,HARM	1	50	175	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
15			IZMI	0922.1	0927.4	III	GG	1	45	210	
			IZMI	1001.4	1001.5	III	B	1	55	90	
			BLEN	1011.9	1012.7	III	GG	2	150	400	
			IZMI	1011.9	1012.8	III	GG	2	55	270X	
			IZMI	1058.4	1058.4	III	B	2	80	150	
			IZMI	1131.2	1132.0	III	G	1	30	65	
			IZMI	1145.6	1147.8	III	G	1	25X	65	
			IZMI	1155.7	1155.8	III	B	1	25X	65	
			HOLL	1332.0	1334.0	III		1	25	149	
			BLEN	1345.7	1346.0	III	G	1	200	400	
			HOLL	1434.0	2343.0	III	N	1	25	144	
			PALE	1953.0	0000.0	CONT		1	25	180	
	1955	2400	HIRA	2024.5	2025.0	III	B	2	50	300	
	2100	2400	CULG	2100.0E	2400.0D	III	N	1	57X	180	
			LEAR	2305.0	0751.0	CONT		1	76	180	
			HIRA	2329.0	2329.5	III	B	2	30	70	
			LEAR	2329.0	2329.0	III		1	25	180	
16	0000	0720	CULG	0000.0E	0425.0	III	N	1	57X	180	
			CULG	0128.0	0155.0	I	S,C	1	80	170	
			CULG	0506.0	0720.0D	III	N	1	57X	90	
	0356	0846	POTS	0550.5	0551.2	DCIM		2	400U	530	100-400MHz no data
	0520	1730	BLEN	0550.5	0650.0	DCIM	S,P	3	100X	4000X	
			CULG	0551.0	0551.0	III	G	1	380	500	
			CULG	0552.0	0554.0	II	FN	1	57X	90	
			CULG	0552.0	0554.0	II	SH	3	90	180	ESS 1700
			LEAR	0552.0	0554.0	II		1	100	180	ESS 1249
			SVTO	0552.0	0555.0	III		1	25	180	
			SVTO	0552.0	0555.0	III		1	63	180	
			SVTO	0552.0	0555.0	II		2	63	180	ESS 1454
	0000	0929	HIRA	0552.0	0554.5	II		3	90	190	
			CULG	0553.0	0555.0	III	G	1	57X	170	
			IZMI	0600.0E	1132.0U	III	N	1	25X	95U	
	0600	1335	IZMI	0600.0E	0800.0U	I	N	1	45	270X	
	0505	1707	ONDR	0610.1	0650.4	DCIM	GG	2	800X	2000X	
			IZMI	0631.6	0637.7	III	GG	2	25X	155	
			CULG	0632.0	0638.0	III	G	1	57X	150	
			HIRA	0632.0	0638.0	III	G	1	30	140	
			SVTO	0632.0	0633.0	III		1	25	134	
			POTS	0632.2	0633.2	III	G	1	40X	90	
			BLEN	0708.4	0737.7	DCIM	S,P	3	600	4000X	
			ONDR	0708.4	0734.4	DCIM	G	1	800X	2000X	
			ONDR	0719.3	0729.5	CONT		1	2000X	4500X	
			IZMI	0725.5	0725.7	III	B	2	45	95	
			POTS	0725.5	0735.0	III	G,N	1	40X	80	
			IZMI	0734.6	0735.0	III	G	2	40	95	
			IZMI	0801.7	0808.7	III	GG	1	40	95	
			LEAR	0804.0	0804.0	III		1	82	110	
			POTS	0806.6	0806.8	III	B	1	40X	80	
			IZMI	0834.0	0840.0	III	GG	2	30	160	
			POTS	0834.0	0842.7	III	G,N	1	40X	80	
			LEAR	0836.0	0836.0	III		1	40	157	
			SVTO	0836.0	0836.0	III		1	25U	54U	
			HIRA	0836.5	0837.0	III	B	1	50	200	
			SVTO	0842.0	1035.0	III	N	1	25	180	
			IZMI	0913.5	0915.5	III	G,C	2	25X	170	
			IZMI	0937.0	0937.2	III	B	2	45	95	
			IZMI	1007.0	1007.8	III	G	2	25X	180	
			IZMI	1015.8	1016.1	III	B	2	25X	155	
			SVTO	1016.0	1205.0	CONT		1	25	180	
			IZMI	1031.3	1031.6	III	B,U	2	45	90	
			IZMI	1106.6	1117.9	III	GG,FS	2	45	160	
			IZMI	1127.6	1128.0	III	B	2	25X	95	
			ONDR	1132.1	1148.3	DCIM	GG	2	2000X	4500X	
			ONDR	1132.1	1148.4	DCIM	GG,SP	2	800X	2000X	
			BLEN	1132.3	1145.5	DCIM	S,P	3	130	4000X	
			IZMI	1133.6	1141.6	III	GG,C	2	55	270X	
			IZMI	1135.1	1136.7	III	GG,C	2	55	270X	
			IZMI	1142.7	1143.3	III	GG,FS	2	25X	270X	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
16			SGMR	1143.0	1205.0	III	N	2	30	75	
			IZMI	1144.1	1147.3	II		2	45U	65U	
			IZMI	1145.3	1150.3	III	GG,FS	2	25X	270X	
			SVTO	1149.0	1205.0	III	N	2	25	180	
			ONDR	1150.4	1318.1	DCIM	GG	3	2000X	4500X	
			IZMI	1150.8	1156.0	I	N	1	45	270X	
			IZMI	1152.4	1156.1	III	N	2	25X	160	
			ONDR	1155.0	1417.3	DCIM	GG,SP	3	800X	2000X	
			IZMI	1156.0	1335.0U	I	S,C	2	45U	270X	
			IZMI	1156.6	1159.5	III	GG,FS	2	25X	270X	
			IZMI	1200.5	1201.8	III	G,C	2	25X	85	
			IZMI	1202.1	1202.5	III	G	2	25X	130	
			IZMI	1203.1	1215.8	III	GG,FS	2	25X	270X	
			IZMI	1204.6	1335.0U	CONT	GG,FS	2	45U	270X	
			IZMI	1205.0	1212.5U	IV		2	25X	160	
			SGMR	1205.0	2323.0	IV		3	30	80	
			SVTO	1205.0	1726.0	IV		3	25	180	
			BLEN	1205.8	1317.0	II		3	100X	600	
			SVTO	1206.0	1224.0	II		3	25	180	ESS 1836
			BLEN	1208.8	1317.0	DCIM	P,C,S	3	100X	4000X	
			IZMI	1215.4	1335.0U	III	S	2	25X	270X	
			SVTO	1244.0	1251.0	II		2	111U	180U	ESS 0253
			IZMI	1307.9	1308.0U	III	G	2	25X	270X	
			PALE	1627.0	0000.0	CONT		2	25	180	
			HOLL	1830.0	1834.0	III		1	25	141	
			PALE	1953.0	0446.0	CONT		1	25	180	
	2050	2400	CULG	2050.0E	2245.0U	IV	FS	3	57X	280	
			CULG	2220.0U	2400.0D	III	S,C	2	57X	180	
	1956	2400	HIRA	2226.5	2230.0	III	G	1	25X	70	
			HOLL	2228.0	2238.0	III		1	25	134	
			LEAR	2304.0	0856.0	III	N	1	25	180	
			LEAR	2304.0	0952.0	IV		2	25	180	
			HOLL	2322.0	0140.0	III	N	1	25	170	
17	0000	0720	CULG	0000.0E	0720.0D	III	S,C	2	57X	180	
	0000	0928	HIRA	0116.5	0118.0	III	G	1	25X	100	
	0358	0800	POTS	0402 U	0800 U	I	S,N,DC	2	70	420	100-200MHz no data
			IZMI	0552.0E	1200.0D	III	N	1	25X	95U	
	0552	1200	IZMI	0552.0E	1200.0D	I	S,C	2	45U	270X	
			POTS	0610.9	0611.0	III	B,W	1	40X	60	
	0525	1730	BLEN	0618.0	0619.4	III	C,S	2	100X	4000X	
			HIRA	0618.5	0619.0	III	B	1	25X	100	
			IZMI	0618.5	0619.3	III	G,C	2	45	270X	
			BLEN	0636.0	0640.4	III	C,S	2	200	1500	
			HIRA	0636.0	0640.0	III	G	1	25X	200	
			POTS	0636.0	0654	III	GG,U,N	2	40X	400	
			IZMI	0636.1	0640.1	III	GG	2	25X	270X	
	0507	1705	ONDR	0636.1	0639.0	DCIM	G	1	800X	1423	
			POTS	0713.4	0713.7	DCIM		1	460	730	
			POTS	0723	0758 U	III	GG,RS	2	40X	85	
			POTS	0749.9	0750.1	DCIM		1	460	770	
			IZMI	0757.1	0757.9	III	G	2	25X	45	
			IZMI	0805.6	0809.7	III	GG,FS	2	40	95	
			IZMI	0825.5	0827.8	III	GG	2	40	95	
			ONDR	0856.4	0856.5	DCIM	G	1	2000X	4471	
			ONDR	0856.4	0857.0	DCIM	G	1	809	2000X	
			BLEN	0856.5	0857.2	II	C	2	130	4000X	
			IZMI	0856.6	0857.1	III	GG	2	120	270X	
			SVTO	0902.0	1437.0	III	N	2	25	180	
			IZMI	0916.2	0921.8	III	GG	2	25X	100	
			IZMI	0931.5	0932.2	III	G	2	25X	95	
			IZMI	0942.2	0947.9	III	GG	2	25X	130	
			IZMI	0947.6	0947.7	III	G	2	180	250	
			IZMI	1005.7	1006.3	III	GG	2	25X	270X	
			IZMI	1009.3	1012.3	III	G	2	25X	190	
			BLEN	1018.4	1019.7	III	GG,RS	2	100X	3200	
			IZMI	1018.4	1119.6	III	GG	2	25X	270X	
			IZMI	1131.5	1133.2	I	GG,DC	2	150	215X	
			SGMR	1137.0	1435.0	III	N	2	30	80	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
17			SGMR	1149.0	2322.0	CONT		2	30	80	
			HOLL	1329.0	0100.0	III	N	1	25	174	
			HOLL	1330.0	0130.0	IV		1	25	157	
			SGMR	1337.0	1435.0	III	N	2	30	80	
			BLEN	1402.6	1450.0	DCIM	P	2	100X	4000X	
			ONDR	1431.3	1450.2	DCIM	GG,SP,FS	2	800X	2000X	
			PALE	1639.0	0445.0	IV		1	25	180	
	1957	2400	HIRA	2001.0	2002.0	III	B	3	25X	210	
	2050	2400	CULG	2050.0E	2400.0D	III	S,C	2	57X	180	
			LEAR	2304.0	0952.0	CONT		1	25	180	
			CULG	2323.0	2323.0	III	B	2	57X	250	
			HIRA	2323.0	2323.5	III	B	1	25X	280	
			LEAR	2323.0	2323.0	III		1	25	180	
18	0000	0720	CULG	0000.0E	0720.0D	III	S,C	2	57X	180	
			CULG	0005.0	0007.0	III	G	3	57X	170	
			LEAR	0005.0	0008.0	III		2	25	180	
	0000	0926	HIRA	0005.0	0009.0	III	G	1	25X	420	
			HIRA	0142.0	0142.5	III	B	1	200		
			CULG	0143.0	0143.0	III	B	1	57X	520	
			HIRA	0154.5	0155.0	III	B	1	220		
			CULG	0155.0	0155.0	III	B	1	57X	520	
			CULG	0229.0	0230.0	III	G	1	57X	500	
			HIRA	0229.0	0229.5	III	B	1	110	520	
			CULG	0328.0	0333.0	III	G	3	57X	660	
			HIRA	0328.0	0345.0	III	G	1	25X	1200	
			LEAR	0330.0	0332.0	III		1	25	180	
			CULG	0342.0	0342.0	III	B	1	57X	1300	
			HIRA	0346.0	0349.0	II		1	40	110	
			LEAR	0346.0	0349.0	II		1	38	99	ESS 0693
	0400	0853	POTS	0409 U	0715 U	I	S,N,DC	2	40X	420	100-200MHz no data
			SVTO	0422.0	1723.0	IV		1	25	180	
			POTS	0528.0	0528.3	III	G	2	200U	320	
			HIRA	0542.5	0547.0	III	G	1	50	300	
			POTS	0548.5	0614 U	III	GG,N	1	40X	85	
			IZMI	0616.0E	1200.0D	III	N	1	25X	95U	
	0616	1200	IZMI	0616.0E	1200.0D	I	S,C	2	45U	270X	
			POTS	0618.9	0619.5	III	G	3	200U	400	
			HIRA	0633.0	0634.0	III	B	1	200	600	
	0525	1730	BLEN	0633.3	0634.3	III	GG	2	200	600	
			IZMI	0633.8E	0634.1	III	G	2	185	270X	
			CULG	0634.0	0634.0	III	B	1	57X	540	
			POTS	0635.9	0636.9	DCIM		2	250	400	
			POTS	0704.4	0707.5	III	G	2	200U	400	
			POTS	0715 U	0853 U	I	S,N	1	40X	90	
			IZMI	0721.7	0723.9	III	G	2	225	270X	
	0508	1703	ONDR	0729.5	0733.4	CONT		1	3016	4500X	
			POTS	0730.5	0735.0	III	GG	2	40X	85	
			SVTO	0740.0	0747.0	III		2	25	180	
			LEAR	0743.0	0745.0	III		2	25	180	
			IZMI	0743.3	0747.1	III	GG	2	25X	190	
			HIRA	0743.5	0745.5	III	G	1	30	190	
			POTS	0830	0839	III	GG	1	40X	85	
			SVTO	0834.0	0835.0	III		1	25	180	
			IZMI	0834.2	0835.1	III	G	2	25X	90	
			IZMI	0921.5	0921.6	III	B	2	40	95	
			BLEN	1000.6	1008.7	III	GG,C	2	150	4000X	
			IZMI	1002.1	1010.2	III	GG	2	25X	270X	
			ONDR	1002.4	1003.5	DCIM	GG	2	2000X	4236	
			SVTO	1004.0	1010.0	III		2	25	180	
			IZMI	1015.9	1021.9	III	GG,C	2	25X	270X	
			SVTO	1016.0	1022.0	III		2	25	180	
			IZMI	1022.5	1023.4	III	G	2	40	270X	
			ONDR	1036.3	1038.1	DCIM	GG,SP	2	800X	1142	
			IZMI	1036.9	1043.7	III	GG	2	25X	95X	
			IZMI	1055.0	1055.7	III	G,C	1	40	240	
			IZMI	1119.0	1119.5	III	G	1	200	270X	
			IZMI	1142.7	1145.4	III	GG	2	25X	175	
			BLEN	1148.7	1149.2	III	G	1	230	480	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
18			IZMI	1148.9	1149.1	III	G	2	45	270X	
			SGMR	1242.0	1243.0	III		1	30	80	
			SVTO	1242.0	1242.0	III		2	25	180	
			HOLL	1327.0	1329.0	III		1	25	149	
			SVTO	1327.0	1329.0	III		2	25	180	
			ONDR	1345.0	1346.5	DCIM	GG	1	2000X	4500X	
			HOLL	1358.0	1358.0	III		1	25	167	
			SGMR	1358.0	2142.0	III	N	2	30	80	
			SVTO	1358.0	1401.0	III		1	25	180	
			HOLL	1423.0	0140.0	III	N	1	25	168	
			SVTO	1423.0	1723.0	III	N	2	25	180	
			BLEN	1432.9	1433.7	III	G	1	100X	520	
			PALE	1936.0	2138.0	CONT		1	25	180	
			HOLL	1949.0	2136.0	CONT		1	84	180	
	1957	2400	HIRA	2034.0	2034.5	III	B	1	25X	110	
	2050	2400	CULG	2050.0E	2400.0D	III	S,C	2	57X	180	
			HIRA	2110.0	2122.5	III	G	3	25X	2000	
			CULG	2111.0	2121.0	III	GG	3	57X	1600	
			CULG	2124.0	2126.0	II	FN	3	57X	70	
			CULG	2124.0	2130.0	II	SH	3	57X	140	FLA ESS 1000
			HOLL	2124.0	2155.0	II		1	28	180	ESS 0825
			PALE	2124.0	2136.0	II		1	25	180	ESS 0860
			SGMR	2124.0	2138.0	II		2	30	80	ESS 1000
			HIRA	2124.5	2135.0	II		3	25X	130	
			CULG	2135.0	2400.0D	CONT		3	60	110	
			HOLL	2136.0	0140.0	IV		1	25	180	
			PALE	2137.0	0444.0	IV		1	25	180	
			HIRA	2142.0	2142.5	III	B	1	25X	80	
			SGMR	2142.0	2320.0	IV		2	30	80	
			CULG	2144.0	2148.0	III	G	1	330	530	
			HIRA	2159.5	2203.0	III	G	2	25X	500	
			CULG	2200.0	2200.0	III	B	3	57X	530	
			CULG	2235.0	2236.0	III	G	3	57X	130	
			HIRA	2235.5	2236.0	III	B	1	25X	330	
			HIRA	2249.0	2250.0	III	B	3	25X	130	
			CULG	2250.0	2250.0	III	B	3	57X	150	
			LEAR	2303.0	0953.0	IV		2	25	180	
			CULG	2311.0	2311.0	III	B	3	57X	770	
			HIRA	2311.0	2312.5	III	B	3	25X	1000	
			LEAR	2311.0	2315.0	III		2	25	180	
			CULG	2315.0	2315.0	III	B	3	57X	260	
			HIRA	2315.0	2315.5	III	B	2	25X	270	
19	0000	0720	CULG	0000.0E	0133.0	III	S,C	2	57X	180	
			CULG	0050.0	0103.0	III	G	2	120	280	
	0000	0925	HIRA	0100.5	0103.5	III	G	1	25X	60	
			CULG	0105.0	0107.0	III	G	1	120	280	
			LEAR	0115.0	0116.0	III		2	25	180	
			CULG	0116.0	0116.0	III	B	3	57X	90	
			HIRA	0116.5	0117.0	III	B	2	25X	80	
			CULG	0133.0	0317.0	III	S,C	1	57X	180	
			CULG	0150.0	0150.0	III	B	2	57X	140	
			LEAR	0150.0	0150.0	III		2	25	180	
			HIRA	0150.5	0151.0	III	B	1	25X	180	
			CULG	0217.0	0218.0	III	G	2	57X	150	
			LEAR	0217.0	0218.0	III		2	25	180	
			HIRA	0217.5	0218.5	III	G	2	25X	160	
			LEAR	0301.0	0953.0	III	N	2	25	180	
			HIRA	0301.5	0302.0	III	B	1	25X	50	
			HIRA	0309.5	0310.0	III	B	1	25X	70	
			CULG	0317.0	0720.0D	III	S,C	2	57X	180	
			HIRA	0317.0	0325.0	III	G	1	25X	200	
			HIRA	0333.5	0334.5	III	G	1	25X	310	
			CULG	0347.0	0348.0	III	G	3	57X	110	
			HIRA	0347.0	0351.0	III	G	1	25X	100	
			HIRA	0406.0	0406.5	III	B	1	25X	60	
			SVTO	0423.0	1345.0	IV		1	25	180	
	0430	0649	POTS	0435 U	0649 U	I	S,N	2	70	350	100-200MHz no data
			POTS	0509.7	0633 U	III	GG,N	3	40X	240	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
19			HIRA	0517.5	0518.0	III	B	1	100	600	
			CULG	0518.0	0518.0	III	G	1	100	650	
			CULG	0525.0	0525.0	III	B	1	140	500	
			HIRA	0525.0	0525.5	III	B	1	120	600	
			IZMI	0600.0E	1200.0D	III	N	2	25X	180U	
	0600	1200	IZMI	0600.0E	1200.0D	I	S,C	2	45U	270X	
			IZMI	0614.5	0615.7	III	G	2	25X	90	
			SVTO	0615.0	0625.0	III	N	2	25	180	
			IZMI	0624.3	0628.1	III	GG	2	25X	210	
			HIRA	0624.5	0626.0	III	G	1	25X	200	
			IZMI	0709.8	0710.2	III	G,C	2	25X	100	
			IZMI	0718.2	0718.4	III	G	2	40	125	
			IZMI	0721.6	0850.0U	III	S	2	25X	270X	
			SVTO	0801.0	0810.0	III		2	25	180	
			HIRA	0801.5	0802.0	III	B	1	25X	110	
			IZMI	0801.5	0807.8	III	GG	2	25X	270X	
	0525	1730	BLEN	0802.1	0822.3	III	GG	2	100X	500	
			HIRA	0808.5	0810.5	III	G	2	25X	200	
			IZMI	0808.6	0811.0	III	GG,C	2	25X	270X	
			IZMI	0939.4	0939.8	III	G	2	25X	95	
			IZMI	1005.0	1009.0	III	G	2	25X	140	
			IZMI	1020.1	1020.5	III	G	2	25X	95	
			IZMI	1025.6	1026.5	III	G	2	25X	95	
			SVTO	1026.0	1035.0	III		3	25	180	
			IZMI	1029.0	1039.6	III	GG,C	2	25X	270X	
			SGMR	1030.0	2319.0	III	N	2	30	80	
			BLEN	1030.1	1033.9	III	GG,RS,C	3	100X	4000X	
	0509	1702	ONDR	1030.3	1034.1	DCIM	GG	2	2000X	4500X	
			ONDR	1030.5	1033.4	DCIM	GG	2	800X	2000X	
			IZMI	1045.5	1045.9	III	G	2	25X	160	
			IZMI	1050.5	1058.4	III	GG	2	25X	270	
			IZMI	1106.5	1108.0	III	G	2	25X	100	
			IZMI	1118.5	1127.1	III	GG	2	25X	100	
			SVTO	1233.0	1239.0	III		2	25	180	
			HOLL	1309.0	0109.0	III	N	1	25	180	
			SVTO	1403.0	1722.0	III	N	2	25	180	
			HOLL	1428.0	1545.0	CONT		1	25	180	
			HOLL	1428.0	2335.0	CONT		1	25	180	
			BLEN	1430.0	1440.5	DCIM	C,P	3	220	4000X	
			ONDR	1430.3	1439.4	DCIM	GG	2	800X	2000X	
			ONDR	1430.5	1443.5	DCIM	GG	1	2000X	4500X	
			SVTO	1434.0	1722.0	CONT		1	112U	180U	
			PALE	1717.0	1722.0	III		1	25	180	
			PALE	1735.0	1736.0	III		1	25	180	
	1958	2400	HIRA	2007.0	2112.0	III	G	3	25X	400	
	2050	2400	CULG	2050.0E	2400.0D	III	S,C	1	57X	180	
			CULG	2058.0	2112.0	III	GG	3	57X	800	
			CULG	2230.0	2230.0	III	B	2	57X	160	
			CULG	2256.0	2257.0	III	G	1	57X	270	
			HIRA	2256.0	2302.5	III	G	2	25X	260	
			CULG	2300.0	2302.0	III	G	3	57X	180	
			HIRA	2334.5	2338.0	III	G	1	25X	100	
			HIRA	2346.5	2349.5	III	G	2	25X	400	
			CULG	2347.0	2349.0	III	G	2	57X	130	
20	0000	0720	CULG	0000.0E	0340.0	III	S,C	1	57X	180	
			CULG	0134.0	0148.0	III	GG	3	57X	1200	
			LEAR	0134.0	0148.0	III	N	3	25	180	
	0000	0924	HIRA	0134.0	0149.0	III	G	3	25X	1600	
			LEAR	0207.0	0212.0	III		2	25	180	
			CULG	0208.0	0209.0	III	G	3	57X	160	
			HIRA	0208.0	0212.0	III	G	2	25X	270	
			CULG	0210.0	0210.0	III	G	1	57X	1000	
			CULG	0211.0	0212.0	III	G	2	57X	130	
			CULG	0247.0	0350.0	I	S	1	100	180	
			CULG	0341.0	0343.0	III	G	2	57X	120	
			HIRA	0341.0	0343.0	III	G	2	25X	120	
			CULG	0411.0	0421.0	III	GG	1	57X	150	
			CULG	0435.0	0436.0	III	G	2	57X	150	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
20			SVTO	0435.0	0513.0	III	N	1	25	180	
			HIRA	0435.5	0436.0	III	B	1	30	150	
			CULG	0445.0	0541.0	III	N	1	57X	180	
			HIRA	0453.0	0453.5	III	B	1	30	150	
			HIRA	0504.0	0504.5	III	B	1	50	200	
			LEAR	0510.0	0513.0	III		1	25	180	
			SVTO	0510.0	0511.0	III		2	25	180	
			CULG	0511.0	0511.0	III	G	2	57X	180	
			HIRA	0511.0	0514.0	III	G	2	30	300	
			CULG	0514.0	0514.0	III	B	2	57X	180	
			CULG	0529.0	0643.0	I	S	1	120	260	
	0530	1720	BLEN	0530.0X	1720.0X	I	DC	3	150	400	
			IZMI	0550.0E	1200.0D	III	N	1	25X	95	
	0550	1202	IZMI	0550.0E	1200.0D	I	N	1	120	270X	
			IZMI	0623.8	0628.0	III	GG	1	45	270X	
			CULG	0624.0	0720.0D	III	N	1	57X	180	
			SVTO	0629.0	0712.0	III	N	1	25	180	
			HIRA	0636.0	0642.0	III	G	1	50	300	
			IZMI	0636.0	0648.1	III	GG	2	30	270X	
			CULG	0638.0	0642.0	III	G	2	57X	280	
			IZMI	0641.0	0642.1	III	GG,FS	2	40	270X	
			IZMI	0651.3	0654.8	III	G	2	25X	155	
			SVTO	0653.0	0653.0	V		2	25	47	
			IZMI	0706.9	0709.3	III	GG	2	25X	270X	
			CULG	0707.0	0712.0	III	GG	2	57X	300	
			HIRA	0707.0	0712.0	III	G	2	40	330	
			IZMI	0709.5	0712.1	III	GG	2	25X	270X	
			IZMI	0754.0	0836.0U	I	S	2	110	270X	
			SVTO	0757.0	0830.0	CONT		1	113U	180U	
			SVTO	0824.0	0827.0	V		3	25	180	
			BLEN	0824.7	0826.5	III	GG,C	3	140	4000X	
			IZMI	0824.8	0830.3	III	GG,FS	2	25X	270X	
			HIRA	0825.0	0827.0	III	B	3	25X	420	
			LEAR	0825.0	0827.0	V		2	25	180	
			ONDR	0825.1	0826.3	DCIM	G	2	800X	2000X	
	0510	1700	ONDR	0825.1	0826.4	DCIM	G	2	2000X	4500X	
			IZMI	0825.6	0828.3U	V		2	25X	90	
			SVTO	0829.0	0833.0	III		2	25	147	
			IZMI	0831.2	0834.0	III	GG	2	25X	270X	
			HIRA	0831.5	0833.0	III	G	1	40	140	
			SVTO	0844.0	0849.0	III		1	25	180	
			IZMI	0845.1	0849.4	III	GG,FS	2	25X	270	
			BLEN	0845.2	0849.4	III	GG,C	2	140	4000X	
			HIRA	0845.5	0846.0	III	B	1	50	280	
			SVTO	0933.0	1006.0	III	N	1	25	133	
			LEAR	0935.0	0935.0	III		1	25	180	
			SVTO	0935.0	0935.0	III		2	25	180	
			IZMI	0935.2	0936.2	III	G,C	2	25X	270X	
			IZMI	0939.7	0944.6	III	G	2	25X	150	
			IZMI	0945.7	0947.4	III	G,FS	2	25X	215	
			IZMI	0950.9	0951.7	III	GG	1	35	270X	
			IZMI	1005.0	1007.6	III	GG	1	25X	95	
			IZMI	1024.0	1030.0	III	GG,C	2	25X	270X	
			SVTO	1028.0	1030.0	III		2	25	180	
			IZMI	1106.5	1107.1	III	G	1	25X	45	
			IZMI	1111.0	1111.1	III	B	2	165	270X	
			IZMI	1115.0	1117.9	III	GG	2	100	270X	
			IZMI	1118.5	1120.4	I	GG,DC	2	150	190	
			IZMI	1120.5	1121.9	III	G	1	45	95	
			IZMI	1124.2	1125.0	III	G	2	50	180	
			IZMI	1127.1	1130.8	III	G	2	30	95	
			IZMI	1131.8	1133.3	III	GG,C	2	25X	270X	
			SGMR	1132.0	1139.0	III		3	30	80	
			SVTO	1132.0	1133.0	III		2	25U	85U	
			BLEN	1132.2	1139.4	III	GG	2	100X	1400	
			IZMI	1135.8	1136.0	III	G	1	45	155	
			SVTO	1138.0	1139.0	III		3	25	180	
			IZMI	1138.7	1139.3	III	GG	2	25X	270X	
			IZMI	1138.8	1139.7	V	G	2	25	160	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
20			IZMI	1156.7	1157.2	III	G,C	2	25X	150	
			SGMR	1157.0	1201.0	III		2	30	80	
			SVTO	1201.0	1201.0	III		1	25U	84U	
			IZMI	1201.1	1201.6	III	G	2	25X	250	
			IZMI	1201.3	1201.6	V		2	45	75	
	1244	1818	POTS	1244 U	1818 U	I	S,N	2	60	380	100-200MHz no data
			SGMR	1245.0	2120.0	III	N	2	30	80	
			POTS	1303.3	1303.6	III	B	2	40X	100U	
			POTS	1319.8	1320.2	III	G	2	40X	100U	
			HOLL	1335.0	1343.0	III		1	25	160	
			SVTO	1341.0	1343.0	III		1	25U	84U	
			POTS	1341.5	1342.5	III	G	3	40X	90	
			SVTO	1405.0	1721.0	CONT		1	25	180	
			POTS	1406	1414	III	G,N	1	40X	85	
			HOLL	1422.0	0100.0	III	N	2	25	180	
			POTS	1423.6	1443.6	III	GG	3	40X	600	
			SVTO	1424.0	1437.0	III	N	2	25	180	
			BLEN	1426.4	1436.6	DCIM	S,P	3	100X	4000X	
			ONDR	1426.5	1432.1	DCIM	GG,FS	2	800X	2000X	
			ONDR	1427.1	1432.2	DCIM	G	1	2000X	4500X	
			SVTO	1510.0	1511.0	III		1	25U	83U	
			POTS	1510.3	1514.0	III	G,N	2	40X	85	
			SVTO	1600.0	1602.0	III		2	25U	82U	
			POTS	1600.3	1602.7	III	G	1	40X	85	
			PALE	1659.0	1700.0	III		1	25	180	
			SVTO	1659.0	1700.0	III		2	25	180	
			POTS	1659.4	1659.6	DCIM	RS	2	230	530	
			PALE	1755.0	1759.0	III		1	25	180	
			HOLL	1923.0	1925.0	V		1	25	180	
	1959	2400	HIRA	2018.5	2022.0	III	G	2	25X	210	
			HIRA	2039.0	2041.0	III	G	2	25X	160	
	2050	2400	CULG	2050.0E	2400.0D	III	S,C	1	57X	180	
			HIRA	2051.0	2057.5	III	G	1	25X	160	
			CULG	2052.0	2053.0	III	G	2	57X	170	
			CULG	2116.0	2117.0	III	G	2	57X	160	
			HIRA	2116.0	2121.0	III	G	3	25X	220	
			HOLL	2118.0	2120.0	III		2	25	167	
			PALE	2118.0	2120.0	III		3	25	180	
			SGMR	2118.0	2120.0	III		3	30	80	
			CULG	2119.0	2120.0	III	G	3	57X	180	
			HIRA	2226.0	2227.5	III	G	1	30	80	
			SGMR	2226.0	2226.0	III		1	30	60	
			HIRA	2245.0	2246.0	III	B	1	25X	260	
			LEAR	2301.0	0953.0	III	N	2	25	180	
			HIRA	2306.0	2324.0	III	G	3	25X	400	
			CULG	2310.0	2311.0	III	G	3	57X	330	
			CULG	2314.0	2316.0	III	G	3	57X	180	
			CULG	2337.0	2337.0	III	B	2	57X	180	
			HIRA	2337.0	2337.5	III	B	2	25X	190	
			LEAR	2343.0	0953.0	CONT		1	73	180	
21	0000	0720	CULG	0000.0E	0720.0D	III	S,C	1	57X	180	
			LEAR	0137.0	0142.0	III		3	25	180	
			PALE	0137.0	0142.0	III		3	25	180	
	0000	0922	HIRA	0137.5	0142.5	III	G	3	25X	600	
			CULG	0138.0	0142.0	III	GG	3	57X	1200	
			CULG	0154.0	0200.0	II	SH	1	57X	80	FLA ESS 450
			CULG	0349.0	0351.0	III	G	2	57X	180	
			HIRA	0349.5	0351.5	III	G	2	25X	160	
			CULG	0359.0	0403.0	III	G	1	57X	500	
			CULG	0408.0	0409.0	III	G	3	57X	180	
			HIRA	0408.0	0414.0	III	G	2	30	180	
			CULG	0413.0	0414.0	III	G	2	57X	180	
	0408	1815	POTS	0421 U	1815 U	I	S,N	2	200U	350	100-200MHz no data
			SVTO	0425.0	1201.0	III	N	2	25	180	
			CULG	0438.0	0438.0	III	G	2	57X	260	
			HIRA	0438.0	0438.5	III	B	1	30	210	
			POTS	0442.3	0443.0	III	G	2	40X	300	
			HIRA	0446.5	0449.0	III	G	1	30	200	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
21			CULG	0448.0	0448.0	III	B	1	57X	420	
			POTS	0452.3	0453.6	DCIM	U	2	230	570	
			HIRA	0455.0	0455.5	III	B	1	100	210	
			HIRA	0500.5	0501.0	III	B	1	30	110	
			CULG	0501.0	0501.0	III	B	3	57X	140	
			POTS	0505.9	0506.2	III	B	1	40X	100U	
	0512	1658	ONDR								
			POTS	0516.6	0516.7	DCIM		1	580	610	
			POTS	0525.6	0529.3	III	G	1	40X	80	
			LEAR	0529.0	0532.0	V		1	25	180	
			SVTO	0529.0	0534.0	III		2	25	180	
			HIRA	0529.5	0534.5	III	G	3	25X	750	
	0530	1720	BLEN	0531.5	0536.7	III	GG,C	3	100X	4000X	
			CULG	0532.0	0534.0	III	G	3	57X	700	
			POTS	0532.1	0532.7	DCIM		2	350	660	
			CULG	0534.0	0536.0	II	FN	1	120	180	ESS 450
			HIRA	0534.5	0536.0	II		1	120	340	
			CULG	0535.0	0536.0	II	SH	1	240	280	
			POTS	0536.3	0541.4	III	GG	3	40X	750	
			POTS	0541.3	0544	II		2	220	380	
			POTS	0541.7	0541.9	DCIM		2	340	630	
			IZMI	0600.0E	1200.0D	III	N	1	25X	95	
	0600	1200	IZMI	0600.0E	1200.0D	I	S,C	2	45	270X	
			IZMI	0603.5	0608.6	III	GG,C	2	25X	140	
			LEAR	0605.0	0607.0	V		1	25	139	
			HIRA	0605.5	0606.5	III	B	2	30	110	
			CULG	0606.0	0606.0	III	G	3	57X	150	
			POTS	0614.0	0615.6	III	G	2	40X	85	
			IZMI	0639.6	0640.0	III	G	2	25X	85	
			IZMI	0643.8	0645.8	III	G	1	40	95	
			POTS	0649.5	0649.7	III	G	1	40X	70	
			POTS	0706.1	0707.0	III	G	1	40X	90	
			IZMI	0745.2	0745.6	III	G,HARM	2	60	270X	
			BLEN	0752.3	0752.5	III	G	2	230	720	
			POTS	0758.0	0758.4	III	G	3	60	330	
			BLEN	0801.0	0821.5	III	GG	2	230	600	
			POTS	0805.2	0805.5	DCIM		3	230	620	
			IZMI	0808.2	0826.0U	III	N	1	25X	270X	
			IZMI	0819.3	0823.0	III	GG	2	25X	270X	
			POTS	0822.7	0822.8	DCIM		2	520	770	
			SVTO	0824.0	1201.0	CONT		1	29	164	
			POTS	0833.5	0837.3	III	G	3	40X	350	
			POTS	0833.6	0835.3	DCIM		2	230	530	
			POTS	0840	1233	III	GG,N	2	40X	85	
			IZMI	0842.5	0843.5	III	G	2	25X	95	
			IZMI	0855.6	0900.5	III	GG	2	25X	160	
			IZMI	0913.4	0913.8	III	B	2	25X	100	
			IZMI	0959.4	1013.6	III	GG	2	25X	175	
			IZMI	1024.6	1027.0	III	GG	2	25X	210	
			IZMI	1029.0	1040.0	III	GG	2	25X	170	
			BLEN	1030.0	1047.5	DCIM	P	2	240	1100	
			IZMI	1043.5	1044.4	III	G,C	2	45	250	
			POTS	1044.3	1120.5	III	GG,N	3	40X	85	
			POTS	1045.1	1110.5	DCIM		2	230	750	
			IZMI	1058.5	1059.1	III	G	2	30	240	
			IZMI	1111.7	1122.5	III	GG	2	25X	270X	
			SGMR	1112.0	1122.0	III		2	30	80	
			BLEN	1117.5	1125.3	III	GG,RS	3	100X	1400	
			IZMI	1130.5	1138.1	III	GG	2	25X	175	
			BLEN	1131.3	1143.4	DCIM	P	2	290	760	
			POTS	1133.8	1148.0	III	GG	3	40X	730	
			POTS	1134.7	1135.0	DCIM		2	460	800X	
			IZMI	1142.8	1148.4	III	GG	2	25X	160	
			SGMR	1149.0	1156.0	III		2	30	80	
			IZMI	1149.7	1152.5	III	GG,C	2	25X	175	
			BLEN	1149.9	1155.7	III	GG,RS	2	150	900	
			IZMI	1153.9	1155.9	III	GG	2	25X	250	
			POTS	1154.2	1206.8	DCIM		2	270	650	
			SGMR	1300.0	1306.0	III		2	30	80	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
21			POTS	1318.6	1318.8	DCIM		1	470	570	
			POTS	1326.9	1347.6	III	GG	2	40X	85	
			HOLL	1329.0	0140.0	CONT		1	110	180	
			HOLL	1340.0	0140.0	III	N	1	25	86	
			SVTO	1341.0	1719.0	CONT		1	25	180	
			SVTO	1341.0	1719.0	III	N	2	25	180	
			HOLL	1416.0	1417.0	III		2	25	146	
			SVTO	1417.0	1417.0	V		2	25	155	
			POTS	1442	1518	III	GG,N	2	40X	270	
			POTS	1544	1600	III	G,N	1	40X	85	
			BLEN	1700.5	1701.7	DCIM	C	3	700	4000X	
			BLEN	1720.3	1723.7	III	GG,RS,C	3	200	4000X	
			POTS	1759.8	1800.4	DCIM	RS	2	540	740	
			PALE	1851.0	1852.0	III		1	25	86	
			SGMR	1851.0	1852.0	III		2	30	80	
			SGMR	2001.0	2001.0	III		1	30	55	
			PALE	2002.0	2003.0	III		1	25	85	
	2000	2400	HIRA	2002.0	2003.0	III	B	1	25X	50	
			HIRA	2011.0	2012.5	III	B	1	25X	170	
			PALE	2011.0	2017.0	III		1	25	116	
			PALE	2059.0	2059.0	III		1	25	58	
	2050	2400	CULG	2059.0	2059.0	III	B	1	57X	90	
			CULG	2241.0	2242.0	III	G	1	57X	90	
			LEAR	2314.0	2314.0	III		1	65	180	
			CULG	2315.0	2315.0	III	B	1	57X	160	
			CULG	2336.0	2343.0	III	G	1	57X	160	
			LEAR	2336.0	0350.0	III	N	1	25	180	
			HIRA	2336.5	2342.0	III	G	1	25X	120	
			CULG	2346.0	2350.0	III	G	1	57X	340	
22	0000	0720	CULG	0012.0	0020.0	III	G	1	57X	90	
			LEAR	0042.0	0954.0	CONT		2	25	180	
			CULG	0044.0	0044.0	III	G	1	57X	90	
			CULG	0049.0	0132.0	I	S	1	130	180	
			CULG	0120.0	0227.0	III	N	1	57X	180	
			PALE	0127.0	0442.0	CONT		1	25	180	
	0000	0921	HIRA	0128.0	0131.0	III	G	1	25X	110	
			CULG	0130.0	0130.0	III	B	2	57X	180	
			CULG	0140.0	0140.0	III	B	1	140	740	
			HIRA	0140.0	0140.5	III	B	1	130	500	
			CULG	0151.0	0155.0	III	GG	3	57X	1300	
			HIRA	0151.0	0156.0	III	G	3	25X	280	
			PALE	0155.0	0208.0	II		1	25	180	ESS 0975
			CULG	0156.0	0159.0	II	FN	1	57X	80	
			CULG	0156.0	0202.0	II	SH	2	57X	160	FLA ESS 800
			HIRA	0156.0	0205.0	II		2	25X	200	
			CULG	0202.0	0203.0	III	G	3	57X	130	
			LEAR	0202.0	0208.0	II		2	25	154	ESS 1162
			CULG	0206.0	0214.0	III	G	2	57X	180	
			HIRA	0206.0	0214.0	III	G	2	30	190	
			LEAR	0209.0	0218.0	IV		1	25	180	
			CULG	0210.0U	0358.0D	IV	FS	1	57X	280	
			HIRA	0247.5	0248.0	III	B	1	40	200	
			CULG	0248.0	0248.0	III	B	2	57X	180	
			CULG	0358.0E	0720.0D	IV	FS	2	57X	280	
			SVTO	0426.0	1227.0	CONT		2	25	180	
	0513	1656	ONDR								
	0559	1806	POTS	0559 U	1620 U	I	S,N,DC	2	200U	420	100-200MHz no data
			IZMI	0600.0E	1200.0D	I	S,C	2	45U	270	
			IZMI	0600.0E	1200.0D	III	N	1	25X	95	
			IZMI	0654.1	0654.5	III	G	2	165	270X	
			POTS	0732.3	0732.8	DCIM		2	270	420	
			POTS	0800	0809	III	G	2	40X	300	
	0530	1720	BLEN	0802.5	0805.3	III	GG	2	130	600	
			IZMI	0802.6	0807.5	III	GG	2	25X	210	
			HIRA	0846.0	0846.5	III	B	1	120	320	
			IZMI	0846.1	0846.6	III	G	2	140	270X	
			IZMI	0856.6	0856.7	UNCLF		2	170	190	
			POTS	0906.0	1000	III	GG,N,RS	2	40X	300	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
22			IZMI	0906.3	0907.8	III	G	2	25X	175	
			IZMI	0918.6	0919.0	III	G,C	2	25X	270X	
			IZMI	0931.0	0931.7	III	G	2	25X	175	
			IZMI	0937.1	0937.7	III	G	2	25X	145	
			IZMI	0937.7	0938.0	V		2	25X	70	
			SVTO	1047.0	1051.0	III		2	25	49	
			IZMI	1047.5	1048.4	III	G	2	25X	90	
			POTS	1048.2	1127	III	GG,N	2	40X	90	
			IZMI	1049.7	1051.1	III	G	2	25X	90	
			IZMI	1120.4	1123.3	III	GG,FS	2	25X	270X	
			IZMI	1143.4	1143.9	III	G	2	25X	45	
			POTS	1144	1155	III	G	3	40X	90	
			SGMR	1148.0	1154.0	III		2	30	80	
			SVTO	1148.0	1154.0	III		2	25	83	
			IZMI	1148.6	1149.2	III	G,C	2	25X	120	
			IZMI	1153.8	1154.1	III	G	2	25X	70	
			SGMR	1232.0	1232.0	III		3	30	80	
			SVTO	1232.0	1233.0	V		3	25	180	
			POTS	1232.9	1233.8	III	G	3	40X	360	
			HOLL	1309.0	1310.0	III		1	25	118	
			POTS	1310.3	1311.0	III	G	2	40X	250	
			HOLL	1350.0	1353.0	III		1	25	82	
			SGMR	1350.0	1352.0	III		1	30	55	
			SVTO	1350.0	1352.0	III		2	25U	59U	
			POTS	1351.2	1354.2	III	G	2	40X	90	
			HOLL	1442.0	2241.0	III	N	1	25	180	
			SGMR	1500.0	1502.0	III		1	30	55	
			SVTO	1500.0	1502.0	III		2	25	180	
			POTS	1501.4	1503.4	III	G	3	40X	90	
			BLEN	1617.1	1627.1	II	H	2	150	700	
			POTS	1621.7	1628.0	DCIM		2	200U	740	
			SGMR	1622.0	1623.0	III		1	30	40	
			POTS	1640 U	1745 U	I	S,N	1	200U	350	
			POTS	1745 U	1806 U	IV		2	200U	500U	
			PALE	1745.0	1746.0	III		1	25	180	
			SGMR	1823.0	2035.0	CONT		1	30	80	
	2000	2400	HIRA	2029.0	2030.5	III	G	1	25X	200	
			HIRA	2035.0	2038.0	III	G	1	40	110	
			CULG	2050.0E	2318.0	III	N	1	57X	180	
	2050	2400	CULG	2050.0E	2400.0D	I	S	1	120	180	
			HIRA	2241.0	2241.5	III	B	2	25X	70	
			LEAR	2300.0	0954.0	CONT		1	104	180	
23	0000	0720	CULG	0000.0E	0033.0	I	S	1	140	180	
	0000	0919	HIRA	0014.5	0025.0	III	G	2	25X	130	
			CULG	0015.0	0355.0	III	N	1	57X	180	
			LEAR	0018.0	0019.0	III		1	25	170	
			CULG	0019.0	0020.0	III	G	3	57X	150	
			LEAR	0116.0	0954.0	III	N	1	25	180	
			CULG	0139.0	0618.0	I	S	1	120	180	
			CULG	0146.0	0149.0	III	G	3	57X	180	
			HIRA	0146.0	0149.5	III	G	2	25X	110	
			HIRA	0306.0	0316.5	III	G	1	25X	270	
			CULG	0311.0	0312.0	III	G	2	57X	130	
			CULG	0316.0	0316.0	III	B	2	57X	180	
			HIRA	0345.5	0348.5	III	G	1	30	190	
			CULG	0346.0	0346.0	III	G	2	57X	180	
	0410	1802	POTS	0426 U	1100 U	I	S,N,DC	2	40X	420	100-200MHz no data
			CULG	0431.0	0449.0	III	GG	3	57X	180	
			HIRA	0431.5	0442.5	III	G	3	25X	210	
			POTS	0431.7	0448.4	III	GG,N	2	40X	90	
			HIRA	0447.5	0448.0	III	B	1	25X	130	
			LEAR	0517.0	0518.0	III		1	25	180	
			HIRA	0517.5	0520.0	III	G	1	25X	200	
			POTS	0517.7	0519.9	III	G	2	40X	500	
			CULG	0518.0	0730.0D	III	N	1	57X	180	
			HIRA	0533.5	0534.5	III	B	1	25X	110	
			POTS	0533.8	0547.0	III	GG,N	2	40X	450	
	0530	1720	BLEN	0540.6	0550.5	III	GG,RS,C	3	100X	4000X	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
23			POTS	0540.8	0542.7	DCIM		2	300	720	
			CULG	0541.0	0542.0	III	G	1	57X	750	
			HIRA	0541.5	0547.0	III	G	3	25X	420	
			LEAR	0542.0	0546.0	III		1	25	180	
			SVTO	0542.0	0546.0	III		2	25	180	
			CULG	0543.0	0545.0	III	G	3	57X	140	
			CULG	0549.0	0556.0	II	FN	1	57X	90	
			CULG	0549.0	0559.0	II	SH	3	65	180	ESS 550
			HIRA	0549.0	0605.0	II		3	50	140	
			SVTO	0550.0	0618.0	II		2	25	180	ESS 0624
			POTS	0551	0616	II	F,H	2	40X	85	
			LEAR	0555.0	0605.0	II		2	25	180	ESS 0595
			LEAR	0555.0	0615.0	II		2	25	180	ESS 0595
			CULG	0559.0	0605.0	II	SH	3	57X	90	ESS 550
			IZMI	0559.0E	0613.7	II	G,HARM	2	25X	90	
			IZMI	0600.0E	1200.0D	III	N	1	25X	95U	
	0600	1200	IZMI	0600.0E	1200.0D	I	N,C	2	45U	270X	
			IZMI	0604.7	0605.3	III	G,C	2	25X	160	
			CULG	0606.0	0613.0	UNCLF		2	57X	80	
			CULG	0611.0	0612.0	III	G	3	57X	180	
			HIRA	0611.0	0613.0	III	B	2	25X	130	
			LEAR	0611.0	0612.0	III		1	25	180	
			IZMI	0611.2	0614.2	III	G	2	25X	160	
			POTS	0611.6	0619.3	III	G,N	2	40X	90	
			IZMI	0617.3	0620.7	III	GG	2	25X	95	
			IZMI	0630.9	0631.5	III	G	2	25X	270X	
			POTS	0631.3	0631.5	III	B	1	40X	80	
			IZMI	0642.2	0642.6	III	GG,C	2	25X	95	
			IZMI	0645.8	0647.3	III	G	2	45	170	
			POTS	0647.3	0726	III	GG,N	2	40X	85	
			CULG	0650.0	0730.0	CONT		1	57X	200	
			IZMI	0654.9	0655.8	III	G	2	40	90	
			CULG	0658.0	0658.0	III	B	2	57X	180	
			IZMI	0658.3	0658.5	III	G	2	25X	180	
			IZMI	0720.0	0720.9	III	G	2	25X	145	
			IZMI	0724.7	0738.8	III	GG	2	25X	270X	
			HIRA	0729.0	0738.0	III	G	2	30	250	
			POTS	0729.7	0739.3	III	GG	3	40X	330	
			CULG	0730.0	0730.0	III	B	3	57X	800	
			POTS	0800	0846	III	GG	3	40X	730	
			IZMI	0801.4	0809.6	III	GG,FS	2	25X	215	
			BLEN	0801.7	0852.5	DCIM	P,S	3	130	4000X	
			IZMI	0810.4	0813.0	III	GG,FS	2	25X	60	
	0514	1654	ONDR	0812.0	0858.3	DCIM	GG	1	2000X	4500X	
			IZMI	0817.2	0818.8	III	G	2	35	95	
			LEAR	0832.0	0834.0	III		1	25	180	
			SVTO	0832.0	0834.0	III		2	25	180	
			IZMI	0832.3	0835.8	III	GG,C	2	25X	270X	
			HIRA	0832.5	0837.5	III	G	2	30	400	
			IZMI	0837.3	0838.2	III	G	2	45X	270X	
			IZMI	0842.3	0843.7	III	GG	2	45	160	
			IZMI	0845.0U	0940.0	I	S	2	45U	95	
			SVTO	0907.0	1415.0	CONT		1	25	180	
			ONDR	0915.4	0928.3	CONT		1	2000X	4500X	
			BLEN	0918.0	1045.0	I	C	2	130	4000X	
			IZMI	0919.1	0919.2	III	B	2	110	170	
			IZMI	0923.6	0924.6	III	G	2	25X	270X	
			POTS	0927.5	0936.3	III	G,N	2	40X	85	
			IZMI	0928.7	0929.2	III	G	2	25X	215	
			POTS	1024.3	1025.2	III	G	3	40X	460	
			POTS	1024.5	1024.7	DCIM		1	440	620	
			IZMI	1025.2	1026.2	III	G	2	30	145	
			POTS	1100 U	1320 U	I	S,N,DC	2	50	400	
			POTS	1103.2	1107.2	III	GG	3	40X	800X	
			BLEN	1104.1	1112.6	III	GG,S	3	100X	2400	
			IZMI	1104.2	1107.6	III	GG,C	2	25X	270X	
			SGMR	1106.0	1107.0	III		2	30	80	
			IZMI	1112.5	1112.6	III	B	2	90	270X	
			POTS	1118.6	1119.3	III	G	2	75	260	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
23			IZMI	1119.4	1120.2	III	G	2	55	250	
			POTS	1209	1223	III	G,N	2	40X	85	
			POTS	1232.0	1233.2	III	G	2	40X	420	
			ONDR	1301.5	1315.4	DCIM	G	1	2000X	4500X	
			BLEN	1301.7	1340.0	II	C	3	100X	520	
			HOLL	1302.0	0115.0	IV		1	25	180	
			SGMR	1302.0	1316.0	V		2	30	80	
			BLEN	1305.0	1606.2	DCIM	P,S,F	3	220	4000X	
			POTS	1307	1328	II	UE	2	50	400	
			POTS	1307	1331	III	GG	3	40X	800X	
			POTS	1320 U	1600 U	IV		2	40X	700	
			SGMR	1333.0	1756.0	IV		1	30	60	
			SVTO	1415.0	1716.0	IV		2	25	180	
			POTS	1419	1424	III	GG	3	40X	400U	
			SGMR	1421.0	1422.0	III		2	30	70	
			POTS	1600 U	1802 U	I	S,N	1	200U	380	
			HOLL	1621.0	1652.0	III		1	25	137	
			PALE	1650.0	0115.0	CONT		1	25	180	
			POTS	1735.7	1736.2	III	G	2	240	400U	
			PALE	1742.0	0441.0	CONT		1	25	180	
			POTS	1750.8	1751.0	III	G	2	240	400U	
			SGMR	2017.0	2017.0	III		1	30	55	
	2001	2400	HIRA	2017.0	2017.5	III	B	1	25X	50	
			CULG	2040.0E	2400.0D	III	N	1	57X	150	
	2040	2400	CULG	2040.0E	2400.0D	I	S	1	80	180	
			LEAR	2259.0	0542.0	CONT		1	100	180	
			LEAR	2301.0	0054.0	III	N	1	25	180	
			HIRA	2304.5	2306.5	III	G	1	25X	80	
24			CULG	0000.0E	0730.0D	III	N	1	57X	90	
	0000	0730	CULG	0000.0E	0730.0D	I	S	1	110	170	
			LEAR	0100.0	0103.0	III		2	52	180	
	0000	0918	HIRA	0100.5	0104.0	III	G	2	60	130	
			CULG	0101.0	0103.0	III	G	1	60	1600	
			CULG	0101.0	0104.0	III	G	3	57X	180	
			PALE	0101.0	0114.0	II		2	25	180	ESS 0846
			LEAR	0103.0	0114.0	II		2	25	180	ESS 0844
			CULG	0104.0	0107.0	III	G	2	57X	520	
			HOLL	0104.0	0115.0	II		1	71	180	ESS 0851
			PALE	0104.0	0114.0	II		2	25	180	ESS 0846
			CULG	0107.0	0110.0	II	FN	2	57X	120	
			CULG	0107.0	0115.0	II	SH	2	57X	190	ESS 850
			HIRA	0107.0	0114.0	II		2	50	130	
			CULG	0108.0U	0135.0	CONT		1	57X	200	
			LEAR	0109.0	0114.0	II		2	25	180	ESS 0844
			PALE	0115.0	0136.0	IV		1	25	180	
			HIRA	0125.5	0126.0	III	G	1	240	410	
			HIRA	0236.0	0236.5	III	B	1	25X	80	
			PALE	0249.0	0355.0	III	N	1	25	180	
			LEAR	0307.0	0954.0	III	N	1	25	180	
	0412	1803	POTS	0419 U	0539 U	I	S,N,DC	2	40X	420	100-200MHz no data
			CULG	0449.0	0450.0	III	G	3	57X	180	
			HIRA	0449.0	0452.5	III	G	2	25X	180	
			POTS	0449.0	0450.0	III	G	2	40X	320	
			SVTO	0449.0	0549.0	III	N	1	25	180	
	0516	1652	ONDR								
			POTS	0519.3	0520.4	III	G	2	240	400	
	0530	1720	BLEN	0537.9	0610.3	IV	P	3	120	1500	
			POTS	0539 U	0840 U	IV		2	200U	600	
			CULG	0541.0	0546.0	III	G	1	57X	1300	
			HIRA	0542.0		IV		1	30	500	
			LEAR	0542.0	0920.0	IV		2	25	180	
			CULG	0545.0E	0730.0D	IV		2	57X	750	
			SVTO	0549.0	0921.0	IV		2	25	180	
			POTS	0552.0	0553.7	UNCLF		2	40X	65	
			IZMI	0600.0E	1200.0D	III	N	1	25X	95	
	0600	1200	IZMI	0600.0E	0850.0U	I	S,C	2	45U	270X	
			IZMI	0601.7	0603.4	III	GG	2	30	160	
			POTS	0602	0607	III	G	2	40X	600	

SOLAR RADIO EMISSION
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
24			IZMI	0606.7	0607.0	III	G	2	30	190	
			BLEN	0617.1	0618.1	III	G	2	230	410	
			POTS	0617.1	0618.2	III	G	2	250	400	
			HIRA	0720.0	0724.0	III	G	1	30	140	
			IZMI	0720.1	0725.3	III	GG	2	25X	175	
			IZMI	0811.0	0818.2	III	GG	2	25X	135	
			POTS	0840 U	1803 U	I	S,N,DC	2	200U	600	
			IZMI	0850.0U	1200.0D	I	N	1	45U	270X	
			POTS	0900	0931	III	GG,N	1	40X	400	
			BLEN	0923.1	0925.9	III	GG,RS	2	130	1700	
			IZMI	0925.0	0927.6	III	GG	2	25X	270X	
			SVTO	0925.0	0930.0	III		2	25	180	
			IZMI	0929.6	0930.3	III	GG	2	25X	175	
			POTS	1004.7	1005.3	III	G,RS	3	40X	85	
			IZMI	1005.0	1005.3	III	G,C	2	25X	125	
			SVTO	1005.0	1005.0	III		2	25U	83U	
			BLEN	1122.3	1127.2	III	C	2	240	450	
			POTS	1125.6	1125.8	DCIM		2	270	550	
			POTS	1129	1150	III	G,N	2	40X	85	
			IZMI	1129.6	1130.4	III	G	1	25X	90	
			SGMR	1147.0	1147.0	III		1	30	50	
			SVTO	1147.0	1148.0	III		1	25U	45U	
			IZMI	1147.5	1149.4	III	G	2	25X	145	
			SVTO	1227.0	1517.0	CONT		1	75U	180U	
			POTS	1239	1313	III	GG,N	3	40X	85	
			SGMR	1239.0	1257.0	III	N	2	30	80	
			SVTO	1239.0	1241.0	III		2	25	83	
			SVTO	1239.0	1312.0	III	N	2	25	83	
			BLEN	1508.7	1510.7	III	GG	2	600	1000	
			HOLL	1558.0	1559.0	III		1	25	163	
			SGMR	1558.0	1559.0	V		1	30	80	
			SVTO	1558.0	1559.0	III		2	25	180	
			POTS	1558.2	1558.8	III	G	3	40X	380	
			PALE	1720.0	0439.0	CONT		1	25	180	
			POTS	1742	1803 U	III	GG	2	200U	400U	
			HOLL	1816.0	0045.0	III	N	1	25	163	
			SGMR	1830.0	1835.0	V		1	30	80	
	2040	2400	CULG	2040.0E	2400.0D	III	S,C	1	57X	180	
			CULG	2210.0	2210.0	III	B	2	57X	140	
			LEAR	2245.0	0955.0	CONT		1	58	180	
			CULG	2338.0	2344.0	III	GG	2	57X	300	
			LEAR	2338.0	2343.0	III		2	25	180	
	2002	2400	HIRA	2338.0	2344.0	III	G	2	25X	380	
25	0000	0730	CULG	0000.0E	0730.0D	III	S,C	1	57X	180	
	0000	0916	HIRA	0243.0	0244.0	III	G	1	30	140	
			HIRA	0252.5	0253.0	III	B	1	200	500	
			CULG	0325.0	0329.0	II	FN	1	57X	85	
			CULG	0325.0	0330.0	II	SH	1	100U	170	ESS 500
			HIRA	0325.0	0330.0	II		1	100	150	
			LEAR	0325.0	0329.0	II		1	54	170	ESS 0480
			HIRA	0341.0	0356.5	III	G	1	25X	300	
			LEAR	0341.0	0343.0	III		1	25	137	
			LEAR	0347.0	0357.0	III		1	25	180	
	0413	1758	POTS	0414 U	1635	I	S,N,DC	2	200U	420	100-200MHz no data
			SVTO	0429.0	0732.0	CONT		1	25	180	
			SVTO	0446.0	0448.0	III		1	25	180	
			CULG	0447.0	0448.0	III	G	2	57X	180	
			HIRA	0447.0	0452.0	III	G	1	25X	230	
			LEAR	0447.0	0448.0	III		1	25	180	
			POTS	0516.5	0519.4	III	G	2	40X	600	
	0517	1651	ONDR								
			IZMI	0555.0E	0616.0U	III	S	2	15U	270X	
			LEAR	0557.0	0606.0	III		1	25	180	
			POTS	0559	0603	III	G	1	40X	70	
	0559	1200	IZMI	0559.0E	1200.0D	I	S,C	2	45U	270X	
			IZMI	0616.0U	1200.0U	III	N	2	25X	95	
			POTS	0738.9	0803.7	III	GG,N	3	40X	340	
			SVTO	0741.0	1331.0	III	N	2	25U	84U	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
25			HIRA	0741.5	0742.0	III	B	2	30	110	
			IZMI	0741.5	0741.9	III	G,C	2	25X	270X	
			IZMI	0800.0	0800.7	III	G	2	25X	90	
			IZMI	0801.8	0802.7	III	G	2	25X	95U	
			POTS	0838	0930	III	GG,N	2	40X	85	
			IZMI	0858.0	0859.2	III	G	2	25X	90	
			SVTO	0923.0	1714.0	CONT		1	25	180	
			POTS	1006	1223	III	GG,N	1	40X	85	
			IZMI	1012.0	1014.8	III	GG,C	2	25X	145	
			HOLL	1305.0	1819.0	CONT		1	66	180	
	0535	1720	BLEN	1319.4	1620.0	I		3	100X	500	
			POTS	1410 U	1530	III	GG,N	2	40X	85	
			HOLL	1411.0	0046.0	III	N	1	25	180	
			HOLL	1411.0	1819.0	III	N	1	25	180	
			SGMR	1413.0	1418.0	III		1	30	55	
			SGMR	1455.0	1458.0	III		1	30	50	
			SGMR	1526.0	1546.0	III	N	2	30	80	
			HOLL	1540.0	1541.0	III		1	25	180	
			SVTO	1540.0	1541.0	III		2	25	180	
			POTS	1540.6	1541.9	III	GG	2	40X	350	
			POTS	1703	1758	I	S,N	1	200U	360	
			PALE	1742.0	0438.0	CONT		1	25	180	
			SGMR	1807.0	2030.0	III	N	1	30	60	
	2040	2400	CULG	2040.0E	2400.0D	III	S,C	1	57X	180	
			CULG	2250.0	2253.0	III	GG	3	57X	400	
			PALE	2250.0	2253.0	III		2	25	180	
			SGMR	2250.0	2252.0	V		2	30	80	
	2003	2400	HIRA	2250.5	2256.5	III	G	3	25X	270	
			CULG	2255.0	2256.0	III	G	2	57X	260	
			LEAR	2257.0	0042.0	III	N	1	25	180	
26	0000	0730	CULG	0000.0E	0730.0D	III	S,C	1	57X	180	
			LEAR	0042.0	0955.0	CONT		2	25	180	
			HOLL	0043.0	0124.0	CONT		1	46	177	
			CULG	0055.0	0103.0	III	GG	2	57X	130	
	0416	1756	POTS	0416 U	1756	I	S,N,DC	2	200U	400	100-200MHz no data
			SVTO	0429.0	1055.0	CONT		1	76	180	
			SVTO	0509.0	1712.0	III	N	1	25	180	
	0518	1649	ONDR								
	0535	1720	BLEN								
			IZMI	0559.0E	1200.0D	III	N	2	25X	90	
	0559	1214	IZMI	0559.0E	1200.0D	I	S,C	2	45U	270X	
			IZMI	0615.1	0626.0	III	GG	2	25X	160	
			POTS	0650	1410 U	III	GG,N	1	40X	85	
			IZMI	0722.0	0722.8	III	G	2	210	270X	
			IZMI	0741.4	0741.5	III	G	2	30	160	
			POTS	0755.5	0757.6	DCIM		2	400	660	
			IZMI	0811.7	0816.0	III	GG	2	25X	95	
			POTS	0851 4	0855.7	III	GG	3	40X	85	
			IZMI	0851.3	0856.2	III	GG,C	3	25X	175	
			SVTO	0852.0	0855.0	III		3	25	153	
	0000	0915	HIRA	0852.0	0854.5	III	G	2	25X	130	
			IZMI	0948.1	0949.7	III	GG	2	25X	270X	
			IZMI	1016.2	1017.5	III	G	1	25X	235	
			POTS	1049.7	1050.6	DCIM		2	470	720	
			IZMI	1143.9	1144.4	III	G,FS	2	25X	240	
			IZMI	1150.4	1151.2	III	G,FS	2	25X	65	
			HOLL	1306.0	0118.0	III	N	1	25	52	
			HOLL	1322.0	2114.0	CONT		1	73	180	
			POTS	1341.0	1341.5	DCIM		2	330	630	
			SGMR	1341.0	2145.0	III	N	1	30	60	
			PALE	1630.0	0438.0	CONT		1	70U	180U	
	2040	2400	CULG	2040.0E	2400.0D	III	S,C	1	57X	180	
			CULG	2134.0	2134.0	III	G	1	580	1000	
			CULG	2144.0	2144.0	III	B	2	57X	180	
	2004	2400	HIRA	2144.5	2145.0	III	B	1	25X	410	
			LEAR	2256.0	0955.0	CONT		1	25	180	
27	0000	0730	CULG	0000.0E	0405.0D	III	S,C	1	57X	180	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
27			LEAR	0103.0	0139.0	III	N	1	25	138	
	0000	0914	HIRA	0104.0	0105.0	III	B	1	25X	110	
			HIRA	0111.0	0114.0	III	G	1	25X	110	
			LEAR	0246.0	0340.0	III	N	1	25	180	
			CULG	0405.0E	0730.0D	I	S,C	1	100	180	
			CULG	0405.0E	0730.0D	III	S	1	57X	90	
	0418	1750	POTS	0418 U	1750	I	S,N,DC	2	200U	400	100-200MHz no data
			SVTO	0430.0	0906.0	CONT		1	51	180	
			CULG	0544.0	0545.0	III	G	2	57X	180	
			HIRA	0544.0	0545.0	III	B	2	25X	320	
			LEAR	0544.0	0545.0	V		1	25	180	
			SVTO	0544.0	0546.0	V		3	25	126	
			POTS	0544.1	0544.7	III	G	3	40X	500	
			POTS	0544.5	0545.3	V	B	3	40X	70	
			CULG	0545.0	0546.0	V		1	57X	90	
			SVTO	0617.0	0855.0	III	N	2	25	180	
	0710	1200	IZMI	0620.3	0627.7	III	GG	2	25X	95U	
			POTS	0622	1304 U	III	GG,N	1	40X	85	
			IZMI	0646.2	0657.3	III	GG	2	45	95U	
			SVTO	0705.0	0711.0	V		2	25	66	
			IZMI	0705.5	0706.0	III	G	2	25X	95	
			IZMI	0710.0E	1200.0D	I	S,C	2	60U	270X	
			IZMI	0710.0E	1200.0D	III	N	2	25X	95U	
			IZMI	0711.2	0711.9	III	B	2	25X	95	
			POTS	0717.0	0717.5	DCIM		2	280	400	
			IZMI	0722.1	0724.5	III	G	2	25X	95	
			POTS	0744.4	0747.4	III	G	2	40X	430	
			IZMI	0744.5	0744.7	III	G	1	160	270X	
			IZMI	0747.1	0747.3	III	G	2	50	270X	
	0540	1715	BLEN	0747.1	0747.4	III		2	100X	480	
			IZMI	0811.7	0813.7	III	G	2	25X	95	
			POTS	0816.3	0828.0	III	G	3	40X	500	
			LEAR	0818.0	0821.0	III		1	25	180	
			IZMI	0818.3	0818.7	III	G,C	2	25X	270X	
			HIRA	0818.5	0821.5	III	G	2	30	400	
			BLEN	0820.7	0828.0	III	GG,RS	2	100X	480	
			IZMI	0820.8	0821.7	III	GG,C	2	25X	270X	
			IZMI	0822.1	0827.6	III	GG	1	220	270X	
			IZMI	0830.8	0839.1	III	GG	2	35	160	
			SVTO	0856.0	1100.0	III	N	2	25	180	
			IZMI	0856.4	0858.1	III	G,C	2	25X	70	
			HIRA	0904.0	0904.5	III	B	2	30	400	
			LEAR	0904.0	0904.0	III		1	25	180	
			BLEN	0904.1	0904.8	III	RS	2	100X	430	
			IZMI	0904.1	0904.5	III	GG,C	2	25X	270X	
			POTS	0904.1	0906.1	III	G	3	40X	420	
			IZMI	0905.9	0906.0	III	G,HARM	2	45	215	
			IZMI	0909.6	0911.5	III	G	2	25X	130	
			POTS	0916.7	0917.2	DCIM		2	350	570	
			IZMI	0916.8	0919.7	III	G	2	25X	95	
			IZMI	0922.2	0922.9	III	G	2	25X	120	
			IZMI	0931.8	0933.2	III	G	2	25X	170	
			IZMI	0959.2	0959.7	III	G,C	2	25X	120	
			POTS	0959.2	1002.0	III	GG	3	40X	370	
			IZMI	1000.7	1002.0	III	GG,FS	2	25X	170	
	0520	1647	ONDR	1019.1	1019.2	DCIM	G	2	997	1508	
			IZMI	1019.6	1020.1	III	B,C	2	25X	270	
			POTS	1019.6	1022.0	III	G	3	40X	300	
			IZMI	1021.5	1022.0	III	GG,C	2	25X	270X	
			IZMI	1047.0	1047.8	III	GG	2	40	160	
			SGMR	1050.0	1150.0	III		1	30	60	
			IZMI	1059.1	1101.8	III	GG	2	25X	125	
			IZMI	1110.6	1111.0	III	GG,FS	2	45	160	
			SGMR	1150.0	1150.0	III		1	30	60	
			IZMI	1150.2	1150.6	III	G,FS	2	25X	240	
			SGMR	1211.0	1211.0	III		1	30	80	
			ONDR	1228.0	1229.0	DCIM	G	1	992	2000X	
			ONDR	1228.1	1229.3	DCIM	G	1	2000X	4500X	
			BLEN	1228.2	1229.6	DCIM	C	2	800	4000X	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

Day	OBSERVATION Start (UT)	OBSERVATION End (UT)	Sta	EVENT Start (UT)	EVENT End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	FREQUENCY Upper (MHz)	Remarks
27			SVTO	1434.0	1435.0	III		2	25	57	
			POTS	1434.9	1435.5	III	B,U	2	40X	70	
			HOLL	1449.0	2353.0	III	N	1	25	87	
			SVTO	1454.0	1459.0	III		2	25	49	
			POTS	1454.1	1455.0	III	B,U	2	40X	55	
			SVTO	1531.0	1532.0	III		2	25	180	
			POTS	1531.6	1532.2	III	G	3	40X	270	
			POTS	1531.9	1532.0	DCIM		2	480	630	
			SVTO	1552.0	1711.0	CONT		1	43	180	
			HOLL	1612.0	2257.0	CONT		1	97	180	
	2005	2400	HIRA	2027.5	2028.0	III	B	1	25X	220	
	2040	2400	CULG	2040.0E	2400.0D	III	S	1	57X	170	
			CULG	2150.0	2151.0	III	G	3	57X	180	
			HIRA	2150.5	2151.0	III	B	2	25X	130	
			HIRA	2222.5	2223.0	III	B	1	25X	200	
			LEAR	2255.0	0740.0	CONT		1	25	180	
28	0000	0730	CULG	0000.0E	0730.0D	III	S,C	1	57X	180	
	0421	1747	POTS	0510	0524	I	S,N	1	200U	300	100-200MHz no data
	0600	1200	IZMI	0600.0E	1200.0D	III	N	1	25X	95U	
			IZMI	0621.8	0628.5	III	GG	2	45	95	
			IZMI	0705.5	0714.2	III	GG	1	35	190	
			POTS	0705.6	0741.0	III	GG,N	2	40X	400	
	0000	0913	HIRA	0725.5	0727.0	III	G	1	130	280	
	0540	1715	BLEN	0725.5	0726.7	III	GG	1	200X	400	
			IZMI	0725.6	0726.7	III	GG	2	45	270X	
			IZMI	0731.0U	1120.0U	I	N	1	95	260	
			IZMI	0740.6	0740.9	III	G	2	40	160	
			POTS	0758.4	0759.1	I	DC	1	200U	280	
			SVTO	0812.0	0828.0	III	N	1	25	180	
			IZMI	0812.7	0821.4	III	GG,FS	2	25X	270X	
			BLEN	0817.2	0821.9	III	G,RS	3	200X	4000X	
			POTS	0817.8	0821.4	III	G	2	40X	330	
			ONDR	0818.4	0828.5	DCIM	G	1	800X	2000X	
			POTS	0818.6	1747	I	S,N,DC	2	200U	420	
	0521	1645	ONDR	0819.3	0828.2	DCIM	G	1	2000X	4500X	
			POTS	0826	0852 U	III	GG,N	1	40X	280	
			IZMI	0826.7	0829.2	III	GG,C	2	30	250	
			HIRA	0827.5	0828.0	III	B	1	60	200	
			IZMI	0832.5	0836.9	III	G	1	45	120	
			IZMI	0846.3	0847.1	III	G	2	40	145	
			IZMI	0917.3	0917.8	III	G	1	40	160	
			POTS	0931	1123 U	III	GG,N	1	40X	85	
			IZMI	0956.1	0959.3	III	G	1	40	115	
			SVTO	1012.0	1056.0	III	N	1	25U	82U	
			IZMI	1012.3	1020.0	III	GG,FS	2	25X	160	
			IZMI	1029.6	1034.8	III	G	2	25X	95	
			SGMR	1041.0	1055.0	III	N	1	30	60	
			SVTO	1041.0	1042.0	V		2	25	180	
			IZMI	1041.7	1042.1	III	G,C	2	25X	270	
			POTS	1041.7	1042.1	III	G	3	40X	380	
			IZMI	1042.0	1042.9	V		2	25X	65	
			POTS	1042.0	1042.8	V	B	3	40X	80	
			IZMI	1044.5	1045.3	III	G	1	35	70	
			IZMI	1055.7	1055.9	III	G	2	25X	210	
			ONDR	1058.5	1100.3	DCIM	G	2	2000X	4500X	
			IZMI	1058.7	1058.8	III	G	1	45	95	
			IZMI	1118.6	1119.0	III	B	1	30	95	
			IZMI	1154.5	1154.9	III	G	1	45	270X	
			POTS	1154.7	1155.0	III	B	3	40X	400	
			SGMR	1259.0	1304.0	III		1	30	55	
			POTS	1259.2	1304.1	III	G	2	40X	270	
			POTS	1420.6	1421.8	III	GG	2	40X	330	
			HOLL	1444.0	0100.0	III	N	1	25	120	
			POTS	1447	1506	III	GG,N	2	40X	85	
			SGMR	1449.0	2004.0	III	N	2	30	80	
			POTS	1510.0	1510.3	DCIM		1	350	570	
			BLEN	1531.8	1535.2	III		2	350	500	
			ONDR	1543.4	1623.2	DCIM	G	1	2000X	4500X	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
28			BLEN	1646.0	1658.9	DCIM	C	3	300	4000X	
			PALE	1648.0	0423.0	CONT		1	44	180	
			POTS	1657.4	1657.7	DCIM		2	300	400	
			PALE	1751.0	1753.0	III		1	25	180	
			PALE	1854.0	1855.0	III		2	25	180	
			SGMR	1854.0	1855.0	III		3	30	80	
			HOLL	1855.0	1930.0	IV		1	25	75	
			SGMR	1855.0	1925.0	IV		3	30	80	
			PALE	1857.0	1913.0	II		1	33	180	ESS 0734
			SGMR	1859.0	1907.0	II		2	30	80	ESS 0700
			HOLL	1916.0	1917.0	III		1	25	115	
	2005	2400	HIRA	2036.5	2038.0	III	G	1	50	200	
	2040	2400	CULG	2040.0E	2128.0	I	S	1	120	170	
			CULG	2142.0	2144.0	III	G	2	57X	430	
			HIRA	2142.0	2144.5	III	G	2	25X	450	
			PALE	2142.0	2146.0	III		1	25	180	
			CULG	2143.0	2151.0	V		1	57X	180	
			CULG	2301.0	2400.0D	I	S	1	120	170	
29	0000	0730	CULG	0000.0E	0150.0	I	S	1	130	180	
			CULG	0058.0	0059.0	III	G	1	57X	160	
			LEAR	0058.0	0521.0	III	N	1	25	180	
			PALE	0058.0	0436.0	III	N	1	25	180	
			CULG	0123.0	0130.0	III	G	1	57X	200	
	0000	0912	HIRA	0123.0	0130.0	III	G	1	25X	260	
			CULG	0200.0	0202.0	III	G	1	57X	90	
			CULG	0208.0	0209.0	III	G	1	57X	180	
			HIRA	0208.0	0209.0	III	B	1	25X	230	
			CULG	0247.0	0248.0	III	G	1	57X	180	
			HIRA	0247.5	0248.0	III	B	1	50	280	
			CULG	0250.0	0252.0	III	G	1	430	750	
			CULG	0306.0	0307.0	III	G	1	57X	450	
			HIRA	0306.5	0307.0	III	B	1	80	310	
			CULG	0311.0	0410.0	III	N	1	57X	180	
			HIRA	0330.5	0331.0	III	B	1	90	210	
			HIRA	0400.5	0409.5	III	G	2	25X	330	
			LEAR	0408.0	0409.0	III		1	25	180	
			CULG	0409.0	0409.0	III	G	2	57X	180	
			SVTO	0432.0	0908.0	III	N	1	25U	180U	
			CULG	0435.0	0530.0	III	N	1	57X	180	
			HIRA	0435.5	0459.0	III	G	1	30	210	
	0426	1750	POTS	0446.5	0446.6	DCIM		1	450	580	100-200MHz no data
			POTS	0446.9	0449.0	UNCLF		2	200U	360	
			POTS	0458.0	0458.4	I	DC	2	200U	240	
			POTS	0511	0521	I	S,N	2	200U	400	
			POTS	0512.8	0513.2	DCIM		2	460	660	
			POTS	0553	0700 U	I	S,N	2	200U	400	
	0522	1643	ONDR	0630.5	0631.2	DCIM	G	1	847	2000X	
			CULG	0631.0	0730.0D	III	N	1	57X	180	
			POTS	0632.1	0632.3	DCIM		2	500	660	
			POTS	0645.1	0645.2	III	B	1	200U	300	
	0600	1200	IZMI	0645.1	0645.2	III	B	2	140	270	
			POTS	0700.5	0700.8	DCIM		2	260	660	
			HIRA	0706.0	0708.0	III	G	1	40	300	
			IZMI	0706.0	0708.5	III	GG	2	25X	270X	
			LEAR	0706.0	0821.0	III	N	1	25	180	
			POTS	0706.0	0716.5	III	G	3	40X	400	
			CULG	0707.0	0707.0	III	G	2	57X	270	
			IZMI	0711.4	0713.3	III	GG	2	40	270X	
			HIRA	0712.0	0716.5	III	G	1	50	330	
			ONDR	0713.0	0715.0	DCIM	G	1	800X	2000X	
			ONDR	0713.0	0715.1	DCIM	G	1	2000X	4500X	
			IZMI	0713.7	0716.4	III	GG	2	35	175	
			POTS	0714.4	0715.6	DCIM		2	520	730	
			IZMI	0725.4	0729.6	III	G	1	45	95	
			IZMI	0745.4	0747.5	III	G,FS	1	50	160	
			HIRA	0752.0	0752.5	III	B	1	40	110	
			IZMI	0752.1	0752.3	III	G,C	2	40	130	
			IZMI	0756.4	0800.0	III	GG	2	25X	95	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
29			POTS	0759	0806	III	G	2	40X	85	
			IZMI	0802.2	0805.8	III	GG	2	25X	160	
			HIRA	0804.5	0805.0	III	B	1	30	120	
			IZMI	0820.9	0821.0	III	B	1	85	190	
	0730	1715	BLEN	0843.3	0843.6	III	C,RS	2	550	4000X	
			ONDR	0904.0	0906.5	DCIM	G	1	2000X	4500X	
			BLEN	0904.4	0911.2	DCIM	C,RS	2	280	4000X	
			POTS	0904.7	0905.7	DCIM		1	550	660	
			ONDR	0905.0	0905.3	DCIM		1	800X	2000X	
			POTS	0906	1052 U	I	S,N	1	200U	400	
			POTS	0908	0911	DCIM	C	2	370	600	diffuse cont.
			ONDR	0939.1	0940.2	DCIM	G,SP	1	800X	997	
			ONDR	1035.3	1038.3	DCIM	G	1	2254	4500X	
			IZMI	1042.5	1046.2	III	G	2	25X	95	
			POTS	1042.5	1045.2	III	G	2	40X	80	
			IZMI	1110.7	1111.1	III	G	2	25X	250	
			POTS	1110.7	1111.1	III	G	2	40X	270	
			IZMI	1131.0U	1146.0	I	S	1	110	180	
			ONDR	1238.0	1238.2	DCIM	GG,SP	3	800X	1259	
			ONDR	1238.0	1239.0	DCIM	G,W	1	2000X	4500X	
			BLEN	1238.1	1238.5	III	GG,S	3	550	4000X	
			ONDR	1246.3	1254.1	DCIM	GG	3	800X	2000X	
			BLEN	1246.7	1252.6	III	GG,S	3	230	4000X	
			ONDR	1247.0	1258.1	DCIM	GG	2	2000X	4500X	
			POTS	1247.3	1323.1	III	GG,N	3	40X	400	
			SGMR	1248.0	1312.0	III	N	2	30	80	
			SVTO	1248.0	1312.0	III	N	2	25	180	
			POTS	1248.4	1251.4	DCIM		2	520	800X	
			BLEN	1300.1	1328.2	III	GG,C	3	280	900	
			HOLL	1301.0	1616.0	III	N	1	25	180	
			POTS	1322.4	1322.8	DCIM		2	280	500	
			BLEN	1420.1	1421.9	III	GG,S	3	280	4000X	
			ONDR	1420.2	1421.5	DCIM	G	1	2000X	3973	
			POTS	1420.4	1421.7	DCIM		2	550	770	
			SVTO	1421.0	1421.0	III		1	46U	61U	
			POTS	1421.1	1421.5	III	G	3	40X	320	
			BLEN	1433.3	1434.9	III	GG,RS	3	200X	800	
			POTS	1433.3	1434.8	DCIM		2	220	670	
			POTS	1433.5	1433.8	III	B	2	40X	85	
			POTS	1438 U	1551 U	I	S,N	1	200U	350	
			HOLL	1658.0	1659.0	III		1	25	58	
			SGMR	1658.0	1658.0	III		1	30	40	
			SGMR	1811.0	1812.0	III		1	30	50	
			HOLL	1812.0	1812.0	III		1	25	87	
			PALE	1812.0	1812.0	III		1	25	60	
			HOLL	2107.0	2107.0	III		1	25	180	
	2006	2400	HIRA	2107.0	2107.5	III	B	1	60	190	
	2040	2400	CULG	2107.0	2108.0	III	G	1	57X	180	
			CULG	2110.0	2111.0	III	G	1	100	180	
			CULG	2140.0	2143.0	III	G	1	57X	180	
			PALE	2222.0	2224.0	V		1	25	180	
			CULG	2223.0	2223.0	III	B	3	57X	500	
			CULG	2223.0	2224.0	V		1	57X	170	
			HIRA	2223.0	2224.0	III	B	3	40	570	
			HOLL	2223.0	2223.0	V		1	25	180	
			SGMR	2223.0	2223.0	III		1	30	80	
			HOLL	2321.0	2324.0	III		1	25	88	
			LEAR	2321.0	2330.0	III		1	25	180	
			HIRA	2321.5	2323.0	III	B	2	25X	120	
			CULG	2322.0	2324.0	III	G	1	57X	180	
			CULG	2329.0	2339.0	III	G	1	57X	180	
			HIRA	2329.0	2330.5	III	G	1	25X	260	
30	0000	0730	CULG	0035.0	0035.0	III	B	1	57X	90	
			CULG	0222.0	0306.0	III	N	1	57X	180	
			CULG	0228.0	0228.0	III	B	2	57X	180	
			LEAR	0228.0	0340.0	III	N	1	25	180	
	0000	0910	HIRA	0228.0	0228.5	III	B	1	50	150	
			HIRA	0241.0	0257.0	III	G	1	25X	300	

SOLAR RADIO EMISSION
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
30			CULG	0256.0	0256.0	III	B	3	57X	180	
			CULG	0406.0	0429.0	III	N	1	57X	180	
			LEAR	0410.0	0456.0	III	N	2	25	180	
			HIRA	0423.5	0424.0	III	B	1	30	220	
			CULG	0450.0	0451.0	III	G	1	100	260	
			SVTO	0450.0	0455.0	III		1	25	180	
			HIRA	0450.5	0455.5	III	G	1	25X	280	
	0422	1746	POTS	0450.5	0454.8	III	G	2	55	380	100-200MHz no data
			CULG	0454.0	0456.0	III	G	2	57X	180	
			POTS	0456.6	0459.2	DCIM		2	350	630	
	0602	1200	IZMI	0637.3	0637.4	III	B	1	50	85	
			IZMI	0744.5	0744.7	III	G	2	45	125	
			IZMI	0746.9	0747.1	III	B	2	40	95	
			HIRA	0754.0	0755.0	III	B	1	120	230	
			LEAR	0754.0	0754.0	III		1	128	180	
			SVTO	0754.0	0754.0	III		1	134U	180U	
			IZMI	0754.1	0754.6	III	G,C	2	125	190	
			POTS	0754.1	0754.9	III	GG	2	200U	310	
			POTS	0945.2	0945.4	III	B	1	200U	260	
			POTS	1014.0	1014.7	III	G	1	200U	280	
			IZMI	1014.1	1014.7	III	G	2	130	270X	
			IZMI	1017.5	1017.6	III	B	1	125	185	
			POTS	1047.2	1047.5	III	G	1	200U	300	
			IZMI	1051.0	1052.2	III	G,C	1	50	160	
			SGMR	1057.0	1058.0	II		1	40	55	
			IZMI	1057.3	1104.5	II	HARM	2	35	120	
			POTS	1057.4	1102.2	II	F,H	3	40X	85	
			SVTO	1059.0	1101.0	II		1	33	83	ESS 0783
			IZMI	1129.6	1129.8	III	B	1	50	90	
			SGMR	1205.0	1205.0	III		1	40	60	
			SVTO	1205.0	1205.0	III		1	42U	83U	
			POTS	1205.2	1206.1	III	G	2	40X	85	
			POTS	1207.8	1208.0	III	G	1	200U	340	
			POTS	1327.2	1329.8	DCIM		3	230	800X	
			ONDR	1327.3	1336.5	DCIM	GG	3	800X	2000X	
	0524	1641	ONDR	1327.3	1336.0	DCIM	GG	2	2000X	4500X	
	1205	1715	BLEN	1327.4	1340.2	IV	P,C	3	200X	4000X	
			POTS	1328.8	1343	II	F,H	3	40X	500	
			HOLL	1329.0	1330.0	III		1	25	180	
			SVTO	1329.0	1330.0	III		3	32	180	
			SGMR	1330.0	1339.0	II		1	30	80	
			SGMR	1330.0	1339.0	II		1	30	80	ESS 0626
			SVTO	1330.0	1340.0	II		1	45	180	ESS 0628
			HOLL	1331.0	1341.0	II		1	44	180	ESS 0457
			SVTO	1333.0	1340.0	II		1	45	180	ESS 0628
			POTS	1336	1403	I	S,N	1	200U	380	
			ONDR	1338.3	1340.2	DCIM	GG	2	800X	1334	
			POTS	1339.0	1339.9	DCIM		2	390	630	
			POTS	1425.8	1426.5	DCIM		2	260	500	
			ONDR	1436.3	1440.4	DCIM	GG	3	800X	2000X	
			BLEN	1436.7	1440.7	III	GG,C	3	200X	4000X	
			POTS	1437.2	1438 U	II	F,H	2	200U	800X	
			POTS	1437.2	1440.9	DCIM		2	200U	800X	
			ONDR	1437.4	1441.0	DCIM	G	1	2000X	4500X	
			POTS	1437.7	1438.2	III	G	2	40X	85	
			HOLL	1438.0	1438.0	III		1	25	92	
			SVTO	1438.0	1438.0	III		1	41U	83U	
			BLEN	1518.5	1523.2	III	GG,C,RS	3	200X	4000X	
			POTS	1518.5	1520.8	DCIM		2	330	800X	
			POTS	1520.0	1521.0	III	G	2	50	420	
			BLEN	1547.9	1548.3	III	G,RS	2	380	700	
			SVTO	1604.0	1611.0	III		2	113	180	
			BLEN	1604.3	1604.9	III	GG,S	2	200X	500	
			POTS	1604.3	1604.9	III	G	2	200U	360	
			POTS	1611.2	1611.3	III	B	1	200U	280	
			CULG	2030.0E	2106.0	III	N	1	57X	180	
	2030	2400	CULG	2030.0	2030.0	III	B	1	550	750	
			CULG	2102.0	2400.0D	I	S	1	100	180	
			PALE	2201.0	2202.0	III		1	25	180	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

Day	OBSERVATION Start (UT)	OBSERVATION End (UT)	Sta	EVENT Start (UT)	EVENT End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	FREQUENCY Upper (MHz)	Remarks
30			CULG	2202.0	2207.0	III	G	1	57X	180	
			HOLL	2202.0	2206.0	III		1	25	180	
	2007	2400	HIRA	2202.5	2203.0	III	B	1	30	170	
			HIRA	2206.0	2206.5	III	B	1	30	140	
			PALE	2206.0	2206.0	III		1	25	86	
			LEAR	2253.0	0957.0	CONT		1	25	180	
			CULG	2256.0	2256.0	III	B	1	57X	150	
			PALE	2316.0	0435.0	III	N	1	25	180	
			CULG	2328.0	2330.0	III	G	3	57X	180	
			HIRA	2328.0	2330.0	III	G	3	25X	500	
			HOLL	2328.0	2330.0	III		2	25	180	
			LEAR	2328.0	2330.0	III		2	25	180	
			PALE	2328.0	2330.0	III		1	25	180	
			HIRA	2339.5	2340.0	III	B	1	25X	80	
			CULG	2340.0	2340.0	III	B	1	57X	80	
31	0000	0730	CULG	0000.0E	0634.0	I	S,C	1	100	180	
			CULG	0002.0	0130.0	III	N	1	57X	180	
			PALE	0004.0	0345.0	III	N	1	25	180	
			HOLL	0013.0	0100.0	III	N	1	25	110	
			LEAR	0013.0	0013.0	III		2	25	180	
	0000	0909	HIRA	0013.5	0014.0	III	B	2	25X	110	
			HIRA	0020.0	0021.0	III	B	1	25X	220	
			HIRA	0027.0	0027.5	III	B	1	25X	100	
	0424	1744	POTS	0434 U	1744 U	I	S,N,DC	2	200U	380	100-200MHz no data
			IZMI	0605.0E	1200.0	III	N	1	45	95U	
	0605	1200	IZMI	0605.0E	1002.0	I	N	1	80	270X	
			IZMI	0614.8	0616.7	III	G	1	180	270X	
	0545	1715	BLEN	0630.9	0631.5	III	G,S	2	200X	450	
			CULG	0631.0	0632.0	III	G	1	140	320	
			IZMI	0631.0	0632.0	III	G	2	200	270X	
			IZMI	0920.7	0922.4	III	GG	2	40	270X	
			POTS	0920.7	0927.3	III	GG	2	40X	360	
			SVTO	0922.0	0927.0	III		1	28U	170U	
			IZMI	0924.1	0927.3	III	GG	2	25X	270X	
			SVTO	0930.0	1704.0	CONT		2	25	180	
	0525	1639	ONDR	1001.2	1002.0	DCIM	GG	2	2312	3494	
			BLEN	1001.5	1002.2	DCIM	P	2	650	1300	
			IZMI	1002.0	1200.0D	I	S	2	110	270X	
			ONDR	1058.5	1107.3	DCIM	G	1	800X	2000X	
			BLEN	1058.9	1100.5	III	GG	3	400	1330	
			POTS	1100.0	1100.8	DCIM		2	210	640	
			IZMI	1100.3	1100.4	III	B	2	205	270X	
			POTS	1102.5	1104.0	III	G	2	40X	85	
			IZMI	1102.8	1103.8	III	G	1	25X	165	
			SVTO	1149.0	1200.0	III	N	2	25	167	
			POTS	1149.3	1200.3	III	GG	2	40X	400	
			IZMI	1150.5	1152.9	III	GG,C	2	25X	270X	
			SGMR	1152.0	1152.0	III		1	30	60	
			ONDR	1246.2	1247.0	DCIM	G,W	1	1039	1653	
			HOLL	1309.0	2156.0	CONT		1	76	180	
			ONDR	1351.5	1353.5	DCIM	G	1	2000X	4500X	
			POTS	1351.8	1353.3	DCIM		2	430	650	
			ONDR	1352.0	1353.3	DCIM	G	2	800X	2000X	
			BLEN	1352.1	1400.0	III	GG,P,C	3	200X	4000X	
			SGMR	1405.0	1406.0	III		1	30	70	
			SVTO	1405.0	1406.0	III		2	25U	82U	
			POTS	1405.2	1406.3	III	G	3	40X	400	
			BLEN	1420.0	1431.0	IV	P,C	3	400	4000X	
			ONDR	1420.2	1428.0	DCIM	G	2	2000X	4500X	
			ONDR	1420.2	1429.5	DCIM	GG,FS	2	800X	2000X	
			POTS	1420.2	1422.7	DCIM		2	430	760	
			BLEN	1442.4	1442.5	III	GG	2	450	850	
			POTS	1453.2	1503.6	DCIM		2	230	740	
			ONDR	1519.0	1530.0	DCIM	GG	1	800X	2000X	
			BLEN	1519.1	1705.0	III	GG,C,RS	3	250	4000X	
			POTS	1519.1	1521.4	DCIM		3	260	800X	
			ONDR	1521.1	1521.2	DCIM		1	2000X	4500X	
			POTS	1527.6	1529.4	DCIM		2	370	730	

S O L A R R A D I O E M I S S I O N
Spectral Observations

AUGUST 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
31			ONDR	1537.3	1539.0	DCIM	G	1	2000X	3201	
			ONDR	1537.3	1540.5	DCIM	GG	2	800X	2000X	
			POTS	1537.6	1539.2	DCIM		2	300	800X	
			POTS	1549.2	1550.8	DCIM		2	260	800X	
			ONDR	1549.5	1557.5	DCIM	GG	2	800X	2000X	
			ONDR	1550.2	1550.4	DCIM	G	1	2000X	4080	
			POTS	1557.6	1557.8	DCIM		2	520	800X	
			ONDR	1610.1	1631.3	DCIM	GG	2	800X	2000X	
			POTS	1612.3	1619.5	DCIM		3	200U	800X	
			ONDR	1615.0	1620.5	DCIM	GG	2	2000X	4500X	
			HOLL	1621.0	1621.0	III		1	25	180	
			POTS	1627.1	1629.2	DCIM	RS	2	470	670	
			HOLL	1711.0	1715.0	III		1	25	86	
			POTS	1735.7	1736.3	DCIM		2	530	730	
	2030	2400	CULG	2030.0E	2125.0	I	S,C	1	100	180	
			CULG	2100.0	2100.0	III	B	1	550	770	
			CULG	2235.0	2235.0	III	B	2	450	1200	
			CULG	2249.0	2249.0	III	B	1	57X	130	
			LEAR	2249.0	2249.0	III		1	30	111	
	2008	2400	HIRA	2249.0	2249.5	III	B	1	25X	110	
			CULG	2256.0	2256.0	III	B	1	57X	750	
			CULG	2300.0	2301.0	III	G	1	120	180	
			CULG	2305.0	2306.0	III	B	1	620	740	
			CULG	2311.0	2321.0	III	GG	3	57X	860	
			HIRA	2311.0	2311.5	III	B	1	200	710	
			HOLL	2313.0	2319.0	III		1	25	180	
			LEAR	2313.0	2319.0	III		2	25	180	
			HIRA	2313.5	2319.5	III	G	2	25X	280	
			PALE	2339.0	2340.0	III		1	25	58	
			CULG	2341.0	2341.0	III	B	1	550	750	
			CULG	2345.0	2349.0	III	G	1	57X	180	
			HIRA	2345.5	2349.0	III	G	1	50	300	
			LEAR	2347.0	2349.0	III		1	61	178	

Event Remarks:
- B = Single burst
- C = Underlying continuum (particularly with Type I)
- DC = Drifting chains
- DP = Drifting pairs
- F = Fundamental emission (Type II)
- FS = Fine structures (Type IV)
- G = Small group of bursts (<10)
- GG = Large group of bursts (>10)
- H = Herringbone
- HARM = Harmonic
- N = Intermittent activity in this period
- MOV = Moving (Type IV)
- MWB = Meter wave burst
- RS = Reverse slope burst
- S = Storm in the sense of intermittent but apparently connected actively
- SH = Secondary harmonic emission
- STA = Stationary (Type IV)
- U = U-shaped burst of Type III
- UE = Uncertain emission (Type II)
- W = Weak

Frequency qualifiers:
- X = Extends beyond instrument range
- U = Uncertain frequency

Remarks:
- SWF = Associated short wave fade observed
- ESS = Estimated shock speed in km/s (Type II)
- FLA = Associated flare observed (class optional)

Stations Reporting:
- CULG = Culgoora
- IZMI = Izmiran
- LEAR = Learmonth
- ONDR = Ondrejov
- PALE = Palehua
- POTS = Potsdam
- SGMR = Sagamore Hill
- SVTO = San Vito
- BLEN = Bleien

NOTE: Beginning June 26, 2001, the Bleien observatory changed to higher frequencies (1-4Ghz).