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

JUNE 2001

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
01	0000	0700	CULG	0006.0	0007.0	III	G	1	60	160	
			LEAR	0007.0	0007.0	III		1	65	159	
	0000	0951	HIRA	0007.0	0007.5	III	B	1	60	170	
			LEAR	0338.0	0344.0	III		1	25	104	
	0415	1742	ONDR								
	0503	1200	IZMI	0632.6	0632.8	III	B	1	45	70	
			SVTO	0704.0	0711.0	III		1	25	58	
			IZMI	0711.4	0711.6	III	G	2	45	80	
			IZMI	0721.1	0721.1	III	B	1	45	70	
			IZMI	0726.8	0727.8	III	G	1	45	95	
	0440	1815	BLEN	0730.0	0731.0	III	GG	2	150	580	
			IZMI	0742.7	0742.9	III	B	1	45	100	
			SVTO	0744.0	0745.0	III		1	25	59	
			IZMI	0744.5	0745.1	III	G	1	45	70	
			BLEN	0756.6	0757.2	III	GG	1	280	450	
			IZMI	0829.9	0830.1	III	G	2	25X	65	
			SVTO	0830.0	0830.0	III		1	25	65	
			IZMI	0924.2	0924.4	III	B	1	45	70	
			BLEN	0925.8	0929.7	III	GG	2	150	500	
			SVTO	1144.0	1146.0	III		1	25	151	
			IZMI	1144.7	1145.2	III	G,C	2	45	160	
			IZMI	1148.0	1148.1	III	B	1	45	95	
			SVTO	1204.0	1204.0	III		1	25	52	
			BLEN	1205.6	1206.7	III	GG	2	150	600X	
			SVTO	1221.0	1352.0	III	N	3	25	180	
			SGMR	1229.0	1235.0	III		2	30	80	
			BLEN	1232.3	1235.3	III	GG	3	110X	600X	
			HOLL	1234.0	1235.0	III		2	25	180	
			BLEN	1254.4	1256.9	III	GG	2	110X	600X	
			HOLL	1256.0	1257.0	III		1	25	119	
			SGMR	1256.0	1257.0	III		1	30	80	
			HOLL	1449.0	2138.0	III	N	1	25	88	
			SVTO	1449.0	1524.0	III	N	1	25	82	
			BLEN	1500.0	1501.1	III	GG	2	120	500	
			SGMR	1500.0	2103.0	III	N	1	30	65	
			BLEN	1514.0	1515.2	DCIM	P	2	300	600X	
			BLEN	1521.9	1524.7	III	GG,RS	2	150	600X	
			SVTO	1527.0	1749.0	CONT		1	25	83	
			BLEN	1551.7	1559.4	III	GG	2	150	520	
			BLEN	1623.3	1624.7	III	GG,RS	2	150	520	
			BLEN	1708.5	1711.2	III	GG	1	200	420	
			BLEN	1722.1	1722.6	III	GG	1	110	550	
			PALE	1826.0	1908.0	III	N	1	25	180	
	1919	2400	HIRA	2005.5	2006.0	III	B	1	150	220	
	2100	2400	CULG								
			HIRA	2123.0	2124.0	III	G	2	50	120	
			PALE	2123.0	2123.0	III		1	25	87	
			HOLL	2258.0	2358.0	III	N	1	25	86	
02			LEAR	0107.0	0107.0	III		1	66	112	
			LEAR	0156.0	0157.0	III		1	25	145	
			PALE	0156.0	0333.0	III	N	1	25	95	
	0000	0951	HIRA	0157.0	0157.5	III	B	1	25X	240	
			SVTO	0414.0	0414.0	III		1	25U	81U	
			HIRA	0414.5	0415.0	III	B	1	25X	100	
	0415	1743	ONDR								
	0504	1200	IZMI	0444.0U	1200.0D	III	N	1	45	95	
			SVTO	0549.0	0945.0	III	N	1	25	180	
			IZMI	0549.5	0551.7	III	G	2	30	95	
	0000	0700	CULG	0550.0	0552.0	III	G	1	30	60	
			CULG	0557.0	0557.0	III	B	1	25	50	
			IZMI	0604.1	0604.2	III	B	2	45	95	
			IZMI	0606.4	0606.8	III	B	1	45	95	
			CULG	0634.0	0637.0	III	G	1	30	100	
			IZMI	0634.2	0637.3	III	G	2	45	120	
			IZMI	0655.2	0657.3	III	GG	2	30	100	
			IZMI	0659.7	0659.9	III	B	2	45	100	
			IZMI	0703.1	0706.4	III	GG	2	25X	90	
			LEAR	0705.0	0733.0	III	N	1	25	180	

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

JUNE 2001

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			IZMI	0711.8	0713.6	III	G	2	45	95	
			IZMI	0717.2	0719.2	III	GG	2	25X	140	
			IZMI	0720.6	0722.8	III	GG	2	25X	160	
	0430	1815	BLEN	0720.8	0724.8	III	GG	2	110X	340	
			HIRA	0723.5	0724.0	III	B	2	150	240	
			IZMI	0723.6	0725.6	III	GG	2	45	270X	
			IZMI	0732.7	0734.7	III	GG	2	25X	260	
			IZMI	0849.0U	1200.0D	I	N	1	60	220	
			IZMI	1025.9	1026.1	III	G,HARM	2	45	95	
			IZMI	1041.0	1041.3	III	G,C	2	45	160	
			IZMI	1042.3	1042.4	III	B	1	45	95	
			SVTO	1115.0	1351.0	III	N	1	25	150	
			IZMI	1115.4	1115.6	III	B	2	45	70	
			IZMI	1135.6	1135.9	III	G	2	25	170	
			IZMI	1141.0	1141.3	III	B	2	25X	95	
			IZMI	1144.7	1145.0	III	B	2	30	95	
			SGMR	1247.0	1248.0	III		1	30	60	
			BLEN	1310.0	1815.0X	I	N	1	130	350	
			HOLL	1437.0	1440.0	III		1	25	62	
			SGMR	1437.0	1516.0	III	N	1	30	55	
			SVTO	1437.0	1559.0	III	N	1	25	143	
			HOLL	1515.0	1518.0	III		1	25	142	
			HOLL	1658.0	2055.0	III	N	1	25	74	
			SVTO	1658.0	1707.0	III		1	25U	82U	
			PALE	1912.0	1920.0	III		1	25	50	
			HOLL	2007.0	2010.0	III		1	25	86	
			PALE	2007.0	2010.0	III		1	25	80	
			SGMR	2007.0	2010.0	III		1	30	70	
	1919	2400	HIRA	2008.5	2010.5	III	G	1	25X	180	
	2100	2400	CULG								
			HOLL	2255.0	2256.0	III		1	25	85	
			HIRA	2255.5	2256.0	III	B	1	40	300	
			HOLL	2321.0	2322.0	III		1	25	82	
03			LEAR	0155.0	0156.0	III		1	25	118	
			PALE	0156.0	0156.0	III		1	25	70	
	0000	0700	CULG	0156.0	0156.0	III	B	1	28	65	
	0000	0952	HIRA	0156.0	0156.5	III	B	1	40	280	
	0414	1744	ONDR								
	0430	1815	BLEN	0440.0X	1815.0X	I	DC	2	110X	320	
	0450	1200	IZMI	0450.0E	1200.0D	I	N	1	60	270	
			IZMI	0451.0	1200.0D	III	N	1	45	95	
			IZMI	0459.7	0500.0	III	G	2	45	95	
			CULG	0500.0	0500.0	III	B	1	23	45	
			CULG	0605.0	0605.0	III	B	1	25	55	
			CULG	0628.0	0648.0	III	N	1	23	80	
			IZMI	0628.2	0628.4	III	B	2	30	100	
			IZMI	0647.3	0647.5	III	B	2	40	100	
			CULG	0658.0	0700.0	III	G	2	28	140	
			LEAR	0658.0	0700.0	III		2	25	154	
			SVTO	0658.0	0701.0	III		2	25	162	
			IZMI	0658.2	0700.5	III	GG	2	25X	265	
			HIRA	0658.5	0700.0	III	G	2	25X	150	
			HIRA	0840.0	0844.0	III	G	1	40	320	
			LEAR	0840.0	0844.0	III		2	25	180	
			SVTO	0840.0	0919.0	III	N	2	25	180	
			IZMI	0840.1	0844.2	III	GG,FS	2	25X	270	
			BLEN	0840.2	0844.7	III	GG,S	1	110X	420	
			IZMI	0851.7	0858.5	III	GG	2	25X	100	
			IZMI	0901.3	0910.2	III	GG	2	45	95	
			IZMI	0950.3	0950.9	III	G	2	45	70	
			SGMR	1026.0	1027.0	III		1	30	70	
			SVTO	1026.0	1027.0	III		2	25	180	
			IZMI	1026.4	1028.6	III	GG,FS	2	25X	270X	
			BLEN	1026.7	1027.3	III	GG	3	110X	320	
			IZMI	1026.8	1028.0	V	G	2	45	240	
			HOLL	1406.0	1437.0	III	N	1	25	91	
			SVTO	1406.0	1437.0	III	N	1	25	130	
			SGMR	1409.0	1754.0	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

JUNE 2001

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			SVTO	1534.0	1750.0	III	N	2	25	180	
			BLEN	1537.2	1540.9	III	GG,S	1	110X	230	
			PALE	1655.0	1655.0	III		1	25	63	
			HOLL	1712.0	0108.0	III	N	2	25	180	
			PALE	1712.0	1713.0	III		1	25	60	
			PALE	1741.0	2124.0	III	N	2	25	180	
			BLEN	1748.0	1748.2	III	G,RS	1	160	330	
			SGMR	1847.0	1849.0	III		1	30	60	
			HOLL	1932.0	1942.0	III		1	25	180	
			SGMR	1932.0	2123.0	III	N	2	30	80	
			HOLL	2059.0	2104.0	III		2	25	180	
			SGMR	2100.0	2104.0	III		3	30	80	
	1918	2400	HIRA	2100.5	2104.0	III	B	3	25X	200	
	2100	2400	CULG	2101.0	2103.0	III	G	2	28	180	
			HOLL	2110.0	2124.0	III		2	25	180	
			HIRA	2111.0	2123.5	III	G	2	25X	500	
			CULG	2113.0	2121.0	III	G	1	30	90	
04			LEAR	0348.0	0349.0	III		1	25	143	
			PALE	0348.0	0349.0	III		1	25	115	
			SVTO	0348.0	0348.0	III		1	25	118	
	0000	0700	CULG	0348.0	0349.0	III	G	1	20	70	
	0000	0953	HIRA	0348.0	0348.5	III	B	2	25X	110	
			LEAR	0409.0	0411.0	III		1	25	131	
			PALE	0410.0	0411.0	III		1	25	55	
			SVTO	0410.0	0419.0	III		1	25	131	
			HIRA	0410.5	0411.0	III	B	1	40	110	
			LEAR	0418.0	0419.0	III		2	25	125	
			PALE	0418.0	0419.0	III		1	25	120	
			HIRA	0418.5	0419.0	III	B	1	25X	130	
			CULG	0419.0	0419.0	III	B	1	20	80	
			CULG	0433.0	0433.0	III	B	1	20	80	
			LEAR	0433.0	0442.0	III		1	25	106	
			PALE	0433.0	0433.0	III		1	25	60	
			SVTO	0433.0	0442.0	III		1	25	126	
			HIRA	0433.5	0434.0	III	B	1	25X	120	
			HIRA	0439.5	0440.0	III	B	1	40	110	
			CULG	0440.0	0443.0	III	G	1	20	50	
	0430	1815	BLEN	0440.0X	1815.0X	I	DC	2	160	330	
	0450	1200	IZMI	0450.7	0451.0	III	B	2	40	100	
			IZMI	0456.0	0800.0U	III	N	1	45	95	
			IZMI	0457.4	0457.6	III	B	2	45	70	
			IZMI	0520.0	0540.0U	I	S	1	45	180	
			IZMI	0520.8	0525.3	III	GG	2	30	180	
			CULG	0522.0	0622.0	III	N	1	25	90	
			LEAR	0522.0	0530.0	III		1	30	130	
			SVTO	0524.0	0614.0	III	N	1	25	145	
			IZMI	0527.9	0533.0	III	GG	2	25X	125	
			IZMI	0550.1	0550.2	III	B	2	40	95	
			IZMI	0614.3	0614.5	III	B	1	30	95	
			HIRA	0652.0	0652.5	III	B	1	70	500	
			IZMI	0654.3	0654.5	III	B	1	45	95	
			IZMI	0655.9	0656.0	III	B	2	40	95	
			IZMI	0702.6	0702.9	III	G	2	45	175	
			SVTO	0730.0	0915.0	III	N	1	25	83	
			IZMI	0730.1	0732.2	III	GG	2	25X	110	
			IZMI	0742.2	0742.4	III	G	2	25X	95	
			IZMI	0745.9	0747.4	III	G	2	40	80	
			IZMI	0750.8	0755.5	III	G	2	25X	115	
			IZMI	0800.0	0803.0	III	G	2	25X	230	
			HIRA	0801.0	0802.5	III	G	1	50	200	
			LEAR	0801.0	0826.0	III	N	2	25	180	
			SVTO	0801.0	0826.0	III	N	3	25	180	
			BLEN	0801.3	0809.5	III	GG	1	110X	400	
			IZMI	0803.0	0804.6	III	GG	2	25X	150	
			IZMI	0804.7	0811.2	III	S,C	2	25X	270X	
			HIRA	0805.0	0818.0	III	G	3	25X	400	
	0413	1745	ONDR	0806.3	0809.4	DCIM	G	2	800X	2000X	
			BLEN	0806.7	0812.3	DCIM	P	2	380	600X	

SOLAR RADIO EMISSION
Spectral Observations

JUNE 2001

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			BLEN	0809.5	0812.3	II		2	110X	500	
			IZMI	0811.5	0812.4	III	GG	3	25	200	
			IZMI	0811.7	0812.7	CONT		2	30	100	
			IZMI	0811.7	0813.3U	I	GG,DC	2	120	175	
			IZMI	0812.6	0823.0U	III	S	2	25	270X	
			IZMI	0813.3	0817.0U	CONT		2	40	160	
			IZMI	0814.4	0819.1	II		1	45	100	
			IZMI	0815.0U	0835.0U	I	S	2	45	160	
			IZMI	0825.4	0827.9	III	GG,FS	2	45	95	
			SVTO	0826.0	0840.0	CONT		1	25	79	
			IZMI	0830.0U	0842.0U	III	N	1	45	95	
			IZMI	0947.5	0947.7	III	G	2	45	70	
			IZMI	1007.7	1007.7	III	B	2	45	95	
			IZMI	1031.0U	1200.0D	III	N	1	45	95	
			SVTO	1101.0	1110.0	III		1	25	61	
			IZMI	1101.5	1101.9	III	G	2	40	95	
			IZMI	1110.4	1110.6	III	B	2	25X	70	
			SVTO	1208.0	1211.0	V		2	25	132	
			HOLL	1209.0	1314.0	III	N	1	25	180	
			SGMR	1209.0	1250.0	III	N	2	30	80	
			SVTO	1234.0	1314.0	III	N	3	25	180	
			SVTO	1347.0	1603.0	III	N	2	25	180	
			HOLL	1348.0	1352.0	III		1	25	55	
			HOLL	1407.0	1722.0	III	N	1	25	124	
			SGMR	1430.0	1715.0	III	N	3	30	80	
			BLEN	1500.8	1514.2	III	GG,U	2	110X	360	
			HOLL	1512.0	1514.0	V		2	25	175	
			SVTO	1512.0	1515.0	III		2	25	180	
			ONDR	1512.3	1515.4	DCIM	G	2	2000X	4500X	
			HOLL	1614.0	1640.0	II		1	60	151	ESS 0442
			SVTO	1622.0	1640.0	II		2	25	180	ESS 0390
			HOLL	1628.0	1640.0	III		2	25	130	
			SGMR	1630.0	1634.0	II		2	03	50	ESS 0500
			SGMR	1630.0	1634.0	II		2	30	50	ESS 0500
			SVTO	1640.0	1751.0	CONT		1	113U	180U	
			PALE	1715.0	1715.0	III		1	25	52	
			HOLL	1810.0	0054.0	III	N	1	25	49	
			HOLL	1810.0	1830.0	III		1	25	49	
			HOLL	1810.0	1830.0	III	N	1	25	49	
			PALE	1810.0	1811.0	III		1	25	65	
			SGMR	1810.0	1811.0	III		1	30	45	
			PALE	1902.0	2209.0	III	N	2	25	90	
			SGMR	1902.0	1910.0	III	N	2	30	80	
			SGMR	2017.0	2017.0	III		1	30	65	
	1918	2400	HIRA	2017.0	2017.5	III	B	1	25X	200	
			HIRA	2220.0	2223.0	III	G	2	25X	160	
			HOLL	2220.0	2223.0	V		1	25	150	
			SGMR	2220.0	2223.0	V		1	30	80	
	2100	2400	CULG	2220.0	2222.0	III	G	1	28	80	
			HIRA	2225.5	2226.0	III	B	1	30	230	
			HIRA	2308.5	2309.0	III	B	2	100	500	
			LEAR	2314.0	0126.0	III	N	1	25	180	
			PALE	2314.0	0124.0	III	N	2	25	180	
			HIRA	2318.5	2319.0	III	B	2	25X	120	
05			HOLL	0034.0	0036.0	III		1	25	180	
			LEAR	0034.0	0036.0	III		2	25	180	
	0000	0700	CULG	0035.0	0042.0	III	G	1	20	150	
	0000	0953	HIRA	0035.0	0036.5	III	G	3	25X	200	
			LEAR	0354.0	0355.0	III		1	25	95	
			PALE	0354.0	0354.0	III		1	25	48	
			SVTO	0354.0	0355.0	III		1	25	46	
			LEAR	0402.0	0515.0	III	N	1	25	117	
			CULG	0425.0	0425.0	III	B	1	50	100	
	0430	1815	BLEN	0440.0X	1815.0X	I	DC	2	120	320	
			CULG	0443.0	0457.0	III	GG	3	18X	300	
			HIRA	0443.0	0457.0	III	G	3	25X	1700	
			LEAR	0443.0	0502.0	III	N	3	25	180	
			PALE	0443.0	0453.0	III		3	25	180	

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

JUNE 2001

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
05			SVTO	0443.0	0502.0	III	N	3	25	180	
			BLEN	0443.8	0452.7	DCIM	P	3	110X	2800X	
			CULG	0456.0	0507.0	I	S	1	40	75	
			IZMI	0458.0E	0511.0	IV		2	45	70	
	0458	1200	IZMI	0458.0E	1200.0D	I	N	2	160	270X	
			IZMI	0501.3	0502.3	III	G	2	25X	270X	
			CULG	0502.0	0502.0	III	B	1	20	90	
			HIRA	0502.0	0502.5	III	B	1	25X	80	
			IZMI	0503.9	0504.3	UNCLF		2	40	100	
			SVTO	0504.0	0510.0	III		2	25	180	
			LEAR	0508.0	0510.0	III		3	25	180	
			HIRA	0508.5	0509.0	III	B	2	25X	230	
			IZMI	0508.6	0509.1	III	G	2	25X	270X	
			CULG	0509.0	0510.0	III	G	2	18	100	
			IZMI	0509.6	0510.0	III	G	2	25X	140	
			IZMI	0620.4	0620.7	III	B	1	40	70	
			LEAR	0832.0	0832.0	III		1	25	123	
			SVTO	0832.0	0833.0	III		1	25	83	
			IZMI	0832.4	0833.1	III	G	2	25X	150	
			IZMI	0851.1	0852.7	III	GG	2	30	105	
			IZMI	0904.3	0905.0	III	G	2	25	95	
			IZMI	0933.7	0933.9	III	B	1	45	90	
			IZMI	0941.5	0946.8	I	GG,DC	2	185	260	
			IZMI	0948.0	0949.5	III	GG	2	25	100	
			IZMI	1022.7	1026.0	III	GG	2	25X	160	
			IZMI	1030.5	1035.6	III	GG	2	25X	120	
			IZMI	1102.6	1102.7	III	B	1	45	95	
			IZMI	1122.9	1123.0	III	B	1	45	90	
			IZMI	1135.3	1136.9	III	G	1	45	95	
			IZMI	1149.4	1149.5	III	B	1	45	70	
			HOLL	1202.0	0130.0	III	N	1	25	143	
			SVTO	1220.0	1226.0	III		1	25	61	
			SVTO	1251.0	1251.0	III		2	25	63	
			SGMR	1327.0	1328.0	III		1	30	65	
			SVTO	1327.0	1328.0	III		2	25	150	
	0413	1745	ONDR	1418.4	1420.5	DCIM		1	2000X	4500X	
			ONDR	1418.5	1420.3	DCIM	GG	1	800X	2000X	
			SVTO	1456.0	1633.0	III	N	2	25	89	
			SGMR	1528.0	1528.0	III		1	30	45	
			SGMR	1628.0	1633.0	III		1	30	80	
			SGMR	1803.0	1809.0	III		1	30	60	
			PALE	1806.0	1841.0	III	N	1	25	50	
			PALE	1939.0	1940.0	III		1	25	99	
			SGMR	1939.0	1940.0	III		1	30	70	
	1918	2400	HIRA	1939.5	1940.0	III	B	1	25X	70	
			HIRA	2013.0	2013.5	III	B	1	25X	60	
	2100	2400	CULG	2128.0	2130.0	III	G	1	25	150	
			PALE	2129.0	2130.0	III		1	25	90	
			SGMR	2129.0	2130.0	III		1	30	65	
			HIRA	2129.5	2131.0	III	G	1	25X	170	
			CULG	2257.0	2400.0D	III	N	1	25	170	
			HIRA	2313.0	2313.5	III	B	1	25X	160	
			PALE	2313.0	0402.0	III	N	1	25U	142U	
			LEAR	2315.0	0928.0	III	N	2	25	180	
			HIRA	2345.5	2346.0	III	B	1	30	190	
06	0000	0700	CULG	0000.0E	0035.0	III	N	1	25	160	
	0000	0954	HIRA	0002.0	0002.5	III	B	1	30	100	
			HIRA	0020.0	0022.0	III	G	1	25X	180	
			LEAR	0052.0	0928.0	CONT		1	106	180	
			CULG	0103.0	0700.0D	I	S	1	70	180	
			CULG	0144.0	0249.0	III	N	1	18	180	
			HIRA	0146.0	0147.5	III	G	1	25X	220	
			HIRA	0206.0	0206.5	III	B	2	25X	110	
			CULG	0252.0	0304.0	III	GG	2	20	160	
			HIRA	0252.0	0253.0	III	G	2	30	180	
			HIRA	0256.0	0257.0	III	G	1	25X	130	
			HIRA	0300.0	0301.0	III	G	2	40	130	
			CULG	0332.0	0700.0D	III	N	1	20	180	

SOLAR RADIO EMISSION
Spectral Observations

JUNE 2001

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
06			HIRA	0332.0	0345.0	III	G	1	25X	210	
			SVTO	0342.0	0719.0	III	N	2	25	180	
			SVTO	0408.0	0550.0	CONT		1	111U	150U	
	0413	1746	ONDR								
	0430	1815	BLEN	0437.5	0437.9	III	GG,RS	2	430	600X	
			HIRA	0444.5	0445.0	III	B	3	25X	110	
			CULG	0445.0	0445.0	III	B	3	18	140	
	0451	1200	IZMI	0451.0E	1200.0D	I	S	2	105	270X	
			IZMI	0451.1	0451.6	III	G	2	25	95	
			IZMI	0454.0	1200.0D	III	N	1	40	95	
			IZMI	0511.4	0512.7	III	G	2	40	270X	
			CULG	0522.0	0522.0	III	B	2	20	70	
			IZMI	0522.1	0523.5	III	G	2	25X	95	
			IZMI	0542.9	0545.6	III	GG	2	25X	160	
			LEAR	0543.0	0546.0	III		3	25	180	
			HIRA	0543.5	0546.0	III	G	3	25X	200	
			CULG	0544.0	0546.0	III	G	3	18X	200	
			IZMI	0545.6	0546.4	III	G,FS	2	25X	270X	
			IZMI	0607.5	0610.0	III	G	1	25X	95	
			IZMI	0618.4	0624.5	III	GG	2	25	145	
			HIRA	0618.5	0622.0	III	G	2	50	190	
			BLEN	0618.6	0619.1	DCIM	P	2	350	600X	
			IZMI	0642.8	0643.7	III	GG	2	30	120	
			IZMI	0705.7	0706.3	III	GG	2	30	95	
			IZMI	0718.6	0723.1	III	GG	2	45	150	
			IZMI	0734.7	0734.8	III	B	2	45	145	
			HIRA	0816.0	0825.5	III	G	2	60	200	
			SVTO	0816.0	0825.0	III		2	25	180	
			IZMI	0816.1	0825.8	III	S	2	25X	250	
			IZMI	0952.6	0953.0	III	G	2	30	95	
			IZMI	1003.1	1003.1	III	B	2	130	270X	
			IZMI	1008.5	1008.7	III	B	1	45	105	
			IZMI	1026.5	1030.8	III	GG	2	25X	160	
			SVTO	1027.0	1752.0	III	N	2	25	180	
			IZMI	1033.9	1034.7	III	GG,FS	2	45	140	
			IZMI	1049.8	1051.0	III	G	2	40	70	
			IZMI	1055.1	1055.2	III	B	1	25X	95	
			IZMI	1126.4	1126.6	III	B	2	25	70	
			IZMI	1133.1	1134.1	III	GG	2	25X	145	
			IZMI	1137.3	1137.5	III	G	2	45	150	
			IZMI	1148.0	1148.1	III	G	2	25X	80	
			SGMR	1148.0	2353.0	III	N	3	30	80	
			IZMI	1151.7	1152.2	III	G	2	25	260	
			HOLL	1235.0	1238.0	III		1	25	180	
			BLEN	1235.2	1237.1	DCIM	P,F	2	380	1415X	
			BLEN	1235.2	1238.5	III	GG,S	3	110X	550	
			HOLL	1303.0	1306.0	III		1	25	180	
			SVTO	1303.0	1307.0	V		3	25	180	
			BLEN	1303.5	1305.4	DCIM	P	3	110X	1420	
			BLEN	1331.7	1331.9	III	S	2	110X	580	
			BLEN	1344.0	1348.5	III	GG,S	2	110X	600X	
			HOLL	1344.0	1345.0	III		1	25	180	
			HOLL	1431.0	1434.0	III		1	25	87	
			BLEN	1431.2	1433.1	III	GG,S	2	110X	600X	
			HOLL	1457.0	0203.0	III	N	2	25	180	
			BLEN	1509.9	1510.2	III	GG,S	2	130	450	
			PALE	1712.0	0358.0	III	N	3	25	180	
			BLEN	1713.7	1713.9	III	G	2	180	590	
			SGMR	1722.0	1728.0	III		2	30	80	
			SGMR	1845.0	1848.0	III		3	30	80	
			SGMR	1933.0	1935.0	III		3	30	80	
	1918	2400	HIRA	1933.0	1935.5	III	G	3	25X	500	
			HIRA	2003.0	2003.5	III	B	1	25X	130	
			HIRA	2013.5	2014.0	III	B	1	25X	130	
	2100	2400	CULG	2116.0	2140.0	III	GG	2	25	550	
			SGMR	2121.0	2124.0	III		1	30	80	
			HIRA	2122.0	2131.0	III	G	2	25X	600	
			HIRA	2135.0	2135.5	III	B	1	30	140	
			HIRA	2139.5	2140.0	III	B	1	210	500	

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

JUNE 2001

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
06			CULG	2205.0	2400.0D	III	N	1	23	180	
			CULG	2207.0	2207.0	III	B	2	28	140	
			HIRA	2207.0	2208.0	III	B	2	25X	500	
			HIRA	2209.5	2210.0	III	B	1	40	210	
			HIRA	2215.0	2215.5	III	B	1	40	130	
			HIRA	2228.0	2229.0	III	B	1	25X	220	
			CULG	2315.0	2315.0	III	B	2	20	550	
			HIRA	2315.0	2315.5	III	B	2	25X	700	
			LEAR	2315.0	0724.0	III	N	3	25	180	
			LEAR	2315.0	0832.0	CONT		1	46	180	
			CULG	2318.0	2318.0	III	B	1	45	550	
			HIRA	2318.0	2320.0	III	G	2	180	600	
			CULG	2338.0	2339.0	III	G	3	18	550	
			HIRA	2338.5	2339.0	III	B	3	25X	580	
			HIRA	2349.0	2349.5	III	B	2	25X	120	
			HIRA	2358.5	2359.0	III	B	2	60	140	
07	0000	0700	CULG	0000.0E	0115.0	III	N	1	23	180	
	0000	0954	HIRA	0042.5	0043.0	III	B	2	30	400	
			CULG	0043.0	0043.0	III	B	2	30	180	
			CULG	0106.0	0110.0	III	GG	2	30	200	
			HIRA	0106.0	0110.0	III	G	2	40	190	
			CULG	0137.0	0146.0	III	GG	2	35	180	
			HIRA	0138.5	0139.5	III	B	1	25X	140	
			LEAR	0142.0	0146.0	III		3	81	180	
			HIRA	0142.5	0144.0	III	G	2	25X	160	
			CULG	0143.0	0144.0	III	G	3	30	170	
			CULG	0210.0	0215.0	III	G	1	30	160	
			HIRA	0210.0	0213.0	III	G	1	30	160	
			CULG	0247.0	0250.0	III	G	2	25	300	
			HIRA	0249.0	0258.0	III	B	2	30	180	
			CULG	0251.0	0425.0	III	N	1	20	170	
			CULG	0355.0	0358.0	III	G	2	18	180	
			HIRA	0355.0	0358.0	III	G	2	25X	320	
			SVTO	0356.0	0357.0	III		1	25	180	
	0412	1746	ONDR								
	0430	1815	BLEN	0430.0X	1815.0X	I	DC	2	170	450	
	0450	1200	IZMI	0450.0E	1200.0D	I	N	1	45	270X	
			IZMI	0455.4	0456.0	III	GG	2	45	270X	
			BLEN	0455.5	0513.1	DCIM	P	3	165	580	
			CULG	0456.0	0456.0	III	B	1	30	260	
			IZMI	0502.9	0506.8	III	GG,FS	2	25X	270X	
			CULG	0503.0	0512.0	III	GG	1	18	320	
			SVTO	0504.0	0511.0	III		1	25U	83U	
			HIRA	0504.5	0505.0	III	B	1	50	100	
			IZMI	0508.0	1200.0	III	N	2	45	95	
			IZMI	0509.8	0514.2	III	GG	2	25X	270X	
			CULG	0531.0	0700.0D	III	N	1	25	180	
			IZMI	0543.6	0544.4	III	G	2	25X	270	
			SVTO	0544.0	1128.0	III	N	1	25	163	
			IZMI	0605.8	0605.9	III	B	2	45	115	
			IZMI	0610.0	0611.1	III	GG,FS	2	45	260	
			IZMI	0618.0	0618.4	III	G	2	40	90	
			BLEN	0619.1	0629.9	III	GG,S	3	110X	530	
			SVTO	0625.0	0627.0	III		2	25	180	
			IZMI	0625.6	0627.2	III	GG,FS,C	2	25X	270X	
			CULG	0626.0	0627.0	III	G	2	25	180	
			HIRA	0626.0	0627.0	III	B	1	40	220	
			IZMI	0628.6	0631.6	III	GG	2	25X	215	
			IZMI	0646.2	0656.3	III	N	2	45	105	
			BLEN	0658.5	0659.9	III	GG,S	2	110X	530	
			IZMI	0700.7	0705.4	III	GG	2	25X	270X	
			SVTO	0701.0	0705.0	III		2	25	138	
			BLEN	0702.4	0711.7	DCIM	P	3	170	450	
			HIRA	0703.0	0705.0	III	G	2	25X	180	
			IZMI	0706.5	0712.6	III	S,C	2	160	270X	
			IZMI	0707.4	0709.8	III	G	2	25	120	
			IZMI	0808.4	0810.0	III	G	2	30	95	
			IZMI	0819.0	0819.2	III	B	1	50	95	

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

JUNE 2001

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
07			IZMI	0824.9	0825.0	III	B	2	45	105	
			IZMI	0832.1	0832.7	III	G	2	45	95	
			IZMI	0918.3	0921.1	III	GG	2	25	160	
			IZMI	0925.6	0926.7	III	GG,FS	2	40	160	
			SVTO	1055.0	1753.0	CONT		1	25	180	
			IZMI	1103.7	1104.0	III	G	2	25X	105	
			IZMI	1108.5	1108.6	III	B	1	45	95	
			IZMI	1151.7	1152.1	III	GG	2	25X	90	
			BLEN	1301.1	1301.5	III	G,U	2	280	440	
			BLEN	1335.0	1335.5	III	GG	2	200	360	
			HOLL	1345.0	1428.0	III	N	1	25	143	
			SGMR	1345.0	1347.0	III		1	30	65	
			HOLL	1612.0	1625.0	III	N	1	25	142	
			BLEN	1612.5	1613.4	III	GG,U	3	300	600X	
			SGMR	1615.0	1617.0	III		1	30	70	
			BLEN	1711.7	1712.3	III	GG,S	2	120	300	
			HOLL	1727.0	1730.0	III		1	25	66	
			SGMR	1727.0	1728.0	III		1	30	50	
			HOLL	1906.0	1913.0	V		2	25	180	
			SGMR	1906.0	1915.0	V		3	30	80	
	1917	2400	HIRA	1929.5	1930.0	III	B	1	50	210	
			HIRA	2134.0	2134.5	III	B	1	100	170	
	2100	2400	CULG	2135.0	2135.0	III	B	1	60	160	
08			HOLL	0004.0	0005.0	III		1	25	171	
			LEAR	0004.0	0008.0	III		1	25	180	
			PALE	0005.0	0005.0	III		1	25	180	
	0000	0700	CULG	0005.0	0009.0	III	G	1	20	180	
	0000	0955	HIRA	0005.0	0006.0	III	B	1	25X	270	
			CULG	0024.0	0025.0	III	G	1	25	160	
			LEAR	0024.0	0024.0	III		2	25	180	
			PALE	0024.0	0024.0	III		1	25U	150U	
			HIRA	0024.5	0025.0	III	B	2	25X	310	
			CULG	0045.0	0045.0	III	B	1	20	90	
			CULG	0056.0	0056.0	III	B	1	20	90	
			CULG	0220.0	0220.0	III	B	1	50U	110	
			LEAR	0220.0	0225.0	III		1	25	180	
			HIRA	0222.5	0225.0	III	G	1	80	400	
			CULG	0223.0	0226.0	III	G	1	30	250	
			CULG	0232.0	0245.0	II	SH	2	30X	90	ESS 600
			LEAR	0237.0	0249.0	II		1	25	63	ESS 0500
			PALE	0237.0	0245.0	II		1	31	55	ESS 0300
			CULG	0257.0	0325.0	I	S	1	60	170	
	0412	1748	ONDR								
	0430	1815	BLEN	0430.0X	1815.0X	I	DC	3	120	420	
	0508	1200	IZMI	0508.0E	1200.0D	I	N	2	70	270X	
			HIRA	0511.5	0512.0	III	B	2	200	670	
			BLEN	0511.8	0512.0	III	GG,RS	3	260	1415	
			IZMI	0511.8	0511.9	III	G	2	190	270X	
			IZMI	0538.6	0540.3	III	G	1	45	95	
			IZMI	0542.0U	1200.0D	III	N	1	45	95	
			CULG	0544.0	0700.0D	I	S	1	110	180	
			IZMI	0600.0	0600.3	III	B	1	45	100	
			BLEN	0731.9	0740.5	III	GG,RS	2	300	520	
			HIRA	0732.0	0732.5	III	B	1	340	400	
			LEAR	0759.0	0928.0	CONT		1	68	180	
			IZMI	0829.5	0829.8	III	G	1	50	250	
			IZMI	0835.2	0917.7	III	S	2	25X	95	
			SVTO	0839.0	0958.0	CONT		1	25	180	
			IZMI	0842.2	0845.4	III	GG,FS	2	25X	210	
			LEAR	0843.0	0844.0	III		1	25	180	
			IZMI	0848.0U	0955.0U	I	S	2	45	95	
			IZMI	0901.1	0912.7	III	GG	3	25X	75	
			BLEN	0919.5	0928.0	III	GG	2	140	420	
			IZMI	0926.0	0926.6	III	G,FS	2	25X	270X	
			IZMI	1017.4	1019.6	III	G	2	45	270X	
			SVTO	1036.0	1037.0	III		1	25U	82U	
			IZMI	1036.3	1037.7	III	G,C	2	25X	160	
			BLEN	1049.9	1050.5	III	GG	2	270	550	

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

JUNE 2001

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
08			IZMI	1056.9	1100.5	I	GG	2	45	95	
			BLEN	1110.0	1440.0	III	N	2	260	600	
			IZMI	1114.8	1115.4	III	G	2	25X	150	
			IZMI	1114.9	1115.4	V	G	2	25X	140U	
			SGMR	1115.0	1115.0	III		2	30	70	
			SVTO	1115.0	1116.0	III		2	25	142	
			IZMI	1116.0	1117.2	III	G,FS	2	30	100	
			IZMI	1140.1	1146.6	III	G	2	45	95	
			HOLL	1312.0	1315.0	III		1	25	86	
			SVTO	1313.0	1315.0	III		2	25U	85U	
			SGMR	1314.0	1315.0	III		1	30	80	
			HOLL	1356.0	1402.0	III		1	25	180	
			SGMR	1356.0	1404.0	III		1	30	75	
			SVTO	1356.0	1403.0	III		1	25	180	
			HOLL	1539.0	1540.0	III		1	25	70	
			SVTO	1544.0	1753.0	III	N	1	31	160	
			HOLL	1557.0	2352.0	III	N	1	25	81	
			HOLL	1635.0	0200.0	CONT		1	25	80	
			SGMR	1747.0	1748.0	III		1	30	65	
			HOLL	1920.0	1926.0	III		2	25	180	
			PALE	1920.0	1926.0	III		2	25	180	
			SGMR	1921.0	1926.0	III		3	30	80	
	1917	2400	HIRA	1921.0	1925.5	III	G	3	25X	190	
	2105	2400	CULG	2105.0E	2400.0D	I	S	1	60	170	
			CULG	2200.0	2400.0D	III	S	1	25	140	
			PALE	2233.0	2234.0	III		1	25	50	
			PALE	2257.0	2258.0	III		1	25	66	
			LEAR	2316.0	0033.0	III	N	1	25	175	
			PALE	2331.0	2332.0	III		1	25	75	
09			CULG	0000.0E	0700.0D	III	S	2	23	120	
	0000	0700	CULG	0000.0E	0700.0D	I	S	1	60	180	
			LEAR	0037.0	0928.0	CONT		1	58U	180U	
			PALE	0047.0	0353.0	III	N	1	25	75	
			PALE	0137.0	0455.0	CONT		1	25	75	
			SVTO	0350.0	1311.0	CONT		1	25	180	
	0412	1748	ONDR								
	0430	1815	BLEN	0430.0X	1815.0X	I	DC	3	130	350	
	0451	1200	IZMI	0451.0E	1200.0D	I	S	2	45	270X	
			IZMI	0515.0U	1200.0D	III	N	2	25X	95	
			BLEN	0532.5	0533.2	III	GG	2	130	500	
			IZMI	0532.5	0533.2	III	GG	2	90	270X	
	0000	0955	HIRA	0532.5	0533.5	III	B	1	120	380	
			IZMI	0614.9	0615.3	III	G	3	25X	130	
			CULG	0615.0	0615.0	III	B	3	23	110	
			HIRA	0615.0	0615.5	III	B	3	25X	120	
			LEAR	0615.0	0615.0	III		2	25	128	
			SVTO	0615.0	0615.0	III		2	25	121	
			IZMI	0619.5	0619.7	III	B	2	45	125	
			IZMI	0623.0	0624.1	III	G	2	40	105	
			IZMI	0659.2	0659.3	III	B	2	40	120	
			IZMI	0703.4	0703.9	III	G	2	25X	80	
			IZMI	0713.5	0732.0	III	G	2	25X	95	
			IZMI	0805.6	0806.1	III	G,C	2	25X	70	
			IZMI	0843.1	0849.4	III	GG	2	25X	95	
			IZMI	0910.1	0914.6	III	GG	2	40	95	
			IZMI	1009.8	1011.4	III	GG	2	45	95	
			BLEN	1019.7	1020.8	III	GG,U	2	130	600X	
			IZMI	1020.2	1020.6	UNCLF		2	45	270X	
			SVTO	1311.0	1754.0	III	N	1	25U	84U	
			HOLL	1315.0	1316.0	III		1	25	75	
			SGMR	1316.0	1316.0	III		1	30	65	
			HOLL	1327.0	0125.0	III	N	1	25	79	
			BLEN	1337.3	1343.6	III	GG	2	320	580	
			SGMR	1413.0	1414.0	III		1	30	60	
			SGMR	1416.0	1416.0	III		1	30	65	
			SGMR	1513.0	1514.0	III		1	30	60	
			SGMR	1732.0	1738.0	III		1	30	60	
			PALE	1812.0	1812.0	III		1	25	66	

SOLAR RADIO EMISSION
Spectral Observations

JUNE 2001

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
09			SGMR	1812.0	1822.0	III		1	30	60	
	1917	2400	HIRA								
	2105	2400	CULG	2105.0E	2400.0D	III	N	1	28	180	
			CULG	2201.0	2400.0D	I	S	1	120	170	
			LEAR	2312.0	0804.0	CONT		1	69	180	
10			CULG	0000.0E	0700.0D	I	S	1	120	180	
	0000	0700	CULG	0000.0E	0700.0D	III	N	1	30	180	
			BLEN	0430.0X	1815.0X	III	GG,N	2	110	600X	
	0430	1815	BLEN	0430.0X	1815.0X	I	DC	2	130	360	
			IZMI	0528.0E	1205.0D	III	N	1	45	95	
	0528	1205	IZMI	0528.0E	1205.0D	I	N	1	45	270X	
			IZMI	0617.3	0617.4	III	B	2	45	90	
			SVTO	0641.0	0646.0	III		1	25	180	
			IZMI	0641.1	0643.1	III	GG	2	40	160	
			CULG	0644.0	0647.0	III	G	2	28	180	
			LEAR	0644.0	0646.0	III		1	25	180	
			IZMI	0644.2	0647.8	III	GG	2	25X	270X	
	0000	0956	HIRA	0645.5	0646.0	III	B	2	40	200	
			IZMI	0658.3	0659.1	III	G	2	45	90	
			IZMI	0848.4	0851.7	III	G	2	45	90	
			IZMI	1055.4	1055.5	III	B	2	40	95	
			SGMR	1153.0	1155.0	III		2	30	80	
			SVTO	1153.0	1159.0	III		2	25	180	
			ONDR	1153.2	1154.4	DCIM		1	1105	2000X	
	0412	1749	ONDR	1153.2	1154.3	DCIM		1	2000X	4500X	
			IZMI	1153.4	1156.2	III	GG,FS	2	25X	270X	
			IZMI	1153.7	1156.0	CONT		2	25X	270X	
			SVTO	1237.0	1633.0	III	N	1	25U	180U	
			HOLL	1330.0	0038.0	III	N	1	25	82	
			SGMR	1402.0	1402.0	III		1	30	70	
			SGMR	1625.0	1632.0	III		2	30	80	
			HOLL	1631.0	1632.0	III		2	25	180	
			PALE	1631.0	1632.0	III		1	25	180	
			SVTO	1631.0	1632.0	III		2	25	180	
			HOLL	1946.0	1948.0	III		1	25	180	
			PALE	1946.0	1948.0	III		1	25	180	
			SGMR	1946.0	1947.0	III		1	30	80	
	1917	2400	HIRA	1946.0	1947.0	III	B	1	25X	200	
			PALE	1949.0	1951.0	III		1	25	73	
			HIRA	1949.5	1953.0	II		1	120	230	
			CULG	2105.0E	2400.0D	III	N	1	30	100	
	2105	2400	CULG	2105.0E	2400.0D	I	S	1	130	180	
11			CULG	0000.0E	0700.0D	III	N	1	23	80	
	0000	0700	CULG	0000.0E	0700.0D	I	S	1	110	170	
			PALE	0314.0	0315.0	III		1	25U	54U	
	0000	0956	HIRA	0314.5	0315.0	III	B	1	25X	80	
			LEAR	0315.0	0327.0	III		1	25	88	
	0412	1750	ONDR								
			HIRA	0430.0	0430.5	III	B	1	25X	110	
			LEAR	0430.0	0431.0	III		1	25	104	
			PALE	0430.0	0431.0	III		1	25U	54U	
			SVTO	0430.0	0430.0	III		1	25	54	
	0430	1815	BLEN	0430.0X	1815.0X	I	DC	3	270	450	
			LEAR	0440.0	0546.0	CONT		1	75	121	
			IZMI	0455.0E	1200.0D	I	N	1	45	270X	
	0455	1200	IZMI	0455.0E	1200.0D	III	N	1	45	95	
			IZMI	0531.9	0532.0	III	B	1	25X	60	
			LEAR	0541.0	0545.0	III		1	25	160	
			IZMI	0541.9	0547.0U	III	GG,FS,C	2	25X	270X	
			CULG	0542.0	0546.0	III	G	2	23	180	
			SVTO	0542.0	0546.0	III		2	25	152	
			HIRA	0543.5	0545.0	III	B	2	25X	130	
			CULG	0554.0	0557.0	II	FN	1	35	45	
			CULG	0554.0	0557.0	II	SH	1	70	90	
			LEAR	0554.0	0604.0	II		1	38	90	ESS 0590
			SVTO	0554.0	0604.0	II		1	39U	82U	ESS 0572
			IZMI	0554.2	0605.3	II	HARM	2	48	95	

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

JUNE 2001

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
11			SVTO	0557.0	0610.0	III	N	1	25U	82U	
			IZMI	0557.1	0558.6	III	G	2	45	95	
			CULG	0600.0	0604.0	II	FN	1	30	50	ESS 800
			CULG	0600.0	0609.0	II	SH,H	2	30	100	
			IZMI	0619.0	0619.2	III	B	2	25	90	
			IZMI	0620.9	0621.0	III	B	2	25	95	
			SVTO	0710.0	1620.0	III	N	1	25	164	
			IZMI	0817.0	0817.7	III	G	2	25X	100	
			IZMI	0950.5	0951.0	III	G	2	45	70	
	1917	2400	HIRA								
	2105	2400	CULG	2234.0	2358.0	I	S	1	110	180	
			LEAR	2317.0	0400.0	CONT		1	119	180	
			HOLL	2321.0	2321.0	III		1	25	78	
			PALE	2321.0	2322.0	III		1	25U	54U	
			CULG	2322.0	2322.0	III	B	1	40	130	
12	0000	0217	HIRA	0134.0	0134.5	III	B	1	190	410	
			LEAR	0246.0	0246.0	III		1	25	118	
			PALE	0246.0	0253.0	III		1	25U	64U	
	0000	0700	CULG	0246.0	0247.0	III	G	1	40	160	
			CULG	0254.0	0254.0	III	B	1	30	160	
	0430	1815	BLEN	0430.0X	1815.0X	I	DC	3	120	380	
	0500	1200	IZMI	0509.0U	1138.0U	I	N	1	110	270X	
			CULG	0619.0	0700.0D	I	S	1	110	160	
			IZMI	0631.7	0631.9	III	GG	2	140	270X	
			BLEN	0710.0	0716.5	III	GG	3	110X	600X	
			LEAR	0712.0	0716.0	III		2	25	180	
			SVTO	0712.0	0716.0	III		2	25	180	
			IZMI	0712.4	0716.6	III	GG,C,FS	2	25X	270X	
			ONDR	0712.4	0716.4	DCIM	G	1	800X	2000X	
	0411	1749	ONDR	0712.4	0716.0	DCIM	G	2	2000X	4500X	
	0514	0957	HIRA	0713.0	0716.0	III	G	3	25X	390	
			BLEN	0716.9	0724.6	II	GG	3	110X	290	
			IZMI	0717.4	0733.8	II	HARM	2	25	255	
			HIRA	0717.5	0727.0	II		1	30	130	
			HIRA	0717.5	0732.0	II		3	60	240	
			LEAR	0718.0	0730.0	II		1	28	180	ESS 0687
			SVTO	0718.0	0731.0	II		2	25	180	ESS 0502
			IZMI	0718.1	0720.0	III	GG	2	130	260	
			IZMI	0720.9	0723.5	III	GG,RS	2	25	90	
			IZMI	0724.4	0730.6	III	GG,FS	2	25X	130	
			BLEN	1308.1	1309.5	III	GG,RS	2	300	430	
			HOLL	1653.0	1654.0	III		1	25	89	
			PALE	1911.0	1914.0	III		1	25U	54U	
			SGMR	1911.0	1913.0	III		1	30	70	
			HOLL	2147.0	2152.0	III		1	25	121	
			PALE	2148.0	2152.0	III		1	25	95	
	2105	2400	CULG	2151.0	2153.0	III	G	1	30	120	
	1917	2400	HIRA	2151.5	2152.0	III	B	1	30	120	
			LEAR	2317.0	2319.0	III		1	74	114	
			CULG	2318.0	2318.0	III	B	2	55	110	
13	0000	0700	CULG	0010.0	0106.0	III	N	1	40	180	
	0000	0220	HIRA	0028.5	0029.0	III	B	1	100	190	
			LEAR	0137.0	0138.0	III		1	25	48	
			CULG	0138.0	0138.0	III	B	1	25	90	
			CULG	0154.0	0251.0	III	N	1	25	90	
			LEAR	0248.0	0250.0	III		1	64	99	
			SVTO	0425.0	0434.0	III		1	25	180	
	0425	1815	BLEN	0425.9	0426.2	III	U	2	110	250	
			CULG	0426.0	0428.0	III	G	2	18	180	
			LEAR	0426.0	0427.0	III		1	25	180	
			PALE	0426.0	0427.0	III		1	25	180	
	0300	0957	HIRA	0426.0	0426.5	III	B	2	25X	310	
			HIRA	0427.5	0428.0	III	B	2	25X	200	
			BLEN	0428.0	0438.2	II		3	140	350	
			CULG	0428.0	0429.0	II	UE	1	100	150	SWF
			HIRA	0428.0	0429.0	II		1	100	130	
			HIRA	0428.0	0429.0	II		1	200	270	

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

JUNE 2001

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			HIRA	0429.0	0439.0	IV		1	120	900	
			LEAR	0429.0	0439.0	III	N	1	25	180	
			CULG	0430.0	0439.0	III	G	1	25	160	
			CULG	0433.0	0445.0	CONT		1	80	190	
			CULG	0502.0	0504.0	III	G	1	20	140	
	0450	1200	IZMI	0502.3	0504.0	III	GG,FS	2	45	140	
			BLEN	0503.0	1645.0	I	DC	2	140	350	
			IZMI	0527.8	0529.8	III	GG	2	45	95	
			CULG	0528.0	0530.0	III	G	1	20	85	
			IZMI	0540.0U	0555.0	I	N	1	200	270	
			IZMI	0734.4	0734.5	III	B	1	45	95	
			SVTO	0744.0	0753.0	III		1	25	63	
			IZMI	0814.5	0814.9	III	B	1	45	95	
			ONDR	0823.5	0830.2	DCIM	GG	1	800X	2000X	
			LEAR	0825.0	0831.0	III		2	58	180	
			SVTO	0825.0	0828.0	III		2	48	180	
			BLEN	0825.3	0832.4	III	GG	3	110X	580	
			IZMI	0825.3	0829.1	III	GG,C	2	45	270X	
			HIRA	0825.5	0829.5	III	G	3	60	290	
	0411	1751	ONDR	0826.4	0828.3	DCIM	G	1	2703	4500X	
			IZMI	0829.6	0832.6	III	GG	2	50	200	
			HIRA	0831.0	0836.0	II		2	60	130	
			HIRA	0831.0	0836.0	II		2	80	210	
			LEAR	0831.0	0839.0	II		1	40	180	ESS 0309
			IZMI	0831.4	0835.5	I	GG,DC	2	45	240	
			IZMI	0834.0U	0842.9	II		2	45X	105U	
			IZMI	0835.0	0836.6	III	GG	2	25X	175	
			HIRA	0836.0	0837.0	III	G	2	50	140	
			SVTO	0838.0	0842.0	II		1	32	180	ESS 0450
			HIRA	0922.5	0924.0	III	G	1	50	200	
			BLEN	0932.0	1122.0	III	GG,N	3	110X	580	
			SVTO	0939.0	1123.0	III	N	1	25	180	
			IZMI	0939.3	0939.8	III	G	2	120	250	
			IZMI	0944.3	0944.6	III	GG	2	90	270X	
			IZMI	0950.3	0953.0	III	GG	2	25X	105	
			IZMI	0958.9	0959.5	III	GG	2	45	105	
			IZMI	1016.4	1016.5	III	B	2	235	270X	
			IZMI	1016.7	1016.9	III	G	1	45	70	
			IZMI	1030.9	1031.1	III	G	2	180	270X	
			IZMI	1031.5	1032.2	III	GG	2	70	270X	
			IZMI	1041.4	1042.2	III	G	1	145	270X	
			SGMR	1042.0	1043.0	III		1	30	55	
			IZMI	1042.4	1043.8	III	GG,C,FS	2	25X	270X	
			IZMI	1045.5	1046.0	III	G	1	45	260	
			IZMI	1052.8	1057.5	III	GG	2	25X	145	
			IZMI	1116.7	1117.9	III	G	1	50	145	
			IZMI	1121.2	1122.5	III	G	2	45	95	
			IZMI	1123.0	1124.0	III	G	2	70	270	
			ONDR	1134.2	1148.1	DCIM	GG	2	800X	2000X	
			ONDR	1134.4	1149.3	DCIM	GG	2	2000X	4500X	
			IZMI	1135.2	1138.8	III	GG	2	25X	270X	
			BLEN	1136.5	1306.0	DCIM	P,S,F	3	110X	2800X	
			IZMI	1139.0U	1214.0U	CONT		2	45U	270X	
			IZMI	1139.9	1142.1	III	GG,C	3	25X	270X	
			SGMR	1140.0	1230.0	III	N	2	30	80	
			SVTO	1140.0	1142.0	III		3	25	180	
			IZMI	1140.1	1142.1	I	GG,DC	2	60	90	
			SVTO	1142.0	1211.0	CONT		2	25	180	
			IZMI	1142.5	1214.0U	III	N,FS	2	25	270X	
			ONDR	1152.4	1213.2	DCIM	GG	2	800X	2000X	
			ONDR	1155.3	1211.1	DCIM	GG	2	2000X	4500X	
			IZMI	1155.7	1158.3	III	GG,FS	2	25X	270X	
			IZMI	1203.3	1210.5	UNCLF	,FS	2	25X	270X	
			BLEN	1537.8	1538.8	III	GG,RS	2	120	320	
			HOLL	1538.0	1707.0	III	N	1	25	164	
			SVTO	1538.0	1546.0	III		1	25	180	
			BLEN	1622.0	1626.7	III	GG,U,S	2	120	500	
			ONDR	1622.3	1627.4	DCIM	G	1	800X	2000X	
			ONDR	1622.3	1628.1	DCIM	GG	2	2000X	4500X	

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

JUNE 2001

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			SGMR	1623.0	1627.0	V		1	30	70	
			SVTO	1623.0	1628.0	III		1	25	180	
			HOLL	1627.0	1634.0	II		1	41	178	ESS 0590
			SVTO	1627.0	1635.0	II		1	41	180	ESS 0681
			BLEN	1627.4	1631.2	II		3	110X	200	
			PALE	1628.0	1633.0	II		1	85	180	ESS 1000
			SVTO	1643.0	1712.0	III	N	1	25	121	
			HOLL	1647.0	1648.0	III		1	25	88	
			PALE	1648.0	1648.0	III		1	25	75	
			SGMR	1648.0	1657.0	III	N	1	30	80	
			HOLL	1745.0	1745.0	III		1	25	82	
			HOLL	1839.0	1843.0	III		1	25	138	
			PALE	1842.0	1842.0	III		1	25	115	
	1917	2400	HIRA	1953.5	1954.0	III	B	1	140	400	
			HIRA	2040.0	2040.5	III	B	1	50	190	
			HOLL	2040.0	2040.0	III		1	25	81	
	2105	2400	CULG	2105.0E	2129.0	III	N	1	28	90	
			HOLL	2156.0	2203.0	III		1	25	84	
			CULG	2158.0	2158.0	III	B	1	30	110	
			HIRA	2158.0	2158.5	III	B	1	40	130	
			PALE	2158.0	2203.0	III		1	25U	85U	
			CULG	2203.0	2204.0	III	G	1	30	140	
			HIRA	2203.0	2203.5	III	B	1	60	120	
			CULG	2218.0	2221.0	III	G	1	23	150	
			HOLL	2218.0	2221.0	III		1	25	86	
			HIRA	2218.5	2219.0	III	B	1	80	240	
			HIRA	2221.0	2221.5	III	B	1	40	110	
			PALE	2221.0	2221.0	III		1	25	86	
			CULG	2256.0	2305.0	III	G	1	28	180	
			HOLL	2256.0	0038.0	III	N	1	25	132	
			PALE	2256.0	2302.0	III		1	25U	87U	
			HIRA	2256.5	2257.0	III	B	1	40	170	
			HIRA	2301.0	2302.0	III	G	2	50	210	
			HIRA	2304.0	2304.5	III	B	1	50	200	
			CULG	2311.0	2400.0D	III	S	1	28	140	
			LEAR	2323.0	0000.0	CONT		1	29	108	
			LEAR	2323.0	0000.0	III	N	1	29	108	
			LEAR	2323.0	0000.0	III	N	1	75	108	
			LEAR	2323.0	0928.0	CONT		1	25	180	
14	0000	0700	CULG	0000.0E	0700.0D	III	S,C	1	30	180	
	0000	0958	HIRA	0319.5	0320.0	III	B	1	80	180	
	0425	1815	BLEN	0425.0X	1815.0X	I	DC,C	3	130	550	
	0500	1200	IZMI	0500.0E	1200.0D	I	S	1	45	270X	
			IZMI	0503.1	0503.1	III	B	1	45	70	
			IZMI	0530.9	0531.1	III	G	2	90	210	
			IZMI	0604.5	0608.8	III	GG	2	30	150	
			IZMI	0612.0	0614.7	III	GG	2	45	130	
			HIRA	0629.0	0629.5	III	B	2	90	240	
			IZMI	0629.2	0629.4	III	GG,C	2	90	270X	
			HIRA	0631.5	0632.0	III	B	1	130	330	
			IZMI	0631.5	0631.7	III	G	2	150	270X	
			SVTO	0653.0	0930.0	CONT		1	25U	180U	
			IZMI	0716.0	0716.3	III	G	1	40	260	
			HIRA	0717.0	0717.5	III	B	2	80	370	
			IZMI	0717.3	0717.5	III	G,C	2	85	270X	
			IZMI	0718.0	0718.2	III	G	2	90	270X	
			IZMI	0720.0U	1200.0D	III	N	1	25X	95	
			HIRA	0736.5	0737.0	III	B	1	25X	150	
			IZMI	0736.7	0737.1	III	G	2	25X	150	
			SVTO	0737.0	0737.0	III		1	25U	83U	
			IZMI	0801.2	0801.6	III	B	2	30	100	
			IZMI	0910.1	0910.6	III	G	2	40	80	
	0411	1751	ONDR	0934.0	0939.1	DCIM	G	1	2000X	4500X	
			IZMI	1016.3	1017.0	III	G	2	45	100	
			IZMI	1022.5	1023.6	III	G	2	45	90	
			IZMI	1110.8	1111.0	III	G,C	2	40	160	
			IZMI	1118.0	1118.6	III	G	2	25	95	
			IZMI	1127.8	1128.2	III	G	2	160	270X	

SOLAR RADIO EMISSION
Spectral Observations

JUNE 2001

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			SGMR	1300.0	1300.0	III		1	30	60	
			SVTO	1300.0	1300.0	III		1	25U	75U	
			HOLL	1437.0	1825.0	III	N	1	25	96	
			SGMR	1535.0	1545.0	III		1	30	55	
			ONDR	1701.3	1702.1	DCIM	GG,SP	2	1184	1719	
			BLEN	1739.5	1740.1	III	GG,RS	3	350	600X	
			CULG	2105.0E	2400.0D	I	S	1	100	170	
	2105	2400	CULG	2105.0E	2400.0D	III	S,C	1	40U	180	
	1917	2400	HIRA	2237.0	2237.5	III	B	1	150	270	
15	0000	0958	HIRA								
			CULG	0000.0E	0700.0D	I	S	1	80	170	
	0000	0700	CULG	0000.0E	0700.0D	III	S,C	1	23	180	
			SVTO	0355.0	1011.0	CONT		1	25U	180U	
	0425	1815	BLEN	0425.0X	1815.0X	I	DC,C	3	130	530	
	0452	1200	IZMI	0452.0E	1207.0D	I	S	2	70	270X	
			IZMI	0452.8	0454.6	III	GG	2	140	270X	
			IZMI	0502.0U	1155.0	III	N	1	45	95	
			IZMI	0502.7	0504.5	III	G	1	45	95	
			IZMI	0522.2	0522.4	III	G	2	45	130	
			IZMI	0527.4	0527.5	III	B	2	40	130	
			IZMI	0541.2	0541.6	III	G	2	45	90	
			LEAR	0547.0	0548.0	III		2	25	106	
			SVTO	0547.0	0548.0	III		2	25	84	
			IZMI	0547.7	0548.6	III	G	2	25X	100	
			CULG	0548.0	0549.0	III	G	2	28	100	
			SVTO	0753.0	0753.0	III		1	25	41	
			IZMI	0816.4	0826.2	III	G	2	25X	170	
			SVTO	0821.0	0824.0	III		1	25	62	
			SVTO	0948.0	0948.0	III		1	25	42	
	0411	1751	ONDR	1004.1	1038.4	DCIM	GG	2	2000X	4500X	
			ONDR	1005.3	1037.1	DCIM	GG	2	800X	2000X	
			BLEN	1006.5	1011.3	II	H	3	110X	460	
			IZMI	1007.2	1011.3	III	G,HARM	2	25X	270X	
			IZMI	1007.4	1007.7	III	G	2	150	230	
			IZMI	1008.0	1010.5U	CONT		2	45U	240	
			IZMI	1008.0	1011.2	III	GG	2	25X	270	
			SGMR	1008.0	1011.0	III		2	30	80	
			SVTO	1008.0	1011.0	III		3	25	180	
			BLEN	1008.5	1121.0	DCIM	P,S,F	3	110X	2800X	
			IZMI	1009.0	1026.0U	IV		2	45	270X	
			SVTO	1011.0	1757.0	IV		2	75	180	
			IZMI	1017.0	1019.9	III	G	2	45	100	
			SVTO	1020.0	1210.0	III	N	1	25	180	
			IZMI	1026.3	1027.8	III	G	2	25	270X	
			IZMI	1026.3	1029.0U	IV		2	30	270X	
			IZMI	1033.5	1036.3	III	G	2	25	270X	
			IZMI	1046.7	1120.0U	IV		2	45	270X	
			ONDR	1047.1	1118.5	DCIM	GG	2	2000X	4500X	
			ONDR	1047.1	1121.5	DCIM	GG	2	800X	2000X	
			IZMI	1047.2	1048.0	III	G	2	25X	100	
			IZMI	1047.4	1049.5	II		2	54	65	
			IZMI	1134.0	1134.4	III	G	1	25X	95	
			IZMI	1154.7	1154.8	UNCLF		2	45	50	
			SVTO	1247.0	1248.0	III		2	25U	82U	
			BLEN	1252.1	1254.3	III	GG,S	3	280	580	
			HOLL	1456.0	1817.0	III	N	1	25	90	
			SVTO	1527.0	1545.0	III	N	2	25U	81U	
			ONDR	1527.5	1612.1	DCIM	G	1	800X	2000X	
			HOLL	1533.0	1541.0	II		1	25	80	ESS 0871
			SGMR	1533.0	1543.0	II		2	30	80	ESS 1000
			SVTO	1533.0	1544.0	II		2	25	77	ESS 0820
			ONDR	1537.1	1559.5	CONT		1	2000X	4500X	
			BLEN	1620.3	1627.6	III	GG,S,U	2	420	580	
			HOLL	2028.0	2028.0	III		1	25	50	
			SGMR	2028.0	2029.0	III		1	30	50	
	1917	2400	HIRA	2028.0	2028.5	III	B	1	30	220	
	2105	2400	CULG	2105.0E	2400.0D	I	S	1	60	160	
			CULG	2227.0	2236.0	II	SH	2	55	100	ESS 450

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

JUNE 2001

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			HIRA	2227.5	2234.5	II		2	60	100	
			PALE	2228.0	2233.0	II		1	30	91	ESS 0400
			HOLL	2241.0	2246.0	II		1	25	87	ESS 0379
			CULG	2242.0	2400.0D	III	N	1	28	160	
16			CULG	0000.0E	0020.0	III	N	1	28	160	
	0000	0700	CULG	0000.0E	0052.0	I	S	1	100	160	
			HOLL	0047.0	0048.0	III		1	25	84	
			LEAR	0047.0	0048.0	III		2	25	180	
			PALE	0047.0	0048.0	III		1	25	180	
	0000	0958	HIRA	0047.5	0048.0	III	B	1	30	190	
			CULG	0048.0	0048.0	III	B	2	28	170	
			CULG	0112.0	0112.0	III	B	1	35	140	
			CULG	0410.0	0530.0	III	N	1	30	160	
	0411	1751	ONDR								
			LEAR	0424.0	0435.0	III	N	1	52	124	
	0425	1815	BLEN	0425.0X	1815.0X	I	C,DC	2	120	580	
			SVTO	0432.0	1035.0	III	N	2	25	180	
	0455	1200	IZMI	0455.3	0457.1	III	G	1	45	95	
			IZMI	0510.4	0511.0	I	GG	2	230	260	
			LEAR	0534.0	0654.0	III	N	1	25	165	
			CULG	0600.0	0614.0	III	GG	1	25	180	
			IZMI	0600.0	0600.8	III	G	2	25X	230	
			IZMI	0603.4	0605.5	III	GG	2	25X	260	
			IZMI	0608.0	0610.7	III	GG	2	25X	260	
			IZMI	0612.3	0613.6	III	GG	2	25X	270X	
			IZMI	0635.2	0635.4	III	B	1	45	70	
			IZMI	0648.4	0657.6	III	N	1	45	95	
			LEAR	0821.0	0821.0	III		1	25	147	
			SVTO	1258.0	1259.0	III		1	25	77	
			SVTO	1411.0	1414.0	III		1	25	155	
			HOLL	1412.0	1414.0	III		1	25	158	
			BLEN	1635.2	1635.8	III	GG,S	2	180	350	
			BLEN	1705.3	1705.9	III	GG,S	2	180	350	
			SVTO	1706.0	1706.0	III		1	75	155	
			HOLL	1849.0	0130.0	III	N	1	25	49	
	2105	2400	CULG	2218.0	2317.0	III	S	1	30	180	
	1917	2400	HIRA	2234.0	2234.5	III	B	1	70	250	
			CULG	2327.0	2400.0D	I	S	1	60	90	
17	0000	0700	CULG	0000.0E	0014.0	I	S	1	60	90	
			LEAR	0124.0	0403.0	CONT		1	25	146	
			CULG	0127.0	0234.0	III	S	1	40U	130	
	0411	1752	ONDR								
	0425	1815	BLEN	0425.0X	1815.0X	I	N	1	180	390	
			LEAR	0442.0	0442.0	III		1	33	134	
	0000	0959	HIRA	0442.0	0443.0	III	G	1	40	190	
			SVTO	0544.0	0709.0	III	N	1	25	144	
	0525	1200	IZMI	0544.6	0549.1	III	GG	2	40	180	
			CULG	0545.0	0700.0D	III	S,C	1	23	160	
			HIRA	0545.0	0546.5	III	G	1	30	190	
			IZMI	0552.9	0556.2	III	GG	2	45	140	
			IZMI	0600.0U	1200.0D	III	N	1	45	95	
			IZMI	0606.4	0607.0	III	G	2	45	120	
			SVTO	0940.0	1026.0	III	N	1	31	161	
			IZMI	1018.4	1021.4	III	G	1	45	95	
			IZMI	1029.0	1029.1	III	B	1	45	70	
			IZMI	1044.1	1044.2	III	B	1	45	70	
			IZMI	1129.3	1129.5	III	B	1	45	70	
	1917	2119	HIRA								
			HOLL	1959.0	2000.0	III		1	25	62	
			PALE	1959.0	2000.0	III		1	25	81	
			CULG	2105.0E	2400.0D	CONT		1	50U	120	
	2105	2400	CULG	2105.0E	2400.0D	I	S	1	100	160	
			CULG	2130.0	2130.0	III	B	2	40	100	
			HOLL	2130.0	2130.0	III		1	25	71	
			PALE	2130.0	2132.0	III		1	25	66	
			LEAR	2319.0	0929.0	CONT		1	25	180	
	2353	2400	HIRA								

SOLAR RADIO EMISSION
Spectral Observations

JUNE 2001

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			CULG	0000.0E	0700.0D	III	S,C	1	30	120	
	0000	0700	CULG	0000.0E	0700.0D	I	S	1	100	160	
	0411	1752	ONDR								
	0425	1815	BLEN	0425.0X	1650.0	I	N	1	180	390	
			IZMI	0505.0U	1200.0D	III	N	1	45	95	
	0505	1200	IZMI	0505.0E	1200.0D	I	N	1	90	210	
			IZMI	0548.0	0548.5	III	G	1	195	270X	
			IZMI	0551.0	0551.9	III	G	2	45	70	
			IZMI	0616.6	0619.6	III	GG	2	45	90	
			IZMI	0731.5	0731.6	III	G,FS	2	40	70	
			IZMI	0817.0U	1015.0U	III	S	2	45	160	
			IZMI	0818.0U	1015.0U	I	S,C	2	45	240	
			SVTO	0832.0	0842.0	III		1	25	131	
	0000	0959	HIRA	0832.5	0842.0	III	G	1	25X	210	
			IZMI	0833.3	0834.8	III	GG	2	25X	210	
			IZMI	0838.5	0842.7	III	GG	2	25X	140	
			IZMI	0910.5	0910.8	III	G	2	60	105	
			HIRA	0951.0	0951.0	III	B	1	25X	70	
			SVTO	0951.0	0951.0	III		2	25	82	
			IZMI	0951.1	0951.8	III	G	2	25X	95	
			IZMI	1015.1	1017.0	III	G	2	45	95	
			IZMI	1022.3	1022.5	III	B	2	45	95	
			IZMI	1148.6	1148.8	III	G	2	45	70	
			SGMR	1240.0	1240.0	III		1	30	60	
			SVTO	1240.0	1240.0	III		1	25	82	
			BLEN	1254.2	1255.3	III	N	3	320	1415	
			HOLL	1435.0	1436.0	III		1	25	51	
			SVTO	1435.0	1758.0	III	N	2	25	180	
			HOLL	1534.0	1536.0	III		1	25	122	
			SGMR	1534.0	1536.0	III		2	30	80	
			SGMR	1703.0	1703.0	III		1	30	65	
			HOLL	1819.0	0130.0	III	N	1	25	91	
			SGMR	1909.0	1911.0	III		1	30	70	
			PALE	1950.0	1950.0	III		1	25U	52U	
			SGMR	1950.0	1950.0	III		1	30	60	
			PALE	2053.0	2055.0	III		1	25U	54U	
			SGMR	2055.0	2055.0	III		1	30	80	
	1917	2400	HIRA	2055.0	2055.5	III	B	1	25X	180	
			CULG	2105.0E	2400.0D	III	S,C	1	30	130	
	2105	2400	CULG	2105.0E	2400.0D	I	S	1	110	180	
			CULG	2140.0	2140.0	III	B	3	28	160	
			HIRA	2140.0	2140.5	III	B	2	25X	190	
			PALE	2140.0	2140.0	III		1	25U	150U	
			SGMR	2140.0	2140.0	III		1	30	80	
			PALE	2212.0	0354.0	CONT		1	25	180	
			CULG	2245.0	2306.0	III	N	2	23	180	
			PALE	2245.0	2320.0	III	N	1	25	115	
			LEAR	2319.0	0930.0	CONT		1	53	180	
19			CULG	0000.0E	0700.0D	III	S,C	1	30	150	
	0000	0700	CULG	0000.0E	0015.0	I	S	1	110	180	
			LEAR	0031.0	0032.0	III		1	25	180	
			PALE	0031.0	0032.0	III		1	25	124	
	0000	0959	HIRA	0031.5	0032.5	III	B	1	30	140	
			CULG	0335.0	0347.0	II	SH,H	2	50	180	ESS 800
			HIRA	0335.0	0346.0	II		2	30	100	
			HIRA	0335.0	0346.0	II		2	60	230	
			LEAR	0335.0	0349.0	II		1	25	180	ESS 0650
			PALE	0335.0	0351.0	II		1	25	180	ESS 0650
			CULG	0336.0	0346.0	II	FN,H	2	28	90	
			CULG	0354.0	0356.0	III	G	2	20	160	
			LEAR	0354.0	0354.0	III		2	25	180	
			PALE	0354.0	0354.0	III		1	25	180	
			HIRA	0354.5	0355.0	III	B	2	25X	160	
	0411	1753	ONDR								
			IZMI	0500.0U	1200.0D	I	N	1	45	270	
	0500	1200	IZMI	0500.0U	1200.0D	III	N	1	45	95	
			LEAR	0559.0	0612.0	III	N	2	25	164	
			SVTO	0559.0	0627.0	III	N	2	25	138	

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

JUNE 2001

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
19			IZMI	0559.2	0559.7	III	G	2	25X	155	
			HIRA	0608.0	0608.5	III	B	2	30	320	
			IZMI	0608.2	0609.2	III	G	2	25X	270X	
	0425	1815	BLEN	0608.3	0612.2	III	GG	2	220	320	
			IZMI	0609.5	0610.2	III	G,FS	2	25X	160	
			IZMI	0743.5	0743.7	III	B	2	25X	90	
			LEAR	0806.0	0809.0	III		1	25	170	
			SVTO	0806.0	0808.0	III		1	25	148	
			HIRA	0806.5	0808.5	III	G	1	50	220	
			SVTO	0903.0	0953.0	III	N	2	25	180	
			IZMI	0953.0	0953.1	III	B	2	25X	65	
			BLEN	1331.0	1815.0X	I	N	1	220	350	
			SVTO	1335.0	1337.0	III		1	25	147	
			SGMR	1338.0	1721.0	CONT		1	30	80	
			HOLL	1715.0	1722.0	III		1	25	85	
			PALE	1721.0	1722.0	III		1	25U	53U	
			SGMR	1721.0	1931.0	III	N	1	30	70	
			SVTO	1721.0	1722.0	III		1	25	81	
			PALE	1755.0	1857.0	III	N	1	25U	54U	
	2105	2400	CULG	2105.0E	2400.0D	I	S,C	1	40	140	
			PALE	2152.0	2158.0	III		1	25	80	
			CULG	2153.0	2159.0	III	G	1	35	140	
			HOLL	2157.0	2158.0	III		1	25	87	
			SGMR	2157.0	2158.0	III		1	30	60	
	1918	2400	HIRA	2158.0	2158.5	III	B	1	25X	120	
			LEAR	2319.0	0815.0	CONT		1	25	180	
20	0000	0700	CULG	0000.0E	0700.0D	I	S,C	1	40	140	
			PALE	0116.0	0216.0	III	N	1	25	180	
			CULG	0117.0	0126.0	III	GG	2	30	170	
			HOLL	0117.0	0123.0	III		1	25	175	
			LEAR	0117.0	0125.0	III		2	25	180	
	0000	1000	HIRA	0117.0	0125.0	III	G	2	25X	280	
			CULG	0240.0	0247.0	III	G	1	30	180	
			HIRA	0340.0	0340.5	III	B	1	100	200	
			HIRA	0341.5	0344.0	II		1	110	250	
	0411	1753	ONDR								
	0526	1200	IZMI	0526.0E	1200.0D	I	N	2	45	250	
			CULG	0544.0	0555.0	III	G	1	28	90	
			SVTO	0548.0	0944.0	III	N	1	25U	180U	
			IZMI	0548.2	0548.9	III	G,FS	2	30	270	
			IZMI	0554.2	0555.8	III	G	2	40	100	
			IZMI	0625.0U	0828.0U	III	N	1	45	95	
			IZMI	0631.7	0632.0	III	G	2	25X	190	
			CULG	0632.0	0632.0	III	B	1	95	160	
			IZMI	0735.8	0736.0	III	B	1	40	100	
			IZMI	0752.9	0755.6	III	G,FS	2	30	70	
			IZMI	0801.7	0804.2	III	G	1	45	90	
			IZMI	0807.1	0807.3	III	B	1	45	85	
			IZMI	0924.1	0924.3	III	B,FS	2	48	170	
	0425	1815	BLEN	1031.3	1034.0	III	GG	1	300	560	
			IZMI	1120.8	1121.1	III	B,FS	2	25X	170	
			SVTO	1121.0	1121.0	III		1	25	83	
			SGMR	1157.0	1240.0	III	N	1	30	80	
			SVTO	1157.0	1157.0	III		2	25	84	
			IZMI	1157.1	1158.0	III	G	2	25X	130	
			SVTO	1223.0	1244.0	III	N	2	25	180	
			HOLL	1224.0	1226.0	III		1	25	89	
			BLEN	1322.0	1717.2	III	GG,N	2	130	600X	
			SGMR	1357.0	1358.0	III		1	30	80	
			SVTO	1357.0	1503.0	III	N	2	25	180	
			SGMR	1437.0	1452.0	III	N	2	30	80	
			SGMR	1551.0	1551.0	III		1	30	60	
			SVTO	1551.0	1551.0	III		1	25	84	
			SGMR	1649.0	1655.0	III		1	30	60	
			PALE	1650.0	1650.0	III		1	25	65	
			SVTO	1650.0	1654.0	III		1	25	180	
			PALE	1817.0	1817.0	III		1	25	86	
			SGMR	1817.0	1817.0	III		1	30	60	

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

JUNE 2001

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			SGMR	1901.0	1923.0	III	N	2	30	70	
	1918	2400	HIRA	1920.5	1924.0	III	B	1	25X	50	
			HIRA	2015.5	2016.0	III	B	1	80	230	
			HIRA	2050.5	2051.0	III	B	1	110	200	
			SGMR	2052.0	2052.0	III		1	30	60	
			HIRA	2326.5	2327.0	III	B	1	40	210	
	2105	2400	CULG	2327.0	2327.0	III	B	1	45	90	
21	0000	0700	CULG	0018.0	0700.0D	I	S	1	110	170	
			CULG	0130.0	0130.0	III	B	3	18X	350	
			HOLL	0130.0	0130.0	III		1	25	126	
			LEAR	0130.0	0130.0	III		3	25	153	
			PALE	0130.0	0130.0	III		2	25	180	
	0000	1000	HIRA	0130.0	0130.5	III	B	3	25X	460	
			CULG	0221.0	0243.0	III	N	1	30	90	
			CULG	0259.0	0327.0	III	N	3	18X	320	
			HIRA	0259.0	0321.0	III	G	3	25X	700	
			LEAR	0259.0	0356.0	III	N	3	25	180	
			PALE	0259.0	0347.0	III	N	3	25	180	
			CULG	0334.0	0413.0	III	N	1	30	90	
	0412	1753	ONDR								
			BLEN	0425.0X	1815.0X	I	DC,C	1	110X	600X	
			BLEN	0425.0X	1815.0X	III	GG,U,S	2	310	600X	
	0425	1815	BLEN	0425.0	1717.2	III	GG,N	2	130	600X	
			LEAR	0434.0	0437.0	III		1	25	150	
			PALE	0435.0	0437.0	III		1	25	129	
			SVTO	0435.0	0437.0	III		1	25	147	
	0000	0700	CULG	0435.0	0439.0	III	G	2	23	150	
			HIRA	0436.0	0438.0	III	G	2	40	120	
			CULG	0443.0	0700.0D	III	N	1	23	130	
			IZMI	0504.0E	0930.0U	I	N	1	130	270X	
			IZMI	0504.4	0504.5	III	B	2	45	100	
			HIRA	0508.0	0508.5	III	B	2	50	110	
			LEAR	0508.0	0509.0	III		1	25	180	
			SVTO	0508.0	0508.0	III		1	25U	83U	
			IZMI	0508.1	0509.7	III	GG	2	25X	135	
			IZMI	0511.0U	0918.0U	III	N	1	45	95	
			SVTO	0517.0	0825.0	III	N	1	25U	81U	
			IZMI	0525.1	0526.0	III	G	1	45	90	
			LEAR	0534.0	0853.0	III	N	1	25	180	
			IZMI	0534.1	0534.4	III	G	2	25X	120	
			IZMI	0546.2	0548.8	III	G	2	45U	120	
			IZMI	0629.4	0629.5	III	G,FS	2	25X	95	
			IZMI	0645.3	0645.4	III	G,FS	2	30	70	
			IZMI	0721.6	0722.7	III	G,FS	2	45	155	
			IZMI	0747.6	0747.9	III	G,C,HARM	2	25X	95	
			IZMI	0814.3	0814.5	III	B	2	25X	100	
			IZMI	0819.3	0819.5	III	G	2	50	155	
			HIRA	0829.0	0833.5	III	G	1	30	400	
			LEAR	0829.0	0833.0	III		2	25	180	
			SVTO	0829.0	0833.0	III		2	25	180	
			IZMI	0829.3	0830.6	III	GG,FS,C	2	25X	270X	
			IZMI	0831.2	0833.8	III	GG,FS,C	2	25X	270X	
			SGMR	1146.0	1147.0	III		1	30	80	
			IZMI	1146.7	1146.8	III	G	2	25X	160	
			IZMI	1146.7	1147.1	V	HARM	2	25X	120	
			IZMI	1146.9	1149.5	III	GG	2	25X	270X	
			IZMI	1152.0	1152.2	III	G	2	45	60	
			HOLL	1324.0	1325.0	III		1	25	74	
			SVTO	1324.0	1325.0	III		1	25	61	
			HOLL	1427.0	2002.0	III	N	2	25	180	
			SVTO	1427.0	1641.0	III	N	1	25	155	
			SGMR	1551.0	1554.0	III		1	30	45	
			PALE	1718.0	1723.0	III		1	25	180	
			SVTO	1718.0	1721.0	III		2	75	180	
			BLEN	1718.7	1719.8	III	GG,S,V	2	110X	350	
			SGMR	1720.0	1723.0	III		1	30	55	
			SGMR	1806.0	1905.0	III	N	2	30	80	
			PALE	1905.0	1905.0	III		1	25	55	

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

JUNE 2001

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
21			PALE	2034.0	2041.0	III		1	25	55	
			PALE	2113.0	2114.0	III		1	25	95	
	2105	2400	CULG	2207.0	2214.0	III	G	1	23	150	
			SGMR	2213.0	2213.0	III		1	30	55	
	1918	2400	HIRA	2213.0	2213.5	III	B	1	25X	170	
22	0000	0700	CULG	0039.0	0040.0	III	G	1	30	130	
			CULG	0050.0	0050.0	III	B	1	30	70	
			CULG	0213.0	0213.0	III	B	1	30	180	
	0000	1000	HIRA	0213.0	0213.5	III	B	1	100	200	
			CULG	0259.0	0259.0	III	B	1	30	90	
	0412	1753	ONDR								
			LEAR	0459.0	0503.0	III		3	25	180	
			SVTO	0459.0	0502.0	III		2	25	180	
			HIRA	0459.5	0503.0	III	G	3	25X	500	
	0425	1815	BLEN	0459.5	0502.7	III	GG,S	2	110X	600	
	0500	1200	IZMI	0459.5	0502.9	III	GG,FS	2	25X	270X	
			CULG	0500.0	0503.0	III	G	3	18	470	
			IZMI	0511.0	0946.0U	III	N	1	45	95	
			BLEN	0602.0	1815.0X	I	DC,C	2	110X	450	
			SVTO	0653.0	0654.0	III		1	25	54	
			IZMI	0835.1	0835.9	III	G	1	45	95	
			IZMI	0913.9	0914.9	III	G	2	25X	50	
			LEAR	0914.0	0914.0	III		1	41	153	
			SVTO	0914.0	0914.0	III		3	25	163	
			IZMI	1006.0U	1200.0D	I	N	2	180	270X	
			HOLL	1657.0	1657.0	III		1	25	82	
			PALE	1657.0	1657.0	III		1	25	71	
			SGMR	1657.0	1657.0	III		1	30	70	
			SVTO	1657.0	1657.0	III		1	25U	81U	
			HOLL	1718.0	1724.0	III		1	25	125	
	1918	2400	HIRA	2019.0	2046.0	III	G	1	50	1000	
			PALE	2023.0	2024.0	III		1	25	81	
			HOLL	2121.0	2123.0	III		1	25	82	
			PALE	2121.0	2123.0	III		1	25	86	
			HIRA	2123.0	2123.5	III	B	1	25X	110	
			SGMR	2123.0	2123.0	III		1	30	80	
	2105	2400	CULG	2153.0	2345.0	I	S	1	80	180	
			CULG	2236.0	2400.0D	III	N	1	50U	140	
			PALE	2254.0	0306.0	CONT		1	111U	180U	
			LEAR	2320.0	0420.0	CONT		1	25	180	
23			CULG	0000.0	0003.0	III	G	2	28	180	
			LEAR	0000.0	0003.0	III		2	25	180	
			PALE	0000.0	0006.0	III		2	25	155	
	0000	0700	CULG	0000.0E	0020.0	III	N	1	40	140	
	0000	1000	HIRA	0000.5	0003.0	III	G	2	25X	420	
			CULG	0152.0	0152.0	III	B	1	35	90	
			HIRA	0208.5	0210.0	III	B	1	30	800	
			CULG	0209.0	0210.0	III	G	1	35	180	
			CULG	0326.0	0326.0	III	G	1	25	90	
	0412	1753	ONDR								
	0425	1815	BLEN	0425.0X	1815.0X	I	DC,C	2	110X	450	
	0450	1200	IZMI	0457.0U	1200.0D	I	N	2	110	270X	
			LEAR	0503.0	0504.0	III		1	25	147	
			SVTO	0503.0	0504.0	III		1	25	180	
			HIRA	0503.5	0504.0	III	B	2	30	270	
			IZMI	0503.6	0504.2	III	G	2	25X	270X	
			CULG	0504.0	0504.0	III	B	2	20	180	
			BLEN	0506.9	0508.0	DCIM	P	2	280	1415	
			CULG	0507.0	0507.0	III	B	1	550	800	
			HIRA	0507.0	0508.0	III	B	2	300	900	
			IZMI	0507.7	0508.0	III	G	2	40	95	
			CULG	0508.0	0508.0	III	B	1	23	90	
			LEAR	0518.0	0518.0	III		1	25	135	
			SVTO	0518.0	0526.0	III		2	25U	83U	
			IZMI	0518.4	0518.9	III	G	2	25X	270X	
			HIRA	0518.5	0520.0	III	B	1	25X	240	
			CULG	0519.0	0519.0	III	B	2	23	180	

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

JUNE 2001

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	0520.7	0520.9	III	B	1	45	90	
			CULG	0526.0	0526.0	III	B	1	23	60	
			IZMI	0526.2	0527.9	III	G	1	45	95	
			LEAR	0635.0	0638.0	III		2	25	180	
			IZMI	0635.6	0638.2	III	GG,FS	2	25X	270X	
			CULG	0636.0	0638.0	III	G	2	28	730	
			HIRA	0636.0	0638.0	III	B	1	25X	800	
			SVTO	0636.0	0638.0	III		2	25U	82U	
			BLEN	0637.3	0637.7	III	GG	3	130	1415	
			IZMI	0641.5	0641.6	III	B	2	230	270X	
			IZMI	0711.0	0715.7	III	G,FS	2	45	155	
			IZMI	0718.7	0718.8	III	B,FS	2	48	65	
			IZMI	0735.0U	0918.0U	III	N	1	45	95	
			IZMI	0744.0	0746.5	III	GG	1	45	145	
			BLEN	0831.9	0834.1	III	GG,U	3	130	600	
			IZMI	0831.9	0835.3	III	GG,FS	2	25X	270X	
			HIRA	0832.0	0835.0	III	G	3	25X	480	
			LEAR	0832.0	0835.0	III		2	25	180	
			SVTO	0832.0	0835.0	III		3	25	180	
			BLEN	0834.5	0835.3	II	H	3	180	600X	
			IZMI	0842.0	0842.7	III	G	2	25X	175	
			IZMI	0853.6	0855.7	III	GG,RS	2	25X	260	
			HIRA	0855.0	0856.0	III	B	2	30	210	
			LEAR	0855.0	0855.0	III		1	25	156	
			SVTO	0855.0	0855.0	III		2	25U	83U	
			SVTO	1022.0	1138.0	III	N	2	25	180	
			IZMI	1022.3	1022.8	III	GG,FS	2	25X	260	
			IZMI	1033.6	1037.7	III	GG,FS	2	25X	260	
			BLEN	1034.9	1650.0	III	GG,RS,S	3	110X	600	
			IZMI	1039.4	1040.5	III	GG,FS	2	25X	270X	
			IZMI	1053.1	1055.7	III	GG	2	25X	215	
			SVTO	1217.0	1647.0	III	N	2	25	180	
			SGMR	1230.0	1231.0	III		1	30	80	
			HOLL	1325.0	1657.0	III	N	1	25	175	
			SGMR	1325.0	2030.0	III	N	1	30	80	
			PALE	1838.0	2016.0	III	N	1	25U	144U	
			PALE	1927.0	1929.0	V		2	25	180	
			SGMR	1927.0	1929.0	V		2	30	80	
	1918	2400	HIRA	1927.0	1929.5	III	G	3	25X	200	
	2105	2400	CULG	2105.0E	2105.0D	I	S	1	120	180	
			HIRA	2256.0	2257.0	III	B	1	40	140	
			HOLL	2256.0	2257.0	III		1	25	108	
			CULG	2257.0	2258.0	III	G	1	40U	160	
			LEAR	2312.0	0000.0	CONT		1	78	180	
24	0000	0700	CULG	0000.0E	0100.0	I	S	1	120	180	
			CULG	0046.0	0047.0	III	G	2	28	200	
			HOLL	0046.0	0047.0	III		1	25	180	
			LEAR	0046.0	0047.0	III		1	25	180	
	0000	1000	HIRA	0046.5	0047.0	III	B	2	25X	280	
			CULG	0104.0	0106.0	III	G	1	40	150	
			CULG	0218.0	0231.0	III	G	1	25	180	
			LEAR	0218.0	0231.0	III	N	2	25	180	
			HIRA	0223.0	0223.5	III	B	2	25X	160	
			HIRA	0228.5	0229.0	III	B	2	100	320	
			LEAR	0301.0	0306.0	III		1	25	121	
			PALE	0301.0	0330.0	III	N	1	25	75	
			CULG	0302.0	0307.0	III	G	1	23	160	
			HIRA	0302.5	0303.0	III	B	1	25X	70	
			CULG	0313.0	0316.0	III	G	3	18	1000	
			HIRA	0313.0	0315.5	III	B	3	25X	2000	
			LEAR	0313.0	0315.0	III		3	25	180	
	0425	1815	BLEN	0447.9	0449.1	III	GG,U	3	110X	600X	
			CULG	0448.0	0450.0	III	G	2	23	1000	
			HIRA	0448.0	0450.0	III	G	2	25X	800	
			LEAR	0448.0	0449.0	III		2	25	180	
			PALE	0448.0	0450.0	III		1	25	180	
			SVTO	0448.0	0449.0	III		2	25	180	
	0510	1200	IZMI	0510.0E	1200.0D	I	N	2	70	270X	

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

JUNE 2001

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			BLEN	0522.3	0531.6	III	GG,S	3	140	600X	
			IZMI	0527.7	0534.4	III	GG,FS	2	25X	270X	
			CULG	0528.0	0532.0	III	G	1	23	200	
			SVTO	0528.0	0531.0	III		1	25	180	
			HIRA	0529.0	0531.5	III	B	1	30	400	
			LEAR	0529.0	0531.0	III		1	25	180	
			CULG	0542.0	0542.0	III	B	1	28	170	
			IZMI	0542.0	0542.2	III	G	1	25	95	
			LEAR	0542.0	0542.0	III		1	25	46	
			CULG	0558.0	0700.0D	I	S	1	120	180	
			CULG	0605.0	0605.0	III	B	1	28	90	
			SVTO	0605.0	0605.0	III		1	25U	81U	
			IZMI	0605.3	0605.8	III	G,FS	2	25	150	
			IZMI	0618.1	0618.6	III	GG	2	45	270X	
			BLEN	0632.9	0636.1	III	GG,U	3	200	600X	
			CULG	0633.0	0639.0	III	G	1	28	850	
			HIRA	0633.0	0634.0	III	B	1	200	2000	
			IZMI	0633.0	0638.5	III	GG	2	45	270X	
			ONDR	0633.0	0636.0	DCIM	GG,SP	2	800X	2000X	
			SVTO	0633.0	1759.0	III	N	2	25	180	
	0412	1754	ONDR	0633.0	0634.1	DCIM	G	1	2000X	4500X	
			LEAR	0700.0	0702.0	III		1	25	180	
			IZMI	0702.4	0703.4	III	G	2	25X	170	
			BLEN	0716.2	0729.4	III	GG,U	3	150	540	
			IZMI	0716.2	0716.3	III	G	2	120	180	
			LEAR	0727.0	0729.0	III		2	25	180	
			SVTO	0727.0	0729.0	III		2	25	180	
			HIRA	0727.5	0729.5	III	B	2	40	800	
			IZMI	0727.5	0728.3	III	GG	2	25X	215	
			IZMI	0727.6	0728.1	V	HARM	2	25X	90	
			IZMI	0728.7	0729.5	III	GG	3	25X	270	
			IZMI	0729.3	0730.0	V		2	45	95	
			IZMI	0739.5	0743.3	III	G,FS	1	45	95	
			HIRA	0814.0	0814.5	III	B	2	50	220	
			IZMI	0814.0	0814.3	III	G,C	2	25X	270X	
			LEAR	0814.0	0814.0	III		1	25	180	
			LEAR	0844.0	0844.0	III		1	25	100	
			IZMI	0844.3	0844.7	III	G,RS	2	25X	210	
			IZMI	0846.9	0847.2	III	G,C	2	25X	160	
			IZMI	0902.0U	1200.0D	III	N	1	45	95	
			IZMI	0911.2	0913.6	III	GG,FS	2	25X	215	
			IZMI	0931.1	0931.7	III	G	2	45	95	
			IZMI	1013.2	1014.9	III	G	2	25X	105	
			IZMI	1030.3	1030.4	III	G	2	25X	95	
			IZMI	1033.5	1035.5	III	G	2	25	155	
			SGMR	1036.0	1037.0	III		1	30	50	
			IZMI	1036.7	1037.0	III	B	2	25X	160	
			IZMI	1044.1	1044.5	III	G	1	25X	95	
			IZMI	1049.2	1049.5	III	G,FS	1	25X	85	
			IZMI	1056.6	1058.7	III	GG,FS	2	25X	100	
			IZMI	1113.6	1113.8	III	G	2	30	95	
			SGMR	1126.0	1152.0	III	N	1	30	80	
			IZMI	1126.4	1127.1	III	G,C	2	25X	230	
			IZMI	1128.3	1129.3	III	GG,C	2	25X	250	
			IZMI	1132.4	1133.4	III	G	2	25X	270X	
			IZMI	1148.7	1149.1	III	G,FS	2	25X	175	
			BLEN	1221.7	1222.2	III	GG	3	110X	600X	
			HOLL	1313.0	1315.0	III		2	25	180	
			SGMR	1313.0	1319.0	III		3	30	80	
			SVTO	1313.0	1315.0	III		3	25	180	
			BLEN	1313.8	1702.7	III	GG,RS,S	3	110X	600X	
			HOLL	1331.0	1333.0	III		2	25	180	
			SGMR	1331.0	1333.0	III		3	30	80	
			SVTO	1331.0	1333.0	III		3	25	180	
			HOLL	1403.0	0150.0	III	N	1	25	180	
			SGMR	1403.0	2059.0	III	N	2	30	80	
			HOLL	1430.0	1431.0	III		2	25	173	
			SVTO	1430.0	1434.0	III		3	25	180	
			PALE	1639.0	0459.0	III	N	3	25	180	

SOLAR RADIO EMISSION
Spectral Observations

JUNE 2001

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	1919	2400	HIRA	1958.5	1959.5	III	B	2	25X	190	
			HIRA	2016.0	2016.5	III	B	2	25X	120	
			CULG	2105.0E	2400.0D	III	N	1	45U	150	
	2105	2400	CULG	2105.0E	2400.0D	I	S	1	75	180	
			HIRA	2205.0	2205.5	III	B	1	25X	280	
			SGMR	2205.0	2232.0	III	N	1	30	65	
			HIRA	2218.0	2218.5	III	B	2	25X	200	
			HIRA	2230.5	2233.0	III	G	1	25X	260	
			HIRA	2238.0	2238.5	III	B	2	25X	140	
			LEAR	2321.0	0400.0	CONT		1	71	180	
			LEAR	2359.0	2359.0	III		1	25	49	
25			CULG	0000.0E	0020.0	III	N	1	28	180	
	0000	0700	CULG	0000.0E	0255.0	I	S	1	100	180	
			LEAR	0010.0	0011.0	III		1	25	180	
			LEAR	0016.0	0018.0	V		2	25	180	
	0000	1000	HIRA	0016.5	0018.0	III	G	3	25X	170	
			CULG	0017.0	0018.0	III	G	2	28	180	
			CULG	0042.0	0042.0	III	B	3	18	180	
			HIRA	0042.0	0042.5	III	B	3	25X	200	
			LEAR	0042.0	0044.0	III		3	25	180	
			CULG	0044.0	0044.0	III	B	1	25	140	
			CULG	0109.0	0326.0	III	N	1	23	180	
			LEAR	0111.0	0400.0	III	N	1	25	180	
			CULG	0126.0	0127.0	III	G	3	23	180	
			HIRA	0126.0	0127.0	III	B	2	25X	180	
			HIRA	0143.0	0144.0	III	B	2	25X	140	
			CULG	0144.0	0144.0	III	B	2	35	170	
			HIRA	0324.5	0325.0	III	B	1	40	190	
			SVTO	0342.0	0428.0	III	N	1	25	147	
	0413	1754	ONDR								
			LEAR	0416.0	0416.0	III		1	25	180	
			CULG	0417.0	0417.0	III	B	1	25	130	
			CULG	0425.0	0428.0	III	G	2	23	180	
			HIRA	0425.0	0428.5	III	G	1	25X	120	
			LEAR	0425.0	0815.0	III	N	3	25	180	
	0500	1200	IZMI	0500.0E	0720.0U	I	N	1	110	250	
			IZMI	0520.8	0521.6	III	GG,FS	2	25X	200	
			CULG	0521.0	0636.0	III	N	2	23	180	
			SVTO	0521.0	1614.0	III	N	2	25	180	
			IZMI	0522.0U	1039.0	III	N	1	45	95	
			HIRA	0529.0	0533.0	III	G	1	25X	180	
			IZMI	0529.2	0530.0	III	GG,FS	2	25X	220	
			IZMI	0531.5	0533.5	III	GG	2	25X	215	
			IZMI	0543.9	0547.0	III	GG,FS	2	25X	270X	
			HIRA	0544.0	0546.0	III	G	3	25X	200	
			CULG	0545.0	0545.0	III	B	3	20	180	
			IZMI	0607.2	0607.7	III	GG,FS	2	40	100	
	0425	1815	BLEN	0608.6	0612.1	III	GG,RS	2	110X	580	
			IZMI	0608.7	0609.3	III	GG,FS	2	25X	180	
			IZMI	0611.3	0613.5	III	GG	2	25X	260	
			HIRA	0611.5	0613.0	III	G	2	25X	170	
			IZMI	0618.8	0619.6	III	G	2	25X	95	
			IZMI	0622.3	1623.3	III	G,C	2	40	100	
			IZMI	0635.3	0636.3	III	G,HARM	2	2 X	160	
			IZMI	0703.9	0704.6	III	GG,FS	2	25X	155	
			IZMI	0707.0	0708.8	III	GG	2	25X	155	
			IZMI	0717.7	0718.8	III	G	2	25X	155	
			IZMI	0723.8	0724.3	III	B	2	25X	135	
			IZMI	0815.4	0815.7	III	G,FS	2	40	265	
			HIRA	0815.5	0816.0	III	B	1	50	260	
			IZMI	0848.0	0910.0	I	S	2	120	170	
			IZMI	0854.4	0900.0	III	GG,C	2	25X	145	
			HIRA	0855.0	0857.0	III	G	2	30	150	
			LEAR	0856.0	0857.0	III		1	25	119	
			BLEN	0856.4	0859.0	II	H	3	170	570	
			IZMI	0857.0	0858.6	I	GG,DC	2	210	270X	
			IZMI	0901.7	0902.3	III	G,FS	2	25X	90	
			IZMI	0946.3	0946.4	III	B	2	45	65	

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

JUNE 2001

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			IZMI	1041.4	1041.6	III	G	2	125X	270X	
			IZMI	1117.7	1117.9	III	G	1	35	60	
			IZMI	1119.3	1119.4	III	B	1	45	60	
			IZMI	1125.3	1125.6	III	G	2	25X	105	
			IZMI	1126.7	1126.8	III	G	2	45	135	
			BLEN	1216.6	1217.8	II		1	190	370	
			SGMR	1217.0	1220.0	III		1	30	65	
	1919	2400	HIRA								
	2105	2400	CULG								
26	0000	0700	CULG	0153.0	0153.0	III	B	1	40	110	
	0000	1001	HIRA	0153.0	0153.5	III	B	1	40	70	
			LEAR	0306.0	0308.0	III		1	102	180	
			CULG	0307.0	0308.0	III	G	2	100	180	
			HIRA	0307.0	0308.0	III	B	2	110	260	
			LEAR	0355.0	0357.0	III		1	25	180	
	0413	1753	ONDR								
	0425	1815	BLEN								
	0450	1200	IZMI	0454.1	0454.3	III	G	1	45	90	
			IZMI	0507.1	0507.6	III	G	2	170	270X	
			LEAR	0537.0	0645.0	III	N	1	70	180	
			IZMI	0537.9	0538.0	III	B,RS	2	170	255	
			IZMI	0541.7	0541.8	III	G	2	45	160	
			CULG	0542.0	0542.0	III	B	1	60	130	
			IZMI	0544.2	0544.5	III	G	1	50	145	
			IZMI	0549.0	0550.1	III	G	2	45	180	
			CULG	0550.0	0550.0	III	B	1	60	140	
			IZMI	0612.2	0612.3	III	G	2	230	270X	
			HIRA	0621.5	0622.0	III	B	1	120	250	
			IZMI	0621.6	0622.1	III	G	2	120	270X	
			IZMI	0624.0U	1123.0U	I	N	1	180	270	
			CULG	0626.0	0626.0	III	B	1	35	100	
			IZMI	0626.2	0626.4	III	B	1	55	90	
			IZMI	0706.4	0706.4	III	B	2	220	270	
			IZMI	0824.0	0824.2	III	B	1	45	90	
			LEAR	0824.0	0824.0	III		1	25	41	
			SVTO	0824.0	0824.0	III		1	25	52	
			IZMI	0954.5	0954.8	III	G	2	110	270X	
			IZMI	1022.6	1023.0	III	G	2	40	140	
			IZMI	1024.3	1024.4	III	B	1	45	90	
			SVTO	1049.0	1050.0	III		1	34	154	
			IZMI	1049.2	1050.2	III	GG,C	2	35	175	
			HOLL	1526.0	1529.0	III		1	25	95	
			SVTO	1526.0	1528.0	III		1	25	83	
			SGMR	1527.0	1531.0	III		2	30	80	
			HOLL	1529.0	1531.0	V		1	25U	86U	
			SVTO	1529.0	1530.0	V		2	25	83	
			SVTO	1604.0	1610.0	III		2	25	151	
			SGMR	1606.0	1607.0	III		1	30	60	
			SVTO	1616.0	1617.0	III		1	25	180	
			SVTO	1716.0	1726.0	III	N	1	25	180	
			HOLL	1827.0	1833.0	III		1	25	180	
			PALE	1827.0	2315.0	III	N	1	25	180	
	1920	2400	HIRA	2039.0	2039.5	III	B	1	25X	120	
	2105	2400	CULG	2140.0	2140.0	III	B	1	50	90	
			CULG	2359.0	2400.0D	III	G	1	35	180	
			HIRA	2359.0	2359.5	III	B	1	50	400	
27	0000	0700	CULG	0000.0E	0001.0	III	G	1	35	180	
			CULG	0109.0	0119.0	III	GG	2	25	250	
			LEAR	0109.0	0132.0	III	N	2	25	180	
			PALE	0109.0	0132.0	III	N	1	25	180	
	0000	1001	HIRA	0109.5	0119.0	III	G	2	25X	240	
			CULG	0120.0	0133.0	III	GG	1	30	90	
	0414	1754	ONDR								
	0425	1815	BLEN								
			HIRA	0740.5	0741.0	III	B	1	120	290	
	0450	1200	IZMI	0740.6	0740.8	UNCLF		2	165	270X	
			SVTO	1236.0	1258.0	III	N	1	25	180	

SOLAR RADIO EMISSION
Spectral Observations

JUNE 2001

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			HOLL	1247.0	1248.0	III		1	25	54	
			SGMR	1247.0	1248.0	III		1	30	60	
			PALE	1610.0	2017.0	CONT		1	25	180	
			HOLL	1626.0	1626.0	III		1	53	180	
			SVTO	1626.0	1626.0	III		1	53	180	
			HOLL	1750.0	1751.0	III		1	25	69	
			SGMR	1750.0	1751.0	III		1	30	60	
			SVTO	1750.0	1751.0	III		1	25	64	
			HOLL	1855.0	1856.0	III		1	25	57	
			PALE	2104.0	2105.0	III		1	25	180	
	1920	2400	HIRA	2104.5	2105.0	III	B	1	25X	240	
			PALE	2252.0	2253.0	III		1	25	65	
	2105	2400	CULG	2252.0	2254.0	III	G	1	35	180	
			HIRA	2252.5	2253.5	III	B	1	25X	210	
			HIRA	2318.5	2319.0	III	B	1	30	230	
			CULG	2319.0	2321.0	III	G	1	35	180	
			LEAR	2331.0	2331.0	III		1	25	112	
			PALE	2359.0	0000.0	III		1	25	75	
28	0000	1001	HIRA	0218.5	0219.0	III	B	1	60	100	
	0000	0700	CULG	0219.0	0219.0	III	B	1	40	90	
			HIRA	0249.5	0250.0	III	B	1	60	190	
			CULG	0250.0	0251.0	III	G	1	50	150	
	0414	1754	ONDR								
	0425	1815	BLEN								
			SVTO	0454.0	0455.0	III		1	25	180	
	0449	1232	IZMI	0516.1	0516.6	III	G	1	45	95	
			SVTO	0617.0	0619.0	III		1	30	154	
			IZMI	0842.7	0842.9	III	B	1	45	95	
			SVTO	0945.0	0945.0	III		1	28	157	
			IZMI	1038.4	1039.0	III	G	2	45	260	
			SVTO	1721.0	1721.0	III		1	28	76	
	1920	2400	HIRA								
	2105	2400	CULG								
			LEAR	2330.0	2330.0	III		1	25	75	
29	0000	1001	HIRA								
	0414	1754	ONDR								
	0425	1815	BLEN								
	0000	0700	CULG	0439.0	0440.0	III	G	1	28	110	
	0503	1200	IZMI								
			HOLL	1326.0	1334.0	III		1	25	132	
			HOLL	1749.0	1749.0	III		1	25	84	
	1921	2400	HIRA								
	2105	2400	CULG								
30	0000	0700	CULG								
	0000	1001	HIRA								
	0415	1753	ONDR								
	0425	1815	BLEN								
	0502	1200	IZMI								
			PALE	1906.0	1907.0	III		1	25U	54U	
	1921	2400	HIRA								
	2105	2400	CULG								

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