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

JANUARY 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
01	0000	0755	CULG	0046.0	0046.0	III	G	1	40U	100	
			CULG	0136.0	0500.0	III	N	1	20	90	
			CULG	0452.0	0453.0	III	G	1	23	180	
			CULG	0551.0	0755.0D	III	N	1	20	90	
			IZMI	0704.0E	1200.0D	III	N	1	45	95	
	0704	1200	IZMI	0704.0E	1020.0U	I	N	1	190	270	
			IZMI	0736.0	0736.1	III	B	2	45	95	
			IZMI	0803.2	0805.8	III	G	2	40	90	
	0803	1344	POTS	0826 E	1344 U	I	S	1	110U	300	
			IZMI	0829.5	0835.8	III	GG	2	40	80	
	0836	1333	ONDR								
			POTS	0837.8	0839.3	III	G	2	110U	170U	
			IZMI	0838.2	0839.3	III	G	2	45	170	
			IZMI	0844.0	0846.1	III	GG	2	40	95	
	0850	1450	BLEN								
			POTS	0956.9	0957.1	III	B	2	40X	65	
			IZMI	1040.6	1040.8	III	G	2	30	90	
			POTS	1042.5	1042.7	III	G	1	110U	160	
			IZMI	1110.9	1111.1	III	B	2	35	65	
			POTS	1125.5	1126.3	III	G	2	40X	70	
			POTS	1142.1	1142.3	III	G	2	40X	120	
			POTS	1145	1333	III	N	1	40X	90U	
			POTS	1157.9	1200.9	III	G	2	40X	130	
			POTS	1206.6	1206.7	III	B	1	40X	170U	
			POTS	1229.3	1230.1	III	G	2	40X	70	
			POTS	1239.0	1239.2	III	G	2	40X	210	
			POTS	1253.8	1254.1	III	G	2	40X	150	
			POTS	1302.6	1302.7	III	B	2	60	90U	
			SVTO	1322.0	1402.0	III	N	1	25U	40U	
			HOLL	1936.0	1936.0	III		1	25	85	
			PALE	1936.0	2059.0	III	N	2	25	140	
			HOLL	1946.0	1951.0	III		1	25	83	
			HOLL	1957.0	1957.0	III		1	25	85	
			HOLL	2019.0	2153.0	III	N	1	25	158	
	2000	2400	CULG	2020.0	2031.0	III	GG	2	18	180	
			CULG	2041.0	2041.0	III	B	1	20	90	
			CULG	2100.0	2103.0	III	G	1	20	180	
			CULG	2128.0	2128.0	III	B	1	23	100	
			LEAR	2205.0	2246.0	III	N	2	25	167	
			CULG	2213.0	2214.0	III	G	1	20	160	
			HOLL	2213.0	2213.0	III		1	25	86	
			PALE	2213.0	0213.0	III	N	2	25	180	
			HOLL	2223.0	2230.0	III		1	25	135	
			CULG	2225.0	2231.0	III	GG	2	18	180	
			CULG	2328.0	2328.0	III	B	1	50U	160	
			LEAR	2328.0	2328.0	III		1	75	99	
			LEAR	2339.0	2340.0	III		1	25	48	
			CULG	2340.0	2340.0	III	B	1	35U	90	
02			LEAR	0020.0	0043.0	III	N	2	25	103	
	0000	0735	HIRA	0022.0	0022.5	III	B	1	30	120	
	0000	0755	CULG	0022.0	0022.0	III	B	2	20	120	
			CULG	0025.0	0044.0	III	N	1	30	150	
			LEAR	0115.0	0119.0	III		1	26	48	
			LEAR	0119.0	0216.0	III	N	1	25	96	
			CULG	0150.0	0157.0	III	G	1	28	85	
			CULG	0158.0	0158.0	III	B	2	20	170	
			CULG	0215.0	0216.0	III	G	1	20	80	
			CULG	0310.0	0311.0	III	G	1	23	90	
			LEAR	0310.0	0311.0	III		2	25	56	
			LEAR	0337.0	0344.0	III		1	31	72	
			CULG	0345.0	0345.0	III	B	1	18	90	
			CULG	0415.0	0421.0	III	G	1	18	100	
			LEAR	0415.0	0420.0	III		1	25	62	
			LEAR	0443.0	0815.0	III	N	3	25	180	
			CULG	0446.0	0446.0	III	B	1	18	100	
			CULG	0527.0	0553.0	III	N	2	18X	280	
			HIRA	0537.0	0546.0	III	G	2	30	320	
			CULG	0643.0	0648.0	III	G	2	18	400	

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

JANUARY 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			HIRA	0646.0	0647.0	III	G	2	50	380	
			SVTO	0646.0	0647.0	III		1	31	160	
	0650	1200	IZMI	0651.0	1114.0	III	N	1	45	90	
			CULG	0700.0	0700.0	III	G	1	23	70	
			CULG	0705.0	0705.0	III	B	1	23	70	
			IZMI	0723.0	0723.2	III	G,FS	2	45	180	
			IZMI	0727.2	0727.3	III	G,FS	2	40	145	
			CULG	0734.0	0755.0D	III	N	1	30	80	
			SVTO	0807.0	0809.0	III		1	28	48	
			IZMI	0807.1	0810.0	III	GG	2	35	215	
			IZMI	0812.0U	0944.0U	I	N	1	190	270	
			SVTO	0813.0	0815.0	III		2	26	49	
			IZMI	0813.2	0815.7	III	GG	2	25	270	
	0800	1345	POTS	0813.2	0815.4	III	G	2	40X	90U	
			POTS	0825 E	1345 U	I	S,W	1	110U	170U	
	0836	1334	ONDR								
	0850	1450	BLEN								
			IZMI	1053.4	1056.3	III	GG	2	30	90	
			POTS	1209.6	1209.9	III	G	3	75	170U	
			POTS	1236.6	1241.5	III	G	3	40X	170U	
			POTS	1248.5	1248.6	III	B	2	40X	70U	
			SVTO	1310.0	1313.0	III		1	30U	163U	
			POTS	1310.5	1312.6	III	GG	3	40X	300	
			POTS	1319.3	1319.8	III	G	1	110U	170U	
			POTS	1333.3	1335.0	III	G	2	40X	170U	
	2000	2400	CULG	2048.0	2048.0	III	B	1	30	140	
			CULG	2139.0	2142.0	III	G	1	25	160	
	2148	2400	HIRA								
			LEAR	2339.0	2340.0	III		1	25	48	
			LEAR	2357.0	0027.0	III	N	1	25	103	
03	0000	0755	CULG	0011.0	0011.0	III	B	1	35	130	
			CULG	0027.0	0027.0	III	B	1	45	90	
			CULG	0201.0	0203.0	III	G	1	18	130	
			LEAR	0201.0	0253.0	III	N	3	25	180	
			CULG	0213.0	0223.0	III	GG	2	18	180	
			PALE	0217.0	0222.0	III		1	25	180	
	0000	0735	HIRA	0217.0	0223.0	III	G	3	25X	230	
			CULG	0219.0	0219.0	III	B	3	20	140	
			CULG	0254.0	0254.0	III	B	1	20	80	
			CULG	0407.0	0408.0	III	G	2	28	190	
			HIRA	0407.0	0407.5	III	B	2	40	210	
			LEAR	0407.0	0407.0	III		1	25	180	
			LEAR	0504.0	0505.0	III		1	25	106	
			CULG	0505.0	0506.0	III	G	1	20	100	
			CULG	0544.0	0611.0	III	N	1	18	90	
			LEAR	0544.0	0544.0	III		1	25	101	
			SVTO	0636.0	1003.0	CONT		1	25	180	
			CULG	0640.0	0651.0	III	G	1	20	180	
			LEAR	0641.0	0812.0	III	N	1	25	180	
			CULG	0719.0	0722.0	III	G	3	18	180	
			HIRA	0719.0	0720.5	III	G	2	500	200	
			LEAR	0719.0	0720.0	III		3	25	180	
			SVTO	0719.0	0720.0	III		2	25	180	
	0701	1200	IZMI	0719.2	0720.9	III	GG,C	2	30	270X	
			IZMI	0721.2	0722.6	III	GG	2	40	215	
			IZMI	0735.7	0738.8	III	GG,FS	2	35	240	
			CULG	0736.0	0739.0	III	G	1	25	160	
			IZMI	0811.0	0812.7	III	GG	1	40	95	
	0835	1335	ONDR								
			IZMI	0911.4	0911.6	III	B	1	45	65	
	0803	1359	POTS	0923	1345 U	I	S	1	110U	400	
			IZMI	0939.0	0939.7	III	G	2	40	150	
			LEAR	0939.0	0939.0	III		1	25U	151U	
			POTS	0939.0	0939.7	III	G	3	40X	170U	
			SVTO	0939.0	0939.0	III		1	75U	154U	
			POTS	0946.4	0946.5	III	B	1	110U	170U	
			POTS	1000.9	1003.8	III	G	3	40X	170U	
			IZMI	1001.0	1001.0	III	B	1	45	90	

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

JANUARY 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			LEAR	1002.0	1003.0	III		1	25	153	
			IZMI	1002.1	1003.7	III	G,C	2	35	165	
			POTS	1017.9	1018.2	III	G	2	110U	170U	
			IZMI	1018.1	1018.2	III	B	1	45	95	
	0850	1420	BLEN	1035.8	1050.0	DCIM	C	1	2000	4000X	
			POTS	1038.9	1039.0	III	B	1	110U	140	
			POTS	1058.5	1058.6	III	B	1	110U	170U	
			IZMI	1108.9	1109.1	III	B	2	45	95	
			POTS	1108.9	1109.1	III	B	1	40X	130	
			IZMI	1118.4	1118.5	III	B	1	40	95	
			IZMI	1123.0U	1200.0D	I	N	1	200	270X	
			IZMI	1123.5	1124.1	III	G	1	45	90	
			IZMI	1130.6	1130.9	III	G,U	2	45	95	
			POTS	1130.6	1135.7	III	G,U	2	40X	170U	
			POTS	1148.5	1208.0	III	GG	3	40X	800X	
			IZMI	1154.0	1154.4	III	G	2	75	170	
			SVTO	1154.0	1159.0	III		1	29U	175U	
			IZMI	1158.2	1159.8	III	GG	2	45	270X	
			SVTO	1229.0	1236.0	III		2	25	180	
			POTS	1229.1	1236.4	III	GG	3	40X	300	
			POTS	1335.8	1336.4	III	G	1	40X	170U	
			SVTO	1350.0	1400.0	III		1	32U	180U	
			POTS	1350.4	1359.3U	III	GG	3	40X	170U	
			SGMR	1354.0	1355.0	III		1	30	55	
			HOLL	2005.0	2006.0	III		1	25	175	
	2000	2400	CULG	2005.0	2008.0	III	G	1	45	180	
			CULG	2041.0	2052.0	III	GG	2	18	180	
			HOLL	2041.0	2042.0	III		1	25	167	
			PALE	2041.0	2053.0	III	N	1	25	180	
			HOLL	2044.0	2045.0	III		1	25	87	
			CULG	2100.0	2100.0	III	B	1	50	150	
	2148	2400	HIRA								
			CULG	2156.0	2156.0	III	B	1	50	90	
			CULG	2215.0	2215.0	III	B	1	60	180	
			CULG	2342.0	2345.0	III	G	1	50U	160	
04			LEAR	0014.0	0015.0	III		3	25	180	
			PALE	0014.0	0015.0	III		2	25	180	
	0000	0755	CULG	0014.0	0015.0	III	G	3	20	170	
	0000	0736	HIRA	0014.5	0015.0	III	B	3	30	190	
			CULG	0020.0	0026.0	III	G	1	30	160	
			LEAR	0020.0	0026.0	III		1	25	90	
			CULG	0111.0	0118.0	III	G	2	20	200	
			LEAR	0111.0	0119.0	III		2	25	180	
			HIRA	0115.0	0115.5	III	B	2	30	220	
			PALE	0115.0	0115.0	III		1	25	180	
			CULG	0420.0	0421.0	III	G	1	30	180	
			LEAR	0420.0	0421.0	III		1	25	104	
			CULG	0646.0	0646.0	III	B	1	18	90	
			LEAR	0712.0	0713.0	III		2	25	122	
			SVTO	0712.0	0713.0	III		1	31	44	
	0707	1200	IZMI	0712.5	0713.1	III	G,C	2	45	145	
			CULG	0713.0	0713.0	III	B	2	18	130	
			IZMI	0721.3	0721.4	III	B	1	45	70	
			CULG	0733.0	0733.0	III	B	1	23	120	
			IZMI	0733.2	0733.5	III	G	2	45	240	
	0834	1337	ONDR								
	0850	1500	BLEN								
	0803	1345	POTS	0930	1324 U	I	S,W	1	200U	400	110-170 MHz no obs
			IZMI	1027.6	1027.8	III	B	1	45	85	
			SVTO	1129.0	1131.0	III		1	113	180	
			POTS	1129.3	1132.1	III	G	2	40X	400	
			IZMI	1129.7	1132.0	III	GG	2	45	270X	
			POTS	1317.3	1320.3	DCIM		2	200U	400	
	2000	2400	CULG	2006.0	2008.0	III	G	2	40	180	
			PALE	2007.0	2007.0	III		1	25	180	
			CULG	2026.0	2026.0	III	B	1	28	90	
	2148	2400	HIRA								

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

JANUARY 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	0000	0755	CULG	0017.0	0020.0	III	G	1	30	90	
			LEAR	0052.0	0054.0	III		2	25	134	
			CULG	0053.0	0054.0	III	G	2	20	160	
			PALE	0053.0	0053.0	III		1	25	125	
	0000	0737	HIRA	0053.0	0053.5	III	B	1	30	220	
			LEAR	0423.0	0426.0	III		2	25	180	
			CULG	0424.0	0426.0	III	G	2	20	180	
			HIRA	0425.5	0426.5	III	G	3	30	210	
			LEAR	0514.0	0600.0	III	N	1	25	180	
			CULG	0515.0	0527.0	III	G	1	20	130	
			CULG	0552.0	0601.0	III	G	1	30	150	
			CULG	0656.0	0720.0	III	N	1	28	150	
			LEAR	0656.0	0821.0	III	N	2	25	180	
	0650	0718	IZMI	0656.4	0705.8	III	N	2	40	170	
	0724	1200	IZMI	0739.1	0744.0	III	N	1	180	270X	
			IZMI	0745.3	0751.1	III	N	2	135	270X	
			CULG	0747.0	0748.0	III	G	1	25	180	
			SVTO	0747.0	0748.0	III		1	129U	149U	
			IZMI	0747.2	0748.3	III	GG,U,FS	2	40	270X	
			IZMI	0758.3	0759.1	III	G	1	45	65	
			IZMI	0805.2	0806.2	III	G	2	220	270X	
			IZMI	0808.2	0812.5	III	GG	2	40	270X	
			SVTO	0809.0	0809.0	III		1	29U	164U	
			POTS	0809.5	0809.6	III	B	1	40X	170U	
			SVTO	0817.0	0820.0	III		1	29U	175U	
			IZMI	0817.2	0825.0	III	S	2	35	200	
	0803	1347	POTS	0820	1347 U	I	S	1	110U	400	
			IZMI	0826.8	0827.0	III	G	2	45	95	
			IZMI	0830.5	0830.5	III	B	1	210	270	
			IZMI	0831.5	0831.7	III	B	1	80	95	
			SVTO	0833.0	0825.0	III	N	1	29U	175U	
	0834	1339	ONDR								
			IZMI	0938.0	0938.2	I	G	1	260	270	
			POTS	0955.4	1015.5	III	GG	3	40X	600	
			IZMI	1002.1	1002.6	III	G	2	30	170	
			IZMI	1004.2	1004.5	III	G	2	30	170	
			IZMI	1008.2	1008.8	III	G	1	45	90	
	0850	1455	BLEN	1010.5	1015.0	DCIM	C	2	2500	3900	
			IZMI	1011.3	1016.4	III	GG,C	2	25	270X	
			LEAR	1012.0	1014.0	III		1	25	180	
			SVTO	1013.0	1014.0	III		2	32U	154U	
			IZMI	1019.0	1021.0	III	G	2	40	95	
			POTS	1019.0	1020.9	III	G	2	110U	170U	
			IZMI	1025.0U	1056.0U	I	N	1	200	270	
			IZMI	1056.8	1057.8	III	G	1	45	110	
			POTS	1057.0	1057.2	III	B	1	110U	150	
			IZMI	1124.5	1125.7	III	G	2	50	70	
			POTS	1124.5	1135.0	III	G	2	40X	170U	
			IZMI	1131.3	1131.6	III	G	2	40	140	
			IZMI	1134.5	1135.0	III	G	2	45	100	
			IZMI	1143.8	1144.0	III	B	2	35	95	
			POTS	1143.8	1153.6	III	GG	3	40X	170U	
			SVTO	1145.0	1146.0	III		1	32U	84U	
			IZMI	1145.1	1147.3	III	GG	2	30	170	
			IZMI	1150.4	1154.0	III	GG	2	30	120	
			SVTO	1215.0	1219.0	III		1	29U	83U	
			POTS	1215.3	1220.0	III	G	3	40X	250	
			POTS	1217.7	1217.9	DCIM		1	400	450	
			POTS	1227.1	1227.2	III	B	1	110U	150	
			POTS	1331.3	1331.5	III	B	2	50	170U	
			POTS	1338.8	1339.4	III	G	2	40X	150	
			HOLL	1818.0	1819.0	III		1	25	144	
			PALE	1818.0	1819.0	III		1	25	44	
	2000	2400	CULG	2032.0	2032.0	III	B	1	60	180	
			CULG	2124.0	2125.0	III	G	1	150	360	
			CULG	2132.0	2132.0	III	G	1	70	180	
			CULG	2143.0	2146.0	III	G	3	20	280	
			PALE	2145.0	2146.0	III		1	25	180	
	2148	2225	HIRA								

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

JANUARY 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			LEAR	2249.0	2249.0	III		1	102	168	
			PALE	2249.0	2249.0	III		1	109U	150U	
			CULG	2250.0	2250.0	III	B	1	65	180	
06			LEAR	0012.0	0013.0	III		1	36	180	
			PALE	0012.0	0012.0	III		1	84U	180U	
	0000	0755	CULG	0012.0	0013.0	III	G	1	40	200	
			CULG	0040.0	0042.0	III	G	1	50U	170	
			LEAR	0040.0	0040.0	III		1	51	102	
			LEAR	0135.0	0136.0	V		3	25	162	
			PALE	0135.0	0136.0	III		2	25	180	
	0022	0738	HIRA	0135.5	0136.0	III	B	3	30	230	
			CULG	0136.0	0136.0	III	B	3	23	170	
			CULG	0215.0	0216.0	III	G	1	23	90	
			LEAR	0215.0	0216.0	III		1	25	101	
			LEAR	0358.0	0359.0	III		1	25	158	
			HIRA	0358.5	0359.0	III	B	2	50	130	
			CULG	0359.0	0359.0	III	B	1	25	170	
			IZMI	0632.0	0933.0	III	G	2	30	180	
			LEAR	0656.0	0657.0	III		1	25	161	
	0656	1204	IZMI	0656.7	0657.2	III	G	2	45	100	
			IZMI	0716.0U	0937.0	I	N	1	180	270	
	0803	1400	POTS	0830 E	1327	I	S	1	200U	400	110-170 MHz no obs
	0833	1340	ONDR								
			IZMI	0843.9	0844.4	III	G	2	45	95	
	0850	1455	BLEN								
			IZMI	0850.4	0852.3	III	G	1	45	95	
			IZMI	0922.4	0922.7	III	G	2	45	95	
			IZMI	0926.7	0928.4	III	G	1	45	95	
			LEAR	0932.0	0932.0	III		1	25	139	
			SVTO	0932.0	0932.0	III		1	29U	132U	
			POTS	0932.1	0932.3	III	B	2	40X	90U	
			IZMI	0937.0U	1200.0D	I	S	2	45	270X	
			IZMI	1003.1	1003.4	III	B	1	45	95	
			IZMI	1011.6	1011.9	III	B	1	45	95	
			POTS	1017.5	1017.6	III	B	1	40X	90U	
			IZMI	1108.5	1108.8	III	B	1	40	95	
			SVTO	1205.0	1337.0	CONT		1	30U	157U	
			POTS	1246.5	1246.6	III	B	1	40X	90U	
			POTS	1331.4	1339.8	III	G	2	40X	90U	
			POTS	1350.8	1359.6	III	GG	3	40X	90U	
			SGMR	1351.0	1359.0	III		1	30	80	
			SVTO	1351.0	1359.0	III		2	31	180	
			SVTO	1420.0	1420.0	III		1	34	145	
	2000	2400	CULG	2025.0	2030.0	III	G	1	50U	180	
			CULG	2225.0	2227.0	III	G	1	20	90	
			CULG	2244.0	2248.0	III	G	1	60	360	
			LEAR	2244.0	2248.0	III		1	46	180	
	2148	2256	HIRA	2247.0	2247.5	III	B	1	60	290	
			LEAR	2337.0	2338.0	III		1	30	90	
			CULG	2338.0	2338.0	III	G	2	35	90	
07	0000	0755	CULG								
	0020	0739	HIRA								
	0700	1200	IZMI	0729.2	0729.3	III	B	1	45	70	
	0803	1400	POTS	0820 E	1350 U	I	S,C,DC	3	40X	400	
	0845	1455	BLEN								
			IZMI	0929.9	0932.2	III	GG	2	30	250	
			POTS	0930.4	0931.2	III	GG	3	40X	350	
			IZMI	0931.2	0932.5	I	GG,DC	2	120	160	
			IZMI	1002.8	1121.0	I	N	1	200	270X	
	0832	1342	ONDR	1118.1	1119.8	DCIM	G,W	1	2605	4373	
			SVTO	1140.0	1141.0	III		1	25	180	
			POTS	1140.4	1141.2	III	G	3	40X	325	
			IZMI	1140.5	1141.3	III	G	2	30	270X	
			IZMI	1143.1	1143.2	III	B	1	45	100	
			POTS	1217.4	1222.8	III	GG,C	3	40X	300	
			SVTO	1253.0	1254.0	III		1	29	68	
			POTS	1253.7	1254.3	III	G	1	50	170U	

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

JANUARY 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
07			SVTO	1255.0	1512.0	CONT		1	33U	153U	
			POTS	1340.0	1344.3	III	G	3	40X	170U	
			SGMR	1340.0	1343.0	III		1	30	60	
			SVTO	1343.0	1343.0	III		2	25	180	
	2000	2400	CULG	2000.0E	2400.0D	I	S,C	1	80	180	
			PALE	2032.0	2035.0	III		1	25	180	
			CULG	2033.0	2035.0	III	G	3	18	300	
	2149	2400	HIRA								
			LEAR	2315.0	1054.0	CONT		1	70	180	
08	0000	0740	HIRA								
	0000	0755	CULG	0000.0E	0755.0D	I	S,C	1	60	180	
			LEAR	0046.0	0049.0	III		1	25	78	
			CULG	0553.0	0556.0	III	G	1	23	70	
			SVTO	0647.0	1513.0	CONT		1	28U	162U	
			IZMI	0700.0E	1200.0D	I	S,C	2	45	270X	
			CULG	0712.0	0714.0	III	G	1	23	90	
			IZMI	0712.4	0714.2	III	GG	2	45	90	
			CULG	0754.0	0754.0	III	B	1	18	100	
			IZMI	0801.2	0801.8	III	G	2	50	95	
	0803	1359	POTS	0830 E	1359 U	I	S	1	200U	400	110-170 MHz no obs
			POTS	0833.6	0833.7	UNCLF		2	200U	260	
	0845	1455	BLEN								
			IZMI	1008.4	1008.6	III	B	1	40	60	
			IZMI	1011.3	1011.4	III	B,C	1	40	70	
	0832	1344	ONDR	1050.2	1053.2	DCIM	G	1	2000X	3992	
			ONDR	1050.3	1102.3	DCIM	W	1	1123	2000X	
			SVTO	1214.0	1214.0	III		2	29	161	
			POTS	1214.2	1219.3	III	G	3	40X	400	
			ONDR	1312.5	1314.5	DCIM	GG	3	800X	2000X	
			POTS	1312.7	1316.6	III	GG,C	3	40X	400	
			ONDR	1313.0	1313.3	DCIM	G	1	2000X	3055	
			SVTO	1313.0	1313.0	III		2	28	174	
	2000	2400	CULG	2031.0	2031.0	III	B	1	18	75	
			CULG	2119.0	2120.0	III	G	1	60U	90	
			CULG	2251.0	2251.0	III	B	1	60U	90	
			LEAR	2251.0	2253.0	III		1	25	103	
			LEAR	2320.0	2331.0	III		1	25	120	
			HOLL	2322.0	2324.0	III		1	25	177	
			CULG	2324.0	2328.0	III	G	1	20	150	
			PALE	2324.0	2324.0	III		1	25U	63U	
	2149	2400	HIRA	2324.0	2325.0	III	B	1	40	160	
			CULG	2356.0	2358.0	III	G	3	18	170	
			LEAR	2356.0	2357.0	III		2	25	180	
			HIRA	2356.5	2358.0	III	G	3	40	130	
09	0000	0755	CULG	0025.0	0025.0	III	B	1	35	80	
			LEAR	0151.0	0152.0	III		1	25	71	
			LEAR	0225.0	0226.0	III		1	25	66	
			CULG	0226.0	0226.0	III	B	1	35	80	
			CULG	0251.0	0254.0	III	G	1	28	170	
			LEAR	0251.0	0253.0	III		1	25	160	
	0000	0741	HIRA	0253.0	0254.0	III	B	1	40	180	
			CULG	0259.0	0259.0	III	B	1	18	100	
			LEAR	0259.0	0259.0	III		1	25	100	
			CULG	0600.0	0602.0	III	G	2	18	110	
			LEAR	0600.0	0601.0	III		1	25	116	
			CULG	0648.0	0650.0	III	B	1	23	750	
			HIRA	0648.0	0648.5	III	B	1	60	1800	
			LEAR	0648.0	0649.0	III		1	25	180	
	0708	1200	IZMI	0818.9	0819.0	III	B	1	45	95	
			LEAR	0828.0	0828.0	III		1	25	109	
			IZMI	0828.3	0828.9	III	GG	2	40	95	
			IZMI	0829.6	0830.7	III	GG	2	45	100	
	0831	1345	ONDR								
	0803	1400	POTS	0838	1400 U	I	S	1	110U	300	
	0840	1500	BLEN								
			POTS	0852.7	0857.6	III	GG	2	40X	170U	
			LEAR	0855.0	0857.0	III		2	25	105	

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

JANUARY 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			IZMI	0855.1	0857.7	III	GG,FS	2	30	135	
			SVTO	0856.0	0856.0	III		2	25U	83U	
			IZMI	1009.9	1010.1	III	B	2	40	120	
			POTS	1009.9	1012.4	III	G	2	40X	300	
			SVTO	1010.0	1010.0	III		1	54U	83U	
			IZMI	1011.2	1012.4	III	G	2	180	270X	
			POTS	1148.7	1153.1	III	G	2	40X	170U	
			IZMI	1148.9	1150.1	III	GG	2	30	145	
			SVTO	1149.0	1150.0	III		1	30U	124U	
			IZMI	1152.9	1153.0	III	B	1	40	65	
			POTS	1200.1	1206.1	III	G	2	40X	130	
			POTS	1301.8	1302.7	III	G	2	40X	90U	
			POTS	1343.9	1344.0	III	B	2	50	170U	
	2000	2400	CULG	2114.0	2115.0	III	G	1	20	90	
			CULG	2140.0	2140.0	III	B	1	30	90	
			LEAR	2240.0	2243.0	II		1	87	180	ESS 1432
			CULG	2241.0	2245.0	II	SH	2	60U	180	ESS 1200
			HOLL	2241.0	2244.0	II		1	58	180	ESS 1375
	2149	2400	HIRA	2241.0	2244.0	II		2	80	180	
			LEAR	2243.0	2245.0	III		1	45	180	
			HOLL	2356.0	2357.0	III		1	25	123	
10			LEAR	0029.0	0045.0	CONT		1	69	180	
	0000	0755	CULG	0029.0	0041.0	III	G	1	65	180	
	0000	0742	HIRA	0041.5	0054.0	II		2	30	140	
			CULG	0042.0	0055.0	II	SH	2	20	160	ESS 1200
			LEAR	0042.0	0054.0	II		1	25	41	ESS 0866
			CULG	0047.0	0050.0	II	FN	1	18	30	
			LEAR	0047.0	0049.0	III		1	32	90	
			PALE	0047.0	0052.0	III		1	25	60	
			LEAR	0051.0	0100.0	IV		1	25	58	
			CULG	0100.0	0109.0	III	G	1	20	170	
			LEAR	0100.0	0104.0	III		1	25	91	
			CULG	0110.0	0233.0	III	S,C	1	25	130	
			LEAR	0119.0	0253.0	IV		1	25	105	
			HIRA	0446.5	0447.0	III	B	1	120	230	
			HIRA	0530.0	0530.5	III	B	1	100	400	
			SVTO	0618.0	0706.0	CONT		1	67	180	
			SVTO	0635.0	0706.0	CONT		1	67	180	
	0700	1200	IZMI	0809.4	0816.0	III	N	2	150	270X	
	0800	1400	POTS	0817 E	1122	I	S	1	110U	300	
			POTS	0834.8	0834.9	III	B	1	250	325	
			IZMI	0925.0	0925.8	III	GG,C	2	45	270X	
			POTS	0925.0	0926.1	III	G	2	110U	400	
	0830	1347	ONDR	0950.1	0951.0	DCIM	G	1	2078	3777	
			SVTO	1002.0	1232.0	CONT		1	25	180	
			SVTO	1014.0	1015.0	III		1	50	180	
			IZMI	1014.3	1016.4	III	GG	2	40	270X	
			POTS	1014.3	1016.5	IV		3	40X	700	
			ONDR	1014.4	1016.1	DCIM	G	2	2000X	4500X	
			ONDR	1014.4	1017.1	DCIM	G	2	800X	2000X	
	0840	1500	BLEN	1014.4	1021.9	DCIM	C	3	1415X	4000X	
			LEAR	1015.0	1015.0	III		1	25	180	
			POTS	1016.8	1018 U	II	F,H	3	110U	130	
			POTS	1016.8	1023 U	II	SH	2	110U	225	
			IZMI	1017.0	1038.6	II		2	45	240	
			LEAR	1017.0	1054.0	CONT		1	72	180	
			POTS	1024.0	1027.2	II	UE	3	110U	150	
			POTS	1045.0	1045.2	UNCLF		1	200U	300	
			POTS	1059.8	1059.9	III	B	2	110U	170U	
			POTS	1121.0	1124.0	UNCLF		2	40X	400	
			IZMI	1121.4	1123.5	III	G	1	45	95	
			IZMI	1123.2	1125.8	III	GG	2	130	270X	
			POTS	1124.6	1125.4	II	F	2	110U	165	
			POTS	1124.6	1125.8	II	SH	2	155	310	
			IZMI	1134.0	1134.9	III	G	1	45	95	
			POTS	1232.4	1233.2	III	G	3	110U	300	
	2000	2400	CULG								
	2149	2400	HIRA								

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

JANUARY 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	0000	0743	HIRA								
	0000	0755	CULG	0510.0	0550.0	I	S	1	110	170	
	0701	1200	IZMI	0701.0E	1200.0D	I	S	2	190	270X	
	0800	1400	POTS	0825	1352 U	I	S	1	110U	350	
	0829	1349	ONDR								
	0840	1500	BLEN								
			IZMI	0841.4	0841.7	III	G,C	2	30	180	
			POTS	0841.5	0842.4	III	G	2	110U	170U	
			IZMI	0857.5	0857.7	III	B	1	45	60	
	2000	2400	CULG								
	2148	2400	HIRA								
12	0000	0744	HIRA								
	0000	0755	CULG	0452.0	0452.0	III	B	1	28	70	
	0700	1200	IZMI	0700.0E	1200.0D	I	N	2	170	270X	
			IZMI	0710.8	0711.0	III	B	1	45	95	
			CULG	0711.0	0711.0	III	B	1	23	70	
			IZMI	0805.6	0805.8	III	B	1	45	95	
	0800	1400	POTS	0820 E	1336	I	S	1	200U	350	110-170 MHz no obs
	0827	1350	ONDR								
			IZMI	0832.1	0832.9	III	G,FS	2	45	100	
			IZMI	0947.2	0947.4	III	B	1	45	70	
	0840	1505	BLEN	1210.5	1211.3	DCIM	C	2	1415X	4000	
			POTS	1307.3	1307.6	III	G	2	250	500	
			POTS	1332.5	1332.7	III	G	2	260	400	
			SGMR	1429.0	1429.0	III		1	30	80	
			SVTO	1430.0	1430.0	III		1	77	180	
	2000	2400	CULG								
	2148	2400	HIRA								
13	0000	0755	CULG	0255.0	0255.0	III	B	1	28	90	
			LEAR	0629.0	0630.0	III		1	83	180	
	0000	0744	HIRA	0629.5	0630.0	III	B	2	80	260	
			CULG	0630.0	0630.0	III	B	1	100	300	
	0650	1200	IZMI	0812.7	0813.2	III	G	2	75	270	
			LEAR	0813.0	0813.0	III		1	72	169	
	0800	1400	POTS	0820	1355	I	S,C,DC	2	110U	350	
			IZMI	0825.0	0825.5	III	G	2	150	270X	
			POTS	0825.0	0825.6	III	G,U	3	135	350	
	0826	1352	ONDR								
	0840	1505	BLEN								
			IZMI	0911.7	0919.5	UNCLF		2	45	95	
			IZMI	0936.6	0940.2	III	GG	2	45	95	
			IZMI	0943.0U	1200.0D	I	N	2	45	270	
			POTS	1059.9	1106.8	III	G	3	40X	170U	
			IZMI	1106.5	1106.8	III	G,U	2	45	160	
			POTS	1331.5	1331.9	III	G	2	110U	250	
	2000	2400	CULG								
	2148	2400	HIRA								
14	0000	0745	HIRA								
	0000	0755	CULG	0527.0	0630.0	I	S	1	110	170	
	0651	1200	IZMI	0651.0E	1200.0D	I	N	2	160	270	
			LEAR	0654.0	0655.0	III		2	25	96	
			SVTO	0654.0	0655.0	III		1	25	77	
			IZMI	0654.6	0655.8	III	GG	2	30	100	
			CULG	0655.0	0656.0	III	G	2	20	90	
			IZMI	0817.1	0819.1	III	GG,FS	1	45	95	
	0825	1354	ONDR								
	0800	1400	POTS	0834	1335	I	S,W	1	200U	300	110-170 MHz no obs
			IZMI	1025.2	1028.6	III	N	1	45	95	
	0840	1505	BLEN	1027.3	1030.0	DCIM	C	3	1415X	4000X	
			BLEN	1213.4	1215.5	DCIM	C	2	1415X	3900	
	2000	2400	CULG	2025.0	2139.0	III	N	1	25	180	
			CULG	2029.0	2400.0D	I	S	1	100	170	
	2148	2400	HIRA								
15	0000	0746	HIRA								
	0000	0755	CULG	0000.0E	0251.0	I	S	1	100	170	

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

JANUARY 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
15	0700	1200	IZMI	0700.0E	1200.0D	I	S	2	130	270X	
			IZMI	0720.2	0725.5	III	GG,FS	2	45	160	
			IZMI	0740.7	0744.7	III	GG,FS	2	45	95	
	0800	1400	POTS	0812	1358 U	I	S	2	110U	350	
	0840	1515	BLEN								
			IZMI	0912.0	1008.0	III	N	1	45	95	
			ONDR	1306.4	1308.4	DCIM	GG	2	870	1658	
	0824	1357	ONDR	1306.5	1309.0	DCIM	G	1	2000X	4500X	
	2000	2400	CULG	2220.0	2220.0	III	B	1	23	90	
16	0000	0755	CULG								
	0305	0747	HIRA								
			LEAR	0428.0	0536.0	CONT		1	71	180	
	0656	1200	IZMI	0656.0E	1200.0E	I	S	2	80	270X	
			IZMI	0736.0	0737.6	III	G	2	45	95	
			IZMI	0757.7	0922.0	III	N	1	45	95	
	0800	1400	POTS	0810 E	1205	I	S	1	110U	300	
	0823	1359	ONDR								
	0840	1515	BLEN								
			POTS	0852.3	0852.4	III	B	2	110U	170U	
			POTS	0917.9	0920.8	III	G	3	110U	170U	
			IZMI	0936.2	0936.4	III	G	2	120	190	
			POTS	0936.3	0936.4	III	B	3	125	170U	
			IZMI	0955.6	0957.8	III	GG	2	115	250	
			POTS	0955.6	0957.9	III	G	3	110U	170U	
			POTS	1130.6	1130.7	III	G	1	110U	170	
			HOLL	2222.0	2222.0	III		1	116	180	
			LEAR	2222.0	2227.0	III		1	86	180	
	2147	2400	HIRA	2222.5	2223.0	III	B	2	80	250	
	2000	2400	CULG	2223.0	2223.0	III	B	1	120	260	
			CULG	2227.0	2227.0	III	B	2	80	260	
			HOLL	2227.0	2227.0	III		1	111	180	
			HIRA	2227.5	2228.0	III	B	3	80	280	
			CULG	2239.0	2334.0	III	N	1	120	180	
			HOLL	2245.0	2246.0	III		1	113	180	
			LEAR	2245.0	2246.0	III		1	83	180	
			PALE	2245.0	2246.0	III		1	99	180	
			HIRA	2246.0	2246.5	III	B	3	110	240	
17			LEAR	0017.0	0017.0	III		1	25	140	
	0000	0755	CULG	0017.0	0017.0	III	B	1	30	170	
	0000	0748	HIRA	0048.0	0048.5	III	B	2	120	200	
			CULG	0049.0	0049.0	III	B	1	120	200	
			LEAR	0049.0	0049.0	III		1	119	180	
			LEAR	0128.0	0138.0	II		1	41	137	ESS 0350
			CULG	0130.0	0139.0	II	SH	2	70	130	ESS 300
			LEAR	0150.0	0310.0	IV		1	30	100	
			CULG	0215.0	0215.0	III	B	1	100	180	
			LEAR	0215.0	0215.0	III		1	83	180	
	0650	1200	IZMI	0704.8	0706.9	III	G	2	175	215	
			IZMI	0728.0U	0817.0U	I	N	1	200	270	
	0821	1400	ONDR								
	0800	1400	POTS	0823	1352	I	S,W	1	200U	350	110-170 MHz no obs
	0840	1515	BLEN								
			IZMI	0846.7	0847.7	III	GG	2	145	270X	
			IZMI	0856.2	0856.3	III	B	2	190	250	
			IZMI	0911.9	0917.9	III	N	1	180	270	
			LEAR	0918.0	0919.0	III		1	38U	180U	
			SVTO	0918.0	0926.0	III		1	25	180	
			IZMI	0918.7	0919.4	III	GG,C	2	30	170	
			IZMI	0926.3	0926.8	III	G	2	105	270X	
			POTS	0926.3	0926.9	III	G	2	200U	400	
			IZMI	0936.6	0939.0	III	GG	3	35	270X	
			LEAR	0937.0	0937.0	III		1	25U	180U	
			SVTO	0937.0	0937.0	III		1	35	180	
			POTS	0937.1	0937.8	III	G	3	40X	400	
			IZMI	0941.6	0943.5	III	G	2	150	270X	
			POTS	0941.9	0943.5	III	G	1	200U	300	
			IZMI	1010.7	1010.9	III	G	2	165	240	

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

JANUARY 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
17			IZMI	1030.0	1031.4	III	G	2	130	270X	
			POTS	1030.0	1031.5	III	G	2	200U	400	
			POTS	1057.1	1111.5	III	G	2	200U	500	
			IZMI	1102.4	1102.7	III	G	2	145	270X	
			IZMI	1104.5	1107.9	III	N	1	180	270	
			IZMI	1105.9	1106.4	III	G	2	135	270	
			SVTO	1109.0	1111.0	III		1	135	180	
			IZMI	1109.8	1110.0	III	G	2	130	270	
			IZMI	1110.9	1111.5	III	GG	2	105	270X	
			IZMI	1122.1	1124.3	III	GG	2	105	270X	
			POTS	1122.2	1123.0	III	G	3	200U	400	
			SVTO	1132.0	1133.0	III		1	54	180	
			IZMI	1132.1	1133.6	III	GG	2	30	270X	
			POTS	1132.2	1133.3	III	G	3	50	500	
			SVTO	1142.0	1142.0	III		1	116	180	
			IZMI	1142.4	1142.6	III	G	2	80	270X	
			POTS	1142.4	1142.6	III	G	3	200U	325	
			IZMI	1145.8	1145.8	III	B	1	120	190	
			IZMI	1150.1	1151.2	III	G	1	80	215	
			POTS	1151.0	1151.1	III	B	1	200U	325	
			POTS	1233.0	1239.1	III	G	2	200U	500	
			POTS	1257.5	1306.2	III	G	2	40X	300	
			HOLL	1506.0	1506.0	III		1	25	66	
			SGMR	1506.0	1506.0	III		1	30	50	
			SVTO	1506.0	1506.0	III		1	35	48	
			HOLL	1747.0	1748.0	III		1	25	112	
			HOLL	1915.0	1915.0	III		1	105	180	
	2000	2400	CULG	2132.0	2132.0	III	B	1	60	180	
	2146	2400	HIRA								
18	0000	0755	CULG	0514.0	0517.0	III	G	1	23	90	
	0000	0749	HIRA	0648.5	0649.0	III	B	2	140	240	
			CULG	0649.0	0649.0	III	B	1	35	250	
	0800	1400	POTS								
	0820	1403	ONDR								
	0650	1200	IZMI	0820.5	0820.6	III	B	1	80	245	
	0840	1515	BLEN								
	2000	2400	CULG								
	2145	2400	HIRA								
19	0000	0750	HIRA								
	0000	0755	CULG								
	0840	1515	BLEN								
	0804	1400	POTS	1008.5	1008.9	III	G	1	170U	575	
	0658	1200	IZMI	1008.6	1008.9	III	G	2	170	270X	
	0818	1405	ONDR	1100.3	1101.2	DCIM		1	2420	4500X	
			POTS	1158.4	1211 U	II	UE,H	3	75	170U	
			IZMI	1158.5	1200.0D	II		2	90	170U	
			SVTO	1159.0	1200.0	III		1	60	170	
			IZMI	1159.1	1159.7	III	G	2	85	190	
			SGMR	1300.0	1301.0	III		1	30	55	
	2000	2400	CULG								
	2145	2400	HIRA								
20	0000	0751	HIRA								
			LEAR	0645.0	0645.0	III		1	25	63	
	0000	0755	CULG	0645.0	0645.0	III	B	1	30	80	
	0700	1200	IZMI	0801.6	0803.8	III	G	1	45	70	
	0817	1407	ONDR								
	0840	1515	BLEN	1236.6	1238.6	III	GG,RS	2	1415X	3900	
	0800	1406	POTS	1400.4	1405.3	III	G	2	110U	170U	
			HOLL	1840.0	1853.0	II		2	25	180	ESS 0760
			PALE	1842.0	1853.0	II		3	25	180	ESS 0610
			SGMR	1842.0	1853.0	II		3	30	80	ESS 0700
	2000	2400	CULG	2110.0	2158.0	IV		1	30U	1600	
			CULG	2112.0	2121.0	II	FN,H	3	18X	160	ESS 1600
			HOLL	2112.0	2149.0	II		2	25	180	ESS 1350
			CULG	2113.0	2122.0	II	SH,H	3	20	250	
			PALE	2113.0	2125.0	II		2	25	180	ESS 0800

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

JANUARY 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	2114.0	2116.0	II		2	30U	70U	ESS 1300
			CULG	2117.0	2126.0	II	SH,H	2	55	180	
			CULG	2118.0	2126.0	II	FN	2	20	90	ESS 800
			CULG	2123.0	2135.0	III	G	1	23	150	
	2145	2400	HIRA								
21			LEAR	0015.0	0017.0	III		1	25	92	
	0000	0755	CULG	0015.0	0017.0	III	G	1	30	160	
			CULG	0433.0	0436.0	III	G	1	23	160	
			LEAR	0434.0	0434.0	III		1	25	180	
			LEAR	0630.0	0630.0	III		1	25	105	
			CULG	0631.0	0631.0	III	B	1	23	100	
			CULG	0702.0	0702.0	III	B	1	28	120	
	0700	1200	IZMI	0702.1	0702.6	III	G	2	45	150	
			IZMI	0729.6	0729.8	III	B	1	45	100	
			CULG	0745.0	0747.0	III	G	2	18	350	
			LEAR	0745.0	0747.0	III		2	25	180	
			SVTO	0745.0	0746.0	III		1	25	166	
			IZMI	0745.3	0747.0	III	GG,FS	2	35	270X	
	0000	0752	HIRA	0745.5	0746.5	III	G	2	70	300	
	0815	1409	ONDR								
	0825	1520	BLEN								
			LEAR	0903.0	0905.0	III		1	25	146	
			SVTO	0903.0	0905.0	III		1	25	131	
			IZMI	0903.3	0903.5	III	G	2	40	160	
			IZMI	0904.8	0905.1	III	G	2	45	145	
			IZMI	0928.9	0929.6	III	G	2	40	160	
	0800	1400	POTS	0928.9	0929.1	III	B	2	40X	90U	110-800 MHz no obs
			LEAR	1027.0	1027.0	III		1	25	180	
			SVTO	1027.0	1027.0	III		1	25	133	
			IZMI	1027.1	1028.0	III	GG	2	45	270X	
			POTS	1027.2	1027.4	III	B	2	40X	90U	
			IZMI	1047.0	1047.8	III	G	2	45	190	
			IZMI	1051.0	1052.0	III	G	1	40	90	
			SVTO	1151.0	1151.0	III		2	25	180	
			IZMI	1151.4	1151.9	III	GG,C	2	25	270X	
			POTS	1151.4	1152.0	III	G	3	40X	350U	
			POTS	1205.4	1205.6	III	G	2	40X	90U	
			POTS	1221.9	1223.8	III	G	2	40X	90U	
			SVTO	1222.0	1224.0	III		1	25	82	
			POTS	1223.8	1224.3	V		2	40X	55	
			HOLL	1916.0	1923.0	III		1	25	120	
			PALE	1916.0	1936.0	III	N	1	25	95	
	2144	2400	HIRA								
	2000	2400	CULG	2151.0	2151.0	III	B	1	60	120	
			CULG	2217.0	2330.0	I	S	1	110	180	
			LEAR	2218.0	2314.0	CONT		1	108	180	
22			LEAR	0330.0	0330.0	III		1	25	180	
			PALE	0330.0	0330.0	III		1	25	180	
	0000	0753	HIRA	0330.0	0330.5	III	B	2	50	280	
	0000	0755	CULG	0330.0	0330.0	III	B	2	18	180	
			LEAR	0420.0	0525.0	CONT		1	88	180	
			CULG	0643.0	0645.0	III	G	2	18	250	
			HIRA	0643.0	0644.5	III	G	2	50	210	
			LEAR	0643.0	0644.0	III		2	25	180	
			SVTO	0643.0	0644.0	III		1	25	154	
	0703	1200	IZMI								
	0814	1412	ONDR								
	0825	1520	BLEN								
			SVTO	1245.0	1248.0	III		1	25	132	
	0750	1401	POTS	1245.1	1249.0	III	G	3	40X	150U	110-800 MHz no obs
	2143	2400	HIRA								
	2000	2400	CULG	2250.0	2250.0	III	B	1	23	90	
23			LEAR	0434.0	0435.0	III		3	25	180	
	0000	0755	CULG	0434.0	0436.0	III	G	3	18X	280	
	0000	0755	HIRA	0434.5	0436.0	III	G	3	25X	300	
	0700	1200	IZMI	0751.3	0751.5	III	B	1	45	90	

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

JANUARY 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	0807.0U	0835.0U	I	S	2	45	270X	
	0812	1413	ONDR								
	0825	1520	BLEN								
			IZMI	0854.8	0855.2	UNCLF		1	45	65	
	0750	1411	POTS	0858.1	0900.5	III	B	1	110U	150	
			IZMI	0901.4	0903.5	III	G	1	45	70	
			POTS	1004.7	1004.8	III	B	1	110U	150	
			SVTO	1246.0	1248.0	III		1	31U	155U	
			POTS	1246.3	1250.0	III	G	3	40X	170U	
			POTS	1257.1	1257.3	III	B	2	110U	250	
			POTS	1405.7	1410.0	III	GG	2	40X	350	
			SVTO	1406.0	1407.0	III		1	31U	170U	
			SGMR	1407.0	1407.0	III		2	30	80	
	2000	2400	CULG	2013.0	2016.0	III	G	1	28	80	
	2200	2400	HIRA								
24	0000	0755	CULG								
	0000	0756	HIRA								
	0701	1200	IZMI								
	0810	1415	ONDR								
	0825	1520	BLEN								
	0750	1414	POTS	1149.7	1151.5	III	G	1	200U	400	110-170 MHz no obs
			POTS	1215.0	1215.2	III	B	2	40X	90U	
	2143	2400	HIRA								
	2000	2400	CULG	2143.0	2143.0	III	B	1	100	180	
25			LEAR	0328.0	0330.0	III		1	25	150	
	0000	0755	CULG	0328.0	0330.0	III	G	1	30	160	
	0000	0757	HIRA	0328.5	0330.5	III	G	1	30	280	
	0658	1200	IZMI								
	0809	1418	ONDR								
	0825	1520	BLEN								
	0750	1413	POTS	1125.3	1125.4	III	B	1	110U	170U	
			POTS	1154.8	1154.9	III	G	1	110U	170U	
			POTS	1213.8	1219.4	III	GG	3	40X	350	
			SVTO	1217.0	1218.0	III		1	34	167	
			POTS	1217.7	1218.4	V		3	55	75	
			POTS	1243.2	1248.1	III	G	1	110U	250	
			POTS	1300.9	1301.4	III	B	1	110U	170U	
			POTS	1357.2	1357.3	III	G	2	110U	250	
	2000	2400	CULG								
	2143	2400	HIRA								
26			LEAR	0601.0	0603.0	III		1	25	136	
	0000	0755	CULG	0601.0	0603.0	III	G	1	18	140	
			LEAR	0604.0	0605.0	III		3	25	180	
			LEAR	0604.0	0617.0	II		2	39	180	ESS 0534
			HIRA	0604.5	0615.0	II		3	90	220	
	0000	0758	HIRA	0604.5	0605.5	III	B	3	40	270	
			CULG	0605.0	0606.0	III	G	3	20	300	
			CULG	0606.0	0615.0	II	FN	3	40	90	
			CULG	0606.0	0616.0	II	SH	3	70	190	ESS 500
			CULG	0622.0	0625.0	III	G	1	28	75	
			CULG	0746.0	0746.0	III	B	1	23	80	
	0703	1200	IZMI	0746.0	0746.2	III	G	1	45	95	
	0750	1420	POTS	0851.2	0852.7	DCIM		2	200U	750	110-170 MHz no obs
			IZMI	0851.3	0852.6	III	GG,C	2	115	270X	
	0825	1520	BLEN	0851.3	0854.0	DCIM	C	3	1415X	4000X	
			ONDR	0851.4	0852.4	DCIM	GG	1	800X	2000X	
	0807	1420	ONDR	0851.4	0853.2	DCIM	G	2	2000X	4500X	
			IZMI	1146.2	1155.3	III	S	1	45	95	
			IZMI	1153.7	1153.8	III	G	1	65	190	
			IZMI	1155.5	1200.9D	II	G	2	40U	105	
			SVTO	1157.0	1201.0	III		2	25U	84U	
			SVTO	1157.0	1207.0	II		2	25U	84U	ESS 0676
			POTS	1157.1	1209.6U	II	UE,H	3	40X	90U	
			IZMI	1157.8	1159.7	II	HARM,SF	2	32U	120	
			IZMI	1159.3	1159.7	III	N	2	40	160	
			POTS	1245.6	1245.9	UNCLF		2	40X	65	

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

JANUARY 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
26			BLEN	1421.8	1427.2	DCIM	C	1	1415X	4000X	
	2000	2400	CULG								
	2142	2400	HIRA								
27			LEAR	0006.0	0006.0	III		1	28	62	
	0000	0755	CULG	0006.0	0006.0	III	B	1	40	90	
			LEAR	0456.0	0510.0	III	N	1	25	106	
			LEAR	0510.0	0625.0	CONT		1	25	104	
			CULG	0542.0	0546.0	UNCLF		1	55	75	
			LEAR	0542.0	0544.0	III		1	25	92	
			LEAR	0643.0	0643.0	III		1	25	127	
			CULG	0644.0	0644.0	III	B	1	18	90	
			CULG	0711.0	0726.0	III	N	1	20	120	
	0701	1200	IZMI	0711.1	0711.5	III	G,FS	2	45	95	
			LEAR	0716.0	0726.0	III	N	2	25	180	
			IZMI	0716.1	0716.6	III	G,FS	2	45	105	
			IZMI	0720.8	0721.0	III	B	1	45	95	
			IZMI	0722.2	0722.4	III	G	2	45	95	
			CULG	0724.0	0726.0	III	G	3	18X	420	
			SVTO	0724.0	0725.0	III		2	25	180	
			IZMI	0724.1	0725.4	III	GG	2	30	270X	
	0000	0759	HIRA	0724.5	0725.5	III	G	3	50	400	
			IZMI	0726.0	0726.1	III	B,FS	2	40	90	
	0805	1422	ONDR								
			IZMI	0852.3	0852.6	III	G,FS	1	45	95	
	0825	1525	BLEN	1112.0	1114.5	DCIM	C	2	2000	4000X	
			IZMI	1126.7	1128.3	III	GG,FS	2	40	145	
			IZMI	1131.4	1131.7	III	G	1	45	90	
			IZMI	1136.8	1139.7	III	N	2	45	160	
			HOLL	1851.0	1955.0	III	N	1	25	131	
			HOLL	2013.0	2200.0	CONT		1	25	180	
	2000	2400	CULG	2126.0	2126.0	III	B	1	45	100	
	2141	2400	HIRA								
			HOLL	2202.0	2214.0	III		1	25	180	
28	0000	0755	CULG	0000.0	0000.0	III	B	1	300	500	
			CULG	0114.0	0114.0	III	B	2	28	500	
			LEAR	0114.0	0114.0	III		2	28	180	
			PALE	0114.0	0114.0	III		1	25	180	
	0000	0800	HIRA	0114.0	0114.5	III	B	2	25X	900	
			CULG	0129.0	0129.0	III	B	1	20	100	
			LEAR	0129.0	0129.0	III		1	25	66	
	0701	1200	IZMI	0750.5	0751.4	III	GG	1	130	270	
	0750	1425	POTS	0750.6	0751.5	III	G	1	200U	300	110-170 MHz no obs
			POTS	0759.0	0759.3	III	G	1	240	400	
	0803	1424	ONDR								
			IZMI	0811.2	0811.3	III	B	2	80	170	
			POTS	1159.8	1200.1	III	B	2	40X	90U	
			POTS	1355.5	1356.5	UNCLF		1	200U	350	
	0825	1525	BLEN	1522.8	1527.1X	DCIM	C	1	2000	4000X	
	2000	2400	CULG	2116.0	2116.0	III	G	1	60X	100	
	2141	2400	HIRA								
29			LEAR	0414.0	0416.0	III		2	25	161	
	0000	0755	CULG	0415.0	0415.0	III	G	2	20	170	
	0000	0801	HIRA	0415.0	0415.5	III	B	2	25X	190	
	0740	1200	IZMI								
	0801	1426	ONDR								
	0750	1428	POTS	0810	1420 U	I	S,W	1	110U	250	
	0825	1530	BLEN	1337.4	1338.6	III	G	2	1415X	3600	
	2140	2400	HIRA								
	2000	2400	CULG	2204.0	2205.0	III	G	1	20	170	
30			LEAR	0052.0	0055.0	III		2	25	94	
	0000	0755	CULG	0054.0	0055.0	III	G	1	18	90	
			LEAR	0321.0	0323.0	III		1	25	180	
	0000	0801	HIRA	0323.0	0323.5	III	B	2	25X	190	
	0655	1200	IZMI								
	0800	1429	ONDR								

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

JANUARY 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
30	0750	1428	POTS	0803	1422 U	I	S,W	1	110U	250	
	0825	1530	BLEN								
			POTS	1257.6	1257.8	III	B	1	110U	250	
	2139	2400	HIRA								
	2000	2400	CULG	2153.0	2153.0	III	B	1	18	80	
			HOLL	2215.0	2216.0	III		2	25	90	
			CULG	2216.0	2216.0	III	B	1	20	90	
			CULG	2220.0	2400.0	III	S	1	40U	90	
31	0000	0802	HIRA								
	0000	0755	CULG	0602.0	0602.0	III	B	1	60U	90	
	0750	1430	POTS	0750 E	1420 U	I	S,W	1	200U	300	
	0758	1431	ONDR								
	0825	1530	BLEN								
	0701	1200	IZMI	0905.6	0906.7	III	GG	2	40	95	
			POTS	1209.7	1210.0	III	B	2	40X	90U	110-170 MHz no obs
			POTS	1239.7	1239.8	III	B	1	325	400	
			POTS	1335.3	1335.5	III	B	1	40X	70	
	2000	2400	CULG								
	2138	2400	HIRA								

Event Remarks:

B = Single burst
C = Underlyling 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