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Spectral Observations

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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	0738	HIRA								
	0000	0755	CULG	0640.0	0640.0	III	B	1	75	160	
	0650	1200	IZMI								
			LEAR	0744.0	0744.0	III		1	40	55	
	0837	1330	ONDR								
	0900	1450	BLEN								
	0811	1353	POTS	0937	1353 U	I	S,W	1	110U	170U	
			POTS	0957.0	0957.2	III	B	2	110U	170U	
			POTS	1049.5	1049.6	III	B	1	110U	145	
			POTS	1148.6	1148.8	III	G	1	110U	170U	
			SGMR	1333.0	1334.0	III		1	30	80	
			PALE	2015.0	2017.0	III		1	25	50	
			SGMR	2016.0	2018.0	III		1	30	80	
	2020	2400	CULG	2020.0	2021.0	III	G	1	75	160	
			CULG	2052.0	2053.0	III	G	1	70	160	
	2142	2400	HIRA								
02	0000	0739	HIRA								
	0000	0755	CULG	0357.0	0407.0	III	GG	1	30	170	
			LEAR	0358.0	0411.0	V		2	30	80	
			LEAR	0630.0	0716.0	CONT		1	30	80	
	0700	1200	IZMI								
			SVTO	0755.0	1044.0	CONT		1	35	60	
	0836	1333	ONDR								
	0900	1450	BLEN								
			SVTO	1237.0	1237.0	III		1	60	84	
	0811	1353	POTS	1237.1	1237.3	III	G	2	40X	90U	110-170MHZ no obs
	2020	2400	CULG	2215.0	2215.0	III	B	1	60	170	
			CULG	2223.0	2228.0	III	G	2	30	1000	
			PALE	2223.0	2224.0	III		1	30	45	
	2142	2400	HIRA	2223.4	2223.8	III	B	2	40	400	
			CULG	2227.0	2233.0	II	FN	2	55	110	
			CULG	2227.0	2233.0	II	SH	2	110	220	ESS 450
			HIRA	2227.4	2232.6	II	FN	1	60	100	
			HIRA	2227.4	2232.6	II	SH	2	100	180	
			LEAR	2231.0	2232.0	III		1	62	71	
			CULG	2235.0	2245.0	CONT		1	70	160	
			CULG	2250.0	2251.0	III	G	1	80	180	
03	0000	0755	CULG	0223.0	0224.0	III	G	1	60	260	
	0000	0740	HIRA	0223.2	0223.4	III	B	1	60	140	
			CULG	0513.0	0513.0	III	B	1	30	150	
			CULG	0547.0	0547.0	III	B	1	25	150	
			CULG	0653.0	0654.0	III	G	1	60	120	
	0700	1200	IZMI	0731.4	0731.9	III	G	2	50	165	
			CULG	0732.0	0732.0	III	B	1	50	160	
			IZMI	0744.7	0744.9	III	G	2	85	215	
	0836	1335	ONDR								
	0900	1450	BLEN								
	0811	1353	POTS	1008.1	1008.3	III	B	1	40X	60	110-170MHZ no obs
	2020	2400	CULG								
	2142	2400	HIRA								
			LEAR	2346.0	2347.0	III		1	72	80	
04	0000	0741	HIRA								
			LEAR	0154.0	0155.0	III		2	30	80	
	0000	0755	CULG	0155.0	0155.0	III	B	1	28	180	
			LEAR	0627.0	0632.0	III		2	30	55	
			LEAR	0732.0	0751.0	III	N	2	30	60	
	0648	1200	IZMI	0744.5	0745.6	III	G	1	45X	120X	
			IZMI	0750.0	0751.1	III	GG	2	45	150	
	0811	1353	POTS								110-170MHz no obs
			IZMI	1111.0	1111.5	III	G	2	105	250	
	0835	1335	ONDR	1113.1	1114.4	DCIM	G	1	2235	4500X	
	0900	1450	BLEN	1113.3	1120.3	III	GG,RS	1	1000X	1500	
			SGMR	1926.0	1926.0	III		1	30	50	
	2020	2400	CULG								
	2143	2400	HIRA								

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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
05	0000	0755	CULG	0001.0	0002.0	III	G	1	30	90	
			CULG	0124.0	0131.0	III	G	1	40	180	
			CULG	0132.0	0137.0	III	G	1	20	90	
			LEAR	0132.0	0136.0	III		2	30	80	
	0000	0741	HIRA	0132.4	0135.8	III	G	1	40	90	
			LEAR	0251.0	0259.0	III		2	30	80	
			CULG	0357.0	0358.0	III	G	1	30	120	
			CULG	0558.0	0558.0	III	B	1	30	80	
	0700	1200	IZMI								
	0811	1353	POTS								110-170MHz no obs
	0835	1337	ONDR								
	0850	1450	BLEN								
	2020	2400	CULG								
	2143	2400	HIRA								
06			LEAR	0030.0	0037.0	III		2	30	60	
	0000	0750	CULG	0030.0	0037.0	III	G	1	23	90	
			CULG	0158.0	0211.0	III	GG	1	18	170	
			LEAR	0159.0	0211.0	III	N	2	30	80	
			LEAR	0226.0	0227.0	III		1	30	50	
			CULG	0647.0	0651.0	III	GG	1	23	180	
			LEAR	0647.0	0650.0	III		2	30	80	
	0000	0742	HIRA	0647.4	0650.6	III	G	1	50	180	
			CULG	0746.0	0748.0	III	G	1	25	80	
	0811	1400	POTS								110-170MHz no obs
	0658	1200	IZMI	0823.9	0824.1	III	G	2	45X	65	
	0834	1338	ONDR								
			IZMI	0842.0	0842.2	III	B	1	45	85	
	0850	1450	BLEN								
			IZMI	0913.1	0913.2	III	B	1	45	65	
			IZMI	0921.2	0924.1	III	N	1	45	95	
	2020	2400	CULG	2141.0	2142.0	III	G	1	45	90	
	2143	2400	HIRA								
			CULG	2216.0	2220.0	III	G	1	20	150	
			PALE	2218.0	2219.0	III		1	25	45	
			LEAR	2219.0	2219.0	III		1	30	40	
			CULG	2230.0	2233.0	UNCLF		1	40	80	
07	0000	0742	HIRA								
	0000	0750	CULG	0104.0	0104.0	III	B	1	30	90	
			IZMI	1124.8	1127.3	V	G	2	45	150U	
	0647	1200	IZMI	1124.8	1126.4	III	GG	2	45X	245	
	0809	1220	POTS	1124.8	1127.5U	III	G	3	40X	275U	110-170MHz no obs
			SVTO	1125.0	1128.0	III		3	35	85	
			ONDR	1125.2	1126.5	DCIM		1	965	2000X	
	0833	1340	ONDR	1125.3	1126.2	DCIM		1	2000X	4500X	
	0850	1500	BLEN	1125.6	1126.2	DCIM	C	1	1300	2800X	
	1240	1400	POTS	1305.1	1305.2	III	B	2	110U	145	
			SGMR	1328.0	1328.0	III		1	30	60	
			SVTO	1328.0	1328.0	III		1	35	68	
			POTS	1328.1	1328.5	III	G	2	40X	150	
			LEAR	2224.0	2226.0	III		2	30	70	
			PALE	2224.0	2226.0	V		3	25	75	
	2125	2400	CULG	2224.0	2226.0	III	G	2	20	160	
	2143	2400	HIRA	2224.6	2226.0	III	G	2	40	150	
			CULG	2229.0	2242.0	III	N	1	60	150	
			CULG	2241.0	2241.0	UNCLF		1	30	70	
			LEAR	2242.0	2251.0	V		1	30	63	
			CULG	2248.0	2252.0	UNCLF		1	30	40	
			PALE	2250.0	2250.0	III		1	30	40	
			CULG	2253.0	2253.0	III	G	1	23	50	
08	0000	0744	HIRA								
			LEAR	0000.0	0001.0	III		1	37	57	
			PALE	0001.0	0001.0	III		1	30	45	
	0000	0750	CULG	0001.0	0004.0	III	G	1	23	80	
			CULG	0220.0	0220.0	III	B	1	20	180	
			LEAR	0220.0	0220.0	III		1	30	50	
	0648	1200	IZMI	0704.1	0706.1	III	G	2	85	180	

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08	0809	1400	POTS	0824.8	0825.1	III	G	2	135U	170U	
	0832	1340	ONDR								
	0845	1500	BLEN								
			IZMI	0938.6	0938.8	III	G	1	200	270X	
			IZMI	0943.5	0944.1	III	G,HARM	2	45X	95	
			POTS	1019.8	1020.2	III	G	2	40X	140	
			POTS	1021	1023	I	S	1	110U	170U	
			POTS	1148.5	1148.6	III	B	1	200U	375U	
			POTS	1323	1352	I	S,W	1	140	170U	
			SGMR	1648.0	1649.0	III		2	30	80	
	2143	2400	HIRA								
	2125	2400	CULG	2151.0	2152.0	III	G	1	18	180	
09	0000	0745	HIRA								
	0000	0750	CULG								
	0658	1200	IZMI								
	0809	1400	POTS								110-170MHz no obs
	0832	1343	ONDR								
			PALE	2130.0	2133.0	III		2	25	75	
	2143	2400	HIRA								
	2025	2400	CULG	2236.0	2236.0	III	B	1	20	150	
10	0000	0746	HIRA								
	0000	0750	CULG								
	0809	1022	POTS								110-170MHz no obs
	0700	1159	IZMI	0823.7	0824.3	III	G	2	50	140	
	0845	1500	BLEN	0848.0	0859.5	DCIM	C	1	1000X	2800X	
	0831	1345	ONDR	0900.5	0904.0	DCIM	G	1	2245	4500X	
			ONDR	1334.3	1344.5	DCIM	G	1	2020	4500X	
			BLEN	1339.6	1346.4	DCIM	C	1	1500	2800X	
	2025	2400	CULG								
	2143	2400	HIRA								
11	0000	0747	HIRA								
	0100	0750	CULG								
	0700	1200	IZMI	0827.6	0828.0	III	GG	2	145	270X	
	0830	1347	ONDR								
			IZMI	0835.7	0836.9	III	GG	2	145	270X	
	0845	1505	BLEN								
			SGMR	1404.0	1404.0	III		1	30	80	
			SVTO	1404.0	1404.0	III		2	35U	85U	
	2143	2400	HIRA								
	2025	2400	CULG	2145.0	2147.0	III	G	1	18	90	
12			LEAR	0135.0	0144.0	V		3	30	80	
	0000	0750	CULG	0135.0	0138.0	III	G	3	18X	180	
	0000	0748	HIRA	0135.8	0136.6	III	G	3	30	160	
			PALE	0136.0	0138.0	V		2	28	75	
			CULG	0138.0	0142.0	V		1	20	70	
			CULG	0141.0	0203.0	II	SH	2	23	130	SWF FLA ESS 650
			HIRA	0141.0	0153.0	II		1	40	130	ESS 600
			CULG	0143.0	0155.0	II	FN	2	18	65	
			LEAR	0144.0	0206.0	II		2	30	80	ESS 0500
			LEAR	0544.0	0545.0	III		1	30	70	
			CULG	0545.0	0545.0	III	B	1	23	170	
	0804	0936	POTS								
	0648	1200	IZMI	0935.8	0936.1	III	B	1	45	95	
			IZMI	1126.0	1136.3	III	N	2	105	270	
	0845	1505	BLEN	1127.5	1130.0	DCIM	C	1	1000X	2800X	
	0829	1348	ONDR	1129.1	1129.4	DCIM	G	1	800X	1290	
			PALE	2046.0	2048.0	III		1	25	50	
			SGMR	2046.0	2047.0	III		1	30	50	
	2025	2400	CULG	2046.0	2048.0	III	G	2	18	160	
	2143	2400	HIRA								
			CULG	2343.0	2343.0	III	B	1	30	90	
13	0000	0749	HIRA								
			LEAR	0102.0	0103.0	III		1	30	60	
	0000	0750	CULG	0102.0	0103.0	III	G	1	20	90	

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13			PALE	0158.0	0159.0	III		1	25	75	
	0659	1200	IZMI								
	0827	1350	ONDR								
	0845	1505	BLEN								
	1003	1404	POTS	1027	1028	I		1	130	140	
			POTS	1035.6	1035.7	III	B	1	110U	160	
			POTS	1138.4	1139.5	III	G	2	110U	170U	
			POTS	1255.1	1255.4	III	G	2	40X	170U	
	2025	2400	CULG								
	2143	2400	HIRA								
14	0000	0750	CULG								
	0000	0750	HIRA								
	0700	1200	IZMI								
	0826	1353	ONDR								
	0845	1505	BLEN								
	0803	1405	POTS	1156	1159	I	S	1	130	150	
			POTS	1203	1205	I	S	2	110U	140	
			POTS	1235	1240	I	S	1	150	170U	
			POTS	1248.8	1249.0	III	G	1	110U	140	
			POTS	1253	1254	I	S,W	1	140	150	
			SVTO	1307.0	1307.0	III		1	63	81	
			POTS	1307.4	1307.8	III	G,U	2	60	170U	
			POTS	1331	1332	I	S	1	150	170U	
			SGMR	1715.0	1715.0	III		1	30	55	
	2025	2400	CULG	2132.0	2140.0	III	GG	1	20	260	
			PALE	2134.0	2135.0	III		1	25	44	
	2143	2400	HIRA								
15	0000	0750	CULG								
	0000	0751	HIRA								
	0648	1200	IZMI								
	0803	1405	POTS								110-170MHz no obs
	0825	1354	ONDR								
	1135	1505	BLEN								
	2025	2400	CULG								
	2143	2400	HIRA								
16			LEAR	0427.0	0428.0	III		2	30	80	
	0000	0745	CULG	0427.0	0428.0	III	G	1	25	140	
	0000	0752	HIRA	0427.4	0427.6	III	B	1	50	120	
			CULG	0436.0	0436.0	III	B	1	30	90	
			CULG	0547.0	0547.0	III	B	1	100	180	
			CULG	0618.0	0619.0	III	G	1	20	130	
			LEAR	0618.0	0619.0	III		2	30	80	
			HIRA	0618.2	0618.4	III	B	1	50	140	
			LEAR	0623.0	0623.0	III		1	35	53	
			CULG	0703.0	0706.0	III	G	1	20	150	
			LEAR	0703.0	0706.0	III		2	30	80	
			SVTO	0703.0	0706.0	III		1	35	49	
	0647	1200	IZMI	0703.0	0707.3	III	GG	2	45X	170	
			IZMI	0746.7	0747.7	III	GG,FS	2	45X	125	
	0824	1357	ONDR								
	0840	1510	BLEN								
			SVTO	0847.0	0847.0	III		1	35U	55U	
			LEAR	0911.0	0912.0	III		1	30	61	
			IZMI	1018.9	1020.3	III	G	1	45	240	
			IZMI	1103.8	1104.0	I	GG	1	240	270	
			IZMI	1115.2	1115.3	III	B	1	45	65	
			SVTO	1204.0	1204.0	III		1	54U	75U	
			SGMR	1240.0	1241.0	V		1	30	55	
			SVTO	1240.0	1241.0	III		2	35	85	
			SGMR	1310.0	1318.0	III		2	30	50	
			SVTO	1310.0	1317.0	III		2	36	77	
			SGMR	1405.0	1422.0	III	N	2	30	80	
			SVTO	1407.0	1421.0	III	N	2	35	85	
			SGMR	1459.0	2015.0	III	N	3	30	80	
			PALE	1757.0	2015.0	III	N	3	25	75	
	2025	2400	CULG	2025.0E	2210.0	III	N	1	18	90	

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16			PALE	2130.0	2138.0	III		1	35	50	
			CULG	2133.0	2134.0	III	G	1	20	180	
	2143	2400	HIRA	2230.8	2231.8	III	G	3	25X	200	
			CULG	2306.0	2340.0	III	N	1	20	150	
			LEAR	2312.0	2313.0	III		1	30	41	
			LEAR	2330.0	2339.0	III		3	30	80	
			CULG	2331.0	2332.0	III	G	3	18	180	
			PALE	2331.0	0108.0	III	N	2	25	75	
			HIRA	2339.2	2339.4	III	B	1	30	120	
17			LEAR	0002.0	0331.0	III	N	2	30	80	
	0000	0745	CULG	0002.0	0038.0	III	N	2	20	180	
	0000	0752	HIRA	0005.4	0005.6	III	B	1	25X	180	
			HIRA	0036.0	0036.4	III	B	1	25X	130	
			CULG	0123.0	0124.0	III	G	1	60	160	
			HIRA	0123.6	0123.8	III	B	1	50	160	
			CULG	0133.0	0134.0	III	G	1	20	90	
			CULG	0150.0	0205.0	III	GG	2	18	180	
			HIRA	0152.0	0152.2	III	B	1	50	160	
			LEAR	0156.0	0157.0	III		3	30	80	
			HIRA	0156.8	0157.6	III	G	2	25X	200	
			PALE	0157.0	0159.0	III		2	30	70	
			HIRA	0202.0	0202.2	III	B	1	50	180	
			LEAR	0253.0	0256.0	III		3	30	80	
			CULG	0254.0	0256.0	III	G	3	18	300	
			HIRA	0254.0	0256.2	III	G	2	25X	200	
			PALE	0254.0	0254.0	III		1	30	70	
			CULG	0330.0	0332.0	III	G	2	18	180	
			HIRA	0330.0	0331.4	III	G	2	25X	170	
			LEAR	0420.0	0516.0	III	N	3	30	80	
			HIRA	0420.6	0421.0	III	B	1	25X	130	
			CULG	0421.0	0421.0	III	G	1	20	140	
			CULG	0428.0	0428.0	III	B	1	25	90	
			CULG	0436.0	0438.0	III	G	2	20	130	
			HIRA	0436.2	0438.0	III	G	2	25X	120	
			CULG	0515.0	0516.0	III	G	1	18	90	
	0700	1200	IZMI	0712.0U	0821.0U	I	S	1	110	270	
			LEAR	0810.0	0819.0	III		2	30	80	
			IZMI	0810.7	0811.3	III	G	2	45X	95	
			SVTO	0818.0	0819.0	III		1	35	85	
			IZMI	0818.7	0819.8	III	GG,FS	2	45X	170	
	0803	1410	POTS	0818.7	0820.4	III	G	2	40X	170U	
			POTS	0821	1410 U	I	S,W	1	110U	170U	
	0822	1359	ONDR								
			LEAR	0829.0	0832.0	III		3	30	80	
			SVTO	0829.0	0832.0	III		2	35	85	
			IZMI	0829.6	0834.8	III	GG	2	45X	180	
			POTS	0829.7	0832.4	III	GG,U	3	40X	170U	
			LEAR	0845.0	0949.0	III	N	2	30	80	
			POTS	0845.0	0845.6	III	G	1	40X	145	
			IZMI	0853.0	0857.7	III	GG	2	45X	180	
			SVTO	0854.0	0857.0	III		2	35	85	
			POTS	0854.6	0855.7	III	GG	2	40X	170U	
			POTS	0857.5	0858.5	III	G	2	40X	170U	
			POTS	0920.3	0920.5	III	B	1	110U	145	
			POTS	0924.0	0925.1	III	GG	3	40X	170U	
			IZMI	0924.2	0925.1	III	GG	2	45X	180	
			POTS	0928.5	0929.0	III	G,RS	3	40X	170U	
			IZMI	0928.6	0929.6	III	G	2	45X	160	
			POTS	0929.5	0929.9	III	G	2	110U	160	
			IZMI	0944.8	0949.8	III	N	2	45X	260	
			POTS	0946.5	0946.6	III	B	1	40X	70	
	0840	1510	BLEN	0946.8	0951.1	DCIM	C	1	1100	2800X	
			POTS	0947.0	0947.4	UNCLF		3	140	170U	
			POTS	0947.1	0948.2	DCIM		2	400	500	
			POTS	0949.6	0949.7	DCIM		2	400	550	
			IZMI	1025.0	1032.3	III	GG	2	45X	180	
			LEAR	1026.0	1031.0	III		2	30	80	
			POTS	1026.0	1026.4	III	G	2	40X	170U	

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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			SVTO	1026.0	1031.0	III		2	35	85	
			POTS	1027.6	1028.4	III	G,RS	2	40X	130	
			POTS	1030.1	1031.3	III	GG	2	40X	170U	
			POTS	1032.2	1032.3	III	B	2	110U	170U	
			POTS	1039.3	1039.4	III	B	2	110U	160	
			POTS	1058.4	1059.1	III	G	2	40X	170U	
			POTS	1101.9	1102.1	III	B	2	40X	130	
			POTS	1126.4	1126.7	III	G	2	110U	160	
			IZMI	1137.7	1140.6	III	GG	2	45X	145	
			POTS	1137.7	1138.9	III	G	3	40X	160	
			SVTO	1138.0	1140.0	III		1	61U	77U	
			POTS	1139.5	1140.6	III	G	2	40X	160	
			POTS	1149.4	1149.6	III	B	2	40X	65	
			SVTO	1428.0	1430.0	III		1	35	85	
			SGMR	1430.0	1430.0	III		1	30	50	
	2025	2400	CULG	2025.0	2029.0	III	G	1	23	180	
			CULG	2141.0	2149.0	III	GG	2	18	180	
			PALE	2141.0	2149.0	III		1	28	48	
	2142	2400	HIRA								
18			LEAR	0029.0	0035.0	III		2	30	80	
	0000	0745	CULG	0029.0	0033.0	III	GG	2	23	150	
	0000	0753	HIRA	0029.2	0031.6	III	G	1	25X	140	
			CULG	0036.0	0036.0	III	B	1	28	160	
			LEAR	0048.0	0101.0	III	N	1	30	60	
			CULG	0049.0	0049.0	III	B	1	28	80	
			CULG	0101.0	0101.0	III	B	1	28	80	
			CULG	0241.0	0242.0	III	G	1	28	90	
			LEAR	0401.0	0406.0	III		2	30	80	
			CULG	0402.0	0406.0	III	G	1	18	160	
			LEAR	0419.0	0425.0	III		3	30	80	
			CULG	0420.0	0421.0	III	G	2	20	180	
			HIRA	0420.0	0422.8	III	G	3	25X	300	
			CULG	0422.0	0424.0	III	G	3	18	270	
			CULG	0425.0	0425.0	III	B	1	23	170	
			CULG	0445.0	0445.0	III	B	2	18	90	
			HIRA	0445.4	0445.6	III	B	1	25X	80	
			CULG	0546.0	0555.0	III	GG	1	18	150	
			HIRA	0546.2	0549.4	III	G	1	30	140	
			CULG	0650.0	0650.0	III	B	1	20	80	
	0658	1200	IZMI	0725.1	0725.2	III	B	1	80	95	
			CULG	0733.0	0733.0	III	B	1	23	70	
			IZMI	0733.0	0733.3	III	B	1	45X	95	
			IZMI	0807.0	0821.8	III	GG	2	45X	135	
	0803	1410	POTS	0816	1410 U	I	S,C,DC	2	110U	170U	
			POTS	0816.2	0817.2	III	G	1	110U	170U	
			POTS	0818.6	0820.1	III	G	2	40X	170U	
			SVTO	0819.0	0819.0	III		1	66U	85U	
			POTS	0820.9	0823.7	III	G	2	110U	170U	
	0821	1401	ONDR								
			SVTO	0836.0	0843.0	II		1	35	47	ESS 0500
			IZMI	0836.6	0838.5	UNCLF		2	45X	50	
			POTS	0852	1410 U	III	N	1	40X	70U	
			IZMI	0852.0	0852.1	III	G	1	45	95	
			LEAR	0852.0	0852.0	III		1	30	75	
			SVTO	0852.0	0852.0	III		1	35U	48U	
			IZMI	0906.3	0906.4	III	B	1	45	65	
			POTS	0916.6	0916.7	III	B	1	110U	140	
			POTS	0918.8	0919.2	III	G	2	110U	130	
			IZMI	0921.1	0921.3	III	G	2	190	270X	
			POTS	0921.3	0921.4	III	UNCLF	2	150	170U	
			IZMI	0927.6	0927.7	III	B	1	45	65	
	0840	1510	BLEN	0937.3	1042.4	DCIM	C	2	1000X	2800X	
			SVTO	1019.0	1120.0	CONT		1	58U	81U	
			IZMI	1020.7	1200.0D	I	N	1	115	220U	
			IZMI	1033.2	1033.3	III	B	1	45	65	
			IZMI	1109.0U	1117.5	III	N	2	45X	150	
			POTS	1110.1	1110.6	III	G	2	110U	150	
			SVTO	1112.0	1116.0	III		2	35	85	

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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
18			POTS	1112.4	1115.4	III	G,RS	2	40X	170U	
			POTS	1116.2	1118.3	III	G	2	40X	170U	
			SVTO	1156.0	1157.0	III		1	55	75	
			IZMI	1156.2	1157.4	III	G	2	45X	95	
			POTS	1156.2	1156.8	III	G	2	40X	70	
			POTS	1157.2	1157.6	III	B	2	40X	130	
			POTS	1302.2	1302.4	III	G	2	40X	70	
			POTS	1307.1	1308.2	III	G	2	40X	140	
			POTS	1339.6	1340.8	III	G	2	110U	170U	
			POTS	1403.5	1404.2	III	GG	2	40X	170U	
			SGMR	1457.0	1458.0	III		1	30	80	
			SVTO	1457.0	1457.0	III		2	35	81	
			SGMR	1643.0	1645.0	III		1	30	70	
			SGMR	1714.0	1721.0	III		3	30	80	
			SGMR	1719.0	1731.0	II		2	30	80	ESS 0400
			SGMR	1731.0	2102.0	IV		2	30	80	
			PALE	1951.0	0150.0	CONT		1	25	45	
	2025	2400	CULG	2025.0E	2400.0D	IV		1	25	150	
			CULG	2242.0	2244.0	III	G	1	70	180	
			CULG	2326.0	2330.0	III	GG	2	20	180	
	2142	2400	HIRA	2326.2	2326.6	III	B	1	25X	130	
19	0000	0745	CULG	0000.0E	0440.0	IV	FS	1	25	150	
			CULG	0100.0	0100.0	III	B	1	20	60	
			LEAR	0140.0	0947.0	CONT		1	30	80	
			CULG	0207.0	0210.0	III	G	1	45	180	
			CULG	0216.0	0346.0	III	N	1	23	180	
			LEAR	0216.0	0216.0	III		2	30U	80U	
			CULG	0357.0	0400.0	III	G	2	18X	180	
	0000	0754	HIRA	0357.6	0359.2	III	G	3	30	160	
			CULG	0420.0	0420.0	III	B	1	20	180	
			CULG	0452.0	0454.0	III	G	3	18	160	
			HIRA	0452.2	0453.4	III	G	3	30	140	
			CULG	0511.0	0516.0	III	GG	2	40	230	
			HIRA	0511.4	0511.6	III	B	3	50	220	
	0647	1200	IZMI	0647.0E	1200.0D	I	N	2	55	270X	
			IZMI	0650.0U	1200.0D	III	N	1	45X	95	
			IZMI	0709.7	0710.5	III	GG	2	80	250	
			CULG	0710.0	0711.0	III	G	1	50	180	
			HIRA	0710.0	0710.4	III	B	1	100	180	
			IZMI	0757.3	0758.4	III	G	2	45X	95	
			IZMI	0801.0	0803.5	III	GG	2	45X	180	
			SVTO	0801.0	0803.0	III		2	35	85	
	0802	1410	POTS	0802 E	1410 U	I	S,C,DC	2	50	300U	
			IZMI	0815.4	0815.5	III	B	1	55	165	
			POTS	0815.4	0815.5	III	B	1	110U	140	
			POTS	0817.9	0818.0	III	B	2	110U	170U	
			POTS	0819.8	0819.9	III	B	2	135	170U	
			POTS	0836.4	0836.7	III	G	2	110U	170U	
			POTS	0841.1	0842.4	III	G,RS	3	110U	170U	
			IZMI	0900.2	0900.4	III	G	2	55	270	
			POTS	0900.3	0900.4	III	B	3	110U	170U	
			IZMI	0937.7	0938.7	III	G	2	45	270	
			POTS	0937.7	0938.8	III	G,RS	3	110U	170U	
			POTS	0942.4	0942.6	III	B	1	110U	140	
			POTS	0943.7	0943.8	III	B	1	110U	170U	
			POTS	0957.7	0957.8	III	B	2	110U	160	
			IZMI	1000.5	1004.3	III	GG	2	45X	160	
			POTS	1000.5	1004.6	III	GG,RS	3	40X	170U	
			LEAR	1001.0	1004.0	III		3	30	80	
			SVTO	1001.0	1004.0	III		3	35	85	
			SVTO	1004.0	1525.0	CONT		1	35	85	
			POTS	1005.6	1005.7	III	B,RS	2	135	170U	
			POTS	1016.5	1016.7	III	B	2	40X	60	
			POTS	1019.5	1020.2	III	G	2	40X	70	
			POTS	1021.9	1022.0	III	B	2	110U	170U	
			POTS	1022	1355	III	N	1	110U	170U	
			POTS	1036.6	1036.9	DCIM		2	550	720	
			POTS	1051.9	1052.8	III	G	3	110U	170U	

SOLAR RADIO EMISSION
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OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
19			IZMI	1052.0	1052.8	III	G	2	105	245	
			POTS	1056.7	1056.8	III	B	2	110U	170U	
			IZMI	1106.3	1107.1	III	G	2	45	140	
			POTS	1106.3	1107.2	III	G	3	40X	150	
			POTS	1113.1	1113.2	III	B	2	110U	160	
			POTS	1118.3	1122 U	IV	P	3	40X	550U	
			IZMI	1118.9	1120.1	III	GG	2	45X	270X	
			IZMI	1119.0	1121.9	CONT	HARM	2	45	240	
			SVTO	1119.0	1121.0	III		3	35	85	
			ONDR	1119.2	1120.2	DCIM	G	1	800X	2000X	
	0820	1401	ONDR	1119.2	1120.1	DCIM	G	1	2000X	4500X	
	0840	1510	BLEN	1119.4	1120.3	DCIM	P	2	1000X	2800X	
			BLEN	1119.7	1120.1	III	G,RS,U	3	1200	2500	
			POTS	1122.2	1123.5	III	G	2	40X	170U	
			POTS	1127	1336	III	N	1	40X	70U	
			POTS	1152.6	1152.9	III	G	2	110U	170U	
			POTS	1207.9	1208.5	III	G	2	40X	170U	
			POTS	1209.5	1209.6	III	B	2	110U	150	
			POTS	1222.1	1222.1	III	B	2	110U	160	
			POTS	1231.8	1232.0	III	G	2	40X	170U	
			POTS	1237.5	1237.7	III	B	2	40X	70	
			POTS	1243.6	1243.8	III	B	2	40X	80	
			POTS	1305.4	1306.4	III	G	2	40X	150	
			POTS	1323.4	1323.5	III	B	2	110U	160	
			POTS	1326.4	1326.5	III	B	3	110U	145	
			POTS	1343.1	1343.3	III	B	2	40X	80	
			PALE	1932.0	1932.0	III		1	25	75	
			SGMR	1932.0	1932.0	III		1	30	50	
			PALE	1951.0	1952.0	III		1	25	75	
			SGMR	1951.0	1952.0	V		3	30	80	
			CULG	2025.0E	2400.0D	III	S	1	20	180	
	2025	2400	CULG	2025.0E	2355.0	I	S	1	60	100	
			CULG	2043.0	2044.0	III	G	2	20	180	
			PALE	2043.0	2352.0	III	N	2	25	75	
			CULG	2051.0	2051.0	III	B	2	20	180	
			CULG	2105.0	2107.0	III	G	2	20	260	
			CULG	2210.0	2212.0	III	G	3	18	180	
	2142	2400	HIRA	2210.8	2217.4	III	G	3	25X	250	
			CULG	2215.0	2218.0	III	G	3	18	430	
			LEAR	2216.0	2217.0	III		2	30	80	
			LEAR	2308.0	2308.0	III		2	30	61	
			LEAR	2312.0	1022.0	CONT		2	30	80	
20	0000	0745	CULG	0000.0E	0745.0D	III	S	1	20	180	
			PALE	0032.0	0033.0	III		1	30	45	
			CULG	0130.0	0132.0	III	G	2	20	430	
			LEAR	0131.0	0132.0	III		3	30	80	
	0000	0755	HIRA	0131.6	0131.8	III	B	3	30	170	
			PALE	0132.0	0132.0	III		1	25	50	
			HIRA	0223.8	0229.0	III	G	3	25X	500	
			CULG	0224.0	0227.0	III	G	3	18	500	
			LEAR	0224.0	0226.0	III		3	30	80	
			PALE	0224.0	0226.0	III		2	25	75	
			CULG	0228.0	0230.0	III	G	1	60	520	
			LEAR	0543.0	0543.0	III		2	30	75	
			LEAR	0559.0	0950.0	III	N	2	30	80	
			CULG	0602.0	0607.0	III	GG	1	30	250	
			HIRA	0602.6	0605.6	III	G	2	50	200	
	0648	1200	IZMI	0641.5U	1200.0D	III	S	2	45X	95	
			IZMI	0723.0U	1200.0D	I	N	1	105	270X	
			IZMI	0805.5	0806.2	III	G	2	50	270X	
	0818	1405	ONDR								
	0830	1515	BLEN								
	0911	1413	POTS	0911 E	1413 U	I	S,C,DC	2	50	400U	
			POTS	0912	1322	III	N	1	40X	90U	
			POTS	0914.9	0915.0	III	B	2	110U	170U	
			IZMI	0949.8	0951.5	III	G	2	45	260	
			POTS	0949.9	0950.4	III	G	2	40X	170U	
			POTS	0951.3	0951.5	III	B	3	55	170U	

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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			POTS	1005.0	1005.1	III	B	1	110U	150	
			POTS	1006.8	1006.9	III	B	2	40X	70	
			POTS	1011	1406	III	N	1	110U	170U	
			POTS	1012.0	1012.2	III	B	2	110U	150	
			IZMI	1014.1	1014.3	III	B	2	45X	95	
			POTS	1030.5	1031.4	III	G	2	40X	60	
			SVTO	1102.0	1526.0	CONT		1	35	85	
			IZMI	1120.4	1120.7	III	G,FS	2	55	245	
			POTS	1120.4	1120.7	III	G	2	40X	170U	
			POTS	1146.1	1146.5	III	B	2	40X	70	
			POTS	1220.5	1220.6	III	G	2	40X	90U	
			POTS	1242.6	1242.7	III	B	2	40X	70	
			POTS	1243.4	1243.6	III	G	2	40X	60	
			POTS	1309.9	1311.6	III	GG	2	40X	150	
			POTS	1351.3	1351.6	III	G	3	40X	170U	
			POTS	1352.7	1353.1	III	G	2	40X	170U	
			POTS	1403.1	1403.2	III	B	2	110U	150	
			SGMR	1625.0	1625.0	III		1	30	80	
			PALE	1911.0	1912.0	III		1	25	50	
			SGMR	1911.0	1912.0	III		1	30	50	
			CULG	2025.0E	2252.0	III	S	1	20	120	
	2025	2400	CULG	2025.0E	2400.0D	I	S	1	100	180	
			CULG	2255.0	2256.0	III	G	1	20	260	
			PALE	2255.0	2255.0	III		1	25	40	
	2142	2400	HIRA	2255.4	2255.6	III	B	1	50	200	
21	0000	0745	CULG	0000.0E	0152.0	I	S	1	100	180	
			CULG	0002.0	0034.0	III	N	1	30	160	
	0000	0756	HIRA	0157.8	0158.0	III	B	1	100	200	
			CULG	0158.0	0158.0	III	B	1	60	180	
			LEAR	0230.0	0230.0	III		1	30	55	
			CULG	0249.0	0249.0	III	B	1	60	180	
			CULG	0303.0	0440.0	I	S	1	80	180	
			LEAR	0402.0	0837.0	CONT		1	30	80	
			CULG	0405.0	0426.0	III	N	1	23	150	
			CULG	0507.0	0509.0	III	G	1	150	600	
			CULG	0510.0	0511.0	III	G	3	65	170	
			CULG	0528.0	0529.0	III	G	1	23	95	
			CULG	0550.0	0745.0D	I	S	1	100	160	
			HIRA	0559.8	0600.2	III	B	3	70	160	
			CULG	0600.0	0601.0	III	G	1	23	120	
			CULG	0612.0	0613.0	III	G	1	23	500	
			HIRA	0612.0	0613.0	III	G	1	80	420	
			CULG	0615.0	0615.0	III	B	2	18	120	
			IZMI	0704.0E	1200.0D	III	N	2	45X	95	
	0704	1200	IZMI	0704.0E	1200.0D	I	S	2	80	270	
			POTS	0814 E	1414 U	III	N	1	110U	170U	
	0803	1414	POTS	0814 E	1414 U	I	S,C,DC	2	40X	170U	
	0817	1407	ONDR								
			IZMI	0904.1	0906.2	III	GG	2	80	270X	
			POTS	0904.2	0906.3	III	G	2	110U	170U	
			POTS	0907.9	0908.6	III	G	2	110U	170U	
			POTS	0914.7	0914.8	III	B	2	110U	170U	
			POTS	0930.4	0930.5	III	B	2	120	170U	
			POTS	0940.2	0940.8	DCIM		2	400U	600U	
			POTS	0946.5	0946.8	III	B	2	110U	170U	
			POTS	1009.4	1009.9	III	G	2	40X	160	
			IZMI	1114.3	1115.0	III	G	2	45X	160	
			POTS	1114.3	1115.1	III	G	2	40X	170U	
	0830	1520	BLEN	1130.5	1132.6	III	GG	1	1000X	1320	
			POTS	1133.1	1133.3	III	G	2	110U	170U	
			POTS	1204.7	1204.8	III	B	2	110U	150	
			POTS	1208	1246	III	N	1	40X	70	
			POTS	1239.8	1240.8	III	G	2	40X	70	
			POTS	1259.8	1300.0	UNCLF		2	40X	55	
			POTS	1401.6	1402.2	III	G	2	110U	170U	
			SVTO	1407.0	1407.0	III		2	41	85	
			POTS	1407.2	1408.5	III	GG,C	3	40X	170U	
	2141	2400	HIRA								

SOLAR RADIO EMISSION
Spectral Observations

JANUARY 2000

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
22	0000	0745	CULG								
	0000	0757	HIRA								
	0701	1200	IZMI	0700.0E	1200.0D	I	N	1	50	270	
			SVTO	0710.0	1528.0	CONT		1	35	85	
			IZMI	0713.0U	1200.0U	III	N	1	45	95	
			LEAR	0801.0	0915.0	CONT		1	30	80	
	0803	1416	POTS	0813 E	1416 U	I	S	1	110U	170U	
	0815	1408	ONDR								
	0825	1520	BLEN								
			IZMI	0838.4	0842.5	II	HARM	1	45	90	
			POTS	0957.7	0957.9	III	G,RS	2	120	170U	
			POTS	1013.2	1013.3	III	B	2	110U	170U	
			POTS	1019.1	1019.2	III	B	2	110U	150	
			PALE	1906.0	1907.0	III		1	25	45	
			SGMR	1906.0	1907.0	III		1	30	50	
	2025	2400	CULG								
	2030	2400	CULG	2117.0	2119.0	III	G	1	20	90	
	2140	2400	HIRA								
23	0000	0758	HIRA								
			LEAR	0322.0	0323.0	III		1	30	53	
			LEAR	0412.0	0413.0	III		1	30	80	
	0000	0745	CULG	0413.0	0413.0	III	B	1	20	90	
	0700	1200	IZMI	0740.0U	1200.0D	I	N	1	200	260	
	0813	1412	ONDR								
	0800	1418	POTS	0820	1418 U	I	S,W	1	110U	300U	
			POTS	0832.1	0832.2	III	B	1	135	170U	
			POTS	0910.3	0910.4	UNCLF		2	155	170U	
			IZMI	0934.1	0934.2	III	G,FS	1	45X	85	
			POTS	1135.4	1135.5	III	B	1	110U	155	
	2030	2400	CULG								
	2140	2400	HIRA								
24	0000	0745	CULG								
	0000	0759	HIRA								
			LEAR	0704.0	0704.0	III		1	30	40	
	0700	1200	IZMI	0704.1	0704.4	III	G	2	190	260	
	0759	1420	POTS	0811 E	1420 U	I	S,W	1	110U	300U	
	0812	1412	ONDR								
			IZMI	0813.6	0813.8	III	G	2	200	240	
			POTS	0813.6	0813.9	III	G	2	110U	170U	
	0825	1520	BLEN								
			IZMI	0832.0U	1200.0D	I	N	1	200	270X	
			LEAR	0852.0	0853.0	III		1	40	52	
			POTS	0852.9	0853.2	III	G	1	145	170U	
			POTS	0858.3	0858.8	III	G	1	110U	170U	
			POTS	0907.2	0907.3	III	B	1	145	170U	
			POTS	1016.4	1016.6	III	G	2	110U	170U	
			POTS	1020.6	1020.9	III	G	2	40X	170U	
			IZMI	1020.8	1022.8	III	G	2	45X	215	
			POTS	1022.0	1023.5	III	GG,RS	2	40X	170U	
			POTS	1023	1156	III	N	1	110U	170U	
			IZMI	1036.6	1037.0	III	G	2	105	180	
			POTS	1036.6	1037.0	III	G,RS	2	110U	170U	
			POTS	1125.9	1126.2	III	G	2	40X	65	
	2030	2400	CULG								
	2140	2400	HIRA								
25			LEAR	0346.0	0348.0	III		2	30	80	
	0000	0745	CULG	0347.0	0348.0	III	G	2	18	180	
	0000	0800	HIRA	0347.2	0347.4	III	B	1	25X	200	
	0758	1300	POTS								110-170MHz no obs
	0810	1415	ONDR								
	0702	1200	IZMI	0823.3	0823.5	III	G	1	225	260	
	0825	1520	BLEN								
			SVTO	1452.0	1452.0	III		2	39U	85U	
			SGMR	1532.0	1533.0	III		1	30	80	
	2030	2400	CULG								
	2139	2400	HIRA								

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Spectral Observations

JANUARY 2000

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
26	0000	0745	CULG	0103.0	0103.0	III	B	1	120	180	
			LEAR	0230.0	0231.0	III		1	40	66	
			CULG	0253.0	0253.0	III	B	2	20	160	
			LEAR	0253.0	0253.0	III		3	30	80	
			PALE	0253.0	0253.0	III		2	25	75	
	0000	0801	HIRA	0253.2	0253.4	III	B	3	40	120	
			CULG	0432.0	0433.0	III	G	1	23	90	
			CULG	0541.0	0745.0D	I	S	1	70	170	
	0700	1200	IZMI	0700.0E	1118.0U	I	S	2	85	270X	
			IZMI	0742.8	0743.3	III	GG	2	60	226	
	0825	1525	BLEN	0803.7	0812.0	DCIM	C	2	1000X	2800X	
			LEAR	0805.0	0805.0	III		2	30	55	
			SVTO	0805.0	0805.0	III		1	37	49	
			IZMI	0805.4	0805.6	III	B	2	45X	140	
	0756	1424	POTS	0805.4	0805.6	III	B	1	40X	70	
			POTS	0808	1424 U	I	S,C,DC	3	40X	400U	
			POTS	0837.8	0838.2	III	G	2	110U	170U	
			IZMI	0857.3	0857.5	UNCLF	FS	2	195	230	
			IZMI	0928.1	0928.3	III	B	1	50	70	
			POTS	1055.2	1055.8	III	G	2	40X	150	
			IZMI	1055.3	1055.8	III	G	2	45X	135	
			IZMI	1118.0U	1200.0D	I	S,C	2	45X	270X	
			SVTO	1125.0	1312.0	CONT		2	35	85	
	0808	1418	ONDR	1131.1	1149.2	DCIM	G	1	800X	2000	
			BLEN	1131.9	1136.2	DCIM	C	3	1000X	1350	
			SVTO	1347.0	1353.0	III		1	71	83	
	2030	2400	CULG								
	2138	2400	HIRA								
27	0000	0745	CULG								
	0015	0802	HIRA								
	0753	1424	POTS								110-170MHz no obs
	0704	1200	IZMI	0811.4	0811.6	III	B	1	45	110	
	0825	1525	BLEN								
			IZMI	0925.4	0925.5	III	B	1	45	65	
			SVTO	1029.0	1440.0	CONT		1	35	60	
	0807	1420	ONDR	1048.2	1048.3	DCIM	G	1	910	1500	
			IZMI	1139.1	1139.1	III	B	1	80	95	
	2030	2400	CULG								
	2138	2400	HIRA								
28	0000	0803	HIRA								
			LEAR	0051.0	0051.0	III		1	30	80	
	0000	0745	CULG	0051.0	0051.0	III	B	1	23	90	
			CULG	0333.0	0427.0	I	S	1	70	170	
			CULG	0624.0	0626.0	III	G	1	20	60	
			LEAR	0624.0	0626.0	III		1	30	54	
			SVTO	0739.0	1018.0	CONT		1	37U	59U	
	0805	1422	ONDR								
	0825	1525	BLEN								
	0753	1425	POTS	0843.8	0843.9	III	B	1	110U	170U	
			POTS	0847	1425 U	I	S,W	1	110U	350U	
	0649	1200	IZMI	0847.0	0857.0	I	S	1	200	215	
			POTS	0855.0	0855.1	III	B	2	110U	140	
			POTS	0912.6	0912.7	III	B	1	110U	170U	
			IZMI	0917.8	0919.0	I	GG	1	200	215	
			SVTO	1058.0	1404.0	CONT		1	35	66	
			IZMI	1122.7	1138.0	I	N	1	200	230	
			POTS	1306.0	1306.4	III	G	2	110U	170U	
			PALE	1945.0	1945.0	III		1	25	45	
			PALE	1957.0	2108.0	CONT		1	25	50	
	2030	2400	CULG	2030.0E	2107.0	III	S	1	20	180	
			CULG	2107.0	2147.0	III	N	1	90	180	
			CULG	2248.0	2248.0	III	B	1	40	120	
			CULG	2305.0	2355.0	III	N	1	60	180	
	2137	2400	HIRA	2305.2	2310.4	III	G	1	90	220	
29	0000	0804	HIRA								
			LEAR	0420.0	0422.0	III		2	30	61	

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JANUARY 2000

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
29	0000	0745	CULG	0420.0	0421.0	III	G	1	20	100	
	0704	1200	IZMI								
	0803	1422	ONDR								
	0825	1530	BLEN								
			SVTO	1320.0	1323.0	III		2	59	85	
	0753	1425	POTS	1320.4	1320.8	III	G	2	55	275U	
			POTS	1322.9	1323.4	III	G,RS	2	55	90U	
	2030	2400	CULG								
	2136	2400	HIRA								
30	0000	0745	CULG								
	0000	0805	HIRA	0427.8	0428.2	III	B	1	120	320	
			HIRA	0504.8	0505.0	III	B	1	100	200	
	0801	1426	ONDR								
	0751	1428	POTS	0808 E	1428 U	I	S	1	110U	170U	
			LEAR	0845.0	0845.0	III		1	37	57	
	0700	1200	IZMI	0845.5	0845.6	III	B	2	45X	95	
			POTS	0855.2	0855.4	III	B	2	110U	170U	
			LEAR	0900.0	0900.0	III		1	41	71	
			IZMI	0900.4	0900.8	III	G	2	45X	215	
			POTS	0900.5	0900.9	III	G	3	40X	170U	
			POTS	0912.9	0913.0	III	B	1	110U	160	
			POTS	0920.2	0920.3	III	B	1	120	170U	
			IZMI	0954.2	0954.4	III	G,FS	2	45X	135	
			POTS	0954.3	0954.5	III	G	2	40X	170U	
			POTS	1046.2	1046.3	III	G	1	120	220U	
			IZMI	1048.4	1048.4	III	B	1	200	260	
			IZMI	1055.0	1100.8	III	N	1	105	270	
			POTS	1055.0	1056.2	III	GG	2	110U	275U	
			POTS	1058.9	1100.9	III	GG,U	2	110U	170U	
			POTS	1102.1	1103.1	III	G	2	110U	170U	
			IZMI	1105.2	1105.8	III	G	1	145	255	
			POTS	1105.2	1105.8	III	G	2	110U	250U	
			POTS	1121.3	1121.7	III	G	1	140	400U	
			IZMI	1121.4	1121.7	III	G	1	200	270X	
			POTS	1228.0	1228.5	III	G	2	110U	170U	
			POTS	1230.5	1231.2	III	G	2	110U	170U	
			POTS	1301.8	1302.0	III	G	2	55	170U	
			POTS	1310.5	1310.8	III	G	2	125	170U	
			POTS	1314.4	1314.5	III	B	1	120	170U	
			POTS	1403.5	1403.9	III	G,RS	2	135	170U	
			POTS	1407.9	1408.0	III	B	2	110U	170U	
			POTS	1410.2	1411.5	III	G	2	40X	170U	
			POTS	1412.6	1412.9	III	G	2	40X	170U	
			POTS	1423.0	1423.1	III	B	1	110U	170U	
	2030	2400	CULG								
	2135	2400	HIRA								
31			LEAR	0154.0	0159.0	III		2	30	80	
	0000	0745	CULG	0155.0	0155.0	III	B	1	20	60	
	0000	0806	HIRA	0157.8	0158.8	III	G	2	50	400	
			CULG	0158.0	0159.0	III	G	1	20	260	
			HIRA	0208.8	0209.0	III	B	1	80	160	
			LEAR	0237.0	0243.0	III		3	30	80	
			HIRA	0237.8	0243.8	III	G	3	25X	500	
			CULG	0238.0	0243.0	III	GG	2	18	430	
			PALE	0238.0	0240.0	III		1	25	75	
	0751	1428	POTS	0840	1242	III	N	1	40X	90U	110-170MHZ no obs
	0825	1200	IZMI	0843.8	0846.52	III	GG	1	45X	150	
			LEAR	0844.0	1002.0	III	N	1	30	80	
			IZMI	0850.6	0855.9	III	B	2	45	95	
			IZMI	0851.5	0851.8	III	G	2	105	270X	
			IZMI	0855.7	0855.9	III	B	2	45	95	
			IZMI	0858.0U	1028.0	III	S	2	45X	160	
			IZMI	0907.9	0908.2	III	G,FS	2	45	270X	
	0759	1427	ONDR	0912.4	0940.4	DCIM	GG	1	800X	2000X	
			IZMI	0913.0	0913.8	III	G	2	55	230	
			SVTO	0914.0	1112.0	CONT		2	35	85	
			LEAR	0920.0	1023.0	CONT		2	30	80	

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

JANUARY 2000

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
31			IZMI	0924.5	0924.5	III	G	1	130	240	
			POTS	0926	1036	I	S,C,DC	3	40X	90U	
			POTS	0930.3	0930.7	UNCLF		2	40X	70	
			IZMI	0930.4	0934.4	III	GG	2	45X	150	
			SVTO	0931.0	0934.0	III		2	35	85	
	0825	1530	BLEN	0932.3	0939.0	DCIM	C	2	1000X	2800X	
			IZMI	1028.0U	1200.0D	III	N	1	45X	120	
			IZMI	1028.6	1028.7	III	G	2	210	260	
			POTS	1150.9	1151.1	III	B	2	40X	70	
	2134	2400	HIRA								
	2030	2400	CULG	2228.0	2232.0	III	G	1	80	180	

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