SOLAR RADIO EMISSION
Spectral Observations

JANUARY 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
01	0000	0734	HIRA								
	0000	0810	CULG								
	0651	1200	IZMI	0721.4	0722.0	III	G	1	240	270X	
	0735	1445	POTS	0824 E	1405 U	I	C	1	120	360	
			IZMI	0903.8	0906.0	I	N	1	230	265	
			IZMI	0908.2	0909.2	III	G	1	230	270X	
	0839	1332	ONDR	0951.4	0952.2	DCIM	G	1	800X	1812	
			POTS	0951.9	0952.3	DCIM		1	320	400	
			IZMI	1120.2	1121.8D	III	GG	2	95	270X	
			POTS	1120.3	1121.8	III	G	1	110U	320	
			POTS	1209.7	1210.0	DCIM		1	320	460	
			HOLL	1917.0	1918.0	III		1	25U	180U	
	1920	2400	CULG								
			HOLL	1958.0	2002.0	III		1	25U	180U	
			HOLL	1958.0	2312.0	III	N	1	25	180	
	2148	2400	HIRA								
02			PALE	0221.0	0226.0	II		1	72	127	ESS 0640
			LEAR	0323.0	0323.0	III		1	84	180	
	0000	0735	HIRA	0323.0	0323.5	III	B	1	100	250	
	0000	0810	CULG	0323.0	0330.0	III	G	1	80	180	
			LEAR	0609.0	0609.0	III		1	25	91	
			LEAR	0751.0	0754.0	III		2	25	116	
			SVTO	0751.0	0754.0	III		1	56	123	
	0657	1200	IZMI	0751.7	0752.0	III	B	2	40	140	
	0735	1445	POTS	0751.7	0752.0	UNCLF		1	40X	70U	
			IZMI	0754.6	0754.9	III	B	1	60	115	
			POTS	0825 E	1405 U	I	C,N	1	120	300	
			SVTO	0838.0	0839.0	III		1	49U	83U	
			IZMI	0838.9	0839.2	III	B,FS	2	50	95	
			LEAR	0839.0	0839.0	III		1	25	119	
			LEAR	0909.0	0910.0	III		1	25	109	
			SVTO	0909.0	0910.0	III		1	46	139	
			IZMI	0909.7	0910.1	III	G,HARM	2	45	130	
			LEAR	0917.0	0918.0	III		1	89	180	
			SVTO	0917.0	0918.0	III		1	112U	147U	
			POTS	0917.8	0918.1	III	B	2	110U	300	
			IZMI	0917.9	0918.0	III	G	3	110	230	
			LEAR	1002.0	1003.0	III		1	70	180	
			SVTO	1002.0	1003.0	III		1	114	171	
			IZMI	1002.9	1003.3	III	G	1	110	160	
			POTS	1002.9	1003.5	III	G	1	110U	250	
	0838	1334	ONDR	1112.5	1116.1	DCIM	G	1	2166	4471	
			SVTO	1129.0	1133.0	III		2	42	180	
			IZMI	1129.8	1130.3	V		2	100	160	
			IZMI	1129.8	1131.2	III	GG,C	2	45	270X	
			POTS	1129.8	1131.2	III	GG	2	40X	220	
			IZMI	1133.3	1133.4	III	B	1	105	160	
			ONDR	1228.5	1236.0	DCIM	G	1	2000X	4500X	
			ONDR	1247.4	1254.3	DCIM	G	1	2000X	4500X	
			ONDR	1250.3	1251.0	DCIM	GG,SP	2	800X	1283	
			SGMR	1818.0	1818.0	III		2	35	68	
			HOLL	1847.0	1848.0	III		1	25	163	
			PALE	1848.0	1848.0	III		1	25	162	
			HOLL	1940.0	1941.0	III		1	25	142	
	1920	2400	CULG	1941.0	1941.0	III	B	1	57X	90	
			CULG	2026.0	2026.0	III	B	1	57X	180U	
			CULG	2123.0	2137.0	III	N	1	57X	120	
			CULG	2300.0	2300.0	III	B	1	57X	130	
			CULG	2332.0	2332.0	III	B	1	57X	90	
			CULG	2343.0	2343.0	III	B	1	57X	180	
	2148	2400	HIRA	2343.0	2343.5	III	B	1	100	270	
			CULG	2354.0	2354.0	III	B	1	57X	90	
03	0000	0810	CULG	0004.0	0307.0	III	N	1	57X	180	
			LEAR	0211.0	0218.0	III		1	25	117	
			CULG	0219.0	0225.0	II	FN	2	57X	75	
			CULG	0219.0	0230.0	II	SH	2	57X	150	ESS 520
			LEAR	0221.0	0229.0	II		1	31	137	ESS 0410

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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
03	0000	0735	HIRA	0221.0	0228.0	II		2	60	120	
			CULG	0341.0	0519.0	I	S	1	100	150	
			CULG	0508.0	0508.0	III	B	1	57X	180	
			HIRA	0508.0	0508.5	III	B	1	110	220	
	0656	1200	IZMI	0656.0E	1005.0U	I	N	1	120	190	
	0735	1450	POTS	0825 E	1407 U	I	C	1	120	350	
	0838	1335	ONDR								
			IZMI	1004.9	1005.1	III	B	1	120	185	
			POTS	1004.9	1005.1	III	B	1	150	250	
			POTS	1339.3	1340.3	III	G	1	110U	220	
			HOLL	1445.0	1445.0	III		1	54	180	
			SVTO	1445.0	1445.0	III		1	61U	180U	
			POTS	1445.2	1445.4	III	B	1	110U	160	
			HOLL	1857.0	1858.0	III		1	25	140	
	1920	2400	CULG	2051.0	2051.0	III	B	1	57X	180	
			CULG	2111.0	2112.0	III	G	2	57X	180	
			HOLL	2111.0	2111.0	III		1	75	180	
			CULG	2124.0	2124.0	III	B	1	57X	150	
			CULG	2135.0	2136.0	III	G	3	57X	180	
			HOLL	2135.0	2136.0	III		2	25	180	
			PALE	2135.0	2135.0	III		2	25	180	
			CULG	2136.0	2146.0	III	G	1	57X	180	
			CULG	2311.0	2313.0	III	G	1	75	180	
	2148	2400	HIRA	2313.0	2313.5	III	B	1	100	200	
			CULG	2336.0	2353.0	III	N	1	57X	180	
			HIRA	2341.5	2343.0	III	G	3	30	270	
			CULG	2342.0	2342.0	III	G	2	57X	200U	
			HOLL	2342.0	2342.0	III		1	25	180	
			HIRA	2347.0	2347.5	III	B	1	80	280	
04	0000	0736	HIRA	0146.0	0204.0	III	G	1	90	300	
	0000	0810	CULG	0146.0	0200.0	III	N	1	70	180	
			CULG	0327.0	0328.0	III	G	1	130	180U	
			HIRA	0327.0	0327.5	III	B	2	130	300	
			CULG	0508.0	0508.0	III	G	3	57X	180U	
			LEAR	0508.0	0508.0	III		1	25	180	
			HIRA	0508.5	0509.0	III	B	3	40	500	
			CULG	0600.0	0600.0	III	B	1	100	180	
	0702	1200	IZMI	0702.0E	1200.0D	I	N	1	110	270X	
	0735	1450	POTS	0812 E	1407 U	I	C,N	1	120	350	
			IZMI	0814.3	0815.3	III	G	1	125	270X	
			IZMI	0820.1	0820.6	III	G	1	125	270	
			IZMI	0827.8	0827.9	III	G	1	180	270X	
	0837	1337	ONDR								
			IZMI	0921.7	0922.5	CONT		1	230	270X	
			IZMI	0927.0	0940.0U	I	S	2	110	270X	
			LEAR	0934.0	0943.0	II		1	25	115	ESS 0537
			IZMI	0934.1	0942.6U	II	HARM	2	35	215	
			SVTO	0935.0	0940.0	II		1	46U	70U	ESS 0427
			POTS	0936.3	0941.2	II		1	40X	140	
	1920	2400	CULG								
			HOLL	2140.0	2311.0	CONT		1	54	78	
	2148	2400	HIRA								
			LEAR	2340.0	2343.0	III		1	25	180	
05			LEAR	0304.0	0305.0	III		1	25	180	
	0000	0737	HIRA	0304.0	0306.0	III	G	1	100	300	
			LEAR	0409.0	0417.0	III		1	25	158	
			HIRA	0410.0	0411.0	III	B	1	50	140	
	0000	0810	CULG	0410.0	0412.0	III	G	1	57X	170	
			CULG	0415.0	0417.0	III	G	1	57X	180	
			HIRA	0415.0	0416.5	III	G	1	40	280	
			CULG	0555.0	0555.0	III	B	2	57X	180	
			HIRA	0555.0	0555.5	III	B	1	50	170	
			LEAR	0555.0	0555.0	III		1	25	138	
	0655	1200	IZMI								
	0735	1450	POTS	0810 E	1407 U	I	C,N	1	120	360	
	0837	1338	ONDR								
			POTS	1321.3	1321.5	DCIM		1	220	380	

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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
05	1920	2400	CULG								
	2148	2400	HIRA								
06	0000	0738	HIRA	0042.5	0043.0	III	B	1	210	410	
			HIRA	0135.0	0135.5	III	B	3	60	310	
			LEAR	0135.0	0135.0	III		1	61	180	
	0000	0810	CULG	0135.0	0135.0	III	B	2	60	200U	
			LEAR	0148.0	0201.0	III	N	1	28	68	
			CULG	0155.0	0156.0	III	G	1	57X	150	
			HIRA	0201.0	0201.5	III	B	1	30	120	
			LEAR	0704.0	0710.0	III		3	25	180	
			CULG	0705.0	0708.0	III	G	1	57X	130	
			SVTO	0706.0	0710.0	III		2	29U	151U	
			HIRA	0706.5	0710.0	III	G	3	50	180	
	0704	1200	IZMI	0706.5	0707.5	III	G	2	45	150	
			IZMI	0709.3	0710.4	III	GG,C	2	35	180	
			CULG	0710.0	0710.0	III	G	2	57X	180	
			IZMI	0712.1	0712.1	III	B	1	105	150	
	0735	1450	POTS	0822 U	1408 U	I	C,N	1	110U	300	
			IZMI	0915.7	0916.1	III	G	1	160X	220	
	0836	1340	ONDR	1137.4	1142.2	DCIM	G	1	2127	4500X	
			POTS	1151.3	1152.3	III/V	G	1	40X	140	
			IZMI	1151.4	1152.3	III	G	2	40	145	
			ONDR	1308.5	1310.4	DCIM	G	1	2000X	4451	
			POTS	1344.5	1344.7	III	B	1	110U	150	
	1920	2400	CULG								
	2148	2400	HIRA								
07	0000	0024	HIRA								
	0000	0810	CULG								
	0554	0739	HIRA								
	0735	1450	POTS	0821 U	1040	I	C,N	1	110U	280	
	0835	1342	ONDR								
	0700	1200	IZMI	1025.4	1025.5	III	B	1	220	270X	
			IZMI	1026.5	1026.7	III	G,C	1	180	270	
			POTS	1200	1359 U	I	C	1	200U	280	
	1200	1440	BLEN								
	1920	2400	CULG	2113.0	2114.0	III	G	1	57X	140	
08	0000	0810	CULG								
	0655	1200	IZMI								
	0834	1343	ONDR								
	0850	1440	BLEN								
	0730	1455	POTS	0854 U	1408 U	I	C	1	200U	280	
			HOLL	1806.0	1813.0	III		1	25	84	
			SGMR	1810.0	1814.0	III		1	30	50	
	1920	2400	CULG								
09			LEAR	0712.0	0713.0	III		1	25	90	
	0655	1201	IZMI	0712.7	0713.7	III	G	2	40	160	
			SVTO	0713.0	0713.0	III		1	25	82	
	0000	0820	CULG	0713.0	0714.0	III	G	1	57X	90	
	0730	1455	POTS	0821 E	1408 U	I	C,N	1	200U	300	
	0834	1345	ONDR								
	0850	1440	BLEN								
			IZMI	1033.9	1034.0	III	B	1	45	70	
			HOLL	1805.0	1806.0	III		1	25	90	
	1920	2400	CULG	1941.0	1942.0	III	G	1	57X	90	
			CULG	2227.0	2227.0	III	G	1	57X	90	
			CULG	2303.0	2303.0	III	B	2	57X	160	
			LEAR	2303.0	2303.0	III		1	25	116	
10	0000	0810	CULG	0001.0	0001.0	III	B	1	57X	90	
			CULG	0007.0	0007.0	III	B	1	57X	140	
			LEAR	0007.0	0007.0	III		1	25	89	
	0240	0742	HIRA								
			CULG	0424.0	0424.0	III	B	1	57X	80	
			LEAR	0424.0	0424.0	III		1	36	63	
			CULG	0457.0	0459.0	UNCLF		1	57X	70	

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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
10	0730	1500	POTS	0821 E	1412 U	I	C,N	1	200U	300	
	0833	1347	ONDR								
	0850	1440	BLEN								
			LEAR	0915.0	0916.0	III		1	25	111	
			SVTO	0915.0	0916.0	III		1	25U	83U	
			POTS	0915.4	0915.7	III	B	1	40X	150	
	0700	1200	IZMI	0915.4	0917.1	III	GG	2	25X	160	
			LEAR	1002.0	1004.0	III		1	58	180	
	1910	2400	CULG								
	2148	2400	HIRA								
11			LEAR	0138.0	0139.0	III		1	25	180	
	0000	0743	HIRA	0139.0	0140.0	III	B	1	100	270	
	0000	0810	CULG	0139.0	0140.0	III	G	1	57X	130	
			CULG	0155.0	0155.0	III	B	2	57X	90	
			LEAR	0155.0	0155.0	III		1	25	89	
			HIRA	0155.5	0156.0	III	B	1	50	70	
			CULG	0417.0	0417.0	III	B	1	57X	90	
	0700	1200	IZMI								
	0730	1500	POTS	0820 U	1413 U	I	C,N	1	200U	350	
	0832	1349	ONDR								
	0850	1440	BLEN	1223.0	1224.8	DCIM	C	2	1600	4000X	
			BLEN	1321.0	1323.6	DCIM	C	2	800	4000X	
	2148	2400	HIRA	2312.5	2313.0	III	B	1	200	450	
			HIRA	2314.0	2315.0	III	G	1	40	420	
	1920	2400	CULG	2314.0	2315.0	III	G	1	57X	420	
12	0000	0810	CULG	0008.0	0008.0	III	B	1	57X	90	
			LEAR	0155.0	0156.0	III		1	25	86	
	0000	0744	HIRA	0155.5	0156.0	III	B	1	40	560	
			CULG	0156.0	0156.0	III	B	1	57X	550	
	0700	1200	IZMI	0826.7	0827.0	III	G	2	190	270X	
	0730	1500	POTS	0826.7	0827.1	DCIM		1	200U	330	
			POTS	0849	1020 U	I	C	1	200U	300	
	0830	1351	ONDR	0855.0	0858.3	DCIM	G	1	2000X	4500X	
	0850	1440	BLEN	0855.2	0857.8	DCIM	C	2	1400	4000X	
			LEAR	0926.0	0926.0	III		2	25	102	
			SVTO	0926.0	0926.0	III		1	32U	83U	
			IZMI	0926.2	0926.7	III	G,HARM	2	30	160	
			POTS	0926.2	0926.6	III	B	2	40X	150	
			IZMI	0937.2	0937.6	III	B	1	40	75	
			IZMI	1033.3	1033.5	III	B	1	50	160	
			POTS	1033.3	1033.5	III	B	1	40X	150	
			POTS	1052.4	1052.8	DCIM		1	210	400	
			IZMI	1052.5	1052.7	III	G	2	230	270X	
			BLEN	1135.1	1135.5	III	U	1	180	310	
			IZMI	1135.1	1135.4	III	G	2	120	270X	
			POTS	1135.1	1135.4	III	U	1	110U	300	
			POTS	1146.9	1147.3	III	U	1	110U	290	
			BLEN	1147.0	1147.3	III	U	1	200	600	
			IZMI	1147.0	1147.2	III	G	2	180	270X	
			POTS	1155 U	1414 U	I	C	1	200U	280	
			BLEN	1305.1	1306.0	III	GG,RS	2	680	880	
			BLEN	1319.3	1326.7	III	GG,RS,S	2	300	1000	
			POTS	1319.3	1319.5	DCIM		1	260	360	
			POTS	1357.9	1358.4	III	G	1	110U	360	
			HOLL	1457.0	1457.0	III		1	25	180	
			SGMR	1457.0	1457.0	III		1	55	80	
			SVTO	1457.0	1458.0	III		1	58	180	
			BLEN	1457.1	1458.7	III	G	1	100X	530	
			POTS	1457.2	1457.4	III	B	1	40X	160	
	1920	2400	CULG								
	2148	2400	HIRA								
13	0000	0745	HIRA	0110.5	0111.0	III	B	1	100	300	
	0000	0810	CULG	0111.0	0111.0	III	B	1	100	300	
			CULG	0307.0	0308.0	III	G	2	60	300	
			HIRA	0307.0	0308.0	III	B	3	80	320	
			LEAR	0307.0	0307.0	III		1	77	180	

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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
13			PALE	0307.0	0307.0	III		1	73	180	
	0700	1200	IZMI	0729.3	0729.7	III	G	1	185	260	
			IZMI	0745.1	0745.2	III	G	1	130	190	
			CULG	0751.0	0752.0	III	G	1	120	180	
			IZMI	0751.3	0752.0	III	G	2	120	270X	
	0730	1500	POTS	0817 U	1415 U	I	C,N	1	120	300	
			POTS	0912.3	0919.5	II		2	110U	350	
	0840	1500	BLEN	0912.4	0915.5	II	H	1	130	380	
			IZMI	0912.5	0914.2	II	HARM	2	120	270X	
			IZMI	0917.3	0919.5	II	HARM	1	120	160	
			POTS	0925.2	0925.3	DCIM		1	250	450	
			ONDR	0951.2	0951.5	DCIM	GG	2	1130	2000X	
	0829	1352	ONDR	0951.2	0951.5	DCIM	GG	2	2000X	2928	
			BLEN	0951.3	0952.1	DCIM	P	3	1200	3100	
			IZMI	1037.5	1039.4	III	G	1	230	270	
			POTS	1101.3	1101.4	DCIM		1	250	320	
			POTS	1309.4	1309.6	III	B	1	40X	150	
			BLEN	1336.4	1337.9	III	GG,RS,U	3	130	1050	
			ONDR	1337.0	1338.3	DCIM	G	1	2000X	4500X	
			ONDR	1337.0	1339.1	DCIM	G	1	800X	2000X	
			POTS	1337.0	1338.1	DCIM		2	150	800X	
			POTS	1339.2	1340.6	II		1	130	400	
			BLEN	1339.3	1340.9	II	H	3	160	420	
			POTS	1357.4	1357.5	UNCLF		1	220	300	
			BLEN	1438.6	1440.0	III	GG,U	2	300	700	
	1920	2400	CULG	2138.0	2138.0	III	B	1	57X	180	
			CULG	2155.0	2155.0	III	B	1	57X	180	
	2148	2400	HIRA	2155.5	2156.0	III	B	1	90	370	
14	0000	0746	HIRA								
	0000	0810	CULG	0521.0	0521.0	III	B	1	240	740	
			CULG	0524.0	0618.0	III	N	1	57X	260	
			LEAR	0536.0	0643.0	III	N	1	30	170	
			CULG	0608.0	0611.0	II	SH	1	85	180	ESS 1000
	0700	1200	IZMI								
	0828	1354	ONDR								
	0730	1505	POTS	0845 U	1417 U	I	C,N	1	120	300	
			POTS	1210.9	1212.3	III	G	1	40X	230	
			POTS	1337.2	1338.4	III	G	1	40X	220	
	0840	1500	BLEN	1422.0	1422.8	III	GG	3	340	920	
			HIRA	2242.0	2243.0	II		1	100	130	
	1920	2400	CULG	2242.0	2242.0	III	B	1	100	260	
	2147	2400	HIRA	2242.0	2243.0	II		1	160	210	
			LEAR	2339.0	2340.0	III		1	36	93	
			CULG	2340.0	2341.0	III	G	1	57X	100	
			HIRA	2340.0	2340.5	III	B	1	50	110	
15			LEAR	0511.0	0514.0	III		1	25	180	
	0000	0747	HIRA	0511.5	0514.0	III	G	1	40	250	
	0000	0810	CULG	0512.0	0514.0	III	G	2	57X	180	
	0701	1200	IZMI								
	0725	1505	POTS	0811 E	1420 U	I	C,N	1	120	300	
	0827	1356	ONDR								
	0845	1510	BLEN	1408.2	1409.5	III	GG,S	2	340	780	
			POTS	1408.5	1409.0	DCIM		1	320	400	
	1920	2400	CULG	2122.0	2123.0	III	G	1	100	150	
			CULG	2209.0	2210.0	III	G	1	57X	230	
	2147	2400	HIRA	2209.0	2210.5	III	G	1	80	240	
16	0000	0810	CULG	0242.0	0242.0	III	B	1	120	750	
	0000	0435	HIRA	0243.0	0243.5	III	B	2	110	600	
			HIRA	0250.5	0251.0	III	B	1	100	550	
			CULG	0251.0	0251.0	III	B	1	100	450	
			CULG	0518.0	0519.0	III	G	1	120	420	
			LEAR	0543.0	0544.0	III		1	25	66	
			CULG	0544.0	0544.0	III	B	1	57X	100	
			CULG	0550.0	0550.0	III	B	1	120	380	
			CULG	0605.0	0606.0	III	G	1	57X	180	
	0700	1200	IZMI								

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16			CULG	0719.0	0736.0	III	G	1	57X	180	
	0725	1505	POTS	0812 U	1420 U	I	C,N	1	120	300	
	0826	1358	ONDR	1008.5	1011.4	DCIM	GG	2	1030	2000X	
	0845	1510	BLEN	1009.0	1011.9	DCIM	S	1	1050	2180	
			POTS	1045.4	1045.5	III	B	1	110U	220	
			ONDR	1253.4	1254.1	DCIM	GG,SP	2	1119	1447	
			ONDR	1319.4	1320.1	DCIM	G	1	2000X	4500X	
			ONDR	1319.4	1320.4	DCIM	G	1	800X	2000X	
			BLEN	1319.7	1320.4	III	GG,RS,C	3	200	4000X	
			POTS	1319.8	1320.2	DCIM		1	200U	400	
			POTS	1337.4	1337.6	III	G	1	110U	300	
			POTS	1433.7	1433.9	UNCLF		1	40X	70	
	1930	2400	CULG								
	2146	2400	HIRA								
17	0000	0748	HIRA	0159.5	0200.0	III	B	1	80	280	
	0000	0810	CULG	0200.0	0200.0	III	B	1	57X	180	
			CULG	0323.0	0323.0	III	B	1	57X	90	
			LEAR	0543.0	0544.0	III		1	30	68	
			CULG	0755.0	0756.0	III	G	1	65	90	
	0824	1400	ONDR								
	0725	1510	POTS	0840	1421 U	I	C,N	1	120	280	
	0845	1510	BLEN								
			POTS	0915.9	0916.2	III	B	1	110U	220	
	0652	1200	IZMI	0916.0	0916.1	III	B	1	110	220	
			LEAR	0935.0	0938.0	III		1	68	180	
			POTS	0935.6	0935.9	III	G	1	110U	150	
			IZMI	0937.7	0938.1	III	G	2	85	180	
			POTS	0937.7	0938.3	III	G	1	110U	220	
	1930	2400	CULG								
	2146	2400	HIRA								
18	0000	0810	CULG	0401.0	0444.0	III	N	1	57X	120	
			LEAR	0406.0	0408.0	III		1	25	104	
	0000	0749	HIRA	0406.5	0407.0	III	B	1	30	110	
			CULG	0602.0	0620.0	III	N	1	57X	80	
	0658	1200	IZMI								
			CULG	0701.0	0701.0	III	B	1	57X	70	
			CULG	0723.0	0724.0	III	G	1	57X	90	
	0725	1510	POTS	0809 U	1422 U	I	C,N	1	120	300	
	0823	1402	ONDR								
	0845	1510	BLEN								
	1930	2400	CULG								
			HOLL	1953.0	1953.0	III		1	54	151	
	2145	2400	HIRA								
19	0000	0750	HIRA	0023.0	0023.5	III	B	1	120	340	
	0000	0810	CULG	0023.0	0023.0	III	B	1	120	460	
			HIRA	0559.0	0559.5	III	B	1	120	230	
			LEAR	0559.0	0559.0	III		1	114	155	
	0700	1200	IZMI	0737.9	0738.9	III	GG	2	10	225	
			CULG	0738.0	0739.0	III	G	1	57X	180	
			HIRA	0738.0	0738.5	III	B	1	40	130	
			LEAR	0738.0	0742.0	III		1	35	133	
			IZMI	0738.5	0739.1	V		2	45	90	
			IZMI	0742.0	0743.8	III	GG	2	10	160	
	0725	1510	POTS	0809 U	1424 U	I	C,N	1	120	320	
	0821	1405	ONDR	1003.2	1007.1	DCIM	G	2	2000X	4500X	
			ONDR	1003.3	1008.0	DCIM	G	1	800X	2000X	
	0840	1520	BLEN	1003.4	1007.2	III	GG,S,C	1	400	4000X	
			IZMI	1126.4	1126.4	III	B	2	150	210	
			POTS	1408.3	1408.6	UNCLF		1	200U	300	
			BLEN	1522.3	1523.3	III	GG	3	170	440	
			SGMR	1818.0	1821.0	III		1	30	54	
			HOLL	1848.0	1849.0	III		1	25	140	
			PALE	1848.0	1850.0	III		1	28	58	
	2145	2400	HIRA								
	1930	2400	CULG	2320.0	2323.0	III	G	1	57X	130	
			CULG	2332.0	2333.0	III	G	1	57X	80	

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20			LEAR	0004.0	0020.0	III	N	1	28	97	
	0000	0810	CULG	0004.0	0004.0	III	B	1	57X	90	
			CULG	0018.0	0020.0	III	G	1	57X	100	
			LEAR	0055.0	0116.0	III	N	1	32	87	
			CULG	0116.0	0116.0	III	B	1	57X	90	
			CULG	0245.0	0300.0	III	GG	1	57X	180	
			LEAR	0245.0	0300.0	III	N	1	25	180	
	0000	0751	HIRA	0245.5	0246.5	III	G	1	30	200	
			CULG	0432.0	0433.0	III	G	1	57X	90	
			HIRA	0432.0	0432.5	III	B	1	25X	100	
			LEAR	0432.0	0433.0	III		1	25	96	
			LEAR	0610.0	0611.0	III		1	25	66	
	0700	1200	IZMI								
			CULG	0804.0	0806.0	III	G	1	57X	140	
	0725	1510	POTS	0805.0	0805.6	UNCLF		1	40X	140	
	0820	1407	ONDR								
	0840	1520	BLEN								
			POTS	0858	1020 U	I	C	1	150	280	
			POTS	1120 U	1425 U	I	C,N	1	120	300	
	1930	2400	CULG	2021.0	2021.0	III	B	1	57X	80	
	2144	2400	HIRA								
21	0000	0752	HIRA								
	0000	0810	CULG	0044.0	0044.0	III	B	1	60	90	
			CULG	0208.0	0208.0	III	B	1	57X	90	
			LEAR	0654.0	0655.0	III		1	41	180	
			CULG	0755.0	0755.0	III	B	1	57X	180	
			LEAR	0755.0	0755.0	III		1	25	180	
	0655	1200	IZMI	0755.3	0755.6	III	G	1	50	270X	
	0819	1409	ONDR								
	0840	1520	BLEN								
			IZMI	0840.3	0841.3	III	G	1	45	90	
	0725	1515	POTS	0856	1400 U	I	C	1	200U	280	
			POTS	1006.6	1006.8	DCIM		1	270	340	
			LEAR	1021.0	1022.0	III		1	49	180	
			POTS	1253.2	1254.2	III/V	G	1	40X	140	
	1930	2030	CULG								
	2144	2400	HIRA	2147.5	2148.0	III	B	1	210	600	
	2130	2400	CULG	2148.0	2148.0	III	B	1	150	750	
			CULG	2153.0	2155.0	III	G	1	57X	160	
22			LEAR	0526.0	0527.0	III		1	41	163	
	0000	0753	HIRA	0526.5	0527.5	III	B	1	60	120	
	0000	0800	CULG	0527.0	0528.0	III	G	1	57X	130	
			CULG	0747.0	0756.0	III	GG	1	57X	130	
			LEAR	0748.0	0824.0	III	N	1	29	131	
	0700	1200	IZMI	0748.9	0751.3	III	GG	1	45	140	
	0725	1515	POTS	0750.3	0751.4	UNCLF		1	40X	70	
			IZMI	0755.2	0756.2	III	G	1	55	75	
			IZMI	0757.5	0759.7	II		2	55	70	
			CULG	0758.0	0800.0	II	SH	3	57X	65	
			LEAR	0758.0	0759.0	II		2	50	62	ESS 1017
			SVTO	0758.0	0759.0	II		1	54	56	ESS 0648
			POTS	0758.4	0759.7	II		1	40X	70	
			POTS	0803	1429 U	I	C,N	1	200	280	
			IZMI	0805.9	0807.3	III	G	1	45	75	
			POTS	0806.2	0806.3	UNCLF		1	40X	70	
			IZMI	0814.0	0816.5	III	GG	1	60	75	
	0835	1520	BLEN	0856.8	0857.9	III	G	1	480	1120	
			POTS	1226.7	1226.9	DCIM	U	1	250	350	
			BLEN	1310.2	1313.4	DCIM	C	1	1400	4000X	
	0817	1411	ONDR	1310.3	1311.3	DCIM	G,W	1	2000X	4500X	
			BLEN	1421.3	1422.3	III	G	1	540	880	
	1930	2400	CULG								
	2144	2400	HIRA								
23			LEAR	0329.0	0330.0	III		1	25	180	
	0000	0754	HIRA	0329.0	0330.0	III	B	1	30	130	
	0000	0800	CULG	0329.0	0330.0	III	G	1	57X	120	

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23			LEAR	0339.0	0347.0	II		1	46	157	ESS 0384
			CULG	0340.0	0346.0	II	SH	1	100	150	ESS 500
			HIRA	0340.0	0346.5	II		1	80	150	
			LEAR	0509.0	0510.0	III		1	39	180	
			HIRA	0509.5	0510.5	III	G	2	80	170	
			CULG	0510.0	0511.0	III	G	2	57X	170	
			CULG	0637.0	0637.0	III	B	1	57X	230	
			HIRA	0637.0	0637.5	III	B	1	40	270	
			LEAR	0637.0	0637.0	III		1	25	180	
			HIRA	0703.0	0703.5	III	B	2	80	120	
			LEAR	0703.0	0703.0	III		1	44	132	
			SVTO	0703.0	0703.0	III		1	111U	139U	
	0700	1200	IZMI	0703.4	0703.7	III	G,U	2	55	150	
			CULG	0704.0	0704.0	III	B	1	57X	180	
	0720	1515	POTS	0857 U	0952 U	I	C	1	120	280	
			LEAR	0904.0	0907.0	V		2	25	180	
			SVTO	0904.0	0906.0	III		2	54	168	
			POTS	0904.2	0906.5	III/V	GG	2	40X	330	
			IZMI	0904.3	0906.2	III	GG,C	2	50	270X	
	0755	1520	BLEN	0904.6	0907.0	III	GG,C	1	100X	4000X	
			IZMI	0905.0	0907.5	V	G	2	40	70	
			IZMI	0908.5	0908.6	III	G	1	120	160	
			POTS	1200 U	1433 U	I	C	1	120	260	
			SVTO	1330.0	1330.0	III		1	75	160	
	0815	1413	ONDR	1334.2	1335.4	DCIM	G	1	2000X	4500X	
			ONDR	1334.3	1355.3	DCIM	GG	2	964	2000X	
			BLEN	1334.5	1336.0	III	GG,RS,C	1	270	4000X	
			POTS	1340.3	1346.0	II		2	40X	160	
			SVTO	1341.0	1345.0	II		2	111U	167U	ESS 0562
	1940	2400	CULG	2026.0	2026.0	III	B	1	57X	180	
			CULG	2158.0	2158.0	III	B	1	80	160	
			CULG	2226.0	2228.0	III	G	1	60	400	
			LEAR	2226.0	2227.0	III		1	25	180	
	2143	2400	HIRA	2227.0	2228.0	III	B	1	100	420	
24			LEAR	0149.0	0149.0	III		1	46	153	
	0000	0755	HIRA	0149.5	0150.0	III	B	1	80	180	
	0000	0800	CULG	0150.0	0150.0	III	B	1	57X	150	
			CULG	0358.0	0404.0	UNCLF		1	57X	70	
			LEAR	0401.0	0404.0	II		1	40	62	ESS 0824
			LEAR	0506.0	0508.0	III		1	25	180	
			CULG	0507.0	0509.0	III	G	1	57X	180	
			HIRA	0507.0	0508.5	III	G	1	40	210	
			HIRA	0614.0	0614.5	III	B	1	280	380	
			CULG	0721.0	0721.0	III	B	1	57X	90	
			LEAR	0721.0	0721.0	III		1	25	67	
	0650	1200	IZMI	0721.4	0721.7	III	B	1	45	70	
	0813	1415	ONDR								
	0720	1520	POTS	0900 U	1028 U	I	C	1	120	300	
			IZMI	0930.7	0930.8	III	B,U	2	130	250	
			POTS	0930.7	0930.8	UNCLF	RS	1	150	220	
	0755	1520	BLEN	1504.3	1510.3	III	GG	2	380	4000X	
			HOLL	1514.0	1515.0	III		1	25	180	
			SVTO	1514.0	1515.0	III		1	32U	174U	
			POTS	1514.8	1515.1	III	B	1	40X	160	
			HOLL	1659.0	2128.0	III	N	1	25	116	
	1940	2400	CULG								
	2143	2400	HIRA								
25			LEAR	0225.0	0245.0	II		2	29	172	ESS 0541
	0000	0756	HIRA	0225.5	0246.0	II		2	50	170	
			CULG	0226.0	0233.0	II	FN	3	57X	85	
	0000	0800	CULG	0226.0	0246.0	II	SH	3	57X	170	ESS 350
			HIRA	0227.0	0241.0	II		2	30	80	
			CULG	0229.0	0231.0	III	G	1	60	150	
			CULG	0617.0	0619.0	III	G	1	57X	180	
			HIRA	0617.0	0618.5	III	G	1	50	200	
			LEAR	0617.0	0618.0	III		1	39	165	
	0755	1530	BLEN								

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25	0700	1200	IZMI	0756.1	0756.7	III	G	1	130	270	
	0720	1520	POTS	0756.3	0756.6	UNCLF		1	200U	230	
	0812	1417	ONDR								
			POTS	0900	1010 U	I	C	1	200U	300	
			LEAR	1009.0	1009.0	III		1	75	180	
			SVTO	1009.0	1009.0	III		1	116	167	
			POTS	1009.2	1009.6	III	G	1	110U	220	
			IZMI	1009.3	1009.6	III	G	2	90	215	
			POTS	1125.5	1126.2	UNCLF		1	130	220	
			IZMI	1126.1	1126.2	III	B	2	180	260	
			IZMI	1130.8	1130.9	III	B	1	120	190	
			POTS	1130.8	1130.9	III	B	1	110U	170U	
			POTS	1139.5	1415 U	I	C,N	1	110U	250	
			IZMI	1141.5	1141.5	III	B	1	135	165	
			IZMI	1145.2	1145.2	III	B	1	130	160	
	1940	2400	CULG	2151.0	2155.0	III	GG	1	57X	180	
	2143	2400	HIRA	2151.5	2154.5	III	G	1	40	150	
26			LEAR	0019.0	0022.0	III		1	35	180	
	0000	0757	HIRA	0020.0	0022.0	III	G	2	50	230	
	0000	0800	CULG	0020.0	0022.0	III	G	1	57X	260	
			CULG	0028.0	0028.0	III	B	1	65	90	
	0755	1530	BLEN								
	0715	1520	POTS	0801.9	0802.7	III	G	1	110U	350	
			LEAR	0802.0	0802.0	III		1	54	180	
			SVTO	0802.0	0802.0	III		1	127U	180U	
	0655	1200	IZMI	0802.0	0802.7	III	GG	2	60	270X	
	0810	1420	ONDR								
			POTS	0829.4	0830.3	III	G	1	40X	220	
			LEAR	0830.0	0831.0	III		1	42	180	
			IZMI	0830.8	0831.2	III	G	2	60	215	
			SVTO	0858.0	0859.0	III		1	25	180	
			IZMI	0858.9	0900.3	III	GG,C	2	40	240	
			POTS	0858.9	0900.1	III/V	G	1	40X	400	
			LEAR	0859.0	0900.0	III		1	25	180	
			POTS	0907	1010 U	I	C	1	200U	250	
			IZMI	1123.1	1123.2	III	B	1	130	165	
			POTS	1123.1	1123.3	III	B	1	110U	220	
			SVTO	1308.0	1309.0	III		1	129U	180U	
			POTS	1308.7	1308.9	III	G	1	110U	220	
			POTS	1435.0	1436.5	UNCLF		1	200U	370	
			HOLL	1824.0	1825.0	III		1	25	117	
			SGMR	1824.0	1824.0	III		2	30	63	
			HOLL	1916.0	1917.0	III		1	25	147	
			HOLL	2118.0	2120.0	III		1	25	180	
			PALE	2119.0	2119.0	III		1	25	72	
	1940	2400	CULG	2119.0	2120.0	III	G	1	57X	180	
	2142	2400	HIRA								
			CULG	2147.0	2147.0	III	B	1	57X	70	
			CULG	2233.0	2233.0	III	B	1	57X	90	
27	0000	0758	HIRA								
	0000	0800	CULG								
	0658	1200	IZMI	0727.4	0727.7	III	G	1	180	250	
			IZMI	0735.8	0735.8	III	B	2	120	160	
	0715	1525	POTS	0742	1447 U	I	N	1	200U	400	
			IZMI	0742.7	0743.9	I	GG	2	230	270X	
			IZMI	0748.0U	0954.0U	I	N	1	230	270X	
	0808	1422	ONDR								
			LEAR	0828.0	0828.0	III		1	48	180	
			IZMI	0828.4	0828.9	III	G	1	125	215	
			POTS	0828.4	0828.7	III	G	1	110U	170U	
	0815	1530	BLEN	0933.0	1420.0	I		2	100X	380	
			IZMI	0944.0	0946.1	III	GG	2	110	200	
			LEAR	0944.0	0945.0	III		1	38	180	
			POTS	0944.0	0945.8	III	G	2	110U	170U	
			SVTO	0944.0	0945.0	III		1	132U	161U	
			IZMI	0954.0U	1200.0D	I	N	2	210	270X	
			POTS	1027.9	1028.0	III	B	1	110U	300	

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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
27			IZMI	1031.8	1034.7	III	GG,FS	2	40	240	
			POTS	1031.8	1033.4	III	GG	2	40X	350	
			LEAR	1032.0	1033.0	III		1	45	180	
			SVTO	1032.0	1033.0	III		1	53U	180U	
			IZMI	1044.7	1045.5	III	G	1	120	175	
			POTS	1045.0	1049.9	III	G	1	110U	170U	
			HOLL	1720.0	1723.0	III		1	25	177	
			SGMR	1721.0	1723.0	III		2	30	80	
	1940	2400	CULG	2205.0	2206.0	III	G	1	57X	320	
	2141	2400	HIRA	2205.0	2208.0	III	G	1	80	330	
			CULG	2208.0	2208.0	III	B	1	130	350	
			CULG	2244.0	2244.0	III	B	1	57X	110	
			CULG	2250.0	2251.0	III	G	1	57X	90	
28	0000	0800	CULG	0001.0	0001.0	III	B	1	65	90	
			CULG	0447.0	0451.0	III	G	2	57X	180	
			LEAR	0447.0	0451.0	III		1	36	180	
	0000	0759	HIRA	0447.0	0451.5	III	G	2	80	210	
			LEAR	0542.0	0543.0	III		1	25	180	
			HIRA	0542.5	0544.0	III	G	1	25X	210	
			CULG	0543.0	0544.0	III	G	1	57X	200	
			LEAR	0608.0	0608.0	III		1	34	57	
			LEAR	0653.0	0707.0	III	N	2	25	180	
			CULG	0656.0	0701.0	III	GG	2	57X	280	
			HIRA	0656.0	0701.0	III	G	3	25X	400	
			SVTO	0656.0	0659.0	III		1	25	180	
	0700	1200	IZMI	0700.0E	0701.4	III	G,C	2	50	190	
			HIRA	0706.5	0707.5	III	B	1	50	190	
			IZMI	0706.7	0708.0	III	G	2	50	185	
			CULG	0707.0	0708.0	III	G	1	57X	180	
	0806	1424	ONDR								
	0715	1525	POTS	0845.5	1218 U	I	N	1	120U	280	
	0820	1525	BLEN	0853.6	0854.0	III	G	1	230	450	
			IZMI	0930.0	0930.5	III	G	1	120	270X	
			IZMI	1119.0	1145.0	I	S	1	120	170X	
			IZMI	1121.8	1121.8	III	B	2	135	175	
			BLEN	1210.3	1210.8	III	G	1	180	360	
			POTS	1450.7	1450.9	DCIM		1	250	400	
			HOLL	1912.0	1915.0	III		1	25	172	
			HOLL	1947.0	1950.0	III		1	25	175	
	1940	2400	CULG	1948.0	1951.0	III	GG	1	57X	160	
			PALE	1949.0	1950.0	III		1	25	180	
			SGMR	2005.0	2005.0	III		1	41	48	
			CULG	2029.0	2030.0	III	G	1	57X	150	
			CULG	2144.0	2146.0	III	G	1	57X	150	
			HOLL	2144.0	2145.0	III		1	25U	121U	
			LEAR	2248.0	2340.0	III	N	1	25	180	
			CULG	2256.0	2257.0	III	G	1	57X	200	
			HOLL	2256.0	2257.0	III		1	25	180	
			CULG	2301.0	2301.0	III	B	1	57X	90	
29			LEAR	0140.0	0144.0	III		1	25	64	
			LEAR	0243.0	0244.0	III		1	25	180	
	0000	0800	CULG	0244.0	0244.0	III	B	1	57X	160	
	0007	0800	HIRA	0244.0	0244.5	III	B	1	80	240	
			CULG	0606.0	0606.0	III	B	3	57X	180	
			LEAR	0606.0	0606.0	III		3	25	180	
			HIRA	0606.5	0607.0	III	B	3	30	300	
	0715	1525	POTS								
	0805	1426	ONDR								
	0825	1525	BLEN								
	0702	1200	IZMI	0947.3	0947.8	I	GG	2	195	215	
			HOLL	1839.0	1841.0	III		2	25	180	
			PALE	1839.0	1841.0	III		1	25	180	
			SGMR	1840.0	1841.0	III		2	30	80	
			HOLL	1847.0	1848.0	III		1	25	180	
	1940	2400	CULG	2013.0	2013.0	III	B	1	57X	75	
			CULG	2043.0	2043.0	III	G	1	57X	120	
			CULG	2136.0	2137.0	III	G	1	57X	90	

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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
29			HOLL	2136.0	2137.0	III		1	25	89	
			PALE	2136.0	2137.0	III		1	25	70	
			CULG	2211.0	2212.0	III	G	1	57X	90	
			CULG	2346.0	2346.0	III	B	1	75	180	
	2140	2400	HIRA	2346.0	2346.5	III	B	1	140	200	
30			LEAR	0022.0	0023.0	III		1	25	180	
	0000	0800	CULG	0022.0	0024.0	III	G	1	57X	180	
			LEAR	0036.0	0039.0	III		1	25	180	
	0000	0802	HIRA	0036.5	0037.0	III	B	1	25X	220	
			CULG	0037.0	0039.0	III	G	1	57X	150	
			CULG	0115.0	0118.0	III	G	1	57X	180	
			LEAR	0115.0	0118.0	III		1	25	180	
			HIRA	0117.0	0118.0	III	B	2	40	270	
			PALE	0117.0	0118.0	III		1	25	180	
			LEAR	0144.0	0145.0	III		1	25	60	
			CULG	0239.0	0239.0	III	B	1	110	180	
			HIRA	0252.5	0253.0	III	B	1	80	140	
			CULG	0253.0	0254.0	III	G	1	57X	90	
			CULG	0316.0	0317.0	III	G	1	57X	160	
			HIRA	0316.0	0316.5	III	B	1	40	150	
			LEAR	0316.0	0317.0	III		1	25	180	
			CULG	0335.0	0336.0	III	G	2	57X	170	
			HIRA	0335.0	0336.0	III	B	2	25X	230	
			PALE	0335.0	0335.0	III		1	25	100	
			LEAR	0336.0	0346.0	III		3	25	180	
			CULG	0419.0	0419.0	III	B	1	57X	90	
			HIRA	0419.0	0419.5	III	B	1	30	110	
			LEAR	0419.0	0419.0	III		1	25	61	
			LEAR	0445.0	0446.0	III		1	25	55	
			CULG	0446.0	0446.0	III	B	1	57X	85	
			LEAR	0615.0	0621.0	III		1	25	145	
			HIRA	0615.5	0618.5	III	G	1	30	200	
			CULG	0616.0	0621.0	III	G	1	57X	150	
			LEAR	0705.0	0819.0	III	N	2	25	180	
			CULG	0706.0	0800.0D	III	N	1	57X	180	
	0655	1200	IZMI	0711.6	0711.8	III	B	1	50	150	
			IZMI	0721.5	0721.6	III	B	1	90	100	
			IZMI	0722.2	0722.5	III	G	2	40	145	
			IZMI	0729.1	0729.4	III	G	2	50	140	
			IZMI	0735.9	0736.7	III	G	1	45	75	
			IZMI	0753.1	0755.0	III	G	1	55	270X	
	0710	1525	POTS	0753.3	0810	I	N	1	200U	280	
	0803	1428	ONDR								
			SVTO	0806.0	0806.0	III		1	25U	136U	
			IZMI	0806.4	0806.8	III	G	2	40	155	
			POTS	0806.4	0806.9	III/V	G	1	40X	220	
			SVTO	0916.0	0932.0	III	N	1	49U	73U	
			LEAR	0917.0	0933.0	III		1	25	110	
			LEAR	0917.0	0933.0	III	N	1	25	110	
			IZMI	0917.9	0918.3	III	G	1	45	150	
			POTS	0918.2	0918.3	III	B	1	40X	170U	
			LEAR	1047.0	1047.0	III		1	25	140	
			SVTO	1049.0	1050.0	III		1	47	142	
			IZMI	1049.8	1050.1	III	B	2	40	200	
			POTS	1049.8	1050.1	III	B	1	40X	170U	
			POTS	1122.8	1124.8	III/V	GG	2	40X	300	
			SVTO	1123.0	1124.0	III		1	29U	166U	
			IZMI	1123.2	1124.4	III	GG	2	30	270X	
			IZMI	1124.0	1124.3	V	HARM	2	38	50	
			SVTO	1140.0	1146.0	III		2	25U	141U	
			POTS	1207	1210 U	UNCLF		1	120	170U	
			POTS	1217.8	1220.7	III/V	GG	2	40X	300	
			SVTO	1218.0	1305.0	III	N	1	25U	159U	
			POTS	1226.3	1226.7	UNCLF		1	120	170U	
			POTS	1229.9	1230.1	III	B	1	110U	220	
			POTS	1234.5	1234.8	DCIM		1	220	320	
	0825	1525	BLEN	1234.5	1235.0	III	G,S	1	220	490	
			POTS	1238.3	1238.5	UNCLF		1	40X	70	

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30			HOLL	1624.0	1624.0	III		1	25	135	
	1940	2400	CULG	2118.0	2118.0	III	B	1	57X	150	
			CULG	2326.0	2326.0	III	B	1	57X	90	
	2139	2400	HIRA	2329.0	2329.5	III	B	1	70	120	
			CULG	2339.0	2339.0	III	B	1	70	140	
31	0000	0802	HIRA	0058.5	0059.0	III	B	1	100	180	
	0000	0800	CULG	0059.0	0100.0	III	G	1	60	180	
			CULG	0150.0	0150.0	III	B	1	57X	140	
			HIRA	0150.0	0150.5	III	B	1	90	150	
			CULG	0635.0	0635.0	III	B	1	57X	90	
			LEAR	0635.0	0635.0	III		1	25	61	
			HIRA	0637.0	0637.5	III	B	1	280	380	
			CULG	0731.0	0733.0	III	G	1	100	200	
			LEAR	0731.0	0732.0	III		1	115	180	
			HIRA	0731.5	0732.0	III	B	1	120	220	
	0700	1200	IZMI	0731.5	0732.1	III	G	2	120	210	
	0801	1431	ONDR								
	0710	1047	POTS	0843.3	0843.4	UNCLF		1	120	150	
	0810	1530	BLEN	1019.7	1022.9	III	G,S	1	180	620	
			IZMI	1021.3	1022.8	III	GG	2	120	270X	
			POTS	1021.5	1030	I	N	1	120	320	
			IZMI	1119.8	1120.1	III	G	2	120	270X	
			BLEN	1125.8	1132.3	DCIM	P	1	500	1050	
			IZMI	1158.7	1159.2	III	G,C	2	165	250	
	1257	1525	POTS	1417	1428 U	I	N,C	1	120	170U	
			BLEN	1439.3	1441.4	DCIM	C	3	2300	4000X	
			HOLL	1908.0	2115.0	CONT		1	65	136	
	1940	2400	CULG	1940.0E	2228.0	I	S	1	57X	130	
			CULG	2147.0	2149.0	III	G	1	57X	180	
			PALE	2147.0	2201.0	III	N	1	25	180	
	2138	2400	HIRA	2147.5	2148.0	III	B	1	30	120	
			CULG	2158.0	2203.0	III	GG	1	57X	180	
			HOLL	2159.0	2201.0	III		1	25	180	
			HIRA	2159.5	2202.0	III	G	1	40	210	
			LEAR	2220.0	0506.0	III	N	1	25	180	
			HOLL	2241.0	2242.0	III		1	25	138	
			HIRA	2241.5	2244.0	III	G	1	30	300	
			CULG	2242.0	2244.0	III	G	1	57X	180	
			CULG	2249.0	2249.0	III	B	1	57X	90	
			HIRA	2249.0	2249.5	III	B	1	40	100	
			CULG	2312.0	2312.0	III	B	1	57X	120	
			HIRA	2312.0	2312.5	III	B	1	40	140	

Event Remarks:

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

Frequency qualifiers:

X = Extends beyond instrument range
U = Uncertain frequency

Remarks:

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

Stations Reporting:

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