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Spectral Observations

MAY 2003

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	0348	1835	POTS	0359 U	1818 U	I	S,N,DC	2	200U	400	100-200MHz No Data
			LEAR	0419.0	0504.0	III	N	1	25	94	
	0000	0720	CULG	0419.0	0420.0	III	G	1	35	90	
	0000	0926	HIRA	0419.0	0419.5	III	B	1	25X	90	
			SVTO	0426.0	0507.0	III	N	1	25	81	
			CULG	0432.0	0505.0	III	N	1	23	140	
	0452	1707	ONDR								
			POTS	0548.9	0550.0	DCIM		2	230	500	
	0555	1205	IZMI	0555.0E	1205.0D	I	S	1	110	270X	
			CULG	0630.0	0720.0	III	N	1	40	130	
			LEAR	0650.0	0712.0	III	N	1	25	98	
			IZMI	0650.6	0650.8	III	G	1	45	95	
			LEAR	0655.0	0919.0	CONT		1	123	180	
			SVTO	0701.0	0702.0	III		1	25	54	
			SVTO	0721.0	1034.0	CONT		1	113	180	
			IZMI	0752.6	1132.0U	III	N	1	25U	95U	
			IZMI	0836.4	0844.8	III	GG	2	25X	95	
			POTS	0841.0	0843.0	III	G	2	40X	85U	
			SVTO	0841.0	0843.0	III		2	25	78	
			HIRA	0842.0	0843.0	III	G	1	50	90	
			SVTO	0923.0	0923.0	III		1	25	59	
			POTS	0923.4	0923.6	III	B	2	40X	85U	
			IZMI	1027.0	1027.3	III	G	1	110	215	
			SVTO	1059.0	1059.0	III		1	25	49	
			SVTO	1127.0	1131.0	III		1	25	84	
			IZMI	1127.2	1127.4	III	G	2	25X	95	
			POTS	1127.2	1131.0	III	G	2	40X	85U	
			IZMI	1130.7	1131.0	III	G	2	25X	155	
			IZMI	1149.3	1149.4	III	B	1	45	85	
			POTS	1149.3	1149.5	III	B	2	40X	230	
			POTS	1204.0	1204.3	III	B	1	40X	55	
			SGMR	1204.0	1204.0	III		1	30	40	
			SVTO	1204.0	1204.0	III		2	25	43	
			IZMI	1204.1	1204.4	III	B	2	25X	45	
			HOLL	1258.0	1258.0	III		1	25	70	
			SGMR	1258.0	1313.0	III	N	1	30	80	
			SVTO	1258.0	1343.0	III	N	2	25	84	
			POTS	1258.7	1259.0	III	B	2	40X	80	
			HOLL	1313.0	1313.0	III		1	25	118	
			POTS	1313.3	1313.6	III	B	2	40X	85U	
			SVTO	1550.0	1551.0	III		1	68	158	
			POTS	1550.4	1550.9	III	G	2	65	370	
	2040	2400	CULG								
			PALE	2147.0	2148.0	III		1	25	62	
	1944	2400	HIRA	2148.0	2148.5	III	B	1	25X	60	
02	0000	0720	CULG								
	0000	0915	HIRA								
	0348	1836	POTS	0348 E	1821 U	I	S,N,DC	2	200U	460	100-200MHz No Data
	0451	1708	ONDR								
	0554	1205	IZMI	0554.0E	1205.0D	I	N	2	190	270X	
			POTS	0741.3	0742.6	DCIM		2	260	610	
			POTS	0749.7	0749.9	III	G	2	200U	250	
			IZMI	0749.8	0750.0	III	G	2	110	250	
			SVTO	0823.0	0826.0	III		1	25	81	
			IZMI	0823.2	0826.3	III	G	2	30	65	
			POTS	0823.3	0826.9	III	G	2	40X	80	
			POTS	0848.6	0848.9	DCIM		2	340	510	
			IZMI	0930.4	0930.5	III	B	2	110	170	
			SVTO	1054.0	1054.0	III		1	41	180	
			IZMI	1054.1	1054.4	III	G,C	2	40	270X	
			POTS	1054.1	1054.5	III	B	2	40X	280	
			POTS	1118.9	1119.8	DCIM		2	320	520	
			SGMR	1205.0	1206.0	III		1	30	60	
			SVTO	1205.0	1208.0	III		1	25	81	
			IZMI	1205.5	1205.7D	III	G	2	40U	95	
			POTS	1205.5	1207.6	III	G,RS	2	40X	85U	
			POTS	1506.7	1506.9	DCIM		2	230	590	
			POTS	1518.3	1525.8	DCIM		2	210	560	

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02			POTS	1539.2	1539.9	DCIM		2	200U	510	
			HOLL	1613.0	1614.0	III		1	25	46	
			SVTO	1613.0	1614.0	III		1	25	55	
			POTS	1639.3	1640.0	DCIM		3	200	800X	
			POTS	1811.2	1816.7	III	GG	3	200U	450U	
			HOLL	1938.0	1938.0	III		1	25	75	
	2040	2400	CULG								
			HOLL	2227.0	2227.0	III		1	25	174	
03	0000	0720	CULG								
			LEAR	0341.0	0344.0	III		1	25	180	
	0347	1836	POTS	0359 U	1555 U	I	S,N,DC	2	200U	420	100-200MHz No Data
	0449	1709	ONDR								
			POTS	0538.1	0538.9	DCIM		1	320	470	
			POTS	0759.2	0801.1	DCIM		1	260	440	
	0606	1200	IZMI	0850.4	0850.4	III	B	1	110	150	
			POTS	0922.6	0922.8	III	B	2	40X	50	
			IZMI	1035.0	1200.0D	I	N	1	220	270X	
			POTS	1430.2	1432.5	III	GG	2	200U	520	
			SVTO	1458.0	1458.0	III		1	25U	82U	
			POTS	1555 U	0000	I	S,N	1	200U	360	
			POTS	1641.3	1642.7	DCIM		2	220	350	
			HOLL	1743.0	1744.0	III		1	25	180	
			HOLL	2303.0	2304.0	III		1	25	86	
			PALE	2303.0	2304.0	V		1	25	77	
	2040	2400	CULG	2304.0	2304.0	III	B	1	20	40U	
04			PALE	0022.0	0023.0	V		1	25	75	
			LEAR	0129.0	0130.0	III		1	25	180	
			PALE	0129.0	0131.0	III		2	25	180	
	0000	0720	CULG	0130.0	0130.0	III	B	2	18	90	
	0346	1719	POTS	0427	0639 U	I	S,N	2	200U	430	100-200MHz No Data
			POTS	0559.9	0601.0	III	G	2	200U	360	
			POTS	0709.8	0734	I	S,N,DC	1	200U	380	
			POTS	0737.7	0738.7	DCIM		2	310	420	
	0448	1711	ONDR	0809.0	0811.1	DCIM		1	2752	4500X	
			POTS	0841.7	0847.1	I	S,N	1	290	380	
			POTS	0856.2	1025	I	S,N	1	200U	390	
			LEAR	0859.0	0859.0	III		1	25	180	
			SVTO	0859.0	0859.0	III		1	25U	126U	
			POTS	0859.3	0859.6	III	G	2	40X	370	
	0600	1200	IZMI	0859.3	0859.6	III	G	2	40	170	
			POTS	0908.8	0909.5	DCIM		2	220	440	
			POTS	1050	1234	I	S,N	2	200U	380	
			POTS	1128.3	1128.7	III	G	1	40X	80	
			POTS	1201.7	1202.0	III	G	2	200U	320	
			POTS	1309	1438	I	S,N	2	200U	400	
			SVTO	1343.0	1343.0	III		1	25	136	
			POTS	1343.3	1343.5	III	B	2	40X	85U	
			POTS	1459	1719 U	I	S,N,DC	2	200U	460	
			ONDR	1501.2	1502.4	DCIM		1	2986	4500X	
	2040	2400	CULG								
05	0345	1839	POTS	0359 U	1821 U	I	S,N	2	200U	430	100-200MHz No Data
			LEAR	0408.0	0408.0	III		1	25	128	
			SVTO	0408.0	0408.0	III		1	25	83	
	0000	0720	CULG	0408.0	0410.0	III	G	1	23	100	
	0446	1712	ONDR								
	0600	1200	IZMI	0600.0E	1200.0D	I	N	1	120	270X	
			POTS	0626.6	0629.5	III	GG	2	200U	800X	
			IZMI	0626.9	0629.0	III	G,C	2	112	270X	
			LEAR	0627.0	0627.0	III		1	117	180	
			SVTO	0627.0	0628.0	III		1	117	180	
			POTS	0800.2	0800.5	III	G	1	200U	410	
			POTS	1013.9	1014.9	III	G,RS	2	40X	50	
			POTS	1019.8	1020.2	III	G	1	40X	85U	
			POTS	1134	1159	III	G,N	2	40X	85U	
			IZMI	1152.6	1152.8	III	G	2	50	95	
			SVTO	1158.0	1159.0	III		1	25	82	

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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			IZMI	1158.4	1159.1	III	G	2	25X	95	
			POTS	1217.8	1220.6	III	G,N	1	40X	55	
			SVTO	1256.0	1414.0	CONT		1	115	180	
			SVTO	1444.0	1447.0	III		1	25	86	
			HOLL	1447.0	1447.0	III		1	25	86	
			HOLL	1615.0	1616.0	III		1	25	90	
			SVTO	1615.0	1616.0	III		1	25	82	
	2040	2400	CULG	2318.0	2325.0	III	GG	1	20	180	
06	0000	0720	CULG	0121.0	0159.0	III	N	1	27	57	
			CULG	0304.0	0304.0	III	G	1	20	150	
	0344	1840	POTS	0423 U	1827 U	I	S,N	2	200U	410	100-200MHz No Data
	0555	1215	IZMI	0555.0E	1215.0D	I	N	1	120U	270X	
			SVTO	0643.0	0704.0	III	N	1	30	171	
			IZMI	0643.4	0643.7	III	G	1	45	90	
			POTS	0643.6	0654.1	III	GG,N	2	40X	350	
			CULG	0644.0	0654.0	III	G	1	30	230	
			LEAR	0649.0	0654.0	III		1	25	180	
			IZMI	0649.1	0650.9	III	GG	2	40	270X	
			IZMI	0653.9	0654.2	III	G	1	45	240	
			SVTO	0852.0	0853.0	III		1	28U	138U	
			IZMI	0853.0	0853.7	III	G	1	40	160	
			POTS	0853.0	0853.9	III	G	2	40X	380	
			POTS	0930.2	0935.4	III	G,N	2	40X	340	
			SVTO	0933.0	0935.0	III		1	25	138	
			IZMI	0933.5	0935.4	III	GG	2	15X	155	
	0445	1713	ONDR	1003.2	1027.5	DCIM	G	1	2000X	4500X	
			SVTO	1044.0	1045.0	III		1	25	48	
			IZMI	1044.2	1048.9	III	GG	1	40	165	
			POTS	1044.2	1045.5	III	G	2	40X	270	
			IZMI	1111.5	1112.1	III	G	1	45	155	
			POTS	1111.6	1112.1	III	G	2	40X	250	
			SVTO	1606.0	1726.0	CONT		1	121	150	
			HOLL	1732.0	1733.0	III		1	25	142	
			SGMR	1732.0	1733.0	III		2	30	55	
			POTS	1818.2	1819.2	DCIM		2	330	400U	
			HOLL	1919.0	1920.0	III		1	25	180	
			SGMR	1920.0	1920.0	III		2	30	50	
	2040	2400	CULG	2230.0	2231.0	III	G	1	23	350	
			LEAR	2335.0	0916.0	CONT		1	84	180	
07	0343	1840	POTS	0406.8	0407.9	III	G	1	200U	340	100-200MHz No Data
			POTS	0408	1828 U	I	S,N,DC	2	200U	380	
			POTS	0415.6	0417.1	III	G	1	200U	340	
	0443	1715	ONDR								
			POTS	0519.7	0544.3	III	GG,N	2	40X	440	
			LEAR	0536.0	0539.0	III		1	25	180	
			SVTO	0536.0	0539.0	III		1	25	180	
	0000	0720	CULG	0537.0	0540.0	III	G	1	27	180	
	0606	1202	IZMI	0606.0E	1202.0D	I	S	2	130	270X	
			POTS	0630.2	0633.6	III	GG	2	200U	390	
			IZMI	0630.7	0631.2	III	G,C	1	200	270X	
			POTS	0650.6	0652.0	DCIM	RS	2	230	440	
			LEAR	0706.0	0708.0	III		1	25	125	
			CULG	0708.0	0708.0	III	B	1	40	160	
			LEAR	0755.0	0757.0	III		1	25	180	
			POTS	0755.2	0755.5	DCIM		2	260	580	
			IZMI	0755.9	0757.4	III	G	2	40X	270X	
			SVTO	0757.0	0757.0	III		1	25	180	
			POTS	0757.1	0757.4	III	B	2	40X	450	
			SVTO	0859.0	0000.0	CONT		1	113	180	
			SVTO	0859.0	1727.0	CONT		1	25	180	
			POTS	0919.7	0920.7	III	G	2	40X	450	
			POTS	0927.8	0929.4	DCIM		2	220	500	
			IZMI	1002.5	1002.8	III	G	1	220	270X	
			IZMI	1114.1	1114.7	III	G	2	45	95	
			POTS	1114.1	1114.8	III	G	2	40X	85U	
			POTS	1134.2	1134.4	III	B	1	40X	60	
			POTS	1136.1	1137.5	III	GG	2	200U	410	

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07			IZMI	1136.4	1136.9	III	GG	2	200	270X	
			POTS	1157.5	1206.1	III	G,N	2	40X	320	
			IZMI	1157.6	1200.9	III	G	2	95	150	
			SVTO	1549.0	1727.0	III	N	1	25	180	
			HOLL	1605.0	1605.0	III		1	25	58	
			SGMR	1605.0	1605.0	III		1	30	55	
			HOLL	2104.0	2106.0	III		1	25	155	
	2040	2400	CULG	2104.0	2107.0	III	G	1	25	180	
			CULG	2132.0	2132.0	III	B	1	100	180	
			CULG	2229.0	2230.0	III	G	1	100	180	
			CULG	2328.0	2333.0	III	G	1	65	180	
08	0000	0720	CULG	0154.0	0154.0	III	B	1	20	180	
	0343	1841	POTS	0401 U	1816 U	I	S,N	2	200U	300	100-200MHz No Data
	0442	1716	ONDR								
	0555	1200	IZMI	0555.0E	0850.0U	I	NG,C	1	180	270	
			POTS	0616.2	0617.2	DCIM		2	270	500	
			POTS	0853.7	0854.5	DCIM		1	340	450	
			POTS	1421.2	1422.1	III	G	2	200U	460	
			POTS	1516.2	1516.4	DCIM		2	280	420	
			HOLL	1825.0	1825.0	III		1	25	45	
			HOLL	2018.0	2018.0	III		1	25	80	
	2040	2400	CULG								
09			LEAR	0029.0	0032.0	III		1	25	155	
			PALE	0029.0	0032.0	III		1	25	86	
			HOLL	0030.0	0032.0	III		1	25	148	
	0000	0720	CULG	0030.0	0033.0	III	G	2	18	180	
			CULG	0314.0	0315.0	III	G	1	30	160	
	0342	1841	POTS	0412	1812 U	I	S,N	1	200U	360	100-200MHz No Data
	0440	1717	ONDR								
			POTS	0622.1	0624.1	III	G	2	200U	500	
	0605	1200	IZMI	0622.4	0622.5	III	G	1	140	270X	
			CULG	0625.0	0625.0	III	G	1	30	170	
			IZMI	0625.0	0625.3	III	G	1	45	95	
			CULG	0636.0	0636.0	III	B	1	40	160	
			IZMI	0636.0	0636.3	III	G	1	45	065	
			SVTO	0636.0	0723.0	III	N	1	30	147	
			CULG	0645.0	0646.0	III	G	1	30	90	
			IZMI	0645.1	0645.1	III	B	1	45	95	
			LEAR	0656.0	0658.0	III		1	54	146	
			IZMI	0656.9	0658.9	III	GG	2	45	180	
			CULG	0657.0	0700.0	III	G	1	27	180	
			IZMI	0713.0	0750.0U	I	N	1	180	270	
			POTS	0944.9	0945.1	III	G	1	200U	420	
			SVTO	1130.0	1133.0	V		1	25	83	
			IZMI	1130.4	1130.7	III	G	2	25X	155	
			POTS	1130.4	1133.3	III	G,N	3	40X	85U	
			IZMI	1130.5	1131.0	V		2	25X	65	
			HOLL	1319.0	1319.0	III		1	25	52	
			SVTO	1319.0	1329.0	III		1	25	52	
			POTS	1319.1	1319.6	III	B	1	40X	55	
			HOLL	2226.0	2226.0	III		1	25	87	
			SGMR	2226.0	2226.0	III		1	30	60	
	2040	2400	CULG	2226.0	2226.0	III	B	1	20	180	
			CULG	2316.0	2317.0	III	G	1	27	180	
10	0000	0710	CULG	0053.0	0053.0	III	B	1	70	180	
			CULG	0156.0	0156.0	III	B	1	35	70	
			CULG	0209.0	0209.0	III	G	1	40	90	
			CULG	0255.0	0258.0	III	G	1	30	90	
	0341	1842	POTS	0427	0753	I	S,N	1	200U	320	100-200MHz No Data
	0439	1718	ONDR								
			CULG	0645.0	0658.0	III	GG	1	30	180	
			SVTO	0647.0	0655.0	III		1	25U	126U	
	0605	1200	IZMI	0647.9	0658.1	III	N	2	35	190	
			POTS	0648.1	0657.8	III	G,N	1	40X	280	
			LEAR	0649.0	0656.0	III		1	104U	180U	
			IZMI	0735.6	0736.1	III	G	1	45	65	

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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			IZMI	0910.3	0910.4	III	G	1	45X	85	
			POTS	1004	1238	I	S,N	1	200U	280	
			POTS	1214.7	1215.2	DCIM		1	310	420	
			POTS	1246.8	1247.2	III	G	2	70	300	
			POTS	1356.7	1811 U	I	S,N	1	200U	250	
			POTS	1640.9	1641.7	III	G	1	40X	85	
			HOLL	1749.0	1749.0	III		1	25	113	
	2040	2400	CULG	2116.0	2116.0	III	B	1	60	180	
11	0000	0710	CULG	0137.0	0137.0	III	B	1	23	60	
	0438	1720	ONDR								
	0645	1200	IZMI								
	0341	1843	POTS	1129.5	1132.2	DCIM		2	300	640	100-200MHz No Data
			POTS	1210.3	1210.7	III	G	2	40X	85U	
			POTS	1309.3	1310.2	III	G	2	200U	310	
			POTS	1326.0	1329.5	III	GG	1	200U	400	
			POTS	1351.6	1354.5	III	GG	2	200U	340	
			POTS	1459.1	1500.9	III	G,N	2	200U	390	
			HOLL	1650.0	1655.0	III		1	25	180	
			SVTO	1650.0	1655.0	III		1	25	180	
			POTS	1650.1	1655.2	III	GG	2	40X	400	
			SGMR	1651.0	1655.0	III		2	30	80	
			POTS	1825.2	1825.8	DCIM		2	210	450	
	2040	2400	CULG	2123.0	2146.0	III	N	1	25	180	
			HOLL	2144.0	2145.0	III		1	25	180	
	1933	2400	HIRA	2144.0	2145.5	III	G	1	80	170	
			CULG	2240.0	2240.0	III	B	1	20	45	
			HOLL	2240.0	2240.0	III		1	25	55	
			PALE	2240.0	2240.0	V		1	25	57	
			HIRA	2240.5	2241.0	III	B	1	25X	40	
			CULG	2251.0	2251.0	III	B	1	20	40	
			PALE	2251.0	0114.0	III	N	1	25	180	
			CULG	2259.0	2308.0	III	G	3	18X	180	
			HOLL	2259.0	2307.0	III		1	25	180	
			HIRA	2304.0	2304.5	III	B	1	25X	70	
12			HOLL	0021.0	0021.0	III		1	25	115	
	0000	0710	CULG	0021.0	0043.0	III	N	1	20	150	
	0000	0935	HIRA	0021.0	0021.5	III	B	1	25X	110	
			LEAR	0028.0	0033.0	III		1	25	180	
			CULG	0030.0	0033.0	III	G	2	18	180	
			HOLL	0030.0	0033.0	III		1	25	180	
			HIRA	0030.5	0033.5	III	G	1	25X	200	
	0341	1844	POTS	0422.8	0423.0	DCIM		1	240	410	100-200MHz No Data
			POTS	0431.3	0431.6	DCIM		1	320	400	
	0436	1721	ONDR								
			POTS	0501	0527	I	S,N	1	200U	400	
			CULG	0540.0	0540.0	III	B	1	27	160	
			HIRA	0540.0	0540.5	III	B	1	90	140	
			LEAR	0547.0	0835.0	III	N	1	25	180	
			CULG	0554.0	0618.0	III	N	1	27	180	
	0555	1200	IZMI	0554.2	0602.0	III	GG	1	25X	85	
			POTS	0559.0	0614.8	III	GG,N	2	40X	500	
			IZMI	0603.8	0609.5	III	GG,C	2	45	270X	
			IZMI	0613.6	0617.2	III	GG,C	1	75	190	
			POTS	0745.7	0745.8	DCIM	RS	1	260	440	
			IZMI	1106.8	1106.9	III	B	1	110U	155	
			POTS	1126.8	1136.4	III	GG	3	40X	320	
			IZMI	1126.9	1136.8	III	GG,C	2	25X	270X	
			SVTO	1127.0	1134.0	III		2	25	180	
			SGMR	1130.0	1134.0	III		2	30	80	
			POTS	1130.1	1131.0	V	G	3	45	60	
			IZMI	1157.3	1159.5	III	GG,RS	1	110U	180	
			POTS	1217	1258	I	S,N	1	200U	280	
			POTS	1335.4	1335.6	DCIM		1	330	410	
			POTS	1457	1523	I	S,N	1	200U	370	
			POTS	1552.9	1553.3	DCIM		1	260	420	
			POTS	1602	1606	I	S	1	200U	290	
			HOLL	1602.0	1604.0	III		1	25	136	

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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
12			SGMR	1602.0	1604.0	V		2	30	55	
			SVTO	1602.0	1603.0	V		1	25U	83U	
			POTS	1602.5	1603.4	III	G	1	40X	80	
			POTS	1648	1759 U	I	S,N	1	200U	380	
			HOLL	1704.0	1849.0	III	N	1	25	162	
			SVTO	1704.0	1732.0	III	N	1	25	151	
			PALE	1724.0	2022.0	III	N	1	25	180	
			HOLL	2320.0	2320.0	III		1	25	55	
			PALE	2320.0	2321.0	III		1	25	65	
	1932	2400	HIRA	2320.5	2321.0	III	B	1	25X	50	
	2040	2400	CULG	2321.0	2321.0	III	B	2	18	60	
13			HOLL	0012.0	0014.0	III		1	25	141	
	0000	0710	CULG	0012.0	0014.0	III	G	3	18	160	
	0000	0935	HIRA	0012.5	0013.0	III	B	1	60	120	
			CULG	0251.0	0252.0	III	G	1	20	180	
			HIRA	0251.0	0251.5	III	B	1	30	50	
	0435	1722	ONDR								
	0340	1844	POTS	0526.4	0536	I	S,N	1	210	320	100-200MHz No Data
			POTS	0528.1	0528.3	DCIM		1	230	400	
			POTS	0626	0643	I	S,N	1	200U	280	
			POTS	0645.9	0647.2	III	GG	2	200U	650	
			CULG	0646.0	0647.0	III	G	1	70	180	
			HIRA	0646.0	0647.5	III	G	2	110	400	
			SVTO	0646.0	0646.0	III		1	118U	180U	
	0555	1202	IZMI	0646.0	0647.2	III	G,U	2	90U	270X	
			POTS	0809	0824	I	S,N	1	200U	310	
			HIRA	0814.0	0814.5	III	B	1	40	100	
			LEAR	0814.0	0814.0	III		1	25	119	
			POTS	0814.0	0814.9	III	G	2	40X	85U	
			SVTO	0814.0	0814.0	III		1	25U	83U	
			IZMI	0814.2	0814.5	III	G	1	25X	45U	
			SVTO	1005.0	1006.0	III		1	25	73	
			POTS	1005.1	1006.1	III	G	2	40X	80	
			POTS	1158	1231	I	S,N	1	200U	290	
			SVTO	1302.0	1303.0	III		1	25	73	
			POTS	1343	1622 U	I	S,N	1	200U	360	
			POTS	1655.0	1655.6	DCIM		1	220	360	
			POTS	1741	1757	I	S,N	1	200U	360	
	1931	2400	HIRA								
	2040	2400	CULG								
14			HOLL	0038.0	0039.0	III		1	25	94	
	0000	0710	CULG	0039.0	0039.0	III	B	3	18	140	
	0000	0936	HIRA	0039.0	0039.5	III	B	2	25X	80	
			CULG	0054.0	0054.0	III	B	1	18	45	
			CULG	0329.0	0329.0	III	G	1	30	180	
	0339	1201	POTS	0423	0507	I	S,N	1	200U	340	100-200MHz No Data
	0434	1723	ONDR								
			POTS	0619	0855	I	S,N	1	200U	300	
			HIRA	0724.0	0725.0	III	B	1	80	200	
			POTS	0724.0	0724.8	III	GG	2	200U	370	
			SVTO	0724.0	0724.0	III		1	113	180	
	0622	1200	IZMI	0724.1	0724.8	III	GG,C	2	90U	260	
			POTS	0920	1029	I	S,N	1	200U	330	
			SVTO	0935.0	0936.0	III		1	50	180	
			IZMI	0935.3	0936.0	III	GG,C	2	45	260	
			POTS	0935.3	0936.1	III	G	2	40X	270	
			IZMI	0942.5	0943.7	III	GG	1	90	170	
			IZMI	1000.7	1001.1	UNCLF		1	110U	170	
			POTS	1058	1234	I	S,N	1	200U	330	
			IZMI	1153.5	1154.2	CONT		1	80	160	
	1202	1845									See Note 2
	2040	2400	CULG	2117.0	2123.0	III	G	1	30	180	
			PALE	2153.0	2154.0	III		1	100	180	
	1930	2400	HIRA	2153.5	2156.5	III	G	2	90	230	
			CULG	2154.0	2156.0	III	G	1	57U	180	
15	0000	0937	HIRA								

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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
15	0000	0710	CULG	0104.0	0104.0	III	G	1	60	140	
	0433	1724	ONDR								
			CULG	0554.0	0604.0	III	G	1	57U	160	
	0555	1200	IZMI	0557.1	0557.4	III	G,C	1	90	170	
			IZMI	1055.2	1056.8	III	G	2	45	95	
	1929	2400	HIRA								
	2050	2400	CULG	2141.0	2141.0	III	B	1	40	140	
16	0000	0938	HIRA								
	0000	0710	CULG	0103.0	0104.0	III	G	1	25	57	
	0432	1726	ONDR								
			CULG	0604.0	0604.0	III	B	1	57	150	
	0600	1200	IZMI	0642.7	0643.5	III	G	1	45	90	
			CULG	0643.0	0644.0	III	G	1	40U	150	
			IZMI	1102.7	1102.8	III	B	1	25X	65	
	0339	1846	POTS	1102.7	1102.9	III	B	2	40X	75	See Note 2
			POTS	1319.0	1324.1	III	G	2	40X	85U	
			HOLL	1419.0	1715.0	III	N	1	25	82	
			POTS	1419.5	1436.3	III	G,N	2	40X	85U	
			SGMR	1430.0	1436.0	III		1	30	60	
			POTS	1459.7	1502.1	III	GG	2	200U	400X	
			SGMR	1536.0	1539.0	III		2	30	60	
			POTS	1536.4	1538.8	III	G	2	40X	85U	
			SGMR	1619.0	1621.0	III		1	30	60	
			POTS	1619.2	1620.2	III	G	2	40X	85U	
	1928	2400	HIRA								
	2050	2400	CULG								
17	0000	0710	CULG	0022.0	0022.0	III	B	1	20	90	
			CULG	0110.0	0114.0	III	G	1	35	180	
			LEAR	0111.0	0121.0	III		1	25	180	
			CULG	0121.0	0121.0	III	G	1	30	180	
			CULG	0136.0	0137.0	III	G	1	30	150	
			LEAR	0136.0	0137.0	III		1	53	127	
	0000	0939	HIRA	0136.5	0137.0	III	B	1	60	110	
			CULG	0211.0	0251.0	III	N	1	25	150	
			HIRA	0211.0	0211.5	III	B	1	50	110	
			LEAR	0211.0	0211.0	III		1	55	138	
			LEAR	0229.0	0229.0	III		1	48	134	
			HIRA	0229.5	0230.0	III	B	1	50	130	
			CULG	0419.0	0421.0	III	G	1	57	170	
			CULG	0427.0	0428.0	III	G	1	35	160	
	0431	1727	ONDR								
			CULG	0511.0	0511.0	III	B	1	35U	150	
			CULG	0541.0	0544.0	III	G	1	30	180	
	0338	1846	POTS	0542.5	0543.3	III	G	1	40X	240	See Note 2
	0600	1200	IZMI	0712.6	0713.1	III	G	1	45	100	
			POTS	1202.3	1205.4	III	G	3	40X	240	
			POTS	1800.7	1802.1	DCIM		1	230	380	
	1927	2400	HIRA								
	2050	2400	CULG								
18	0000	0940	HIRA								
	0000	0710	CULG	0038.0	0038.0	III	G	1	60	140	
			CULG	0257.0	0257.0	III	B	1	30	70	
	0429	1728	ONDR								
	0337	1847	POTS	0828.1	0829.9	III	G	2	40X	400X	See Note 2
	0555	1214	IZMI	0828.1	0829.9	III	G,HARM	2	45	260	
			IZMI	0931.5	0931.7	III	G	2	45	190U	
			POTS	0931.5	0931.8	III	B	2	40X	270	
			IZMI	1006.9	1007.0	III	G	1	60	155	
			POTS	1206.3	1206.8	III	G	2	40X	400X	
			POTS	1402.6	1404.3	III	G	2	40X	320	
			POTS	1515.2	1516.2	III	G	1	200U	340	
	1926	2400	HIRA								
	2050	2400	CULG								
19	0000	0710	CULG								
	0000	0941	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
19	0428	1729	ONDR								
	0337	1848	POTS	0747.3	0747.7	DCIM	U	1	200U	340	See Note 2
			POTS	1030	1053	I	S,N,C	1	200U	330	
			SVTO	1032.0	1057.0	III	N	1	25	147	
			POTS	1032.7	1058.3	III	GG,N	2	40X	250	
	0606	1200	IZMI	1032.7	1101.0U	III	S,C	2	40	140	
			IZMI	1045.7	1047.6	III	G	2	40	120	
			POTS	1046	1102	DCIM		2	310	400X	
			POTS	1114.8	1116.3	DCIM		1	230	390	
			SVTO	1449.0	1502.0	III	N	1	25U	120U	
			POTS	1450.0	1450.3	III	B	2	40X	85U	
			POTS	1521	0000	I	S,N	1	220	370	
	1925	2400	HIRA								
20	0000	0710	CULG	0105.0	0110.0	III	G	1	23	180	
			LEAR	0106.0	0115.0	III		1	25	180	
	0000	0942	HIRA	0106.5	0114.5	III	G	1	25X	200	
			CULG	0112.0	0115.0	III	G	2	20	180	
			PALE	0112.0	0114.0	III		1	25	165	
			HOLL	0113.0	0114.0	III		1	25	169	
			LEAR	0133.0	0134.0	III		1	25	180	
			CULG	0134.0	0135.0	III	G	1	30	170	
			HIRA	0134.0	0135.0	III	G	1	60	120	
	0427	1730	ONDR								
			CULG	0608.0	0612.0	III	G	3	23	180	
			LEAR	0608.0	0611.0	V		1	25	180	
			SVTO	0608.0	0611.0	III		2	25	153	
	0600	1200	IZMI	0608.4	0609.2	III	G,C	2	25X	270	
			HIRA	0608.5	0611.0	III	G	2	25X	220	
	0336	1848	POTS	0608.5	0610.8	III	GG	3	40X	400X	See Note 2
			IZMI	0609.2	0909.8	CONT		2	30	90	
			IZMI	0610.4	0611.2	III	G	2	25X	210	
			IZMI	0611.5	0612.0	III	G	1	40U	155	
			IZMI	1026.8	1027.1	III	G	1	55	90	
			POTS	1033.7	1033.9	III	B	1	40X	70	
			IZMI	1127.0	1127.1	III	B	1	45	65	
			SGMR	1202.0	1203.0	III		1	30	65	
			POTS	1319.8	1320.2	III	G	1	40X	65	
			POTS	1548 U	1640 U	I	S,N	1	250	370	
			POTS	1710 U	1808 U	I	S,N	1	210	330	
			POTS	1710.5	1711.2	DCIM		2	200	320	
			HOLL	1802.0	1807.0	III		1	25	172	
			PALE	1802.0	1804.0	III		1	25	90	
			SGMR	1802.0	1803.0	III		1	30	65	
	1925	2400	HIRA								
	2050	2400	CULG	2356.0	2356.0	III	B	1	50U	130	
21	0000	0710	CULG								
	0000	0942	HIRA								
	0426	1731	ONDR								
	0336	1848	POTS	0617	0624	I	S,N	1	250	330	See Note 2
	0600	1200	IZMI	0633.1	0633.6	III	G	1	75	95	
			IZMI	0637.7	0637.8	CONT		1	75	95	
			POTS	0823.0	0823.3	DCIM	U	1	230	310	
			IZMI	0823.1	0823.6	CONT		1	75	95	
			IZMI	0829.4	0829.5	III	B	2	45	150	
			POTS	1039.8	1040.5	DCIM		1	200U	320	
			SVTO	1242.0	1257.0	III	N	2	25	180	
			POTS	1242.9	1255.2	III	GG,U	2	40X	400X	
			HOLL	1243.0	1246.0	III		1	25	180	
			SGMR	1243.0	1247.0	III		1	30	80	
			HOLL	1642.0	1642.0	III		1	25	68	
			HOLL	1851.0	1852.0	III		1	25	129	
			PALE	1851.0	1851.0	III		1	25	61	
			SGMR	1851.0	1852.0	III		2	30	65	
			PALE	1923.0	1924.0	III		1	25	75	
			SGMR	1923.0	1924.0	III		2	30	70	
	2050	2400	CULG	2059.0	2059.0	III	B	1	50U	130	
			CULG	2248.0	2248.0	III	B	1	30	60	

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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
21			CULG	2334.0	2334.0	III	B	1	50U	90	
			HOLL	2334.0	2341.0	III		1	25	98	
			CULG	2341.0	2341.0	III	G	1	40	180	
			LEAR	2341.0	2341.0	III		1	25	180	
	1925	2400	HIRA	2341.0	2341.5	III	B	1	30	140	
22			LEAR	0052.0	0058.0	III		1	25	180	
	0000	0710	CULG	0052.0	0058.0	III	G	1	35U	180	
			HOLL	0053.0	0058.0	III		1	25	120	
			PALE	0053.0	0058.0	III		1	25	60	
	0000	0943	HIRA	0053.5	0054.0	III	B	1	30	160	
	0426	1732	ONDR								
	0336	1849	POTS	0649.0	0650.1	DCIM		1	260	390	See Note 2
			POTS	0658.2	0702.8	DCIM	RS,U	2	280	400X	
			POTS	0726.5	0728.0	III	G	2	40X	290	
	0555	1204	IZMI	0726.8	0728.0	III	G	2	40	270X	
			IZMI	0814.5	0815.7	III	G	1	45	65	
			IZMI	0846.8	0854.0	III	GG	2	25	175	
			POTS	0850.4	0854.6	III	GG	2	40X	380	
			SVTO	0952.0	0953.0	III		1	25	57	
			POTS	0952.6	0953.1	III	G,RS	2	40X	85U	
			IZMI	0952.7	0953.1	III	G	2	25X	85	
			POTS	1139.0	1141.5	DCIM		2	230	400X	
			SVTO	1139.0	1140.0	III		1	25U	83U	
			IZMI	1139.8	1146.8	III	GG	2	40	165	
			POTS	1139.8	1146.8	III	GG	2	40X	270	
			POTS	1145.5	1201	I	S,N,DC	1	200U	280	
			SVTO	1303.0	1303.0	III		1	25	66	
			POTS	1303.2	1303.6	III	G	2	40X	75	
			POTS	1410.6	1415.4	DCIM		1	200U	360	
			HOLL	1708.0	1830.0	III	N	1	25	82	
			SVTO	1708.0	1709.0	III		1	52	62	
			POTS	1711	1721	I	S,N	1	200U	330	
			POTS	1711.6	1712.0	III	G	2	200U	250	
			POTS	1800.8	1801.7	DCIM		1	210	320	
			PALE	1857.0	1858.0	III		1	25	132	
			SGMR	1858.0	1947.0	III	N	1	30	45	
	2050	2400	CULG								
			HOLL	2115.0	2118.0	III		1	25	78	
			PALE	2116.0	2118.0	III		1	25	73	
			SGMR	2118.0	2118.0	III		1	30	50	
	1925	2400	HIRA	2118.5	2119.0	III	B	1	25X	100	
			LEAR	2341.0	2341.0	III		1	25	180	
23	0425	1733	ONDR								
	0336	1849	POTS	0630.6	0633.0	DCIM		1	200	400X	See Note 2
	0000	0710	CULG	0632.0	0633.0	III	G	1	110	180	
			LEAR	0810.0	0909.0	III	N	1	25	120	
			SVTO	0816.0	0910.0	III	N	1	25U	85U	
			POTS	0816.1	0826.5	III	GG	2	40X	380	
	0609	1200	IZMI	0816.1	0827.8	III	S,C	2	25X	170	
	0000	0944	HIRA	0818.5	0820.0	III	G	1	40	200	
			IZMI	0829.1	0839.3	III	GG	2	30	95	
			POTS	0832	0844	III	GG	2	40X	85U	
			HOLL	1358.0	1400.0	III		1	25	151	
			SVTO	1358.0	1400.0	III		1	25	180	
			POTS	1358.8	1400.3	III	G,U	2	40X	390	
			POTS	1721.5	1722.3	III	GG	2	200U	400X	
	1924	2400	HIRA								
	2050	2400	CULG								
24	0000	0710	CULG								
	0000	0933	HIRA								
	0424	1734	ONDR								
	0600	1200	IZMI								
	0336	1849	POTS	1229.6	1232.2	DCIM		1	200	360	See Note 2
	1924	2400	HIRA								
	2050	2400	CULG								

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Spectral Observations

MAY 2003

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
25	0000	0710	CULG								
	0000	0849	HIRA								
	0336	1849	POTS	0419.6	0419.8	DCIM		2	210	400X	See Note 2
	0423	1152	ONDR								
			POTS	0933.8	0937.5	III	GG	1	40X	85U	
	0550	1200	IZMI	0933.9	0940.3	III	GG	1	50	65	
			POTS	0936.0	0937.2	I	S,N	1	260	320	
			IZMI	1011.8	1012.6	III	G	2	160	270X	
			POTS	1011.8	1012.9	DCIM	U	2	200U	400X	
			POTS	1106.4	1107.2	III	G	2	40X	250	
			IZMI	1106.7	1107.1	III	G	1	50U	165	
	2050	2400	CULG								
26	0000	0710	CULG	0538.0	0603.0	IV		1	300	1300	
			LEAR	0539.0	0546.0	III		1	25	180	
			CULG	0540.0	0547.0	III	G	1	25	150	
			SVTO	0542.0	0546.0	III		1	25	180	
	0055	0946	HIRA	0542.0	0547.0	III	G	1	30	200	
	0643	1200	IZMI	0543.3	0543.5	III	G,FS	2	40	65	
			IZMI	0546.0	0546.6	III	G	1	30	95	
			LEAR	0552.0	0908.0	CONT		1	57U	180U	
			IZMI	0558.0	1200.0D	I	S	2	45U	160	
			IZMI	0559.1	0559.3	III	G	1	130	270X	
			IZMI	0606.0U	1143.0U	III	N	2	45	95	
			SVTO	0606.0	0000.0	CONT		1	58	180	
			SVTO	0606.0	1134.0	CONT		1	25	180	
			IZMI	0606.7	0609.2	III	G	1	50	270X	
			IZMI	0612.4	0615.7	III	G	2	55	160	
			CULG	0613.0U	0710.0D	CONT		1	30U	160	
			IZMI	0624.0U	0633.2	III	G,C	1	25X	270X	
			CULG	0628.0	0630.0	III	G	1	30	90	
			CULG	0657.0	0657.0	III	B	1	25	40	
			IZMI	0657.0	0657.2	III	G	1	25X	65	
			LEAR	0657.0	0659.0	III		1	25	50	
			SVTO	0657.0	0658.0	III		1	25	54	
			IZMI	0709.2	0709.7	III	G	2	45	90	
			IZMI	0714.2	0715.1	III	G	2	45	175	
			IZMI	0719.6	0722.5	III	GG	2	45	90	
			IZMI	0743.6	0744.8	III	GG	2	45	95	
			IZMI	0824.2	0824.9	III	G	2	25X	95	
			IZMI	1048.9	1053.2	III	GG	1	25X	80U	
			SGMR	1244.0	1244.0	III		1	30	60	
			SVTO	1244.0	1244.0	III		1	25	180	
			SVTO	1308.0	1744.0	III	N	1	25	180	
			HOLL	1435.0	1435.0	III		1	25	78	
			SGMR	1435.0	1435.0	III		1	30	55	
	0422	1737	ONDR	1508.3	1529.5	DCIM	G	2	800X	1550	
			SVTO	1511.0	1513.0	III		1	25	153	
			SVTO	1618.0	0000.0	CONT		1	109	180	
			SVTO	1618.0	0000.0	CONT		2	109	180	
			SVTO	1618.0	1744.0	CONT		2	63	180	
			ONDR	1628.0	1721.3	DCIM	GG	2	800X	2000X	
			HOLL	1655.0	0136.0	CONT		1	39	177	
			HOLL	1703.0	1705.0	III		1	25	92	
			SGMR	1703.0	1705.0	III		2	30	70	
			PALE	1810.0	0450.0	CONT		1	25	180	
			HOLL	1910.0	1912.0	III		1	25	71	
			SGMR	1910.0	1911.0	III		2	30	70	
			HOLL	2042.0	0026.0	III	N	1	25	155	
	2050	2400	CULG	2050.0E	2400.0D	III	S,C	1	20	180	
	1923	2400	HIRA	2238.5	2242.5	III	G	1	25X	170	
			PALE	2239.0	2242.0	III		1	25	154	
27	0000	0710	CULG	0000.0E	0430.0D	III	S,C	1	20	180	
			CULG	0120.0	0122.0	III	G	2	40U	180	
			HOLL	0120.0	0120.0	III		1	25	180	
	0000	0947	HIRA	0120.0	0121.0	III	B	1	50	160	
			LEAR	0215.0	0216.0	III		2	25	180	
			HIRA	0215.5	0217.0	III	G	1	25X	110	

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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
27			LEAR	0249.0	0310.0	III	N	2	25	180	
			PALE	0252.0	0257.0	III		2	25	180	
			HIRA	0252.5	0307.0	III	G	3	25X	220	
			CULG	0253.0	0307.0	III	GG	3	18X	850	
			SVTO	0346.0	1745.0	CONT		2	25	180	
			CULG	0430.0E	0710.0D	III	S,C	2	20	180	
	0421	1737	ONDR	0543.5	0638.0	DCIM	GG,SP	2	800X	2000X	
			IZMI	0550.0E	1104.0U	III	S	1	25X	270X	
	0550	1200	IZMI	0550.0E	1200.0D	I	S,C	2	45U	270X	
			IZMI	0558.9	0608.3	III	GG	2	25X	95	
			LEAR	0600.0	0632.0	III	N	2	25	180	
			SVTO	0600.0	0000.0	III		2	25	180	
			SVTO	0600.0	0632.0	III		2	25	180	
			SVTO	0600.0	0632.0	III	N	2	25	180	
			HIRA	0602.5	0625.5	III	G	2	25X	500	
			CULG	0611.0	0625.0	III	GG	3	23U	850	
			IZMI	0611.3	0624.5	III	GG,C	2	25X	270X	
			IZMI	0642.0	0642.9	III	GG	2	160	270X	
			ONDR	0642.3	0649.2	DCIM	GG	2	800X	1653	
			CULG	0643.0	0643.0	III	G	1	23	1200	
			IZMI	0646.4	0647.4	III	G	2	25X	175	
			ONDR	0800.4	0810.5	DCIM	GG	2	800X	1939	
			IZMI	0800.8	0803.7	III	GG	2	25X	270X	
			IZMI	0930.8	0931.8	III	G,C	2	25X	190	
			IZMI	0939.6	0943.0	III	GG	2	25X	95	
			IZMI	1104.0U	1200.0D	III	S	2	25X	270X	
			SGMR	1104.0	0000.0	CONT		2	30	80	
			SGMR	1104.0	0000.0	III	N	2	30	80	
			SGMR	1104.0	2345.0	CONT		2	30	80	
			IZMI	1155.4	1156.4	III	GG,C	2	25X	240	
			HOLL	1226.0	2311.0	CONT		2	25	180	
			HOLL	1232.0	0145.0	III	N	2	25	180	
			ONDR	1452.3	1518.4	DCIM	GG	2	800X	2000X	
			ONDR	1452.5	1458.4	DCIM	G	1	2000X	4500X	
			SVTO	1504.0	1516.0	III	N	2	25	180	
			PALE	1622.0	0450.0	CONT		1	25	180	
	1922	2056	HIRA								
	2050	2400	CULG	2050.0E	2400.0D	III	S,C	2	20U	280	
			CULG	2300.0	2307.0	III	GG	3	20	1400	
			PALE	2300.0	2306.0	III		2	25	180	
			CULG	2301.0	2317.0	IV	FS	2	200	1400	
			CULG	2302.0	2310.0	II	FN	3	50U	300	FLA ESS 900
			CULG	2306.0	2310.0	II	SH	3	100	180	
			PALE	2306.0	2316.0	II		3	25	180	ESS 0607
			PALE	2306.0	2316.0	II		3	25	180	ESS 0619
			CULG	2309.0	2310.0	III	G	3	30	170	
			HOLL	2310.0	0000.0	II		1	46	157	ESS 0656
			HOLL	2310.0	2318.0	II		1	35	180	ESS 0546
			CULG	2311.0	2316.0	II	FN	3	50U	100	
			CULG	2311.0	2316.0	II	SH	3	100	200	ESS 650
			HOLL	2311.0	0145.0	IV		2	25	180	
			LEAR	2337.0	0907.0	CONT		1	25	180	
28	0000	0700	CULG	0000.0E	0700.0D	III	S,C	1	20U	180	
			CULG	0022.0	0027.0	III	G	3	18X	1800X	
			CULG	0022.0	0241.0	IV	FS	3	40U	1600	
			PALE	0022.0	0026.0	III		3	25	180	
			PALE	0026.0	0033.0	II		3	25	180	ESS 0392
			PALE	0033.0	0228.0	IV		2	65	180	
			LEAR	0042.0	0228.0	IV		3	73	180	
			SVTO	0350.0	0000.0	CONT		1	55	180	
			SVTO	0350.0	1746.0	CONT		1	25	180	
			SVTO	0432.0	1604.0	III	N	1	25	180	
			IZMI	0600.0E	1200.0D	I	S,C	2	45U	270X	
	0600	1200	IZMI	0600.0E	1200.0D	III	N	2	25X	95U	
			IZMI	0614.3	0614.4	III	G	2	145	205	
			IZMI	0732.4	0740.3	III	GG	2	40	95	
			IZMI	0743.8	0750.0	III	GG	2	40	160	
			IZMI	0753.8	0754.3	III	G	2	35	140	

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Spectral Observations

MAY 2003

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
28			IZMI	0755.7	0758.2	III	GG,C	2	25X	270	
			LEAR	0756.0	0758.0	III		2	25	180	
			SVTO	0756.0	0758.0	V		2	25	180	
			IZMI	0800.5	0801.3	III	G	2	45	270	
	0420	1738	ONDR	0808.2	0809.3	DCIM	GG,SP	2	800X	2000X	
			IZMI	0808.5	0810.4	III	GG	2	30	260	
			IZMI	0815.7	0816.8	III	G	2	45	160	
			IZMI	0831.7	0837.1	III	GG	2	45	210	
			IZMI	0923.5	0924.8	III	GG	2	25X	210	
			IZMI	0925.8	1017.0U	III	S	2	25X	270X	
			IZMI	0935.1	0941.9	III	G	2	25X	240	
			IZMI	1037.5	1037.8	III	G	2	25X	60	
			IZMI	1148.5	1150.4	III	GG	2	30	270X	
			HOLL	1309.0	2040.0	CONT		1	83	180	
			HOLL	1331.0	1334.0	III		1	25	49	
			HOLL	1412.0	1413.0	III		1	25	111	
			SGMR	1412.0	1413.0	III		1	30	55	
			SGMR	1704.0	1707.0	III		1	30	50	
			SGMR	1952.0	1958.0	III		1	30	80	
	2050	2400	CULG	2050.0E	2400.0D	III	N	1	23	180	
			LEAR	2338.0	0907.0	CONT		1	74	180	
29	0000	0700	CULG	0000.0E	0700.0D	III	N	1	25U	180	
			CULG	0058.0	0213.0	IV	FS	2	40U	1800X	
			CULG	0100.0	0106.0	III	G	3	18X	1000	
			LEAR	0100.0	0106.0	III		2	25	180	
			PALE	0100.0	0106.0	III		2	25	180	
			HOLL	0101.0	0000.0	II		1	25	180	ESS 1441
			CULG	0106.0	0111.0	II	FN	3	30	90	
			CULG	0106.0	0111.0	II	SH	3	50	170	FLA 2B ESS 800
			LEAR	0106.0	0116.0	II		2	25	180	ESS 0955
			PALE	0106.0	0116.0	II		2	25	180	ESS 1386
			CULG	0108.0	0111.0	III	G	3	18	90	
			LEAR	0112.0	0907.0	IV		1	25	180	
			CULG	0113.0	0116.0	UNCLF		2	40	120	
			PALE	0116.0	0221.0	IV		1	25	180	
			LEAR	0212.0	0215.0	III		2	25	180	
			PALE	0212.0	0215.0	III		2	25	180	
			CULG	0213.0	0216.0	III	G	3	30	300	
			CULG	0235.0	0236.0	III	G	2	50U	180	
			LEAR	0235.0	0236.0	III		1	25	180	
	0420	1739	ONDR								
			SVTO	0426.0	0725.0	III	N	1	25	180	
			SVTO	0544.0	1204.0	IV		1	25U	180U	
			IZMI	0600.0E	0720.0U	III	S	2	45U	270X	
			IZMI	0600.0E	1200.0D	III	N	2	25	95U	
	0600	1200	IZMI	0600.0E	1200.0D	I	S,C	2	45	270X	
			IZMI	0658.1	0701.6	III	G	2	25X	95	
			IZMI	0846.4	0847.7	III	G	1	55	175	
			HOLL	1505.0	1505.0	III		1	25	121	
			SVTO	1505.0	1505.0	III		1	36	79	
			HOLL	1705.0	1705.0	III		1	25	73	
			HOLL	1914.0	2145.0	IV		1	25	180	
			SGMR	1914.0	2044.0	III	N	3	30	80	
			HOLL	1935.0	2100.0	III	N	1	25	180	
			SGMR	1939.0	1947.0	II		3	45	80	ESS 0430
			HOLL	1942.0	1946.0	II		1	41	180	ESS 0406
			SGMR	1948.0	2040.0	IV		3	30	80	
	2100	2400	CULG	2100.0E	2313.0	III	N	1	25	180	
			PALE	2341.0	0450.0	III	N	1	25	180	
30			LEAR	0412.0	0413.0	V		2	25	180	
			SVTO	0412.0	0413.0	V		2	25	180	
	0000	0700	CULG	0412.0	0413.0	III	G	2	18	200	
	0147	0556	HIRA	0412.0	0414.5	III	G	3	25X	230	
			LEAR	0450.0	0451.0	III		1	108	180	
			CULG	0451.0	0451.0	III	G	1	120	240	
			HIRA	0451.0	0451.5	III	B	2	110	220	
			SVTO	0451.0	0451.0	III		1	125U	180U	

SOLAR RADIO EMISSION
Spectral Observations

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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
30			CULG	0520.0	0635.0	III	N	1	30U	160	
			LEAR	0523.0	0645.0	CONT		1	64	180	
			CULG	0554.0	0557.0	III	G	1	230	470	
	0600	1200	IZMI	0600.0E	1200.0D	I	N	2	80U	270X	
			IZMI	0632.2	0632.8	III	G	2	145	270X	
			LEAR	0720.0	0721.0	III		1	25	43	
			LEAR	0720.0	0721.0	III		1	43	180	
			SVTO	0720.0	0721.0	III		1	25	44	
			IZMI	0737.4	0739.8	III	G	2	145	270X	
			LEAR	0755.0	0756.0	III		1	25	135	
			SVTO	0755.0	0756.0	III		1	25U	83U	
			IZMI	0755.3	0756.4	III	G,C,FS	2	25X	160U	
	0419	1740	ONDR	0851.5	0854.4	DCIM	G	1	800X	1695	
			IZMI	1036.5	1036.8	III	B	1	25	40	
			HOLL	1944.0	1945.0	III		1	25	162	
			PALE	1944.0	1945.0	III		1	25	160	
			SGMR	1944.0	1945.0	III		1	30	65	
	2100	2400	CULG	2149.0	2219.0	III	N	1	25	180	
			HOLL	2218.0	2219.0	III		1	25	56	
			LEAR	2338.0	0000.0	CONT		1	77	180	
			LEAR	2338.0	0419.0	CONT		1	66	180	
			CULG	2357.0	2400.0D	III	N	1	50	180	
31	0000	0700	CULG	0000.0E	0117.0	III	N	1	23	180	
			HOLL	0003.0	0115.0	III	N	1	25	134	
			LEAR	0004.0	0419.0	III	N	1	25	113	
			PALE	0005.0	0000.0	III	N	1	25	180	
			PALE	0005.0	0000.0	III	N	1	25U	180U	
			CULG	0218.0	0254.0	IV		2	35U	1800X	
			CULG	0219.0	0220.0	III	G	1	30U	90	
			CULG	0220.0	0221.0	III	G	2	350	1000	
			LEAR	0220.0	0227.0	V		3	25	180	
			PALE	0220.0	0000.0	II		1	25	180	ESS 0410
			CULG	0221.0	0223.0	III	G	3	18X	300	
			CULG	0223.0	0230.0	II	FN	3	30	90	
			CULG	0223.0	0235.0	II	SH	3	35	180	ESS 800
			LEAR	0223.0	0000.0	II		3	75	180	ESS 0502
			LEAR	0223.0	0243.0	II		3	25	180	ESS 0650
			CULG	0225.0	0228.0	III	G	2	30	170	
			PALE	0226.0	0000.0	II		1	25	180	ESS 0410
			CULG	0231.0	0232.0	III	G	2	50U	180	
			CULG	0247.0	0402.0	III	S,C	1	23	180	
			SVTO	0340.0	0340.0	III		1	25	74	
	0419	1741	ONDR								
	0605	1200	IZMI	0832.0	0832.3	III	B	2	40	90	
			HOLL	1527.0	1542.0	III		1	25	180	
			SGMR	1527.0	1542.0	III		1	30	60	
			SVTO	1527.0	1531.0	III		1	25	83	
			SVTO	1542.0	1543.0	III		1	25	74	
			HOLL	2004.0	2004.0	III		1	25	56	
	2100	2400	CULG	2107.0	2339.0	III	N	1	20	180	
			HOLL	2249.0	0022.0	III	N	1	25	167	
			CULG	2319.0	2320.0	III	G	2	18	200	
			LEAR	2343.0	0220.0	III	N	1	25	180	

NOTE 1: Beginning June 26, 2001, the Bleien observatory changed to higher frequencies (1-4Ghz).
NOTE 2: 100-200MHz and 400-800MHz No Data