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

APRIL 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
01			LEAR	0127.0	0127.0	III		1	30	55	S=2 C=
	0000	0740	CULG	0127.0	0127.0	III	B	1	20	60	
			CULG	0303.0	0305.0	III	G	2	18	130	
			LEAR	0303.0	0305.0	III		3	30	80	S=2 C=
			PALE	0303.0	0304.0	III		1	25	87	S=2 C=
	0000	0902	HIRA	0303.0	0305.0	III	G	1	25X	120	
	0518	1649	POTS	0541 E	1640 U	I	S,C,DC	2	110U	300	
	0545	1624	ONDR								
	0548	1200	IZMI	0548.0E	1200.0D	I	N	1	45	250	
			IZMI	0556.4	0556.7	III	G	1	45	230	
			IZMI	0626.2	0626.3	III	B	1	45	95	
			CULG	0640.0	0642.0	III	G	2	23	170	
			HIRA	0640.0	0643.0	III	G	2	30	230	
			LEAR	0640.0	0642.0	III		3	30	80	S=2 C=
			SVTO	0640.0	0642.0	III		1	35	85	S=2 C=
			IZMI	0640.2	0642.3	III	GG	2	25X	270X	
			POTS	0640.2	0642.4	III	GG	3	40X	325	
			IZMI	0641.7	0642.3	III	GG	2	25X	260	
			IZMI	0706.4	0707.1	III	G	1	45	145	
			IZMI	0814.0	0814.3	III	B	1	40	160	
			POTS	0814.0	0814.3	III	G	2	40X	170U	
			IZMI	0832.6	0832.9	III	B,RS	2	45	95	
			IZMI	1008.3	1010.82	III	GG	2	45	180	
			POTS	1008.3	1009.4	III	G	3	110U	170U	
			SVTO	1034.0	1036.0	III		1	35	50	S=2 C=
			POTS	1034.8	1036.0	III	G	2	40X	70	
			SVTO	1245.0	1248.0	III		1	35	85	S=2 C=
			POTS	1246.1	1248.5	III	GG,C	3	40X	400	
			SGMR	1247.0	1247.0	III		2	30	80	S=2 C=
			SGMR	1424.0	1424.0	III		1	30	65	S=2 C=
			SVTO	1424.0	1547.0	III	N	1	35	84	S=2 C=
			POTS	1424.1	1424.3	III	B	2	40X	90U	
			POTS	1501.2	1501.9	III	G	3	80	170U	
	2040	2400	CULG	2040.0E	2120.0	III	S	1	30	90	
			CULG	2317.0	2319.0	III	G	1	40	90	
			CULG	2339.0	2339.0	III	B	1	30	90	
			LEAR	2339.0	2339.0	III		1	40	65	S=2 C=
			PALE	2339.0	2339.0	III		1	28	59	S=2 C=
			CULG	2350.0	2350.0	III	B	1	110	180	
	2020	2400	HIRA	2350.0	2351.0	III	B	1	120	260	
02	0000	0903	HIRA								
			LEAR	0012.0	0012.0	III		1	30	68	S=2 C=
			PALE	0012.0	0012.0	III		1	30	54	S=2 C=
	0000	0740	CULG	0013.0	0108.0	III	N	1	30	130	
			LEAR	0017.0	0018.0	III		2	30	75	S=2 C=
			LEAR	0042.0	0051.0	III		1	33	78	S=2 C=
			PALE	0042.0	0051.0	III		1	38	55	S=2 C=
			PALE	0107.0	0108.0	III		1	30	55	S=2 C=
			CULG	0150.0	0150.0	III	B	1	18	90	
			LEAR	0150.0	0150.0	III		1	30	70	S=2 C=
	0518	1649	POTS	0540 E	1641 U	I	S,C,DC	2	40X	400	
	0543	1625	ONDR								
			IZMI	0604.0E	1200.0D	III	N	1	45	95	
	0604	1200	IZMI	0604.0E	1200.0D	I	N	2	80	250	
			CULG	0633.0	0655.0	III	N	1	30	150	
			LEAR	0639.0	0651.0	III	N	1	30	45	S=2 C=
			POTS	0640	1621	III	N	2	110U	170U	
			IZMI	0640.0	0647.0	I	S	2	80	270	
			IZMI	0640.0	0647.0	III	S	2	45	160	
			SVTO	0640.0	0712.0	III	N	1	35	85	S=2 C=
			IZMI	0649.1	0650.8	III	GG	2	45	245	
			SVTO	0654.0	0902.0	CONT		1	52	85	S=2 C=
			LEAR	0713.0	0743.0	CONT		1	50	80	S=2 C=
			IZMI	0807.0	0807.5	III	G	1	200	270X	
			IZMI	0946.2	0953.0	III	GG	2	25X	180	
			POTS	0947.4	0953.1	III	GG,RS	3	40X	170U	
			IZMI	0955.5	0958.0	III	G	1	45	105	
			IZMI	1018.8	1021.2	III	GG	2	45	95	

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APRIL 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
02			IZMI	1026.8	1035.6	III	GG	2	40	95	
			POTS	1032.3	1033.9	III	G	2	40X	90U	
			IZMI	1037.7	1037.9	III	B	1	40	95	
			POTS	1137.7	1138.0	III	B	2	40X	70	
			SGMR	1151.0	1151.0	III		2	30	80	S=2 C=
			SVTO	1151.0	1151.0	III		2	35	85	S=2 C=
			IZMI	1151.4	1151.8	III	G	2	25X	270X	
			POTS	1151.5	1152.0	III	G	3	40X	250U	
			SVTO	1247.0	1247.0	III		1	35	51	S=2 C=
			POTS	1247.4	1247.8	III	B	2	40X	160	
			POTS	1319.0	1319.6	III	G	2	40X	250U	
			SGMR	1319.0	1319.0	III		1	30	80	S=2 C=
			SVTO	1319.0	1319.0	III		1	35	75	S=2 C=
			SGMR	1702.0	1828.0	III	N	1	30	70	S=2 C=
			SGMR	1924.0	1925.0	III		1	30	50	S=2 C=
	2019	2400	HIRA								
	2040	2400	CULG								
03	0000	0612	HIRA								
	0000	0740	CULG								
			LEAR	0106.0	0109.0	III		2	30	70	S=2 C=
			PALE	0106.0	0109.0	III		1	25	70	S=2 C=
			LEAR	0307.0	0310.0	III		2	30	57	S=2 C=
	0518	1651	POTS	0538 E	1643 U	I	S,C,DC	2	110U	300U	
	0541	1626	ONDR								
	0559	1200	IZMI	0600.0U	1200.0D	I	N	1	100	180	
			IZMI	0654.9	1000.0U	III	N	1	45	90	
			IZMI	0936.7	0938.5	III	G	1	35	95	
			POTS	0937	1505	III	N	1	40X	90U	
			POTS	1222.1	1222.2	III	B	3	110U	170U	
			SVTO	1504.0	1505.0	III		1	35	64	S=2 C=
	2040	2400	CULG								
			PALE	2119.0	0431.0	III	N	1	25	55	S=2 C=
04			LEAR	0058.0	0059.0	III		1	30	65	S=2 C=
			LEAR	0116.0	0017.0	III		1	30	65	S=2 C=
			LEAR	0206.0	0209.0	III		3	30	80	S=2 C=
	0000	0740	CULG	0207.0	0209.0	III	G	1	30	100	
	0054	0905	HIRA	0207.0	0209.0	III	G	2	25X	140	
			HIRA	0258.0	0259.0	III	B	1	30	110	
			LEAR	0258.0	0300.0	III		2	30	80	S=2 C=
			LEAR	0525.0	0531.0	III		2	30	60	S=2 C=
			SVTO	0526.0	0530.0	III		1	35	84	S=2 C=
	0518	1651	POTS	0537 E	1646 U	I	S,C,DC	2	110U	250U	
			SVTO	0554.0	1047.0	CONT		1	47	85	S=2 C=
	0601	1200	IZMI	0611.0U	0817.0U	III	N	1	45	90	
			LEAR	0713.0	0714.0	III		1	45	60	S=2 C=
			POTS	0714	1638	III	N	1	110U	170U	
			IZMI	0749.6	0749.8	III	G,FS	1	45	135	
			POTS	0754.2	0756.2U	II	UE	3	110U	155	
			IZMI	0754.5	0757.2	II	HARM	1	45	135	
			IZMI	1041.6	1044.1	III	G	1	45	85	
			POTS	1310.8	1310.9	III	B	3	110U	170U	
			SGMR	1407.0	1408.0	V		2	30	80	S=2 C=
			SVTO	1407.0	1408.0	III		2	35	84	S=2 C=
			POTS	1407.2	1408.2	III	G	3	40X	170U	
			ONDR	1514.0	1542.3	DCIM	GG	2	800X	2000X	
			SVTO	1515.0	1619.0	IV		3	35	85	S=2 C=
			SGMR	1516.0	1539.0	III	N	3	30	80	S=2 C=
			POTS	1517.0	1527	IV	P	3	40X	550	
	0655	1629	ONDR	1517.1	1543.4	DCIM	GG	2	2000X	4500X	
			POTS	1524.8	1526.6	II	SH	3	110U	170U	
			POTS	1524.9	1526.0	II	F	2	40X	65	
			POTS	1527.7	1536	IV		3	40X	150	
			POTS	1529.3	1531.9	II	SH,P	3	110U	170U	
			POTS	1530.4	1531.5	II	F,H	3	40X	80	
			SGMR	1553.0	1642.0	III	N	/	30	60	S=2 C=
			SGMR	1553.0	1642.0	III	N	1	30	60	S=3 C=
			SVTO	1637.0	1640.0	III		1	40U	85U	S=2 C=

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APRIL 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
04			PALE	1828.0	1833.0	III		1	25	55	S=2 C=
	2016	2400	HIRA								
			SGMR	2050.0	2053.0	III		1	37	52	S=3 C=
	2040	2400	CULG	2050.0	2053.0	III	G	1	40	90	
			SGMR	2150.0	2153.0	III		1	37	52	S=2 C=
05	0000	0740	CULG								
	0000	0905	HIRA								
			PALE	0058.0	0058.0	III		2	25	70	S=2 C=
			PALE	0424.0	0425.0	III		1	25	55	S=2 C=
			LEAR	0449.0	0449.0	III		1	30	50	S=2 C=
	0518	1651	POTS	0518 E	1648 U	I	S,C,DC	2	110U	300	
	0537	1631	ONDR								
	0546	1200	IZMI	0546.0E	1200.0D	I	S	2	120	270X	
			IZMI	0602.0U	1200.0D	III	N	1	45	120U	
			SVTO	0724.0	0724.0	III		1	35	85	S=2 C=
			IZMI	0724.2	0724.7	III	G	2	45	140	
			IZMI	1045.8	1048.8	III	GG	2	45	140	
	2014	2400	HIRA								
	2040	2400	CULG								
06			PALE	0056.0	0057.0	III		1	25	60	S=2 C=
			LEAR	0222.0	0225.0	III		2	30	80	S=2 C=
			PALE	0222.0	0225.0	III		2	25	90	S=2 C=
	0000	0602	HIRA	0222.0	0224.0	III	G	1	30	180	
	0000	0740	CULG	0222.0	0225.0	III	G	1	25	130	
			CULG	0228.0	0237.0	II	FN	2	30	80	
			CULG	0228.0	0237.0	II	SH	3	60	160	ESS 800
			HIRA	0228.0	0232.0	II	FN	2	40	80	ESS 800
			HIRA	0228.0	0236.0	II	SH	2	60	160	ESS 800
			LEAR	0228.0	0237.0	II		2	30	80	ESS 0700 S=2 C=
			PALE	0228.0	0236.0	V		2	25	150	S=2 C=
	0519	1616	POTS	0532 E	1616 U	I	S,W	1	110U	300	
	0535	1631	ONDR								
	0557	1200	IZMI	0703.8	0708.2	III	G	1	50	85	
			IZMI	0715.8	0716.1	III	B	1	45	95	
			IZMI	1043.9	1044.1	III	B	1	50	95	
			POTS	1156.3	1156.7	III	B	2	40X	170U	
			SGMR	1824.0	1839.0	III	N	2	30	80	S=2 C=
			PALE	1827.0	1827.0	III		1	25	115	S=2 C=
			PALE	1834.0	1838.0	III		1	25	145	S=2 C=
			PALE	2011.0	2011.0	III		1	25	55	S=2 C=
			SGMR	2011.0	2011.0	III		1	30	80	S=2 C=
	2012	2400	HIRA								
	2040	2400	CULG	2116.0	2116.0	III	B	1	30	90	
			CULG	2220.0	2220.0	III	B	1	30	90	
07			LEAR	0057.0	0110.0	III	N	2	30	80	S=2 C=
			PALE	0057.0	0127.0	III	N	1	25	85	S=2 C=
	0000	0740	CULG	0057.0	0059.0	III	G	1	18X	100	
	0000	0907	HIRA	0057.0	0059.0	III	G	1	30	300	
			CULG	0110.0	0110.0	III	B	1	28	90	
	0532	1633	ONDR								
	0518	1118	POTS	0540	1118 U	I	S,C,DC	2	110U	300	
			POTS	0651.6	0652.2	DCIM		2	275	450	
			POTS	0928.1	0928.2	III	B	1	110U	170U	
	0605	1200	IZMI	0928.1	0928.3	III	B	1	45	95	
			IZMI	1032.6	1033.1	III	G	1	25X	135	
	1135	1633	POTS	1135 E	1633 U	I	S,C,DC	2	110U	300	
			POTS	1253.0	1253.1	III	G	1	110U	170U	
			POTS	1310.7	1313.0	III	G	2	110U	170U	
			SVTO	1333.0	1334.0	III		1	35	48	S=2 C=
			POTS	1333.5	1339.3	III	GG	3	80	250	
			POTS	1411.8	1412.4	III	G	2	110U	170U	
			POTS	1457.5	1457.6	III	B	2	110U	170U	
			PALE	1746.0	1750.0	III		1	25	145	S=2 C=
			SGMR	1746.0	1750.0	V		2	30	80	S=2 C=
	2040	2400	CULG	2355.0	2357.0	III	G	1	28	130	
			LEAR	2356.0	2356.0	III		1	30	65	S=2 C=

SOLAR RADIO EMISSION
Spectral Observations

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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
07	2011	2400	HIRA	2356.0	2357.0	III	B	1	40	140	
08	0000	0908	HIRA	0237.0	0241.0	III	G	2	200	500	
	0518	1651	POTS	0540	1651 U	I	S	1	110U	170U	
	0558	1200	IZMI	0559.1	0559.8	I	GG	2	240	260	
			LEAR	0610.0	0610.0	III		1	30	55	S=2 C=
			SVTO	0610.0	0610.0	III		1	35	59	S=2 C=
			IZMI	0610.4	0610.6	III	G	2	45	90	
			IZMI	0612.6	0614.3	I	N	2	230	270X	
			IZMI	0641.4	0641.6	III	G	2	70	100	
			IZMI	0715.5	0715.9	I	GG	2	200	215	
			SVTO	0722.0	0728.0	III		1	35	63	S=2 C=
	0000	0740	CULG	0722.0	0723.0	III	G	1	40	120	
			IZMI	0722.2	0722.9	III	G	3	45	165	
			POTS	0722.3	0722.6	III	G	3	110U	170U	
			IZMI	0724.1	0724.4	III	G	1	55	100	
			LEAR	0726.0	0728.0	III		1	30	50	S=2 C=
			IZMI	0726.5	0728.7	III	G	1	40	95	
			HIRA	0745.0	0746.0	III	B	3	40	220	
			IZMI	0745.0	0746.5	III	GG	3	25	270	
			LEAR	0745.0	0746.0	III		3	30	80	S=2 C=
			POTS	0745.0	0746.2	III	G,C	3	40X	275	
			SVTO	0745.0	0907.0	III	N	2	35	85	S=2 C=
			IZMI	0745.2	0746.0	CONT		2	50	150	
			LEAR	0758.0	0759.0	III		1	30	60	S=2 C=
			IZMI	0758.4	0802.8	III	GG	2	25X	230	
			POTS	0758.4	0800.0	III	G,U	2	40X	400	
			POTS	0808.3	0809.6	III	G	2	110U	170U	
			IZMI	0809.6	0809.7	III	B	1	50	85	
			IZMI	0859.7	0859.9	III	B	1	45	70	
			SVTO	1035.0	1041.0	III		1	35	75	S=2 C=
			IZMI	1035.9	1036.2	III	G	2	25X	95	
			POTS	1035.9	1041.8	III	GG	3	40X	170U	
			IZMI	1040.2	1042.1	III	GG	2	25X	180	
			IZMI	1104.3	1105.2	III	GG	2	35	120	
			POTS	1104.3	1105.3	III	G	2	40X	120	
			POTS	1221.8	1222.6	III	G	1	40X	170U	
			POTS	1359.0	1401.4	III	G	2	40X	170U	
			SGMR	1359.0	1400.0	III		1	30	65	S=2 C=
			SVTO	1359.0	1404.0	III		1	35	85	S=2 C=
	0530	1633	ONDR	1410.5	1419.2	DCIM	G,W	1	2254	4500	
			POTS	1648.6	1648.8	III	B	2	110U	170U	
			SGMR	1740.0	1741.0	III		1	30	45	S=2 C=
			PALE	1844.0	1844.0	III		1	25	140	S=2 C=
	2010	2400	HIRA								
	2040	2400	CULG	2205.0	2206.0	III	B	1	30	90	
09	0000	0909	HIRA								
			LEAR	0036.0	0036.0	III		1	30	70	S=2 C=
	0000	0740	CULG	0036.0	0036.0	III	B	1	28	90	
			LEAR	0250.0	0250.0	III		2	30	70	S=2 C=
			CULG	0251.0	0251.0	III	G	1	23	130	
			LEAR	0426.0	0427.0	III		1	30	50	S=2 C=
	0518	1651	POTS	0538	1651 U	I	S	1	110U	250	
	0600	1200	IZMI	0602.9	0606.8	I	N	1	200	215	
			POTS	1245.8	1245.9	III	G,RS	1	110U	155	
			POTS	1342.2	1347.5	III	GG,RS	2	40X	170U	
			SGMR	1346.0	1347.0	III		1	30	60	S=2 C=
			SVTO	1346.0	1347.0	III		1	35	73	S=2 C=
			SVTO	1436.0	1504.0	III	N	2	35	85	S=2 C=
			POTS	1436.9	1440.7	III	GG	3	40X	275	
			SGMR	1437.0	1623.0	III	N	3	30	80	S=2 C=
			POTS	1501.7	1504.8	III	GG,P	3	40X	250	
			SVTO	1527.0	1531.0	III		3	35	85	S=2 C=
			POTS	1527.8	1552.8	III	GG,P,RS	3	40X	400	
	0528	1636	ONDR	1528.1	1529.3	DCIM	G	1	2039	4500X	
			POTS	1528.2	1528.8	DCIM		2	400	750	
			SVTO	1551.0	1552.0	III		1	35	85	S=2 C=
			POTS	1619.4	1622.3	III	GG	2	110U	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
09			SVTO	1623.0	1701.0	III	N	1	35	85	S=2 C=
			SGMR	1837.0	1837.0	III		1	30	50	S=2 C=
			SGMR	1946.0	1946.0	III		1	30	80	S=2 C=
	2040	2400	CULG	2100.0	2126.0	III	N	1	28	140	
			CULG	2111.0	2111.0	III	B	2	28	90	
			PALE	2111.0	2125.0	III	N	2	25	180	S=2 C=
			SGMR	2111.0	2111.0	III		2	30	80	S=2 C=
	2009	2400	HIRA	2111.0	2112.0	III	B	1	25X	120	
			HIRA	2121.0	2126.0	III	G	3	25X	240	
			SGMR	2121.0	2126.0	III		3	30	80	S=2 C=
			CULG	2122.0	2123.0	III	G	3	28	160	
			CULG	2250.0	2252.0	III	G	1	28	150	
			HIRA	2250.0	2252.0	III	G	1	30	140	
			LEAR	2251.0	2252.0	III		1	38	60	S=2 C=
			PALE	2251.0	2252.0	III		1	25	75	S=2 C=
			CULG	2338.0	2344.0	II	FN	1	30	65	
			CULG	2338.0	2347.0	II	SH	2	60	130	SWF ESS 700
			HIRA	2338.0	2344.0	II	FN	2	40	60	ESS 800
			HIRA	2338.0	2345.0	II	SH	2	50	120	ESS 800
			LEAR	2338.0	2344.0	II		3	38	80	ESS 0700 S=2 C=
			PALE	2338.0	2346.0	II		2	25	U	ESS 0720 S=2 C=
10			LEAR	0023.0	0249.0	IV		1	45	80	S=2 C=
			LEAR	0034.0	0036.0	III		3	30	80	S=2 C=
			PALE	0034.0	0036.0	III		2	25	U	S=2 C=
	0000	0910	HIRA	0034.0	0035.0	III	B	1	25X	120	
	0000	0740	CULG	0035.0	0036.0	III	G	3	20	140	
			CULG	0241.0	0241.0	III	B	1	30	80	
			CULG	0334.0	0335.0	III	G	2	23	130	
			HIRA	0334.0	0335.0	III	B	2	30	140	
			LEAR	0334.0	0335.0	III		2	30	80	S=2 C=
			PALE	0334.0	0335.0	III		1	25	90	S=2 C=
			CULG	0338.0	0338.0	III	B	1	30	90	
			CULG	0425.0	0425.0	III	B	1	30	90	
			LEAR	0425.0	0609.0	III	N	2	30	80	S=2 C=
			CULG	0452.0	0455.0	III	G	2	23	100	
			SVTO	0452.0	0454.0	III		1	35	64	S=2 C=
			HIRA	0454.0	0455.0	III	B	1	30	120	
	0518	1649	POTS	0524 E	1649 U	I	S	1	110U	250	
			POTS	0541.8	0542.5	III	G	1	150	400	
			SVTO	0556.0	0609.0	III	N	1	35	85	S=2 C=
			POTS	0606.3	0609.6	III	G,RS,U	2	110U	170U	
	0558	1201	IZMI	0606.3	0609.6	III	GG	2	45	150	
			CULG	0609.0	0610.0	III	G	1	60	90	
			POTS	0615.9	0616.2	DCIM		1	380	550	
			IZMI	0617.3	0617.3	III	G,FS	1	45	100	
			POTS	0749.9	0750.3	III	G	1	200U	325	
			LEAR	0833.0	0835.0	III		1	30	70	S=2 C=
			POTS	0833.7	0835.2	III	G	2	40X	140	
			IZMI	0833.9	0835.1	III	GG,FS	2	25X	150	
			HIRA	0834.0	0835.0	III	G	1	50	120	
			SVTO	0834.0	0835.0	III		1	35	73	S=2 C=
			IZMI	0836.1	0837.4	III	G	1	45	95	
			IZMI	0904.5	1054.0U	III	N	1	45	95	
			IZMI	0909.0U	1035.0U	I	N	1	200	230	
			POTS	0950.2	1008.7	III	GG,C	3	40X	450	
			IZMI	0951.0	0952.0	III	G	2	25X	145	
			LEAR	0951.0	0958.0	III		2	39	80	S=2 C=
			SVTO	0951.0	1005.0	III	N	2	35	85	S=2 C=
			IZMI	0952.4	0958.6	II	GG	2	25X	260	
			ONDR	0953.3	0956.4	DCIM	GG	2	800X	2000X	
			IZMI	0955.8	0958.7	CONT		2	25X	135	
	0526	1636	ONDR	0956.1	0958.2	DCIM	G	1	2000X	4500X	
			IZMI	0958.9	1002.0	III	GG	2	35	270X	
			IZMI	1003.5	1004.8	III	GG	2	25X	270X	
			ONDR	1004.0	1004.4	DCIM	GG	2	800X	1442	
			POTS	1004.3	1004.4	III	B	2	650	800X	
			POTS	1018.3	1023.8	III	GG	2	40X	170U	
			IZMI	1019.5	1023.6	III	G,FS	2	35	180	

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10			ONDR	1025.0	1027.3	DCIM	GG	3	809	1794	
			POTS	1159.1	1159.8	III	G	2	110U	170U	
			IZMI	1200.6	1200.8	III	G	2	55	95	
			SGMR	1314.0	1539.0	III	N	1	30	70	S=3 C=
			SVTO	1314.0	1322.0	III		1	35	61	S=2 C=
			POTS	1314.3	1322.6	III	G	2	40X	140	
			POTS	1402.9	1403.5	III	G	2	40X	65	
			SVTO	1403.0	1612.0	III	N	1	35	85	S=2 C=
			POTS	1418.0	1418.3	III	G	2	40X	140	
			POTS	1459.1	1459.6	III	G	2	40X	150	
			POTS	1556.5	1612.5	III	G	3	40X	250	
			SGMR	1612.0	1710.0	III	N	2	30	70	S=2 C=
			POTS	1636.3	1645.2	III	G	3	40X	170U	
			SVTO	1645.0	1645.0	III		1	35	78	S=2 C=
			SGMR	1808.0	1809.0	III		2	30	70	S=2 C=
			SGMR	1909.0	1916.0	III	N	2	30	80	S=2 C=
			SGMR	1954.0	1955.0	III		2	30	60	S=2 C=
	2008	2400	HIRA	2018.0	2019.0	III	B	1	60	130	
			PALE	2049.0	2049.0	III		1	25	70	S=2 C=
			SGMR	2049.0	2049.0	III		1	30	60	S=2 C=
	2040	2400	CULG	2050.0	2050.0	III	B	1	30	75	
11			LEAR	0008.0	0008.0	III		2	30	60	S=2 C=
			PALE	0008.0	0008.0	III		1	30	55	S=2 C=
	0000	0740	CULG	0008.0	0008.0	III	B	1	25	90	
			LEAR	0058.0	0232.0	III	N	3	30	80	S=2 C=
			CULG	0059.0	0110.0	III	G	1	23	140	
			PALE	0059.0	0109.0	III		1	28	145	S=2 C=
	0000	0911	HIRA	0059.0	0100.0	III	B	1	30	140	
			HIRA	0108.0	0109.0	III	B	1	50	120	
			CULG	0146.0	0147.0	III	G	2	20	100	
			HIRA	0146.0	0147.0	III	B	1	25X	110	
			PALE	0146.0	0146.0	III		1	30	87	S=2 C=
			CULG	0232.0	0234.0	III	G	1	25	75	
			CULG	0345.0	0345.0	III	B	1	30	75	
			LEAR	0345.0	0345.0	III		1	30	50	S=2 C=
			SVTO	0446.0	0834.0	CONT		1	35	76	S=2 C=
	0454	1700	POTS	0554 E	1700 U	I	S,W	1	110U	400	
			POTS	0625.1	0625.2	III	B	2	110U	170U	
			HIRA	0703.0	0709.0	III	G	1	30	110	
			LEAR	0703.0	0710.0	III		2	30	80	S=2 C=
			POTS	0703.7	0711.0	III	GG	2	40X	450	
	0546	1200	IZMI	0703.7	0704.1	III	GG	2	25X	150	
			CULG	0704.0	0710.0	III	G	1	35	90	
			IZMI	0707.8	0709.3	III	GG	2	45	165	
			IZMI	0710.0	0710.6	III	G	2	30	105	
			CULG	0738.0	0738.0	III	B	1	35	90	
			HIRA	0738.0	0739.0	III	B	1	50	140	
			IZMI	0738.0	0738.5	III	G,FS	2	25	270X	
			POTS	0738.0	0745.1	III	GG,RS	3	40X	425	
			SVTO	0738.0	0744.0	III		1	35	85	S=2 C=
			IZMI	0738.2	0738.9	CONT		1	45	95	
			IZMI	0744.1	0745.0	III	G	2	35	180	
			SVTO	0754.0	0755.0	III		1	35	85	S=2 C=
			IZMI	0754.8	0755.2	III	G	2	30	125	
			POTS	0754.8	0757.0	III	G	2	40X	170U	
			IZMI	0756.8	0756.9	III	B	1	45	95	
			IZMI	0806.4	0806.6	III	G	2	200	245	
			POTS	0806.4	0813.0	III	G	2	40X	250	
			IZMI	0812.9	0813.0	III	G	2	45	145	
			IZMI	0822.2	0822.4	III	G	1	45	98	
			IZMI	0831.3	0831.6	III	G,FS	2	30	115	
			POTS	0831.3	0831.6	III	B	2	40X	130	
			IZMI	0908.5	0908.6	UNCLF		1	200	270X	
			POTS	0908.5	0908.6	III	G,RS	1	200U	300	
			SVTO	1003.0	1014.0	V		1	35	73	S=2 C=
			IZMI	1003.2	1005.9	III	GG,FS	2	25X	270X	
			POTS	1003.3	1008.6	III	GG,RS	3	40X	400	
			ONDR	1003.4	1005.5	DCIM		1	978	2000X	

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11	0524	1637	ONDR	1003.5	1005.0	DCIM		1	2000X	4500	
			IZMI	1004.1	1005.3	CONT		2	45	240	
			IZMI	1006.5	1008.5	III	GG	2	35	270X	
			IZMI	1010.8	1018.1	III	N	2	45	135	
			POTS	1011.4	1017.9	III	GG,RS	2	40X	170U	
			POTS	1122.5	1122.6	III	B,RS	2	120	350	
			POTS	1134.1	1134.2	III	B	2	40X	160	
			SGMR	1143.0	1143.0	III		1	30	55	S=2 C=
			IZMI	1143.2	1143.4	III	G	2	30	170	
			POTS	1143.2	1143.7	III	G	3	40X	170U	
			POTS	1300.4	1300.6	III	G	2	110U	275	
			SVTO	1345.0	1346.0	III		1	35	63	S=2 C=
			POTS	1350.8	1352.1	III	G	2	110U	170U	
			POTS	1511.7	1511.9	III	G,U	2	110U	170U	
			POTS	1601.5	1602.0	III	G,RS	2	40X	170U	
			SGMR	1801.0	1804.0	V		2	30	60	S=2 C=
	2006	2400	HIRA								
	2040	2400	CULG	2106.0	2106.0	III	B	1	35	90	
			CULG	2222.0	2222.0	III	B	1	30	90	
			CULG	2321.0	2346.0	III	N	1	23	90	
			LEAR	2321.0	0006.0	III	N	2	30	80	S=2 C=
			PALE	2321.0	0015.0	III	N	1	25	55	S=2 C=
12	0000	0740	CULG	0000.0E	0007.0	III	N	1	23	90	
			CULG	0102.0	0103.0	III	G	1	23	120	
			LEAR	0102.0	0102.0	III		2	30	80	S=2 C=
			PALE	0102.0	0102.0	III		1	25	55	S=2 C=
	0000	0911	HIRA	0102.0	0103.0	III	B	1	30	140	
			CULG	0121.0	0122.0	III	G	1	23	90	
			LEAR	0121.0	0122.0	III		2	30	65	S=2 C=
			PALE	0121.0	0122.0	III		1	25	85	S=2 C=
			HIRA	0130.0	0132.0	III	G	2	25X	160	
			LEAR	0130.0	0131.0	III		3	30	80	S=2 C=
			PALE	0130.0	0131.0	III		1	25	175	S=2 C=
			CULG	0131.0	0132.0	III	G	2	20	180	
			CULG	0153.0	0153.0	III	B	1	23	90	
			LEAR	0153.0	0153.0	III		2	30	80	S=2 C=
			LEAR	0350.0	0353.0	III		2	30	65	S=2 C=
			CULG	0351.0	0353.0	III	G	1	30	90	
			LEAR	0515.0	0516.0	III		2	30	65	S=2 C=
			SVTO	0515.0	0545.0	III	N	1	35	83	S=2 C=
	0558	1200	IZMI	0515.6	0516.4	III	G	2	45U	95U	
			CULG	0516.0	0517.0	III	G	1	40	90	
	0522	1639	ONDR								
			IZMI	0543.6	0544.8	III	G	1	45U	95U	
			LEAR	0544.0	0545.0	III		1	30	50	S=2 C=
	0454	1700	POTS	0554 E	1700 U	I	S,C,DC	3	40X	400	
			IZMI	0602.0U	0850.0U	I	N	1	200	260	
			CULG	0622.0	0646.0	III	N	2	28	140	
			HIRA	0622.0	0628.0	III	G	2	50	500	
			LEAR	0622.0	0645.0	III	N	2	30	80	S=2 C=
			SVTO	0622.0	0646.0	III	N	2	35	85	S=2 C=
			IZMI	0622.1	0623.6	III	GG	2	25	170	
			POTS	0622.3	0646.3	III	GG	3	40X	650	
			IZMI	0624.0	0624.7	III	GG,FS	2	25X	270X	
			IZMI	0624.8	0625.4	III	GG	2	45	245	
			IZMI	0625.1	0626.5	CONT		2	45	160	
			IZMI	0626.9	0627.9	III	GG,FS	2	25X	270X	
			IZMI	0627.1	0628.5	CONT		2	45	270X	
			IZMI	0630.8	0631.8	III	G	2	45	250	
			POTS	0631.9	0637.1	II	SH	3	80	200U	
			CULG	0632.0	0640.0	II	FN	1	35	90	ESS 500
			CULG	0632.0	0641.0	II	SH	1	60	160	
			HIRA	0632.0	0637.0	II	FN	2	50	70	ESS 600
			HIRA	0632.0	0640.0	II	SH	2	70	150	ESS 600
			IZMI	0632.0	0640.2	II	HARM	2	45	175	
			LEAR	0632.0	0640.0	II		1	35	75	ESS 0400 S=2 C=
			SVTO	0632.0	0640.0	II		1	40	85	ESS 0600 S=2 C=
			IZMI	0632.5	0636.0	III	G	2	35	270X	

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12			IZMI	0640.3	0644.3	III	G	2	45	215	
			POTS	0640.6	0641.0	III	G	2	110U	140	
			POTS	0641.9	0646.3	III	G	3	40X	250	
			HIRA	0645.0	0646.0	III	B	1	50	140	
			IZMI	0645.4	0645.7	III	G	2	25	215	
			IZMI	0739.2	0739.4	III	B	1	45	95	
			SVTO	0744.0	0745.0	III		1	35	85	S=2 C=
			IZMI	0744.9	0745.7	III	G	2	35	160	
			POTS	0744.9	0745.7	III	G	3	40X	170U	
			LEAR	0745.0	0745.0	III		1	30	80	S=2 C=
			POTS	0808.2	0822.1	III	GG	3	40X	170U	
			HIRA	0819.0	0821.0	III	G	2	40	140	
			LEAR	0819.0	0821.0	III		3	30	80	S=2 C=
			SVTO	0819.0	0821.0	III		2	35	85	S=2 C=
			IZMI	0819.3	0821.5	III	GG	2	25X	160	
			IZMI	0820.0U	1200.0D	III	N	1	45	95	
			IZMI	0844.6	0847.0	I	GG,DC	2	95	165	
			IZMI	0853.0U	1200.0D	I	S	2	50	270	
			POTS	0900.8	0908.8	III	G,RS	3	40X	170U	
			LEAR	0901.0	0901.0	III		2	30	65	S=2 C=
			SVTO	0901.0	0931.0	III	N	1	35	85	S=2 C=
			IZMI	0901.2	0901.6	III	G	2	25X	135	
			IZMI	0905.0	0907.0	III	G	2	25X	170	
			LEAR	0905.0	0907.0	III		2	30	80	S=2 C=
			IZMI	0930.5	0931.0	III	G	2	35	215	
			POTS	0930.5	0930.9	III	G	3	40X	250	
			SVTO	1020.0	1100.0	III	N	2	35	85	S=2 C=
			IZMI	1021.0	1021.7	III	GG	2	25	260	
			POTS	1021.1	1021.8	III	G	3	40X	275	
			POTS	1035.6	1037.2	III	GG	2	40X	250	
			IZMI	1035.7	1036.9	III	G	2	30	170	
			IZMI	1047.2	1049.3	III	GG,FS	2	45	95	
			SVTO	1116.0	1425.0	CONT		1	35	85	S=2 C=
			SGMR	1229.0	1514.0	CONT		2	30	80	S=2 C=
			POTS	1229.3	1230.2	III	G	3	40X	300	
	1415	1700	BLEN								
			POTS	1459.2	1500.6	III	G	2	40X	90U	
			SVTO	1513.0	1529.0	III	N	1	35	75	S=2 C=
			POTS	1513.2	1514.8	III	G	2	40X	170U	
			POTS	1639.8	1650.7	III	GG	3	40X	380	
			SGMR	1640.0	1643.0	V		2	30	60	S=2 C=
			SVTO	1640.0	1642.0	III		1	35	85	S=2 C=
	2005	2400	HIRA								
	2040	2400	CULG								
13	0000	0740	CULG								
	0000	0900	HIRA								
			LEAR	0008.0	0009.0	III		2	30	60	S=2 C=
	0520	1642	ONDR								
	0630	1700	BLEN								
	0511	1607	POTS	0630.3	0630.4	III	B	1	110U	170U	
			POTS	0747.8	0748.8	III	G	1	325	500	
	0547	1147	IZMI	0836.1	0836.6	III	G	1	45	95	
			SVTO	0856.0	0856.0	III		1	35	61	S=2 C=
			IZMI	0856.3	0856.6	III	B	1	35	110	
			POTS	0856.4	0856.6	III	B	1	40X	170U	
			POTS	1204	1607 U	I	S	1	110U	170U	
			SGMR	1254.0	1258.0	III		2	30	80	S=2 C=
			SVTO	1254.0	1258.0	III		1	35	81	S=2 C=
			POTS	1254.6	1258.8	III	G	2	40X	325	
			SVTO	1508.0	1523.0	III	N	1	35	85	S=2 C=
			SGMR	1509.0	1513.0	III		2	30	60	S=2 C=
			POTS	1511.0	1513.3	III	G	2	40X	170U	
			SGMR	1713.0	1714.0	III		1	30	60	S=2 C=
			PALE	1923.0	1923.0	III		1	25	55	S=2 C=
			SGMR	1923.0	1923.0	III		1	30	80	S=2 C=
			LEAR	2311.0	2312.0	III		1	35	70	S=2 C=
	2004	2400	HIRA	2312.0	2313.0	III	B	1	25X	200	

S O L A R R A D I O E M I S S I O N
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APRIL 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
14	0000	0912	HIRA								
			LEAR	0145.0	0228.0	CONT		1	30	80	S=2 C=
			LEAR	0254.0	0530.0	CONT		1	50	80	S=2 C=
			LEAR	0422.0	0423.0	III		3	30	75	S=2 C=
			SVTO	0509.0	0755.0	CONT		1	60	85	S=2 C=
	0454	1706	POTS	0515 E	1706 U	I	S	2	110U	170U	
			LEAR	0530.0	0530.0	III		1	30	50	S=2 C=
			SVTO	0555.0	0604.0	III		1	35	85	S=2 C=
			LEAR	0603.0	0604.0	III		2	30	55	S=2 C=
			IZMI	0603.6	0604.1	III	G	2	45	120	
			POTS	0603.7	0604.1	III	G	2	40X	170U	
	0604	1200	IZMI	0604.0E	1200.0D	I	N	2	45	170	
	0529	1643	ONDR	0812.3	0814.4	DCIM		1	2000X	4500	
			IZMI	0833.6	0833.7	III	B	1	50	85	
	0850	1700	BLEN								
			SVTO	0852.0	0923.0	III	N	1	35	83	S=2 C=
			IZMI	0852.1	0852.8	III	G	1	30	120	
			POTS	0852.3	0902.7	III	GG,RS	2	40X	250	
			IZMI	0900.8	0902.6	III	GG	2	40	160	
			POTS	0917.6	0921.7	III	G	3	40X	170U	
			IZMI	0917.7	0918.2	III	G	2	30	160	
			IZMI	0918.0	0918.3	V		2	35	80	
			LEAR	0918.0	0920.0	III		2	30	80	S=2 C=
			IZMI	0918.9	0919.2	III	B	2	45	160	
			IZMI	0920.4	0920.6	III	G	2	30	175	
			IZMI	1002.7	1002.8	III	B	1	50	65	
			SVTO	1051.0	1111.0	III	N	1	35	85	S=2 C=
			IZMI	1052.6	1052.9	III	G	2	35	145	
			POTS	1052.6	1053.2	III	G	2	40X	170U	
			IZMI	1108.7	1110.4	III	GG	2	30	230	
			POTS	1109.0	1115.0	III	GG	3	40X	275	
			IZMI	1109.6	1110.5	V	G	2	45	120	
			POTS	1109.9	1110.6	V		2	40X	70	
			IZMI	1113.7	1114.9	III	GG	1	55	165	
	2003	2400	HIRA	2241.0	2242.0	III	B	1	170	260	
			HIRA	2331.0	2337.0	III	G	1	25X	100	
			LEAR	2331.0	2336.0	III		2	30	80	S=2 C=
			PALE	2332.0	2336.0	III		1	25	75	S=2 C=
			LEAR	2344.0	0954.0	III	N	2	30	80	S=2 C=
15			PALE	0006.0	0323.0	III	N	1	25	65	S=1 C=
	0000	0913	HIRA	0006.0	0012.0	III	G	1	30	110	
			HIRA	0025.0	0026.0	III	B	1	30	120	
	0125	0730	CULG	0132.0	0132.0	III	B	1	25	90	
			CULG	0255.0	0259.0	III	G	2	23	170	
			HIRA	0257.0	0259.0	III	G	1	30	140	
			CULG	0300.0	0301.0	III	G	1	28	260	
			CULG	0302.0	0730.0D	III	N	1	28	170	
			CULG	0345.0	0346.0	III	G	2	23	130	
			HIRA	0345.0	0346.0	III	B	1	30	120	
	0454	1707	POTS	0454 E	1707 U	I	S,C,DC	2	40X	450	
	0604	1200	IZMI	0549.0U	1200.0D	III	N	1	45	180	
			SVTO	0553.0	0613.0	III	N	2	35	85	S=2 C=
			IZMI	0557.8	0558.2	III	G	2	45U	95U	
			IZMI	0604.0U	1200.0D	I	S,C	2	45	270	
			CULG	0605.0	0613.0	III	GG	2	25	260	
			HIRA	0607.0	0614.0	III	G	3	50	200	
	0600	1700	BLEN	0607.6	0609.2	III	G	1	221	550X	
			IZMI	0607.7	0613.3	III	GG	2	25X	270X	
			POTS	0607.7	0613.3	III	GG	3	40X	400	
			SVTO	0625.0	1547.0	CONT		1	35	85	S=2 C=
			CULG	0704.0	0705.0	III	G	2	23	180	
			HIRA	0704.0	0712.0	III	G	2	30	160	
			LEAR	0704.0	0705.0	III		3	30	80	S=2 C=
			SVTO	0704.0	0712.0	III		2	35	85	S=2 C=
			POTS	0704.4	0712.2	III	GG	3	40X	250	
			IZMI	0704.5	0712.2	III	GG	2	25X	260	
			POTS	0705.9	0706.4	DCIM		2	375	750	
			POTS	0748.3	0801.3	III	GG	3	40X	400	

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
15			IZMI	0748.4	0751.3	III	GG	2	30	165	
			BLEN	0758.0	0759.6	III	GG	1	380	550X	
			HIRA	0758.0	0800.0	III	G	2	40	500	
			LEAR	0758.0	0800.0	III		3	30	80	S=2 C=
			POTS	0758.0	0800.3	DCIM		3	375	700	
			SVTO	0758.0	0800.0	III		2	35	U	S=2 C=
			SVTO	0758.0	0800.0	III		2	35	85	S=2 C=
	0517	1644	ONDR	0758.4	0800.1	DCIM	GG,SP	3	800X	1845	
			IZMI	0758.7	0800.5	III	GG	2	25X	270X	
			IZMI	0758.8	0800.7	CONT		1	45	90	
			IZMI	0810.0	0812.9	III	G	2	40	175	
			BLEN	0824.8	0845.0	DCIM	C	3	380	550X	
			IZMI	0838.9	0841.3	III	G	2	35	145	
			POTS	0912.1	0919.6	III	GG	3	40X	90U	
			IZMI	0912.8	0915.0	III	GG	2	25X	180	
			IZMI	0916.1	0917.5	III	G	2	25X	45	
			IZMI	0919.0	0919.5	III	G,FS	2	25X	45	
			POTS	0926.0	0945.4	III	GG,C	3	40X	700	
			IZMI	0926.6	0927.0	III	G	2	25X	185	
			IZMI	0928.3	0929.0	III	G	2	35	120	
			ONDR	0929.4	0936.4	DCIM	G,W	1	2000X	4500X	
			ONDR	0929.4	0936.5	DCIM	G	1	800X	2000X	
			IZMI	0929.5	0930.6	III	G	2	40	270X	
			IZMI	0934.4	0945.3	III	G	2	25X	110	
			LEAR	0935.0	0936.0	III		3	30	80	S=2 C=
			SVTO	0935.0	0945.0	III		2	35	85	S=2 C=
			IZMI	0935.2	0937.0	III	GG	3	25X	270X	
			IZMI	0937.8	0942.6	III	GG	2	30	120	
			IZMI	0939.2	0940.4	III	GG	3	25X	270	
			IZMI	1010.9	1018.7	III	GG	2	25X	150	
			POTS	1010.9	1035.6	IV	P	3	40X	800X	
			SVTO	1011.0	1110.0	III	N	3	35	85	S=2 C=
			ONDR	1012.4	1025.2	DCIM	GG,SP	2	800X	2000X	
			ONDR	1012.4	1025.4	DCIM	GG	2	2000X	4500X	
			SGMR	1016.0	1025.0	III	N	2	30	80	S=3 C=
			BLEN	1016.1	1018.7	DCIM	P	2	220X	550X	
			IZMI	1016.1	1017.4	III	GG	3	25X	270X	
			IZMI	1016.1	1018.4	V	G,FS	2	25X	250	
			IZMI	1020.2	1026.5	III	S	2	145	270X	
			IZMI	1021.5	1025.3	I	GG,DC	2	40	85	
			IZMI	1022.0	1023.5	III	G	2	25X	95	
			IZMI	1025.3	1026.5	III	G	2	25X	65	
			IZMI	1026.4	1034.0U	CONT		2	200	270X	
			IZMI	1029.0	1029.4	III	G	2	25X	90	
			IZMI	1034.6	1036.1	III	G	2	200	270X	
			SGMR	1109.0	1110.0	III		1	30	70	S=3 C=
			IZMI	1109.9	1110.2	III	B	2	25X	160	
			POTS	1109.9	1112.4	III	G	3	40X	170U	
			IZMI	1112.2	1112.6	III	G	2	50	170	
			SGMR	1214.0	1929.0	III	N	3	30	80	S=2 C=
			SVTO	1214.0	1224.0	III		2	35	85	S=2 C=
			ONDR	1214.4	1215.3	DCIM	G,SP	2	800X	2000X	
			POTS	1214.6	1234.2	III	G	3	40X	800X	
			SVTO	1318.0	1319.0	III		1	36	65	S=2 C=
			POTS	1339.1	1343.7	IV	P	3	40X	800X	
			ONDR	1339.5	1342.3	DCIM	G,SP	2	800X	2000X	
			SVTO	1340.0	1343.0	III		3	35	85	S=2 C=
			BLEN	1340.1	1342.4	III	GG	1	220X	550X	
			ONDR	1340.1	1342.1	DCIM	G	2	2000X	4500X	
			SVTO	1418.0	1419.0	III		2	35	85	S=2 C=
			POTS	1418.9	1419.7	III	G	3	40X	170U	
			SVTO	1439.0	1538.0	III	N	2	35	85	S=2 C=
			POTS	1439.4	1447.9	IV	P	3	40X	750	
			BLEN	1440.0	1441.3	III	G,RS	2	220X	300	
			ONDR	1440.2	1444.5	DCIM	GG,SP	2	800X	2000X	
			ONDR	1440.2	1445.1	DCIM	G	1	2000X	4500X	
			SVTO	1635.0	1635.0	III		1	35	74	S=2 C=
			PALE	1704.0	1816.0	III	N	1	25	180	S=2 C=
			SVTO	1704.0	1705.0	III		1	35	70	S=2 C=

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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
15			PALE	1858.0	1929.0	III	N	1	25	95	S=2 C=
			SGMR	1858.0	1901.0	V		2	30	80	S=3 C=
	2040	2400	CULG	2040.0E	2125.0	I	S	1	80	170	
			CULG	2101.0	2206.0	III	N	1	23	160	
			CULG	2137.0	2141.0	III	G	3	23	500	
			PALE	2137.0	2141.0	III		2	25	180	S=2 C=
			SGMR	2137.0	2140.0	III		3	30	80	S=2 C=
	2001	2400	HIRA	2137.0	2141.0	III	G	3	25X	500	
			CULG	2154.0	2155.0	III	G	2	25	180	
16			LEAR	0010.0	0015.0	III		3	30	80	S=2 C=
			PALE	0010.0	0014.0	III		2	25	U	S=2 C=
	0000	0725	CULG	0010.0	0015.0	III	GG	3	20	300	
	0000	0914	HIRA	0010.0	0015.0	III	G	3	25X	300	
			LEAR	0213.0	0216.0	III		1	30	50	S=2 C=
			CULG	0214.0	0310.0	III	N	1	23	180	
			LEAR	0230.0	0230.0	III		1	30	45	S=2 C=
			LEAR	0247.0	0248.0	III		3	30	70	S=2 C=
			PALE	0247.0	0248.0	III		1	25	70	S=2 C=
			HIRA	0305.0	0310.0	III	G	1	50	160	
			LEAR	0305.0	0310.0	III		1	30	65	S=2 C=
			LEAR	0335.0	0335.0	III		2	30	47	S=2 C=
			HIRA	0400.0	0405.0	III	G	1	25X	150	
			CULG	0401.0	0405.0	III	G	1	23	150	
			LEAR	0401.0	0404.0	III		2	30	67	S=2 C=
	0515	1647	ONDR								
	0454	1710	POTS	0518	1710 U	I	S,C,DC	2	40X	300	
			LEAR	0525.0	0526.0	III		1	30	56	S=2 C=
			SVTO	0525.0	0526.0	III		1	38	85	S=2 C=
			POTS	0525.6	0526.3	III	G	3	110U	170U	
			IZMI	0551.8	0600.5	III	S,C	2	25X	270X	
			LEAR	0554.0	0603.0	III		3	30	80	S=2 C=
			SVTO	0554.0	0603.0	III		2	35	85	S=2 C=
	0549	1200	IZMI	0554.0	1200.0D	I	N,C	1	60	220	
			POTS	0554.6	0604.3	III	GG,C,RS	3	40X	500	
			CULG	0555.0	0603.0	III	GG	3	25	260	
			HIRA	0555.0	0603.0	III	G	2	25X	180	
	0550	1715	BLEN	0556.5	0603.4	III	GG,RS	2	220X	380	
			IZMI	0601.3	0603.9	III	GG	2	25X	270X	
			POTS	0605.0	0641.4	IV		3	110U	450	
			CULG	0606.0	0641.0	IV		3	100	460	
			IZMI	0606.0U	0640.0U	CONT	FS	2	95	270X	
			CULG	0636.0	0637.0	III	G	3	30	90	
			HIRA	0636.0	0637.0	III	B	2	30	80	
			LEAR	0636.0	0637.0	III		3	30	80	S=2 C=
			SVTO	0636.0	0637.0	III		2	35	85	S=2 C=
			IZMI	0636.4U	0637.4	III	GG,C	2	25X	270X	
			POTS	0636.4	0636.8	III	G	3	40X	500	
			POTS	0636.8	0637.4	V		2	40X	65	
			IZMI	0640.7	0640.9	III	B	1	45	95	
			LEAR	0802.0	0809.0	III		2	30	80	S=2 C=
			SVTO	0802.0	0826.0	III	N	2	35	85	S=2 C=
			IZMI	0802.8	0803.1D	III	B	1	25	100	
			IZMI	0809.0	0809.6	III	GG,FS	2	25	165	
			POTS	0809.1	0809.7	III	G	2	40X	250	
			LEAR	0820.0	0826.0	III		1	30	80	S=2 C=
			IZMI	0820.6	0820.9	III	B	1	25X	90	
			POTS	0820.7	0826.3	III	G	2	40X	90U	
			IZMI	0826.1	0826.3	III	G	1	30	135	
			SVTO	0909.0	0910.0	III		1	36	46	S=2 C=
			IZMI	0909.1	0909.3	III	B	1	25X	45	
			IZMI	0950.3	0950.5	III	B	1	45	90	
			SVTO	1239.0	1246.0	III		1	35	74	S=2 C=
			SGMR	1241.0	1303.0	III	N	2	30	60	S=2 C=
			SVTO	1300.0	1345.0	CONT		1	35	71	S=2 C=
			POTS	1300.6	1310.8	III	GG	2	40X	170U	
			POTS	1313.2	1322.8	UNCLF	P	3	120	250	
	2000	2400	HIRA								
	2040	2400	CULG	2040.0E	2115.0	I	S	1	130	180	

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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
16			CULG	2050.0	2052.0	III	G	1	35	100	
			CULG	2250.0	2400.0D	I	S	1	80	170	
17	0000	0500	HIRA								
	0000	0725	CULG	0000.0E	0725.0D	I	S	1	50	180	
			CULG	0457.0	0503.0	III	GG	2	23	180	
			LEAR	0457.0	0506.0	V		2	30	80	S=2 C=
			SVTO	0457.0	0503.0	III		1	35	85	S=2 C=
			CULG	0506.0	0509.0	III	G	1	40	100	
	0513	1647	ONDR								
	0548	1200	IZMI	0548.0E	1200.0D	I	S	1	55	270	
			IZMI	0552.0U	1200.0D	III	N	1	45	90	
	0454	0828	POTS	0554 E	0828 U	I	S,C,DC	2	110U	400	
			IZMI	0621.2	0621.3	III	B	2	45	75	
	0550	1715	BLEN	0735.9	0736.6	III	GG	2	220X	350	
			IZMI	0842.4	0842.5	III	G	1	50	95	
	1042	1539	POTS	1042 E	1539 U	I	S,C,DC	2	110U	400	
			IZMI	1115.6	1116.1	III	G	2	50	215	
			POTS	1115.8	1116.3	III	G	2	40X	250	
			IZMI	1128.0	1128.9	III	GG	1	50	260	
			POTS	1128.0	1128.6	III	G	2	40X	250	
			POTS	1214.9	1216.9	III	G	3	40X	170U	
			POTS	1223.8	1224.0	III	B	2	40X	90U	
			SGMR	1302.0	1302.0	III		1	35	55	S=2 C=
			SVTO	1302.0	1302.0	III		1	35	62	S=2 C=
			POTS	1302.3	1302.7	III	G	2	40X	170U	
			SVTO	1411.0	1709.0	CONT		1	35U	85U	S=2 C=
			SGMR	1727.0	1732.0	V		2	30	80	S=2 C=
			PALE	1923.0	1923.0	III		1	25	61	S=2 C=
			SGMR	1923.0	1924.0	III		1	30	50	S=2 C=
	2040	2400	CULG	2040.0E	2400.0D	I	S	1	80	170	
			CULG	2203.0	2207.0	III	G	1	25	180	
			PALE	2203.0	2203.0	III		1	25	93	S=2 C=
			SGMR	2203.0	2203.0	III		1	30	65	S=2 C=
	1959	2400	HIRA	2203.0	2204.0	III	B	1	25X	200	
			CULG	2254.0	2259.0	III	G	2	23	180	
			HIRA	2254.0	2256.0	III	G	1	25X	180	
			LEAR	2255.0	2255.0	III		1	35	60	S=2 C=
			CULG	2350.0	2351.0	III	G	1	23	100	
18	0000	0720	CULG	0000.0E	0720.0D	I	S	1	70	170	
			CULG	0031.0	0037.0	III	G	3	18	200	
			LEAR	0031.0	0036.0	III		3	30	80	S=2 C=
			PALE	0031.0	0034.0	III		1	25	156	S=2 C=
	0000	0915	HIRA	0031.0	0037.0	III	G	1	25X	230	
			LEAR	0111.0	0111.0	III		1	30	60	S=2 C=
			LEAR	0213.0	0214.0	III		1	30	55	S=2 C=
			CULG	0435.0	0528.0	III	N	1	35	180	
	0454	1710	POTS	0500	1710 U	I	S,C,DC	2	110U	400	
			SVTO	0527.0	0529.0	III		1	37	58	S=2 C=
			LEAR	0528.0	0529.0	III		2	30	49	S=2 C=
			CULG	0607.0	0608.0	III	G	1	25	80	
			LEAR	0607.0	0608.0	III		1	30	54	S=2 C=
			SVTO	0607.0	0715.0	III	N	1	35	85	S=2 C=
	0625	1219	IZMI	0625.0E	1219.0D	I	S	2	75	245	
			LEAR	0650.0	0808.0	III	N	2	30	80	S=2 C=
			IZMI	0650.7	0651.8	III	G	1	45	95	
			CULG	0714.0	0715.0	III	G	1	30	95	
			IZMI	0714.3	0715.2	III	GG	2	45	95	
			IZMI	0716.9	0717.0	III	G	2	45	95	
			IZMI	0718.4	0718.9	III	G	2	45	95	
			IZMI	0743.1	0743.7	III	G	1	45	95	
			ONDR	0800.5	0804.1	DCIM	GG	2	800X	2000X	
			HIRA	0801.0	0807.0	III	G	2	40	230	
			SVTO	0801.0	0809.0	III		3	35	85	S=2 C=
			IZMI	0801.6	0802.8	III	G	2	25X	265	
			POTS	0801.6	0808.7	III	GG	3	40X	700	
			LEAR	0803.0	0804.0	III		3	30	80	S=2 C=
			IZMI	0803.1	0804.6	III	GG	2	25X	270X	

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18	0511	1648	ONDR	0803.1	0804.3	DCIM		1	2000X	4500X	
			IZMI	0804.8	0810.4	III	GG	2	25	270X	
			IZMI	0822.7	0822.8	III	B	1	45	95	
			IZMI	0929.0	0929.1	III	B	1	45	65	
			IZMI	1000.5	1000.6	III	B	1	45	70	
			IZMI	1005.1	1005.2	III	B	1	55	120	
			POTS	1045.5	1046.5	III	G	2	40X	140	
			POTS	1058.3	1113.4	III	GG	2	40X	170U	
			IZMI	1059.0	1059.2	III	B	1	50	135	
			IZMI	1110.1	1115.0	III	N	1	45	95	
			POTS	1125	1428	III	N	1	40X	90U	
			SVTO	1139.0	1428.0	III	N	2	35	83	S=2 C=
			IZMI	1141.2	1142.6	III	G	2	35	180	
			POTS	1141.3	1201.2	III	GG,C	3	40X	500	
			IZMI	1143.5	1148.5	III	GG	2	25	270X	
	0550	1400	BLEN	1143.7	1143.9	III	G	3	220X	500	
			SGMR	1145.0	1153.0	III		2	30	80	S=2 C=
			IZMI	1149.2	1153.5	III	GG	2	25	250	
			ONDR	1149.4	1152.5	DCIM	G	2	2000X	4500X	
			ONDR	1149.5	1151.1	DCIM	GG	2	800X	1827	
			SGMR	1159.0	1201.0	II		2	34	48	ESS 0600 S=2 C=
			SVTO	1159.0	1201.0	II		1	35	47	ESS 1000 S=2 C=
			IZMI	1159.5	1201.1	III	G	2	35	65X	
			POTS	1312.5	1332.1	III	GG	3	40X	500	
			SGMR	1313.0	1428.0	III	N	2	30	80	S=2 C=
			SGMR	1408.0	1412.0	III		3	30	80	S=2 C=
			SVTO	1408.0	1412.0	III		2	35	85	S=2 C=
			ONDR	1408.3	1412.1	DCIM	G	1	800X	2000X	
			POTS	1408.9	1412.6	III	GG	3	40X	600	
			ONDR	1409.0	1413.0	DCIM	G	1	2000X	4500X	
			SGMR	1545.0	1545.0	III		1	30	60	S=2 C=
			SVTO	1545.0	1545.0	III		1	36	85	S=2 C=
			POTS	1545.2	1545.4	III	B	2	40X	170U	
	1958	2400	HIRA								
	2045	2400	CULG	2045.0E	2400.0D	I	S	1	100	160	
			PALE	2254.0	2256.0	III		1	25	118	S=2 C=
19	0000	0720	CULG	0000.0E	0720.0D	I	S	1	110	150	
			CULG	0004.0	0205.0	III	N	1	30	160	
			LEAR	0112.0	0115.0	III		2	30	80	S=2 C=
	0000	0916	HIRA	0112.0	0116.0	III	G	1	25X	120	
			CULG	0113.0	0116.0	III	G	2	20	180	
			HIRA	0159.0	0202.0	III	G	2	25X	140	
			LEAR	0159.0	0206.0	III		3	30	80	S=2 C=
			CULG	0200.0	0203.0	III	G	3	18	180	
			HIRA	0212.0	0215.0	III	G	2	50	70	
			CULG	0213.0	0215.0	III	G	3	30	90	
			LEAR	0213.0	0214.0	III		2	30	80	S=2 C=
			CULG	0324.0	0409.0	III	N	1	25	180	
			LEAR	0401.0	0408.0	III		1	30	65	S=2 C=
			LEAR	0443.0	0444.0	III		1	55	70	S=2 C=
			CULG	0444.0	0444.0	III	B	1	60	180	
	0454	1712	POTS	0506 E	1712 U	I	S,C,DC	3	40X	550	
	0509	1650	ONDR								
			LEAR	0511.0	0533.0	III	N	3	30	80	S=2 C=
			CULG	0512.0	0514.0	III	G	3	23	180	
			SVTO	0512.0	0609.0	III	N	2	35	85	S=2 C=
			HIRA	0513.0	0514.0	III	G	2	50	130	
			POTS	0513.3	0514.0	III	G,C	3	40X	400	
			CULG	0520.0	0522.0	III	G	1	30	150	
			CULG	0528.0	0533.0	III	GG	2	23	180	
			HIRA	0528.0	0534.0	III	G	2	50	220	
			POTS	0528.8	0533.2	III	GG	3	40X	700	
			LEAR	0553.0	0609.0	V		2	30	80	S=2 C=
			CULG	0554.0	0608.0	III	GG	1	25	700	
	0554	1200	IZMI	0554.0U	0950.0U	I	S	1	85	245	
			POTS	0554.3	0558.1	DCIM		2	400	700	
			IZMI	0554.7	0609.1	III	S	2	25	270X	
			HIRA	0555.0	0558.0	III	G	2	50	140	

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19			POTS	0555.1	0602.8	III	G,C	3	40X	500	
			IZMI	0634.0U	1200.0D	III	N	2	40	95	
			CULG	0650.0	0653.0	III	G	1	35	180	
			IZMI	0650.0	0652.7	III	GG	2	25	165	
			LEAR	0650.0	0652.0	III		1	30	70	S=2 C=
			POTS	0650.0	0652.5	III	GG	2	40X	170U	
			SVTO	0724.0	0729.0	III		1	35	85	S=2 C=
			LEAR	0725.0	0729.0	V		2	30	80	S=2 C=
			IZMI	0725.1	0729.1	III	GG,DC	2	25X	110	
			POTS	0725.5	0727.7	III	G	2	40X	90U	
			HIRA	0726.0	0729.0	III	G	1	50	80	
			POTS	0804	1431	III	N	1	40X	90U	
			SVTO	0804.0	0809.0	III		1	35	85	S=2 C=
			IZMI	0806.0	0808.6	III	GG	1	25X	95	
			LEAR	0806.0	0808.0	III		1	30	55	S=2 C=
			IZMI	0845.7	0848.7	UNCLF	FS	2	200	270X	
			POTS	0845.7	0848.8	DCIM	P	2	200U	500	
	0730	1715	BLEN	0847.3	0848.4	III	GG	2	220X	500	
			HIRA	0848.0	0849.0	III	B	1	220	420	
			SVTO	0850.0	0906.0	III	N	1	35	58	S=2 C=
			POTS	0903.6	0906.4	DCIM		2	200U	650	
			BLEN	0903.8	1520.0	III	GG,N	2	220X	550X	
			IZMI	0903.9	0905.9	III	S	2	200	270X	
			HIRA	0904.0	0905.0	III	B	1	160	500	
			IZMI	0905.6	0905.9	III	B	2	25X	65	
			POTS	0905.7	0905.9	III	B	2	40X	60	
			SVTO	0937.0	1107.0	III	N	2	35	85	S=2 C=
			POTS	0939.9	0958.9	III	GG,C	3	40X	600	
			IZMI	0940.0	0945.0	III	GG,FS	2	25X	270X	
			LEAR	0942.0	0944.0	III		1	30	80	S=2 C=
			IZMI	0945.0U	1200.0D	I	S,C	2	50	270X	
			IZMI	0948.0U	0959.0	III	S,C	2	25X	260	
			IZMI	1002.3	1006.7	I	GG,DC	2	55	90	
			POTS	1101.7	1101.8	III	B	1	200U	360	
			IZMI	1130.4	1130.7	III	B	2	45	90	
			SGMR	1155.0	1156.0	III		1	30	80	S=2 C=
			SVTO	1155.0	1234.0	III	N	2	35	85	S=2 C=
			POTS	1155.6	1157.3	III	G,C	3	40X	350	
			IZMI	1155.7	1157.3	III	G	2	25X	270X	
			POTS	1212.9	1215.8	III	G	3	40X	500	
			SGMR	1213.0	1215.0	III		1	30	80	S=2 C=
			POTS	1219.2	1233.8	III	GG,C	3	40X	800X	
			SGMR	1229.0	1231.0	III		3	30	80	S=2 C=
			SVTO	1342.0	1343.0	III		1	37U	60U	S=2 C=
			SGMR	1430.0	1431.0	III		1	30	70	S=2 C=
			SVTO	1430.0	1608.0	III	N	2	35	85	S=2 C=
			POTS	1430.3	1430.7	III	B	3	40X	170U	
			SGMR	1517.0	1521.0	V		1	30	75	S=2 C=
			POTS	1517.2	1518.6	III	G	2	40X	90U	
			SGMR	1634.0	1634.0	III		1	30	50	S=2 C=
			PALE	1813.0	1820.0	III		1	25	130	S=2 C=
			SGMR	1813.0	1954.0	III	N	1	30	80	S=2 C=
			PALE	1950.0	1954.0	III		1	25	55	S=2 C=
			SGMR	2150.0	2151.0	III		1	30	60	S=2 C=
			PALE	2151.0	2151.0	III		1	25	65	S=2 C=
			LEAR	2257.0	2306.0	III		2	30	80	S=2 C=
			SGMR	2257.0	2307.0	III		1	30	80	S=2 C=
	1956	2400	HIRA	2257.0	2259.0	III	G	2	25X	500	
	2155	2400	CULG	2257.0	2300.0	III	G	1	23	120	
			CULG	2306.0	2307.0	III	G	1	28	80	
			HIRA	2306.0	2307.0	III	B	1	25X	80	
20			LEAR	0057.0	0123.0	III	N	2	30	80	S=1 C=
			LEAR	0057.0	0123.0	III	N	2	30	80	S=1 C=
			PALE	0057.0	0436.0	III	N	1	25	180	S=2 C=
			LEAR	0208.0	0213.0	III		3	30	80	S=2 C=
	0000	0917	HIRA	0210.0	0211.0	III	B	3	25X	600	
	0000	0715	CULG	0211.0	0212.0	III	G	2	18	150	
			LEAR	0237.0	0238.0	III		1	30	45	S=2 C=

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20			HIRA	0310.0	0311.0	III	B	1	50	120	
			LEAR	0310.0	0311.0	III		1	30	80	S=2 C=
			LEAR	0332.0	0337.0	III		1	30	50	S=2 C=
			HIRA	0421.0	0422.0	III	B	1	25X	120	
			LEAR	0421.0	0423.0	III		2	30	80	S=2 C=
			CULG	0422.0	0424.0	III	G	1	30	80	
			LEAR	0440.0	0950.0	III	N	2	30	80	S=2 C=
			CULG	0442.0	0445.0	III	G	1	30	80	
			HIRA	0442.0	0443.0	III	B	1	25X	80	
			SVTO	0442.0	0444.0	III		1	35	85	S=3 C=
	0454	1710	POTS	0454 E	1710 U	I	S,C,DC	3	40X	400	
			SVTO	0526.0	0534.0	III		1	45	85	S=2 C=
			SVTO	0537.0	0730.0	CONT		1	35	85	S=3 C=
			SVTO	0537.0	0730.0	CONT		1	60	85	S=2 C=
	0607	1200	IZMI	0551.0E	1200.0D	III	N	2	45	90	
			POTS	0600.3	0600.6	DCIM		2	200U	450	
			IZMI	0607.0E	1200.0D	I	S,C	2	40	270	
			POTS	0626	1641	III	N	1	40X	90U	
			IZMI	0626.3	0628.0	III	GG	2	25X	160	
			POTS	0626.6	0627.1	III	G	2	200U	400	
			IZMI	0630.0	0632.1	I	GG,DC	2	120	145	
			IZMI	0631.8	0632.5	III	GG	2	45	125	
			IZMI	0700.5	0701.1	III	G	2	35	70	
			IZMI	0740.3	0741.0	III	GG	2	45	100	
			IZMI	0745.2	0745.5	I	GG,DC	2	95	160	
			IZMI	0745.2	0745.5	III	G,FS	2	45	175	
			IZMI	0750.7	0753.0	III	GG	2	45	135	
			SVTO	0805.0	1522.0	CONT		1	35	85	S=2 C=
			IZMI	0808.5	0808.7	III	G	2	35	65	
			IZMI	0817.0	0817.8	III	G	2	25	75	
			IZMI	0829.5	0832.2	I	GG,DC	2	75	105	
			IZMI	0851.0	0851.2	III	G	2	35	65	
			IZMI	0855.5	0855.7	III	G	2	25X	95	
			POTS	0855.5	0855.8	III	G	3	40X	500	
	0545	1715	BLEN	0855.6	0855.8	III	G	2	220X	450	
			IZMI	0900.1	0901.8	III	G	2	30	95	
			IZMI	0916.1	0916.7	III	G	2	30	95	
			IZMI	1011.6	1011.8	III	G,HARM	2	25X	95	
			POTS	1011.6	1012.0	III	B	2	40X	90U	
	0623	1651	ONDR	1027.0	1031.1	DCIM	G	1	2000X	4100	
			IZMI	1032.8	1036.8	II		2	55	95	
			IZMI	1035.5	1035.8	III	GG	2	70	270X	
			IZMI	1036.4	1036.8	III	G,FS	2	50	120	
			IZMI	1046.0	1047.1	III	G	2	30	95	
			POTS	1046.0	1047.2	III	G	2	40X	90U	
			IZMI	1055.9	1056.1	III	B	2	45	100	
			POTS	1056.0	1107.0	III	GG,C	3	40X	700	
			IZMI	1058.9	1106.4	III	S	2	25	270X	
			SVTO	1059.0	1106.0	III		1	35	85	S=2 C=
			SGMR	1100.0	1106.0	III	N	2	30	70	S=3 C=
			SGMR	1100.0	1106.0	V		1	30	70	S=3 C=
			BLEN	1100.1	1100.7	III	GG	2	300	450	
			IZMI	1141.7	1153.7	III	S	2	45	145	
			POTS	1141.8	1153.7	III	GG	2	40X	90U	
			SGMR	1346.0	1347.0	III		1	30	60	S=2 C=
			SGMR	1405.0	1405.0	III		1	30	70	S=2 C=
			POTS	1405.3	1405.5	III	B	3	40X	125	
			POTS	1424.6	1424.8	III	B	2	40X	120	
			SGMR	1437.0	1437.0	III		1	30	73	S=2 C=
			SVTO	1437.0	1442.0	III		2	35	85	S=2 C=
			POTS	1437.7	1442.3	III	G	3	40X	400	
			SGMR	1441.0	1442.0	III		2	30	80	S=2 C=
			SGMR	1507.0	1509.0	III		1	30	65	S=2 C=
			POTS	1507.8	1509.5	III	G	2	40X	90U	
			SGMR	1631.0	1638.0	III		1	30	55	S=2 C=
			SVTO	1636.0	1638.0	III		1	49	85	S=2 C=
			PALE	1639.0	1730.0	III	N	2	25	180	S=2 C=
			SGMR	1801.0	2216.0	III	N	3	30	80	S=2 C=
	2045	2400	CULG	2045.0E	2400.0D	I	S	1	80	180	

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20			CULG	2051.0	2358.0	III	S	1	25	160	
			PALE	2055.0	0132.0	III	N	1	25	90	S=2 C=
			CULG	2111.0	2119.0	II	UE	1	35	65	
			PALE	2113.0	2119.0	II		1	36	62	ESS 0700 S=2 C=
			SGMR	2113.0	2120.0	II		3	30	80	ESS 0600 S=2 C=
	1955	2400	HIRA	2214.0	2217.0	III	G	1	25X	130	
			CULG	2238.0	2240.0	III	G	2	30	120	
			HIRA	2238.0	2240.0	III	G	1	25X	130	
			CULG	2343.0	2344.0	III	G	3	23	90	
			HIRA	2343.0	2344.0	III	B	1	25X	70	
			LEAR	2343.0	0112.0	III	N	2	30	80	S=2 C=
21			CULG	0000.0E	0715.0D	I	S	1	80	180	
	0000	0715	CULG	0000.0	0003.0	III	G	2	18	180	
	0000	0918	HIRA	0000.0	0002.0	III	G	1	25X	80	
			CULG	0008.0	0009.0	III	G	2	30	90	
			CULG	0030.0	0105.0	III	N	1	20	180	
			CULG	0049.0	0050.0	III	G	3	20	420	
			HIRA	0049.0	0057.0	III	G	2	25X	500	
			LEAR	0049.0	0056.0	III		3	30	80	S=2 C=
			CULG	0055.0	0056.0	III	G	3	20	180	
			LEAR	0202.0	0210.0	III		1	30	40	S=2 C=
			SVTO	0422.0	1640.0	CONT		1	35	85	S=2 C=
	0434	1718	POTS	0503 E	1718 U	I	S,C,DC	2	40X	400	
			LEAR	0534.0	0544.0	III	N	1	30	50	S=2 C=
	0545	1715	BLEN								
	0548	1200	IZMI	0548.0E	1200.0D	I	S,C	2	60	270	
			IZMI	0602.0U	0930.0U	III	N	1	45	90	
	0623	1652	ONDR								
			LEAR	0700.0	0703.0	III		1	30	40	S=2 C=
			IZMI	0752.3	0753.0	III	G	2	25	95	
			IZMI	0754.6	0754.8	III	G,FS	2	35	60	
			POTS	0755	1553	III	N	1	40X	90U	
			IZMI	0845.3	0846.9	III	G	2	25X	95	
			LEAR	0846.0	0850.0	III		2	30	80	S=2 C=
			POTS	0846.8	0847.0	III	B	2	40X	90U	
			IZMI	0850.3	0850.7	III	G	2	40	90	
			IZMI	0921.9	0929.6	III	S	2	25X	215	
			POTS	0921.9	0929.2	III	GG,C	3	40X	300	
			SVTO	0922.0	0929.0	III		2	35	85	S=2 C=
			LEAR	0923.0	0928.0	III		2	30	80	S=2 C=
			IZMI	0930.2	0938.7	III	N	2	30	95	
			IZMI	0940.8	1200.0U	III	N	1	45	95	
			IZMI	1014.7	1019.5	III	G	2	30	95	
			POTS	1017.5	1019.6	III	G	2	40X	90U	
			IZMI	1024.4	1025.2	III	G	2	40	95	
			IZMI	1124.4	1124.6	III	G	2	40	100	
			POTS	1124.4	1141.4	III	GG	3	40X	140	
			SGMR	1135.0	1343.0	III	N	2	30	80	S=2 C=
			IZMI	1135.2	1135.9	III	G	2	25	145	
			IZMI	1137.9	1141.5	III	GG	2	30	95	
			IZMI	1155.1	1158.8	III	GG	2	45	120	
			POTS	1217.7	1233.2	III	GG	3	40X	170U	
			SVTO	1257.0	1318.0	III	N	2	35	85	S=2 C=
			POTS	1300.6	1312.1	III	GG	3	40X	300	
			SGMR	1434.0	1434.0	III		1	30	65	S=2 C=
			SGMR	1452.0	1612.0	III	N	2	30	80	S=2 C=
			POTS	1453.1	1454.4	III	G	2	40X	170U	
			POTS	1519.9	1538.6	III	GG	3	40X	350	
			SGMR	1700.0	1703.0	III		1	30	65	S=2 C=
			SGMR	1800.0	1803.0	III		1	30	65	S=2 C=
			PALE	1801.0	0356.0	III	N	1	25	70	S=2 C=
			SGMR	1834.0	1836.0	III		1	30	50	S=2 C=
			SGMR	1910.0	1927.0	III	N	2	30	80	S=2 C=
			SGMR	2006.0	2008.0	III		1	30	55	S=2 C=
			SGMR	2033.0	2038.0	V		2	30	80	S=2 C=
	1953	2400	HIRA	2033.0	2040.0	III	G	2	25X	160	
	2045	2400	CULG	2045.0E	2347.0	I	S	1	70	170	
			CULG	2112.0	2130.0	III	N	2	35	180	

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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
21			CULG	2200.0	2323.0	III	N	1	23	180	
			HIRA	2258.0	2259.0	III	B	1	30	200	
			HIRA	2326.0	2335.0	III	G	2	25X	240	
			LEAR	2326.0	2342.0	III	N	2	30	80	S=2 C=
			CULG	2327.0	2335.0	III	GG	3	23	180	
			CULG	2335.0	2345.0	UNCLF		1	35	60	
22			LEAR	0027.0	0027.0	III		1	30	55	S=2 C=
	0000	0715	CULG	0027.0	0357.0	III	N	1	30	180	
			LEAR	0138.0	0146.0	III		2	30	65	S=2 C=
			LEAR	0221.0	0356.0	III	N	2	30	80	S=2 C=
			CULG	0240.0	0242.0	III	G	3	18	200	
	0000	0919	HIRA	0240.0	0242.0	III	G	2	25X	210	
			CULG	0253.0	0301.0	III	GG	3	18	350	
			HIRA	0259.0	0330.0	III	G	1	30	120	
			HIRA	0316.0	0323.0	III	G	2	25X	110	
			CULG	0317.0	0319.0	III	G	3	18X	130	
			CULG	0355.0	0356.0	III	G	2	28	130	
			HIRA	0355.0	0356.0	III	B	1	30	110	
	0434	1636	POTS	0434 E	1636 U	I	S	1	110U	350	
			LEAR	0518.0	0523.0	III		2	30	60	S=2 C=
			SVTO	0519.0	0601.0	III	N	2	35	85	S=2 C=
			CULG	0520.0	0523.0	III	G	1	23	80	
			POTS	0521	1602	III	N	1	40X	90U	
			POTS	0535.7	0535.8	III	G	2	200U	375	
			POTS	0538.3	0545.9	III	G	2	110U	170U	
	0545	1715	BLEN								
			IZMI	0548.0E	0610.0U	III	N	1	45	95	
	0548	1200	IZMI	0548.0E	1200.0D	I	N	2	200	270	
			IZMI	0550.3	0556.0	III	GG,C	2	25X	270	
			CULG	0551.0	0555.0	III	G	3	23	180	
			HIRA	0551.0	0555.0	III	G	3	25X	170	
			LEAR	0551.0	0606.0	III	N	3	30	80	S=2 C=
			POTS	0551.5	0601.9	III	GG,C	3	40X	450	
			CULG	0556.0	0603.0	III	G	1	28	160	
			IZMI	0556.0U	0618.0U	I	S	2	45	95	
			IZMI	0601.1	0601.9	III	G	2	45	150	
	0623	1655	ONDR								
			SVTO	0707.0	0707.0	III		1	35	52	S=2 C=
			POTS	0724.2	0724.4	III	G,U	2	150	170U	
			POTS	0811.6	0812.2	III	G	3	40X	170U	
			IZMI	0811.9	0812.2	III	G,FS	2	45	160	
			IZMI	0822.2	0825.7	III	G,FS,C	2	25	95	
			LEAR	0823.0	0825.0	III		1	30	65	S=2 C=
			SVTO	0823.0	0825.0	III		1	35	63	S=2 C=
			POTS	0823.4	0825.7	III	G	2	40X	65	
			POTS	0829.9	0830.1	III	B	2	40X	70	
			IZMI	0929.9	0930.1	III	G	2	30	95	
			SVTO	0930.0	0930.0	III		1	35	63	S=2 C=
			IZMI	1043.8	1045.1	III	G	1	45	95	
			IZMI	1148.6	1149.1	III	G	1	45	95	
			POTS	1148.6	1149.9	III	G	2	40X	150	
			POTS	1207.9	1211.5	III	G	2	40X	170U	
			SGMR	1209.0	1211.0	III		1	30	60	S=2 C=
			SVTO	1209.0	1210.0	III		1	36	62	S=2 C=
			SGMR	1316.0	1334.0	III	N	2	30	80	S=2 C=
			SVTO	1317.0	1334.0	III	N	2	35	85	S=2 C=
			POTS	1317.3	1334.2	III	GG,RS	3	40X	170U	
			SGMR	1524.0	1656.0	III	N	1	30	60	S=2 C=
			SVTO	1524.0	1604.0	III	N	1	35	85	S=2 C=
			POTS	1541.5	1541.9	UNCLF		2	40X	55	
			PALE	1850.0	1857.0	III		2	25	U	S=2 C=
			SGMR	1850.0	1855.0	III		3	30	80	S=2 C=
	1952	2400	HIRA								
	2045	2400	CULG	2215.0	2215.0	III	B	1	30	260	
			CULG	2222.0	2225.0	III	G	2	30	170	
			PALE	2224.0	2233.0	III		1	25	87	S=2 C=
			CULG	2229.0	2235.0	III	GG	3	28	170	
			SGMR	2233.0	2233.0	III		1	30	80	S=2 C=

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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
22			LEAR	2326.0	2342.0	III	N	2	30	80	S=3 C=
23			LEAR	0114.0	0121.0	III		3	30	80	S=2 C=
			PALE	0115.0	0213.0	III	N	2	25	150	S=2 C=
	0000	0710	CULG	0115.0	0120.0	III	G	3	20	180	
	0000	0920	HIRA	0115.0	0117.0	III	G	1	25X	120	
			CULG	0121.0	0132.0	III	GG	2	28	180	
			LEAR	0122.0	0132.0	III		2	30	80	S=2 C=
			LEAR	0140.0	0141.0	III		1	30	47	S=2 C=
			CULG	0141.0	0141.0	III	B	1	35	90	
			CULG	0213.0	0213.0	III	B	1	30	90	
			LEAR	0213.0	0213.0	III		1	30	45	S=2 C=
	0434	0753	POTS	0434 E	0753 U	I	S,C	2	110U	300	
			CULG	0510.0	0511.0	III	G	1	28	80	
			SVTO	0510.0	0511.0	III		1	35	62	S=2 C=
			POTS	0513.2	0513.4	III	G,RS	2	200U	400	
	0545	1715	BLEN								
	0557	1200	IZMI	0603.0	0604.9	III	G	1	75	120	
	0619	1654	ONDR								
			IZMI	0715.0U	1200.0D	I	N	1	135	270	
			IZMI	0716.4	0719.5	III	GG	2	40	170	
			POTS	0716.7	0719.5	III	G,RS	2	40X	170U	
			SVTO	0717.0	0719.0	III		1	35	85	S=2 C=
			IZMI	0733.0U	0811.0U	III	N	1	45	90	
	0807	1703	POTS	0807 E	1703 U	I	S.C,DC	2	110U	300	
			IZMI	0826.5	0826.6	III	B	2	45	120	
			POTS	0826.5	0826.7	III	B	1	40X	150	
			IZMI	0849.5	0854.4	III	GG	2	25	270X	
			HIRA	0851.0	0852.0	III	B	1	80	170	
			SVTO	0851.0	0855.0	III		1	35	66	S=2 C=
			POTS	0851.4	0854.5	III	G	3	40X	280	
			IZMI	0911.7	0911.9	III	B	1	45	95	
			IZMI	0943.6	0943.7	III	B	1	45	90	
			IZMI	1031.0	1033.9	III	G	1	45	95	
			SVTO	1102.0	1102.0	III		1	36	72	S=2 C=
			IZMI	1102.3	1102.6	III	G	2	25	145	
			POTS	1102.3	1102.7	III	G	2	40X	170U	
			POTS	1125	1315	III	N	1	40X	90U	
			IZMI	1125.4	1127.4	III	G	2	50	125	
			IZMI	1133.9	1134.0	III	B	1	45	135	
			SVTO	1224.0	1324.0	III	N	1	35	70	S=2 C=
			POTS	1319.6	1322.2	III	GG,RS	2	40X	250	
			SGMR	1321.0	1322.0	III		1	30	55	S=2 C=
			SVTO	1519.0	1523.0	III		1	35	85	S=2 C=
			SVTO	1601.0	1601.0	III		1	35U	85U	S=2 C=
	1951	2400	HIRA								
			SGMR	2016.0	2016.0	III		1	30	80	S=2 C=
	2045	2400	CULG	2219.0	2333.0	I	S	1	100	180	
24	0000	0855	HIRA								
	0000	0710	CULG	0300.0	0710.0D	I	S	1	110	180	
	0434	1726	POTS	0434 E	1726 U	I	S,C,DC	2	110U	300	
			CULG	0452.0	0455.0	III	G	1	28	90	
			LEAR	0452.0	0456.0	III		1	30	50	S=2 C=
	0530	1730	BLEN								
	0618	1656	ONDR								
	0618	1200	IZMI	0618.0E	1200.0D	I	S	1	55	260	
			SVTO	0624.0	1045.0	CONT		1	35	85	S=2 C=
			POTS	0645.8	0645.9	III	B	2	110U	170U	
			IZMI	0747.0U	1200.0D	III	N	1	45	95	
			LEAR	0755.0	0755.0	III		1	30	50	S=2 C=
			IZMI	0755.4	0755.6	III	B,FS	2	35	180	
			POTS	0755.4	0755.7	III	B	2	40X	225	
			IZMI	0807.4	0807.7	III	B	1	40	95	
			IZMI	1013.7	1014.5	III	G	2	145	235	
			POTS	1013.7	1014.6	III	G,UG	3	145	400	
			POTS	1030	1337	III	N	1	40X	90U	
			IZMI	1101.9	1102.1	III	G,FS	1	40	90	
			POTS	1101.9	1102.2	III	B	2	40X	170U	

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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
24			POTS	1149.7	1152.0	III	G,C	2	110U	300	
			POTS	1253.9	1256.2	III	G,U	2	40X	170U	
			SGMR	1256.0	1256.0	III		1	30	70	S=2 C=
			POTS	1327.2	1327.3	III	B	2	110U	170U	
			SVTO	1555.0	1603.0	III		1	35	85	S=2 C=
			POTS	1555.3	1602.9	III	GG,C	3	40X	250	
			SGMR	1556.0	1602.0	V		2	30	60	S=2 C=
			PALE	1957.0	2000.0	V		2	25	150	S=2 C=
			SGMR	1957.0	2000.0	V		2	30	80	S=2 C=
	2045	2400	CULG	2045.0E	2400.0D	I	S	1	110	180	
	2103	2400	HIRA								
			CULG	2347.0	2348.0	III	G	1	40	130	
25	0000	0922	HIRA								
	0000	0710	CULG	0000.0E	0000.0D	I	S	1	60	160	
			CULG	0015.0	0041.0	III	N	1	20	180	
			CULG	0041.0	0710.0D	III	S	1	20	180	
			LEAR	0219.0	0727.0	CONT		1	30	80	S=2 C=
			PALE	0219.0	0220.0	III		1	25	58	S=2 C=
	0434	1724	POTS	0438	1724 U	I	S,C,DC	3	40X	300	
			LEAR	0456.0	0456.0	III		2	30	80	S=2 C=
			LEAR	0502.0	0503.0	III		3	30	80	S=2 C=
			SVTO	0502.0	0503.0	III		1	35	85	S=2 C=
			POTS	0502.7	0503.0	III	B	3	40X	160	
			SVTO	0503.0	1640.0	CONT		1	35	85	S=2 C=
	0530	1730	BLEN								
			POTS	0535.8	0535.9	III	B	3	40X	250	
			IZMI	0548.0E	1200.0D	III	N	1	40	95	
	0548	1200	IZMI	0548.0E	1200.0D	I	S,C	2	55	270X	
	0618	1657	ONDR								
			POTS	0910	1557	III	N	1	40X	90U	
			IZMI	0939.1	0939.3	III	B	1	40	95	
			IZMI	0942.2	0942.4	III	B	1	40	65	
			IZMI	1009.2	1009.3	III	B	1	40	65	
			IZMI	1012.3	1013.7	III	GG	2	25X	240	
			POTS	1012.3	1013.9	III	G	2	40X	250	
			IZMI	1017.0	1017.2	III	B	2	40	95	
			POTS	1124.8	1125.0	III	B	2	40X	70	
			POTS	1222.7	1222.9	III	B	2	40X	70	
			SGMR	1247.0	1329.0	III	N	2	30	80	S=2 C=
			POTS	1317.9	1318.2	III	B	2	40X	90U	
			POTS	1329.2	1329.7	III	G	2	40X	90U	
			SGMR	1409.0	1412.0	III		1	30	70	S=2 C=
			SGMR	1442.0	1501.0	III	N	1	30	65	S=2 C=
			SGMR	1557.0	1717.0	III	N	1	30	55	S=2 C=
	2050	2400	CULG	2050.0E	2400.0D	III	S	1	28	180	
			PALE	2114.0	2207.0	III	N	2	25	150	S=2 C=
			SGMR	2204.0	2207.0	III		2	30	80	S=2 C=
	1949	2400	HIRA	2204.0	2207.0	III	G	2	25X	240	
			CULG	2205.0	2208.0	III	G	3	23	180	
			CULG	2306.0	2308.0	III	G	2	23	120	
			HIRA	2306.0	2307.0	III	B	2	25X	140	
26	0000	0710	CULG	0000.0E	0710.0D	III	S	1	28	180	
			LEAR	0007.0	0946.0	CONT		1	30	80	S=2 C=
			CULG	0151.0	0350.0	I	S	1	100	160	
			LEAR	0250.0	0250.0	III		2	30	65	S=2 C=
			LEAR	0304.0	0304.0	III		2	30	50	S=2 C=
			CULG	0350.0	0535.0	I	S	2	70	170	
			SVTO	0417.0	0728.0	CONT		1	35	85	S=2 C=
			LEAR	0433.0	0434.0	III		2	30	80	S=2 C=
	0434	1726	POTS	0434 E	1726 U	I	S,C,DC	3	40X	400	
	0530	1730	BLEN								
			CULG	0535.0	0710.0D	I	S	1	70	170	
			POTS	0556.4	0556.5	DCIM		2	350	550	
			IZMI	0600.0U	1200.0D	III	N	2	25	180	
	0600	1200	IZMI	0600.0E	1200.0D	I	S,C	2	45	270X	
	0618	1700	ONDR								
			CULG	0627.0	0630.0	III	G	3	28	130	

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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
26			LEAR	0627.0	0631.0	III		3	30	80	S=2 C=
			SVTO	0627.0	0630.0	III		2	35	85	S=2 C=
	0000	0923	HIRA	0627.0	0630.0	III	G	1	30	80	
			POTS	0627.2	0630.0	III	G	2	40X	150	
			IZMI	0627.3	0628.2	III	GG,C	2	25X	270X	
			IZMI	0629.6	0630.1	III	G,C	2	25X	95	
			POTS	0633	1520	III	N	1	40X	90U	
			LEAR	0730.0	0730.0	III		3	30	80	S=2 C=
			POTS	0730.3	0730.7	III	B	2	40X	90U	
			IZMI	0730.4	0730.6	III	B	2	25X	95	
			SVTO	0745.0	1655.0	CONT		1	35	85	S=2 C=
			IZMI	0846.5	0846.7	III	G	2	55	180	
			IZMI	0911.9	0912.0	III	G,FS	2	40	65	
			IZMI	1010.6	1016.8	III	G	2	25	65	
			POTS	1016.0	1017.2	III	G	2	40X	90U	
			SGMR	1123.0	2115.0	CONT		1	30	80	S=2 C=
			PALE	1917.0	0438.0	CONT		1	25	180	S=2 C=
			CULG	2050.0E	2323.0	I	S	1	60	130	
	2050	2400	CULG	2050.0E	2400.0D	III	S	1	28	180	
			CULG	2323.0	2400.0D	I	S	2	80	160	
			LEAR	2328.0	0945.0	CONT		2	30	80	S=2 C=
			PALE	2337.0	2338.0	III		1	25	90	S=2 C=
			CULG	2338.0	2338.0	III	B	2	23	120	
			LEAR	2338.0	2338.0	III		2	30	80	S=2 C=
	1948	2400	HIRA	2338.0	2339.0	III	B	2	25X	120	
27			CULG	0000.0E	0710.0D	I	S	2	60	160	
	0000	0710	CULG	0000.0E	0710.0D	III	S	1	28	180	
			CULG	0343.0	0351.0	III	GG	2	18	150	
	0000	0924	HIRA	0343.0	0349.0	III	G	1	25X	140	
	0434	1043	POTS	0434 E	1043 U	I	S,C,DC	3	40X	400	
	0530	1730	BLEN	0550.3	0550.7	III	GG, RS	2	440	550X	
			POTS	0550.4	0550.8	DCIM		1	325	650	
	0618	1700	ONDR								
			IZMI	0628.5	0628.6	III	G,HARM	2	25	65	
			POTS	0650.6	0651.1	DCIM		2	325	800X	
			IZMI	0702.0E	1200.0D	III	S	2	30U	120U	
	0602	1200	IZMI	0702.0E	1200.0D	I	S,C	2	40U	270X	
			IZMI	0817.9	0818.2	III	G	2	25	95	
			IZMI	0908.2	0908.4	III	G	2	25	65	
			IZMI	0936.5	0936.9	III	G	2	30	65	
			IZMI	1010.5	1010.7	III	G	2	30	60	
	1058	1655	POTS	1058 E	1655 U	I	S,C,DC	3	40X	400	
			SGMR	1136.0	2158.0	CONT		2	30	80	S=2 C=
			IZMI	1136.1	1136.3	III	G,RS	2	30	45	
			POTS	1457.8	1458.0	III	G	2	150	325	
			POTS	1629.1	1629.2	III	B	3	110U	340	
			PALE	1640.0	0245.0	CONT		1	25	180	S=2 C=
	1947	2400	HIRA								
			CULG	2050.0E	2400.0D	III	S	1	23	180	
	2050	2400	CULG	2050.0E	2400.0D	I	S	2	60	180	
			PALE	2059.0	2100.0	III		1	25	60	S=2 C=
			LEAR	2338.0	0904.0	CONT		1	30	80	S=2 C=
28			CULG	0000.0E	0710.0D	III	S	1	20	300	
	0000	0710	CULG	0000.0E	0710.0D	I	S,C	2	80	160	
			CULG	0116.0	0117.0	III	G	2	23	140	
	0000	0925	HIRA	0116.0	0117.0	III	B	1	25X	140	
			CULG	0316.0	0318.0	III	G	2	40	180	
			HIRA	0316.0	0318.0	III	G	1	40	160	
			SVTO	0431.0	1720.0	CONT		1	35	85	S=2 C=
	0434	1726	POTS	0434 E	1726 U	I	S,C,DC	3	40X	400	
	0530	1730	BLEN								
	0614	1703	ONDR								
	0614	1200	IZMI	0614.0E	1200.0D	I	S,C	2	45	270X	
			POTS	0742	1632	III	N	1	40X	90U	
			IZMI	0744.4	0745.6	III	GG	2	25	240	
			IZMI	0754.5	0754.9	III	B	2	25	120	
			IZMI	0813.1	0813.3	III	G	2	25X	180	

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

APRIL 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
28			POTS	0813.2	0813.4	III	B	2	40X	140	
			IZMI	0835.2	0837.9	III	GG	2	25	270	
			POTS	0835.5	0837.3	III	G	2	40X	170U	
			LEAR	0856.0	0858.0	III		3	30	80	S=2 C=
			SVTO	0856.0	0858.0	V		2	35	85	S=2 C=
			HIRA	0857.0	0858.0	III	B	2	30	240	
			IZMI	0857.3	0858.1	III	GG	2	25X	270X	
			POTS	0857.3	0857.9	III	G	3	40X	380	
			POTS	0912	1220	III	N	2	40X	90U	
			IZMI	0914.0E	1200.0D	III	N	2	25	180U	
			IZMI	0947.9	0949.4	III	B	2	25	95	
			IZMI	0951.3	0954.5	III	GG	2	25X	100	
			IZMI	1001.1	1001.8	III	GG	2	25X	180	
			IZMI	1006.9	1009.8	III	GG	2	25X	170	
			IZMI	1022.6	1023.3	III	GG	2	40	270X	
			IZMI	1025.8	1026.1	III	G	2	40	100	
			SGMR	1117.0	1119.0	III		1	30	80	S=2 C=
			IZMI	1117.3	1120.5	III	G,C	2	25X	180	
			POTS	1117.3	1117.7	III	G	3	40X	250	
			SGMR	1204.0	2032.0	CONT		2	30	80	S=3 C=
			POTS	1355.2	1355.3	III	B	1	200U	360	
			PALE	1849.0	U	II		3	25	U	ESS 0500 S=3 C=
			SGMR	1851.0	1903.0	II		2	30	80	ESS 0500 S=2 C=
			PALE	2032.0	2032.0	III		1	25	80	S=2 C=
			CULG	2050.0E	2400.0D	I	S,C	1	100	170	
	2050	2400	CULG	2050.0E	2400.0D	III	S	1	23	150	
			SGMR	2210.0	2210.0	III		1	30	80	S=2 C=
			CULG	2240.0	2241.0	III	G	2	23	140	
			PALE	2240.0	2240.0	III		1	25	87	S=2 C=
			SGMR	2240.0	2240.0	III		1	30	80	S=3 C=
	1945	2400	HIRA	2240.0	2241.0	III	G	2	25X	110	
29			CULG	0000.0E	0710.0D	I	S,C	1	80	170	
	0000	0710	CULG	0000.0E	0710.0D	III	S	1	20	180	
			LEAR	0012.0	0943.0	CONT		2	32	80	S=2 C=
	0000	0926	HIRA	0038.0	0039.0	III	B	1	25X	80	
			HIRA	0258.0	0259.0	III	B	1	25X	220	
	0515	1705	ONDR								
			IZMI	0548.0E	1200.0D	III	N	2	25X	105	
	0548	1200	IZMI	0548.0E	0740.0U	I	S,C	2	85	270X	
			IZMI	0548.1	0548.4	III	G,FS	2	25X	95	
			HIRA	0549.0	0600.0	III	B	1	50	140	
			IZMI	0549.1	0549.9	III	G	2	25X	270	
			IZMI	0605.8	0606.0	III	G	2	25	95	
			IZMI	0725.2	0725.4	III	G	2	25X	55	
			IZMI	0740.0U	1200.0D	I	S,C	2	45U	270X	
			IZMI	0858.0	0902.6	III	GG	2	25X	135	
			IZMI	1105.0	1106.7	III	GG	2	25X	95	
			SGMR	1105.0	1111.0	III		1	30	80	S=2 C=
			IZMI	1107.6	1109.4	III	GG	2	25X	95	
			IZMI	1110.7	1111.2	III	GG	2	25X	95	
			SGMR	1135.0	2319.0	CONT		1	30	80	S=2 C=
	0530	1730	BLEN	1151.0	1156.0	II	H	2	220X	320	
			PALE	1811.0	2114.0	III	N	1	25	85	S=2 C=
			CULG	2050.0E	2400.0D	III	S	1	28	120	
	2050	2400	CULG	2050.0E	2400.0D	I	S,C	3	50	180	
	1943	2400	HIRA	2100.0	2400.0	I		1	60	140	
30			CULG	0000.0E	0710.0D	III	S	1	23	120	
			LEAR	0000.0	0847.0	CONT		1	30	80	S=2 C=
	0000	0710	CULG	0000.0E	0710.0D	I	S,C	2	80	180	
	0000	0926	HIRA	0000.0	0800.0	I		1	80	140	
			SVTO	0435.0	0943.0	CONT		1	35	85	S=2 C=
			IZMI	0603.0E	1200.0D	III	N	1	25	95	
	0603	1200	IZMI	0603.0E	1200.0D	I	S,C	2	50	270	
			IZMI	0740.5	0741.2	III	G,FS	2	25X	95	
			ONDR	0753.1	0753.1	DCIM	G	2	847	1311	
			IZMI	0754.7	0802.8	II	HARM	2	45	250	
			HIRA	0755.0	0803.0	II	FN	2	50	80	

SOLAR RADIO EMISSION
Spectral Observations

APRIL 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
30			HIRA	0755.0	0803.0	II	SH	2	100	140	
			LEAR	0755.0	0802.0	III		3	30	80	S=2 C=
			SVTO	0755.0	0803.0	III		3	35	85	S=2 C=
			IZMI	0755.7	0756.2	III	GG	2	40	160	
			IZMI	0756.7	0758.0	III	GG	2	30	260	
	0513	1706	ONDR	0757.1	0806.2	DCIM	GG	2	2000X	3611	
	0530	1730	BLEN	0758.0	0810.0	DCIM	P	2	300	550X	
			IZMI	0758.6	0759.9	III	GG	3	25X	120	
			BLEN	0800.4	0805.9	II		2	230	330	
			IZMI	0802.7	0807.0U	CONT		2	200	270X	
			LEAR	0805.0	U	II		2	30	80	ESS 0700 S=3 C=
			SVTO	0805.0	0810.0	II		2	36	60	ESS 0700 S=2 C=
			IZMI	0805.3	0808.9	III	GG,FS	2	35	55	
			IZMI	0824.1	0827.2	III	GG	2	25X	120	
			IZMI	1036.0U	1101.7	III	S	2	25X	95	
			SVTO	1045.0	1722.0	CONT		1	35	85	S=2 C=
			SGMR	1108.0	1111.0	III		2	30	80	S=2 C=
			IZMI	1110.0	1111.1	III	GG	2	25X	270X	
			BLEN	1110.1	1111.2	III	GG	3	220X	550X	
			SGMR	1116.0	2105.0	CONT		2	30	80	S=2 C=
			IZMI	1129.7	1129.9	III	G	2	25	270X	
			IZMI	1131.1	1131.2	III	B	2	45	65	
			IZMI	1131.8	1131.8	III	B	2	25X	45	
			SVTO	1233.0	1234.0	III		2	35	85	S=2 C=
			BLEN	1233.5	1234.6	III	GG	3	220X	550X	
			BLEN	1455.7	1456.1	III	G	3	220X	330	
			SGMR	1456.0	1456.0	III		2	30	72	S=2 C=
			SVTO	1456.0	1456.0	III		2	35	85	S=2 C=
			BLEN	1639.4	1642.7	IV	C	3	1000X	3800X	
	1942	2052	HIRA								
			CULG	2050.0E	2312.0	III	S	1	30	170	
	2050	2400	CULG	2050.0E	2400.0D	I	S	1	60	170	
			CULG	2217.0	2255.0	III	N	2	20	180	
			PALE	2223.0	0411.0	III	N	1	25	18	S=2 C=
			SGMR	2225.0	2254.0	III	N	1	30	80	S=2 C=

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