SOLAR RADIO EMISSION
Spectral Observations

SEPTEMBER 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
01	0000	0730	CULG	0001.0	0001.0	III	B	1	550	800	
			CULG	0007.0	0128.0	I	S	1	70	180	
			LEAR	0008.0	0957.0	CONT		2	34	180	
			CULG	0058.0	0252.0	III	N	1	57X	130	
			LEAR	0058.0	0059.0	III		2	25	100	
	0000	0907	HIRA	0058.5	0059.0	III	B	1	25X	100	
			CULG	0223.0	0225.0	III	G	3	57X	860	
			LEAR	0223.0	0225.0	III		3	25	180	
			HIRA	0223.5	0225.0	III	G	2	25X	900	
			CULG	0244.0	0247.0	III	G	1	550	780	
			CULG	0258.0	0259.0	III	G	2	57X	190	
			HIRA	0258.0	0259.5	III	G	1	40	210	
			LEAR	0258.0	0259.0	III		2	25	180	
			CULG	0322.0	0730.0D	I	S,C	1	100	180	
			CULG	0346.0	0346.0	III	B	1	57X	110	
			HIRA	0423.5	0424.5	III	B	1	30	280	
			CULG	0424.0	0424.0	III	B	1	57X	220	
			LEAR	0424.0	0424.0	III		2	25	179	
	0425	1744	POTS	0429 U	1744 U	I	S,N,DC	2	200U	380	100-200MHz no data
			POTS	0443.8	0451.0	DCIM		2	440	750	
			CULG	0448.0	0449.0	III	G	2	500	750	
			HIRA	0450.5	0451.0	III	B	1	90	170	
			CULG	0451.0	0451.0	III	B	1	85	180	
			SVTO	0451.0	1703.0	CONT		1	25	180	
			CULG	0510.0	0730.0D	III	N	1	57X	120	
			POTS	0511.7	0512.0	DCIM	RS	2	460	660	
			LEAR	0547.0	0548.0	III		2	25	180	
			SVTO	0547.0	0548.0	III		2	25	180	
			HIRA	0547.5	0549.0	III	G	1	30	220	
			POTS	0547.6	0548.8	III	G	2	40X	350	
			CULG	0548.0	0549.0	III	G	2	57X	180	
			POTS	0549.2	0549.4	DCIM		1	600	740	
			SVTO	0559.0	0600.0	III		2	25	180	
			POTS	0559.6	0600.5	III	G	2	40X	260	
			IZMI	0559.7	0600.9	III	G,C	2	25X	190	
			CULG	0600.0	0601.0	III	G	3	57X	150	
			IZMI	0603.0E	1200.0D	I	S,C	2	60	270X	
			IZMI	0603.0E	1200.0D	III	N	1	45U	95U	
			IZMI	0621.7	0622.0	III	G	2	45	100	
	0526	1637	ONDR	0628.4	0638.5	DCIM	G	2	1161	2000X	
	0610	1715	BLEN	0628.5	0638.9	III	GG,RS	2	1100	2000X	
			BLEN	0651.2	0659.0	III	GG,RS	3	200X	2000X	
			CULG	0654.0	0655.0	III	G	2	150	760	
			ONDR	0654.0	0659.0	DCIM	G	1	800X	2000X	
			HIRA	0654.5	0655.0	III	G	1	220	780	
			POTS	0654.5	0655.1	DCIM		2	230	770	
			IZMI	0717.9	0721.0	III	GG	2	25X	125	
			POTS	0718	1111 U	III	GG,N	1	40X	90	
			IZMI	0734.4	0734.9	III	G	2	25X	175	
			ONDR	0739.4	0741.3	DCIM	G	1	2000X	4500X	
			POTS	0829.5	0833.0	III	GG	3	40X	630	
			IZMI	0829.8	0832.5	III	GG,C	2	25X	270X	
			BLEN	0830.0	0833.0	III	GG,RS	3	200X	600	
			HIRA	0830.0	0832.5	III	G	2	30	410	
			LEAR	0830.0	0832.0	III		3	25	180	
			SVTO	0830.0	0830.0	III		2	25	180	
			ONDR	0830.1	0830.4	DCIM	G	1	2000X	4500X	
			IZMI	0844.4	0844.6	III	B	2	45	90	
			IZMI	0918.1	0920.3	III	G	1	25X	90	
			ONDR	0931.2	0931.4	DCIM	GG,SP	2	1081	1770	
			ONDR	0931.3	0931.5	DCIM		1	2391	4500X	
			POTS	1025.7	1026.2	DCIM		2	430	660	
			BLEN	1025.8	1027.1	III	GG,RS	2	400	1600	
			POTS	1030.6	1031.6	DCIM		2	200U	420	
			IZMI	1101.0	1102.8	III	GG,C	2	25X	270X	
			POTS	1101.0	1106.3	III	GG	3	40X	450	
			SVTO	1101.0	1103.0	V		3	25	180	
			SGMR	1102.0	1103.0	III		1	30	80	
			BLEN	1102.2	1102.9	III	GG	2	200X	1000	

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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
01			IZMI	1102.6	1103.6	V	G	2	25X	160	
			IZMI	1106.1	1106.3	III	B	2	25X	160	
			IZMI	1108.7	1110.4	III	G	1	25X	160	
			IZMI	1108.7	1110.4	III	G	1	25X	160	
			ONDR	1213.5	1215.5	DCIM	GG	2	1006	1648	
			BLEN	1214.5	1215.5	III	GG	2	1000	1600	
			POTS	1222	1224	III	G	1	40X	85	
			POTS	1302.8	1303.1	III	G	2	40X	85	
			HOLL	1309.0	0108.0	CONT		1	105	180	
			POTS	1318.7	1321.7	I	DC	2	200U	270	
			POTS	1324.8	1325.7	III	G	3	40X	85	
			HOLL	1325.0	1325.0	III		1	25	180	
			SGMR	1325.0	1325.0	III		1	30	80	
			SVTO	1325.0	1325.0	III		2	25	180	
			POTS	1355.5	1402.3	III	GG,N	2	40X	430	
			SGMR	1358.0	1402.0	III		1	30	50	
			SVTO	1402.0	1402.0	III		1	25	57	
			BLEN	1446.0	1450.0	III	GG	2	380	1300	
			ONDR	1446.0	1446.2	DCIM	G,SP	2	800X	1259	
			POTS	1446.0	1446.4	DCIM		2	460	800X	
			POTS	1509.9	1510.2	III	B	2	200U	470	
			POTS	1514.7	1516.4	III	G,N	1	40X	85	
			POTS	1519.8	1520.3	DCIM		1	200U	400	
			ONDR	1606.3	1606.4	DCIM	G	2	800X	1789	
			BLEN	1606.5	1606.8	III	GG, RS	2	400	1800	
			POTS	1606.5	1606.8	DCIM		2	450	780	
			PALE	1832.0	0432.0	CONT		1	25	180	
			CULG	2030.0E	2400.0D	III	S	1	57X	180	
	2030	2400	CULG	2030.0E	2400.0D	I	S,C	1	100	180	
	2009	2400	HIRA	2057.0	2058.0	III	G	2	80	800	
			CULG	2058.0	2058.0	III	G	2	80	280	
			HIRA	2233.5	2235.0	III	G	1	70	700	
			CULG	2234.0	2235.0	III	G	1	70	750	
			LEAR	2251.0	0957.0	CONT		2	25	180	
			HOLL	2314.0	2314.0	III		1	25	96	
02			CULG	0000.0E	0730.0D	III	S	1	57X	180	
	0000	0730	CULG	0000.0E	0126.0	I	S,C	1	100	180	
			HOLL	0007.0	0008.0	III		1	25	180	
			LEAR	0007.0	0008.0	III		3	25	180	
			PALE	0007.0	0008.0	III		1	38	180	
	0000	0906	HIRA	0007.5	0008.5	III	B	3	40	800	
			CULG	0008.0	0009.0	III	G	3	57X	1300	
			CULG	0012.0	0017.0	II	FN	3	57X	100	
			CULG	0012.0	0019.0	II	SH	3	60	180	ESS 750
			HIRA	0012.0	0015.0	II		2	40	210	
			LEAR	0012.0	0014.0	II		2	34	180	ESS 0703
			PALE	0012.0	0015.0	II		1	33	180	ESS 0773
			HIRA	0104.5	0106.0	III	G	1	25X	120	
			CULG	0116.0	0117.0	III	G	3	57X	280	
			LEAR	0116.0	0117.0	III		3	25	180	
			PALE	0116.0	0117.0	III		3	25	180	
			HIRA	0116.5	0117.5	III	G	3	25X	300	
			CULG	0129.0	0130.0	III	G	2	57X	380	
			HIRA	0129.0	0130.0	III	G	2	25X	600	
			HIRA	0133.5	0134.0	III	B	1	25X	430	
			CULG	0134.0	0134.0	III	B	3	57X	450	
			LEAR	0246.0	0247.0	III		3	25	180	
			HIRA	0246.5	0247.5	III	B	3	25X	430	
			CULG	0247.0	0248.0	III	G	3	57X	1200	
			CULG	0408.0	0409.0	III	G	3	57X	250	
			HIRA	0408.0	0408.5	III	B	2	30	190	
			CULG	0409.0	0730.0D	I	S,C	2	70	250	
	0427	1741	POTS	0427 E	1703 U	I	S,N,DC	2	200U	380	100-200MHz no data
			SVTO	0436.0	1701.0	CONT		2	25	180	
			IZMI	0600.0E	1200.0D	III	N	2	25X	95U	
	0600	1200	IZMI	0600.0E	1200.0D	I	S	2	80	270X	
			POTS	0648	1528 U	III	GG,N	2	40X	85	
	0610	1715	BLEN	0711.2	0720.6	III	III,U	1	200X	1800	

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02			IZMI	0713.9	0716.5	III	GG,C,FS	2	25X	270X	
			POTS	0714.7	0720.5	III	GG,N	3	40X	730	
			CULG	0715.0	0716.0	III	G	3	57X	500	
			SVTO	0715.0	0717.0	III		1	25	180	
	0528	1635	ONDR	0715.2	0720.4	DCIM	G	1	800X	1944	
			HIRA	0715.5	0716.0	III	B	1	50	700	
			IZMI	0717.2	0720.7	III	GG,FS	2	40	270X	
			CULG	0720.0	0721.0	III	G	3	57X	280	
			HIRA	0720.0	0720.5	III	B	1	50	280	
			IZMI	0734.9	0735.9	III	G	2	25X	270X	
			POTS	0734.9	0735.3	III	GG,N	3	40X	420	
			HIRA	0735.0	0735.5	III	B	1	40	290	
			IZMI	0735.0	0735.5	III	V	2	25X	90U	
			SVTO	0735.0	0735.0	III		1	25	180	
			POTS	0735.1	0735.7	V	B	3	40X	70	
			IZMI	0805.6	0806.6	III	GG	2	45	270	
			IZMI	0823.9	0824.1	III	G,C	2	40	175	
			ONDR	0824.0	0825.1	DCIM	G	1	800X	1283	
			SVTO	0841.0	1701.0	III	N	1	25	180	
			IZMI	0910.1	0916.5	III	GG	2	25X	95	
			IZMI	0954.4	0955.5	III	G	2	25X	95	
			IZMI	0954.6	0955.5	I	GG	2	85	100	
			IZMI	1007.5	1010.8	III	GG	2	25X	270X	
			POTS	1007.7	1011.5	III	GG	3	40X	420	
			IZMI	1022.0	1022.8	III	G	2	25X	90	
			IZMI	1114.0	1114.7	III	G,C	2	35	270X	
			POTS	1114.1	1114.7	III	G	3	40X	460	
			IZMI	1117.7	1124.9	III	GG	2	25X	90	
			IZMI	1155.5	1157.9	III	GG,FS	2	45	240	
			POTS	1202.3	1203.2	III	G	2	40X	330	
			SGMR	1251.0	1251.0	III		1	30	50	
			HOLL	1310.0	0107.0	CONT		1	25	180	
			HOLL	1354.0	0030.0	III	N	1	25	180	
			POTS	1419.6	1420.5	III	G	2	40X	320	
	2010	2400	HIRA								
			CULG	2030.0E	2400.0D	III	S	1	57X	180	
	2030	2400	CULG	2030.0E	2400.0D	I	S,C	2	60	170	
			LEAR	2250.0	0958.0	CONT		1	37	180	
03			CULG	0000.0E	0202.0	I	S,C	1	60	160	
	0000	0730	CULG	0000.0E	0730.0D	III	S,C	1	57X	180	
			LEAR	0001.0	0001.0	III		1	25	180	
	0000	0904	HIRA	0001.5	0002.0	III	B	1	25X	250	
			CULG	0002.0	0002.0	III	G	2	57X	190	
			HIRA	0030.5	0031.0	III	B	1	25X	230	
			CULG	0105.0	0108.0	III	G	2	57X	180	
			HIRA	0105.0	0108.5	III	G	1	25X	230	
			HIRA	0137.5	0138.0	III	B	1	25X	130	
			HIRA	0153.5	0154.5	III	G	1	150	290	
			CULG	0154.0	0154.0	III	G	1	60	260	
			CULG	0255.0	0304.0	I	S	1	140	260	
			CULG	0425.0	0425.0	III	G	2	57X	150	
			HIRA	0425.0	0425.5	III	B	1	60	140	
	0429	1739	POTS	0433 E	1739 U	I	S,N	2	200U	380	100-200MHz no data
			SVTO	0437.0	1700.0	CONT		1	25	180	
			IZMI	0600.9	0602.0	III	G	2	45	95U	
			HIRA	0604.5	0605.5	III	B	1	30	130	
			IZMI	0604.5	0605.5	III	G,C	2	25X	140	
			CULG	0605.0	0605.0	III	G	2	57X	170	
			IZMI	0605.0E	1200.0D	III	N	1	25X	95U	
	0605	1200	IZMI	0605.0E	1200.0D	I	N	2	80	240	
			IZMI	0611.7	0612.2	III	G,C	2	45	165	
			IZMI	0616.0	0623.2	III	GG	2	25X	140X	
			SVTO	0617.0	0618.0	III		2	25	180	
			IZMI	0617.5	0618.5	III	G,C	2	25X	250	
			POTS	0617.8	0618.2	III	G	2	40X	400	
			CULG	0618.0	0618.0	III	G	3	57X	240	
			HIRA	0618.0	0618.5	III	B	3	25X	220	
			POTS	0619.5	0622.5	III	G,N	2	40X	85	

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03			CULG	0626.0	0730.0D	I	S,C	1	75	160	
			IZMI	0626.5	0634.0	III	GG	2	25X	155	
			POTS	0701.1	0701.4	III	B	3	40X	85	
			CULG	0704.0	0704.0	III	B	2	57X	150	
			HIRA	0704.0	0704.5	III	B	1	25X	130	
			SVTO	0704.0	0704.0	III		2	25	82	
			IZMI	0704.1	0704.4	III	B	2	25X	140	
			POTS	0709	1528 U	III	GG,N	2	40X	85	
			IZMI	0717.6	0717.9	III	G	2	25X	155	
			IZMI	0726.2	0729.2	I	GG,DC	2	105	150	
			IZMI	0726.4	0730.8	III	GG	1	35	180	
			IZMI	0740.5	0742.4	III	GG	1	25X	270X	
			IZMI	0803.3	0803.4	III	B	2	40	90	
			IZMI	0804.8	0817.6	III	GG	2	25X	270	
			HIRA	0807.0	0811.0	III	G	1	40	210	
			IZMI	0857.2	0859.2	III	G,FS	2	25X	130	
			IZMI	0911.0	0914.6	III	G	2	25X	175	
			IZMI	0937.3	0940.7	III	GG	2	25X	160	
			SVTO	1003.0	1005.0	III		2	25	180	
			IZMI	1003.5	1004.5	III	GG,C	2	25X	270X	
	0545	1710	BLEN	1003.6	1004.6	III	GG,S	2	200X	460	
			POTS	1003.7	1005.3	III	GG	3	40X	450	
			IZMI	1004.2	1005.1	V		2	25X	160	
			IZMI	1026.1	1026.3	III	G	2	25X	95	
			IZMI	1036.9	1037.4	III	G	2	35	150	
			IZMI	1039.2	1042.3	III	GG	2	35X	270X	
			POTS	1041.2	1041.6	III	G	2	40X	400	
			SGMR	1228.0	1304.0	III	N	2	30	70	
			SVTO	1228.0	1347.0	III	N	1	25	180	
	0529	1633	ONDR	1245.0	1245.5	DCIM	G,W	1	2000X	4500X	
			POTS	1254.6	1304.4	III	GG,N	3	40X	420	
			SVTO	1256.0	1301.0	III		2	25	180	
			HOLL	1301.0	1304.0	III		1	25	153	
			SVTO	1301.0	1301.0	III		2	25	180	
			BLEN	1301.2	1301.7	III	GG	2	200X	800	
			HOLL	1413.0	0106.0	III	N	1	25	180	
			HOLL	1414.0	0106.0	CONT		1	25	180	
			SGMR	1621.0	1621.0	III		1	30	50	
			PALE	1844.0	1847.0	III		1	25	180	
			SGMR	1844.0	1847.0	V		2	30	80	
			SGMR	2008.0	2010.0	V		2	30	80	
			CULG	2030.0E	2400.0D	III	S,C	1	57X	170	
	2030	2400	CULG	2030.0E	2400.0D	I	S,C	2	75	180	
			CULG	2050.0	2052.0	III	G	3	57X	160	
			HOLL	2149.0	2153.0	III		2	25	180	
			SGMR	2149.0	2152.0	V		2	30	80	
	2011	2400	HIRA	2149.5	2153.0	III	G	2	25X	120	
			HIRA	2213.0	2217.0	III	G	1	25X	70	
			CULG	2227.0	2227.0	III	B	2	57X	90	
			HIRA	2227.0	2227.5	III	B	1	25X	100	
			HIRA	2233.5	2234.0	III	B	1	130	340	
			LEAR	2249.0	0958.0	CONT		2	25	180	
04			CULG	0000.0E	0057.0	I	S	1	65	170	
	0000	0730	CULG	0000.0E	0730.0D	III	S,C	1	57X	160	
	0000	0902	HIRA	0034.0	0034.5	III	B	1	25X	140	
			CULG	0041.0	0041.0	III	B	2	57X	180	
			HIRA	0041.0	0041.5	III	B	1	25X	140	
			CULG	0057.0	0215.0	I	S	2	60	140	
			HIRA	0119.5	0124.5	III	G	1	25X	220	
			CULG	0215.0	0730.0D	I	S	1	65	170	
			CULG	0343.0	0343.0	III	G	2	57X	330	
			HIRA	0343.0	0343.5	III	B	1	25X	220	
	0432	1735	POTS	0447 U	0523 U	I	S,N	1	200U	380	100-200MHz no data
			SVTO	0452.0	1658.0	CONT		1	25	180	
			CULG	0513.0	0513.0	III	G	3	57X	400	
			LEAR	0513.0	0515.0	III		2	25	180	
			SVTO	0513.0	0515.0	III		2	25	180	
			HIRA	0513.5	0515.5	III	G	2	25X	390	

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04			POTS	0513.5	0515.4	III	G	2	40X	420	
	0531	1631	ONDR								
			IZMI	0556.0E	1200.0D	III	N	2	25X	95U	
	0556	1200	IZMI	0556.0E	1200.0D	I	S,C	2	45U	270U	
			IZMI	0616.9	0617.7	III	G	1	200	270X	
			POTS	0634 U	1558 U	I	S,N	2	45	390	
			SVTO	0641.0	0643.0	III		1	25	50	
			IZMI	0641.6	0643.3	III	G	2	25X	60U	
			POTS	0642	0819 U	III	GG,N	2	40X	85	
			SVTO	0652.0	0842.0	III	N	1	25	180	
			HIRA	0712.5	0713.0	III	B	1	50	230	
			IZMI	0712.5	0712.8	III	G,C	2	40	270X	
			IZMI	0717.4	0718.4	III	G	2	25X	65	
	0545	1710	BLEN	0733.4	0735.8	III	GG	2	200X	400	
			HIRA	0734.5	0735.0	III	G	1	120	300	
			IZMI	0734.5	0735.1	III	GG	2	150	270X	
			IZMI	0742.9	0747.3	III	G	1	25X	160	
			IZMI	0744.7	0745.1	III	G	2	160	270X	
			IZMI	0806.6	0807.0	III	G	2	25X	65	
			IZMI	0821.2	0822.8	III	G	2	25X	60	
			IZMI	0825.3	0825.9	III	G	1	130U	230U	
			LEAR	0827.0	0828.0	III		2	25	180	
			BLEN	0827.9	0828.9	III	GG	3	200X	500	
			IZMI	0827.9	0829.1	III	GG,C	2	25X	270X	
			POTS	0827.9	0829.2	III	GG	3	40X	520	
			HIRA	0828.0	0829.0	III	G	3	30	380	
			SVTO	0828.0	0828.0	III		3	25	180	
			IZMI	0923.6	0928.7	III	GG	2	25X	65	
			IZMI	1003.6	1003.9	III	G	2	30	160	
			IZMI	1050.0	1050.1	III	B	2	220	270X	
			HOLL	1311.0	2138.0	CONT		1	74	180	
			HOLL	1416.0	1541.0	III	N	1	25	134	
			SGMR	1416.0	1427.0	III	N	1	30	55	
			SVTO	1416.0	1514.0	III	N	1	25U	180U	
			POTS	1416.3	1428.4	III	GG,N	2	40X	85	
			POTS	1628 U	1735 U	I	S,N	1	240	420	
			BLEN	1633.3	1637.3	III	G	2	200X	350	
			POTS	1634.6	1636.7	III	GG	2	200U	330	
			SVTO	1635.0	1635.0	III		1	112	180	
			HOLL	1654.0	1701.0	III		1	25	84	
			PALE	1849.0	0418.0	CONT		1	25	180	
	2030	2400	CULG	2030.0E	2400.0D	III	S,C	1	57X	160	
	2011	2400	HIRA	2137.5	2138.5	III	G	1	25X	100	
			PALE	2226.0	0348.0	CONT		1	25	88	
			HOLL	2228.0	2305.0	III	N	1	25	86	
			LEAR	2248.0	0335.0	CONT		1	25	180	
05	0000	0730	CULG	0000.0E	0730.0D	III	S,C	1	57X	160	
			HOLL	0014.0	0015.0	III		1	25	85	
	0000	0901	HIRA	0014.0	0015.0	III	G	1	25X	450	
			HOLL	0030.0	0031.0	III		1	32	86	
			CULG	0112.0	0114.0	III	G	1	57X	840	
			HIRA	0112.0	0114.0	III	G	1	25X	1100	
	0434	1733	POTS	0448	0458	I	S,N	2	200U	330	100-200MHz no data
			HIRA	0525.5	0526.0	III	B	1	100	340	
			POTS	0525.6	0525.8	III	B	2	200U	370	
			CULG	0526.0	0526.0	III	B	1	57X	300	
			POTS	0622 U	0735 U	I	S,N	2	200U	340	
	0600	1200	IZMI	0718.0	0718.1	III	B	1	50	90	
			LEAR	0728.0	0729.0	III		1	25	180	
			SVTO	0728.0	0729.0	III		1	39	180	
			IZMI	0728.8	0729.7	III	G	2	40	270X	
			POTS	0728.8	0729.8	III	GG	2	40X	370	
			CULG	0729.0	0730.0	III	G	1	57X	300	
			HIRA	0729.0	0730.0	III	G	1	50	330	
			IZMI	0731.1	0731.5	III	G	1	120	270X	
			IZMI	0748.9	0749.6	III	G	1	125	210	
			HIRA	0753.0	0754.0	III	B	1	25X	140	
			SVTO	0753.0	0802.0	III		2	25	150	

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05			IZMI	0753.2	0753.7	III	GG	2	160	270X	
			POTS	0753.3	0802.4	III	G,N	3	40X	260	
			HIRA	0802.0	0803.0	III	G	1	30	170	
			IZMI	0802.0	0803.1	III	G,FS	2	25X	175	
			LEAR	0802.0	0802.0	III		1	25	180	
			POTS	0823 U	0913 U	I	S,N	1	230	350	
			IZMI	0848.0	0848.2	III	B	1	45	95	
			IZMI	0936.2	0939.4	III	G	1	45	140	
			IZMI	0953.9	0954.2	III	G,C	2	110	270X	
			IZMI	1032.2	1033.0	III	G	2	105	190	
			IZMI	1043.7	1043.9	III	G,FS	2	50	270X	
			POTS	1043.7	1044.1	III	G	2	50	420	
			POTS	1116.8	1117.6	DCIM		2	200U	600	
			IZMI	1117.4	1117.6	III	G,C	2	200	270X	
			IZMI	1145.8	1145.9	III	G	1	110	270X	
			POTS	1222.7	1223.3	III	GG	2	200U	320	
			SVTO	1252.0	1252.0	III		2	44	180	
			POTS	1252.2	1254.7	III	GG	2	40X	420	
			HOLL	1314.0	1315.0	III		1	43	180	
			SVTO	1314.0	1315.0	III		1	44	150	
			POTS	1314.7	1315.3	III	B	2	40X	85	
			SGMR	1315.0	1315.0	III		1	45	60	
			HOLL	1349.0	1349.0	III		1	43	180	
			SVTO	1349.0	1349.0	III		1	46	180	
			POTS	1349.1	1349.4	III	B	2	45	300	
			POTS	1355	1402	I	S,N	1	200U	300	
			POTS	1428	1443	I	S,N	1	200U	320	
			POTS	1609.2	1609.6	III	G	2	200U	350	
			SVTO	1619.0	1632.0	III	N	1	28	180	
			HOLL	1620.0	1930.0	III	N	1	25	180	
			POTS	1621	1700	I	S,N	1	200U	280	
			SGMR	1621.0	1659.0	III	N	2	30	80	
	0532	1629	ONDR	1624.4	1628.5	DCIM	GG,FS	2	800X	1817	
			POTS	1628.1	1628.3	III	B	2	40X	65	
			POTS	1632	1637	DCIM		2	320	700	
			POTS	1633.5	1647	II		2	40X	250	
			PALE	1635.0	0429.0	CONT		1	25	180	
			SVTO	1635.0	1649.0	II		2	32	180	ESS 0679
			POTS	1710 U	1733 U	I	S,N	1	200U	350	
			HOLL	1947.0	1948.0	III		1	25	63	
			SGMR	1947.0	1948.0	III		1	30	55	
	2030	2400	CULG	2030.0E	2400.0	I	S	1	60	180	
			CULG	2110.0	2111.0	III	G	2	57X	160	
			SGMR	2110.0	2110.0	III		1	30	60	
	2012	2400	HIRA	2110.0	2111.0	III	B	1	30	140	
			CULG	2117.0	2150.0	III	N	1	57X	100	
			SGMR	2140.0	2140.0	III		1	30	60	
			HOLL	2144.0	2144.0	III		1	25	118	
			HIRA	2144.5	2144.5	III	B	1	25X	100	
			LEAR	2247.0	0958.0	CONT		1	25	180	
06	0000	0730	CULG	0002.0	0334.0	III	S	1	57X	160	
			CULG	0037.0	0711.0	I	S	1	75	160	
	0434	1731	POTS	0434 U	1329 U	I	S,N	2	200U	380	100-200MHz no data
			SVTO	0449.0	0709.0	CONT		1	25	180	
			CULG	0453.0	0455.0	III	G	1	57X	100	
			CULG	0512.0	0512.0	III	G	1	100	280	
	0000	0900	HIRA	0512.0	0512.5	III	G	1	110	300	
			POTS	0512.1	0515.6	III	GG,N	2	200U	400	
	0533	1626	ONDR								
			CULG	0556.0	0556.0	III	B	1	57X	90	
			IZMI	0602.0E	1110.0U	III	N	1	25X	95U	
	0602	1200	IZMI	0602.0E	1200.0D	I	N	1	50	270	
			CULG	0623.0	0624.0	III	G	1	57X	90	
			CULG	0638.0	0647.0	III	GG	1	57X	120	
			IZMI	0638.2	0644.7	III	GG	2	45	145	
			CULG	0718.0	0720.0	III	G	2	57X	180	
			LEAR	0718.0	0719.0	III		1	25	180	
			SVTO	0718.0	0719.0	III		1	25	168	

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06			IZMI	0718.4	0719.8	III	GG	2	25X	255	
			HIRA	0718.5	0720.0	III	G	1	30	220	
			POTS	0719.1	0720.4	III	GG	2	40X	320	
			IZMI	0755.6	0757.4	III	G	1	25X	120	
			SVTO	0854.0	0855.0	III		1	36	180	
			IZMI	0854.5	0855.9	III	GG,C	2	25X	270X	
			LEAR	0855.0	0855.0	III		1	25	180	
			POTS	0855.6	0857.0	III	GG	3	40X	400	
			IZMI	0914.7	0914.8	III	B	2	110	175	
			IZMI	0941.4	0941.6	III	B	1	75	155	
			IZMI	0958.3	1005.0	III	GG	1	40	160	
			IZMI	1011.1	1011.6	III	G	1	115	180	
			IZMI	1059.7	1101.9	III	G	1	45	95	
			POTS	1101.1	1101.6	III	B	2	40X	85	
			POTS	1125.3	1126.6	III	GG	2	200	520	
			IZMI	1126.8	1127.9	III	GG	1	180	270X	
			IZMI	1132.1	1132.1	III	B	1	180	270X	
	1135	1710	BLEN								
			POTS	1136.2	1136.4	III	B	2	40X	85	
			IZMI	1137.6	1137.8	III	B	2	25X	95	
			SGMR	1209.0	1210.0	III		1	30	80	
			POTS	1228.5	1231.5	III	G	2	40X	85	
			POTS	1251.8	1308 U	II		2	40X	80	
			POTS	1307.0	1308.4	III	G	2	200U	450	
			POTS	1450 U	1558 U	I	S,N	1	200U	300	
			HOLL	1623.0	1628.0	III		1	25	180	
			SVTO	1623.0	1628.0	III		1	31	162	
			POTS	1623.5	1630 U	I	S,N,DC	2	200U	270	
			POTS	1624.7	1625.1	III	B	2	40X	250	
			SGMR	1625.0	1625.0	III		1	30	60	
			POTS	1713	1730 U	I	S,N	2	200U	340	
			HOLL	2009.0	2010.0	III		1	46	180	
			PALE	2009.0	2010.0	III		1	84	180	
			PALE	2056.0	0107.0	III	N	1	25	180	
	2030	2400	CULG	2101.0	2323.0	III	N	1	57X	180	
			HOLL	2113.0	2119.0	III		1	25	135	
	2012	2400	HIRA	2113.5	2119.5	III	G	1	25X	110	
			CULG	2117.0	2120.0	III	G	2	57X	130	
			CULG	2143.0	2145.0	III	G	3	57X	280	
			HIRA	2143.0	2145.5	III	G	2	30	300	
			HOLL	2143.0	2230.0	III	N	1	25	180	
			HIRA	2158.5	2200.0	III	G	2	40	200	
			CULG	2159.0	2200.0	III	G	2	57X	180	
			LEAR	2246.0	0400.0	III	N	1	25	180	
07	0000	0730	CULG	0012.0	0100.0	III	N	1	60	140	
			CULG	0208.0	0209.0	III	G	1	57X	230	
	0000	0859	HIRA	0208.5	0209.5	III	G	1	100	300	
			CULG	0240.0	0349.0	III	N	1	57X	180	
			CULG	0416.0	0520.0	III	N	1	57X	180	
			HIRA	0436.0	0441.0	III	G	1	40	270	
			LEAR	0436.0	0441.0	III		1	25	180	
	0435	1731	POTS	0512.5	0518.8	III	G,N	2	200U	370	100-200MHz no data
			POTS	0523	1036 U	I	S,N,DC	2	200U	400	
	0535	1624	ONDR								
			CULG	0537.0	0538.0	III	G	1	65	280	
			HIRA	0537.0	0537.5	III	B	1	120	350	
			CULG	0557.0	0651.0	III	N	1	57X	180	
	0600	1200	IZMI	0600.0E	1200.0D	I	N	1	85	270X	
			IZMI	0613.0	0613.1	III	B	2	45	220	
			IZMI	0635.0U	1200.0U	III	N	1	45	95	
			IZMI	0649.7	0650.6	I	GG	2	230	270X	
			IZMI	0649.9	0650.8	III	G,FS	2	55	190	
			HIRA	0650.0	0650.5	III	B	1	80	200	
			LEAR	0650.0	0650.0	III		1	25	180	
			POTS	0717.4	0736.3	III	GG,N	3	40X	380	
			HIRA	0718.5	0736.0	III	G	2	40	300	
			IZMI	0718.8	0722.8	III	GG,U,C	2	40	270X	
			LEAR	0719.0	0740.0	III	N	2	25	180	

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07			CULG	0720.0	0728.0	III	GG	1	57X	180	
			CULG	0721.0	0722.0	III	G	3	57X	290	
			SVTO	0721.0	0721.0	III		2	25U	180U	
			IZMI	0721.2	0725.9	I	S	2		270X	
			POTS	0721.8	0722.8	V	G	3	40X	60	
			IZMI	0724.7	0728.0	III	GG,FS	2	45	180	
			IZMI	0730.5	0738.6	III	GG	2	45	270X	
			POTS	0823.0	0825.2	III	GG,N	2	200U	240	
			IZMI	0823.8	0824.8	III	GG	2	190	270X	
			IZMI	0902.9	0903.7	III	G	1	185	270	
			IZMI	0915.8	0916.0	III	B	1	45	90	
			IZMI	0919.8	0928.8	III	GG	2	25X	270X	
			LEAR	0922.0	0922.0	III		1	63	180	
			POTS	0922.5	0922.9	III	G	2	40X	420	
			IZMI	0935.8	0937.2	III	GG,C	2	110	230	
			IZMI	0940.3	0941.5	III	GG	2	45	160	
			IZMI	0951.5	0951.7	III	B,U	1	55	70	
			IZMI	1029.9	1038.8	III	GG,C	2	45	270X	
			POTS	1034.3	1035.3	III	G	1	50	85	
			IZMI	1052.0	1056.0	III	GG,FS	1	45	170	
			POTS	1112	1529 U	I	S,N,DC	2	200U	350	
			POTS	1124.6	1130.0	III	G,N	2	40X	480	
			IZMI	1127.9	1129.9	III	GG	2	45	270X	
			POTS	1354.5	1404.7	III	GG,N	2	200U	280	
			POTS	1405.4	1405.8	III	B	1	40X	80	
			POTS	1426.9	1428.2	III	G	1	50	80	
			POTS	1611 U	1652 U	I	S,N	1	200U	400	
	0550	1710	BLEN	1619.7	1621.0	DCIM	C	1	1400	2000X	
			BLEN	1619.8	1624.0	DCIM	C	1	1100	2000X	
			PALE	1621.0	1946.0	III	N	1	25	180	
			POTS	1720	1731 U	I	S,N,DC	2	200U	400U	
			POTS	1722	1729 U	III	GG	2	200U	400U	
			HOLL	1734.0	1747.0	III	N	1	25	180	
			SGMR	1734.0	1745.0	III	N	2	30	80	
			HOLL	1946.0	1946.0	III		1	25	59	
	2013	2400	HIRA								
			PALE	2105.0	2105.0	III		1	25	77	
	2030	2400	CULG	2105.0	2105.0	III	B	1	57X	90	
			CULG	2157.0	2157.0	III	B	1	57X	90	
			CULG	2204.0	2204.0	III	B	1	57X	90	
			CULG	2337.0	2337.0	III	B	1	57X	90	
08			LEAR	0038.0	0336.0	CONT		1	106	180	
	0000	0730	CULG	0039.0	0137.0	III	N	1	57X	180	
			PALE	0105.0	0342.0	CONT		1	25	180	
			LEAR	0137.0	0144.0	V		2	25	180	
			CULG	0138.0	0140.0	III	G	3	57X	300	
			PALE	0138.0	0143.0	V		3	25	180	
	0000	0857	HIRA	0138.0	0141.0	III	B	3	25X	350	
			CULG	0140.0	0142.0	V		1	60	180	
			CULG	0142.0	0144.0	III	G	2	60	280	
			CULG	0142.0	0158.0	II	SH	2	57X	260	ESS 650
			HIRA	0142.0	0158.5	II		2	50	240	
			CULG	0145.0	0147.0	III	G	1	57X	180	
			LEAR	0145.0	0202.0	II		1	41	150	ESS 0823
			CULG	0157.0	0245.0	CONT		1	57X	130	
	0437	1725	POTS	0446	0500	I	S,N	2	200U	270	100-200MHz no data
			CULG	0450.0	0450.0	III	B	1	100	180	
			POTS	0521	0748 U	I	S,N	1	200U	350	
	0536	1622	ONDR								
	0600	1200	IZMI	0612.0U	1120.0U	III	N	1	45	95	
			IZMI	0621.6	0621.8	III	G,FS	2	50	65	
			CULG	0652.0	0652.0	III	B	1	57X	130	
			IZMI	0732.8	0733.7	III	G,FS,C	1	35	90	
			IZMI	0858.1	0858.2	III	B	1	55	100	
			POTS	1030	1126	I	S,N	1	220	380	
			IZMI	1053.1	1053.3	III	G	1	110	260	
			POTS	1124	1138 U	III	GG,N	1	40X	80	
			IZMI	1124.4	1126.1	III	G	1	50	85	

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08			IZMI	1137.8	1138.0	III	G	1	30	65	
			POTS	1145	1203	I	S,N	1	200U	400	
			POTS	1229.8	1231.8	I	S	1	200U	330	
			POTS	1231.1	1211.5	III	G	2	45	300	
			POTS	1247	1253	I	S	1	200U	300	
			POTS	1250	1302	III	G,N	1	50	85	
			HOLL	1441.0	1722.0	III	N	1	25	139	
			SGMR	1441.0	1441.0	III		1	30	60	
			POTS	1441.9	1453.8	III	G	2	40X	85	
			SVTO	1442.0	1528.0	III	N	1	25	127	
			POTS	1501.6	1504.3	UNCLF		1	55	70	
			POTS	1502	1530	I	S,N	1	280	380	
	0550	1710	BLEN	1524.0	1529.3	DCIM	C	1	1400	2000X	
			POTS	1527.5	1529.4	III	GG	2	40X	280	
			SGMR	1528.0	1528.0	III		1	30	60	
			POTS	1545	1643	I	S,N	2	200U	380	
	2014	2400	HIRA								
	2030	2400	CULG	2345.0	2346.0	III	G	1	57X	150	
09	0000	0730	CULG	0019.0	0019.0	III	B	1	57X	90	
			CULG	0032.0	0032.0	III	B	1	57X	120	
			CULG	0125.0	0130.0	III	G	1	57X	180	
			LEAR	0127.0	0229.0	III	N	1	25	180	
	0000	0856	HIRA	0127.0	0129.0	III	G	1	60	170	
			HIRA	0140.5	0141.0	III	B	1	60	130	
			CULG	0141.0	0141.0	III	G	1	57X	180	
			CULG	0208.0	0209.0	III	G	1	57X	180	
			HIRA	0208.0	0209.0	III	B	1	60	220	
			CULG	0326.0	0329.0	III	G	1	65	180	
			LEAR	0326.0	0328.0	III		1	101	180	
			HIRA	0326.5	0328.5	III	G	1	100	200	
			CULG	0451.0	0451.0	III	B	1	57X	180	
	0538	1620	ONDR								
	0600	1200	IZMI	0600.0E	1127.0U	III	N	1	45	95	
	0438	1720	POTS	0601	0736	I	S,N	1	250	370	100-200MHz no data
			IZMI	0614.8	0614.9	III	B	1	150	190	
			HIRA	0632.5	0633.0	III	B	1	180	450	
	0550	1710	BLEN	0632.5	0635.6	III	GG,S	2	130	540	
			IZMI	0632.7	0634.8	III	GG	2	120	270X	
			POTS	0632.7	0634.8	III	GG	2	200U	530	
			IZMI	0734.2	0734.7	III	G	2	50	210	
			IZMI	0737.5	0737.6	III	G	2	80	140	
			POTS	0823	1720 U	I	S,N	2	200U	380	
			IZMI	0824.2	0824.4	III	B	1	200	270X	
			POTS	0838.8	0839.8	UNCLF		2	200U	320	
			IZMI	0838.9	0839.9	III	GG	2	110	270	
			HIRA	0839.0	0839.5	III	B	1	110	210	
			LEAR	0839.0	0839.0	III		1	110	180	
			SVTO	0839.0	0904.0	III	N	2	33	180	
			IZMI	0851.0U	0901.0	III	S	2	30	170	
			POTS	0851.8	0900.5	III	GG,N	1	40X	85	
			IZMI	0903.6	0904.8	III	GG	2	90	270	
			IZMI	0911.2	0911.3	III	B	2	110	175	
			IZMI	0917.5	0917.8	III	G	2	110	175	
			SVTO	1041.0	1041.0	III		1	113U	147U	
			IZMI	1041.2	1041.7	III	GG,C	2	95	270X	
			IZMI	1045.8	1052.0	III	GG	1	110	160	
			IZMI	1107.3	1110.9	III	GG	2	105	225	
			IZMI	1113.1	1113.4	III	G	1	130	175	
			IZMI	1131.7	1131.9	CONT		2	130	145	
			POTS	1333.0	1337.4	III	GG	2	65	620	
			POTS	1402.1	1403.9	III	G	2	200U	360	
			HOLL	1437.0	1437.0	III		1	25	151	
			POTS	1458.7	1511.6	III	GG,N	2	200U	370	
			POTS	1522.8	1523.1	III	G	1	40X	80	
			HOLL	1733.0	1901.0	III	N	1	25	180	
	2030	2400	CULG	2039.0	2039.0	III	B	1	57X	90	
			CULG	2042.0	2043.0	III	G	1	57X	180	
			HOLL	2042.0	2043.0	III		1	75	180	

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09	2015	2400	HIRA	2042.0	2043.5	III	G	2	60	210	
			CULG	2103.0	2217.0	I	S	1	110	180	
			CULG	2122.0	2131.0	III	G	1	57X	140	
			HIRA	2154.5	2158.0	III	G	1	70	300	
			CULG	2155.0	2158.0	III	G	1	65	280	
			CULG	2246.0	2254.0	III	G	1	57X	90	
10			LEAR	0004.0	0004.0	III		1	92	180	
			LEAR	0004.0	0004.0	III	N	1	92	180	
			LEAR	0004.0	0004.0	III	N	1	92	180	
	0000	0730	CULG	0004.0	0004.0	III	B	1	57X	180	
	0000	0854	HIRA	0004.0	0004.5	III	B	1	100	210	
			CULG	0051.0	0052.0	III	G	1	57X	180	
			HIRA	0051.0	0051.5	III	B	1	80	210	
			LEAR	0051.0	0216.0	III	N	1	34	180	
			CULG	0108.0	0109.0	III	G	1	57X	180	
			HIRA	0108.0	0109.0	III	B	1	60	200	
			CULG	0127.0	0301.0	III	N	1	57X	180	
			CULG	0308.0	0311.0	III	G	2	57X	200	
			LEAR	0308.0	0312.0	III		1	25	180	
			HIRA	0308.5	0311.5	III	G	1	50	300	
			CULG	0311.0	0420.0	I	S	1	130	180	
			CULG	0449.0	0451.0	III	G	1	57X	120	
	0441	1724	POTS	0452	1724 U	I	S,N,DC	2	200U	380	100-200MHz no data
			POTS	0556.3	0559.5	III	GG	3	40X	420	
			CULG	0557.0	0600.0	III	G	3	57X	280	
			LEAR	0557.0	0600.0	III		2	25	180	
			SVTO	0557.0	0600.0	III		2	28	180	
			CULG	0626.0	0730.0D	III	N	1	57X	90	
	0702	1200	IZMI	0702.0E	1200.0D	I	N	1	180	270X	
			IZMI	0732.4	0732.6	III	B	1	85	160	
			IZMI	0745.0U	1142.0U	III	N	1	95	95U	
			HIRA	0757.0	0759.5	III	G	3	30	320	
	0539	1618	ONDR	0820.3	0820.5	DCIM	G	1	800X	1311	
	0550	1655	BLEN	0820.5	0821.0	DCIM	P	2	720	1550	
			IZMI	0828.7	0828.9	III	B	1	80	160	
			IZMI	0834.7	0835.3	III	G	2	25	95	
			SVTO	0835.0	0836.0	III		1	25	180	
			HIRA	0836.0	0836.5	III	B	1	100	210	
			LEAR	0855.0	0855.0	III		1	58	180	
			POTS	0921.2	0930.3	III	GG	2	40X	80	
			IZMI	0921.6	0922.9	III	GG	1	30	175	
			IZMI	0926.3	0931.6	III	GG	2	30	170	
			IZMI	0949.6	0951.5	III	G	1	50	95	
			IZMI	1003.9	1004.6	III	GG,C	2	125	270X	
			SVTO	1004.0	1030.0	III	N	2	25	180	
			IZMI	1013.9	1015.3	III	G	1	40	270X	
			ONDR	1020.2	1022.5	DCIM	G	2	2000X	4500X	
			ONDR	1020.3	1025.0	DCIM	G	1	800X	2000X	
			BLEN	1020.6	1025.1	DCIM	C,RS	3	200X	2000X	
			IZMI	1020.7	1022.9	III	GG,C	2	25	270X	
			POTS	1021.0	1037.0	III	GG,N	3	40X	450	
			IZMI	1022.9	1024.4	III	GG,C	2	25	270X	
			IZMI	1029.4	1030.9	III	GG	2	45	270X	
			IZMI	1126.5	1135.6	III	GG	2	40	270X	
			POTS	1128.5	1135.0	III	GG,N	2	40X	350	
			BLEN	1130.8	1135.2	III	GG	1	200X	400	
			IZMI	1138.4	1138.7	III	G	1	180	240	
			IZMI	1158.1	1158.3	III	B	1	55	160	
			BLEN	1451.7	1456.1	III	GG,RS,C	1	200X	2000X	
			HOLL	1452.0	1455.0	III		2	25	180	
			ONDR	1452.0	1455.2	DCIM	G	2	2000X	4500X	
			POTS	1452.0	1453.8	III	GG	3	40X	730	
			SGMR	1452.0	1458.0	V		3	30	80	
			SVTO	1452.0	1454.0	III		3	25	180	
			ONDR	1452.3	1455.0	DCIM	G	2	800X	2000X	
			POTS	1453	1456.5	V	G	3	40X	80	
			POTS	1454.1	1454.5	DCIM		2	330	530U	
			HOLL	1456.0	1524.0	II		1	25	180	ESS 0356

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10			SVTO	1456.0	1522.0	II		2	27	180	ESS 0662
			POTS	1500.4	1518.7	II		3	40X	75	
			SGMR	1503.0	1522.0	II		3	30	55	ESS 0710
			HOLL	1520.0	1655.0	IV		1	44	173	
			SVTO	1524.0	1648.0	IV		1	49	180	
			HOLL	1601.0	1601.0	III		1	25	164	
			SGMR	1601.0	1601.0	III		1	30	55	
			SVTO	1601.0	1601.0	III		1	25	168	
			POTS	1654.9	1656.2	III	GG	2	200U	340	
			HOLL	1734.0	1744.0	III	N	2	25	180	
			SGMR	1804.0	1814.0	V		1	30	80	
			HOLL	1811.0	1811.0	III		1	75	180	
			HOLL	1956.0	1957.0	V		1	25	180	
			PALE	1956.0	1957.0	III		1	25	180	
			SGMR	1956.0	2013.0	III	N	1	30	80	
			HOLL	2012.0	2013.0	III		1	25	180	
			PALE	2012.0	2013.0	III		1	25	180	
	2030	2400	CULG	2030.0E	2124.0	III	N	1	57X	180	
	2016	2400	HIRA	2052.5	2053.0	III	B	1	25X	140	
			HOLL	2113.0	2123.0	III		1	25	180	
			CULG	2114.0	2115.0	III	G	2	57X	180	
			HIRA	2114.0	2123.5	III	G	2	25X	290	
			SGMR	2114.0	2123.0	III		1	30	80	
			CULG	2117.0	2117.0	III	B	1	57X	90	
			PALE	2119.0	2119.0	III		1	25	180	
			CULG	2252.0	2253.0	III	G	3	57X	290	
			HIRA	2252.0	2254.0	III	G	3	25X	400	
			HOLL	2252.0	2253.0	V		2	25	180	
			LEAR	2252.0	2253.0	III		2	25	180	
			PALE	2252.0	2253.0	III		2	25	180	
			CULG	2315.0	2322.0	III	G	1	57X	180	
			HIRA	2315.0	2321.0	III	G	1	25X	200	
			LEAR	2315.0	2321.0	III		1	25	180	
			PALE	2315.0	2321.0	III		1	25	180	
			HOLL	2316.0	2321.0	III		1	25	180	
			LEAR	2359.0	0628.0	III	N	1	25	123	
11	0000	0730	CULG	0005.0	0204.0	III	N	1	57X	140	
			CULG	0139.0	0139.0	III	B	1	57X	320	
	0000	0853	HIRA	0139.0	0139.5	III	B	1	50	310	
			CULG	0255.0	0300.0	III	G	1	57X	180	
			CULG	0417.0	0419.0	III	G	2	57X	180	
			HIRA	0417.0	0418.5	III	G	1	25X	220	
			CULG	0434.0	0435.0	III	G	1	57X	180	
			HIRA	0434.5	0435.0	III	B	1	30	200	
			CULG	0449.0	0609.0	III	N	1	57X	150	
	0443	1720	POTS	0529	1720 U	I	S,N,DC	2	200U	400	100-200MHz no data
	0604	1202	IZMI	0633.3	0634.2	III	G	1	210	270X	
	0541	1616	ONDR	0729.5	0739.2	DCIM	GG	2	2000X	4500X	
			ONDR	0731.2	0734.5	DCIM	GG,FS	2	1011	2000X	
	0555	1655	BLEN	0731.9	0737.9	DCIM	P,RS	3	700	4000X	
			IZMI	0738.0U	0825.0U	III	N	1	45	95	
			IZMI	0753.0	1200.0D	I	S	1	110	270X	
			POTS	0754	0811	III	G,N	3	40X	320	
			HIRA	0754.0	0755.0	III	G	1	50	280	
			LEAR	0754.0	0810.0	III	N	1	25	180	
			SVTO	0754.0	0810.0	III	N	2	25	180	
			IZMI	0754.1	0754.9	III	GG,FS	2	25X	270X	
			IZMI	0758.9	0800.4	III	G,C	2	25X	260	
			HIRA	0759.0	0810.5	III	G	1	30	250	
			IZMI	0802.0	0803.3	III	G	2	30	270X	
			IZMI	0806.7	0808.3	III	GG,FS	2	25X	270X	
			IZMI	0810.2	0810.5	III	G,FS	2	35	190	
			IZMI	1016.7	1017.9	III	GG	2	50	270X	
			POTS	1016.7	1021.4	III	GG,N	3	40X	500	
			IZMI	1018.7	1020.1	III	GG	2	180	270X	
			BLEN	1040.6	1041.7	DCIM	S	1	500	4000X	
			IZMI	1100.6	1100.7	III	B	1	80	160	
			IZMI	1157.3	1158.2	III	G	1	180	270X	

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11			POTS	1246	1259	III	GG,N	2	40X	280	
			HOLL	1318.0	1830.0	III	N	1	56	180	
			POTS	1328.6	1331.5	III	GG,N	2	200U	350	
			POTS	1329.7	1330.7	DCIM		2	460	590	
			POTS	1341	1350	III	G,N	1	40X	80	
			POTS	1431	1458	III	G,N	1	40X	70	
	2017	2400	HIRA								
	2030	2400	CULG	2030.0E	2400.0D	III	N	1	57X	140	
			CULG	2340.0	2341.0	III	G	1	57X	180	
12	0000	0851	HIRA								
	0000	0730	CULG	0000.0E	0740.0D	III	N	1	57X	180	
	0447	1715	POTS	0530	0702 U	I	S,N	1	220	350	100-200MHz no data
			POTS	0530.4	0530.9	DCIM		2	270	430	
	0542	1614	ONDR								
			IZMI	0558.0E	1200.0D	I	N	1	45	270	
	0558	1200	IZMI	0558.0E	1200.0D	III	N	1	25X	95U	
			IZMI	0558.7	0558.9	III	B	2	50	150	
			IZMI	0611.6	0611.8	III	B	1	55	150	
			IZMI	0630.6	0632.6	III	G	2	85	150	
			IZMI	0702.9	0705.1	III	G	2	45	190	
			POTS	0730	0914	III	GG,N	1	40X	80	
			IZMI	0732.5	0737.0	III	GG	2	25X	65	
			IZMI	0753.0	0755.0	III	G	1	45	160	
			IZMI	0846.5	0847.4	III	G	2	40	270	
			POTS	0847.2	0847.4	III	G	1	200U	270	
			POTS	0856 U	0929	I	S,N	1	200U	330	
			IZMI	0856.7	0856.8	III	G,FS	2	25X	90	
			IZMI	0900.3	0900.6	III	B	1	60	160	
			IZMI	0909.3	0914.6	III	G,FS	1	40	95	
			IZMI	0917.6	0918.9	III	GG	2	40	270X	
			POTS	0917.6	0925.6	III	G	2	40X	400	
			IZMI	0924.9	0925.1	III	G,C	2	40	270X	
	0600	1655	BLEN	0924.9	0925.1	III		3	140	500	
			IZMI	0941.1	0943.8	III	G	2	30	190	
			POTS	0941.2	0941.4	III	B,U	2	40X	75	
			IZMI	0954.4	0954.7	III	G	1	110	180	
			IZMI	1009.8	1011.1	III	G	2	25X	270	
			IZMI	1020.5	1020.5	III	B	2	130	180	
			POTS	1040.7	1045	UNCLF		1	57	78	
			POTS	1057	1329	I	S,N	1	200U	340	
			IZMI	1101.7	1101.8	III	B	2	110	175	
			SVTO	1116.0	1349.0	III	N	1	25	180	
			POTS	1116.3	1127	III	GG,N	2	40X	280	
			IZMI	1116.7	1124.4	III	GG	2	25X	260	
			IZMI	1133.0	1138.6	III	GG	2	35	250	
			POTS	1221.6	1224.4	III	GG	2	45	280	
			POTS	1248.0	1253.5	III	GG,N	2	200U	330	
			POTS	1252	1255	III	G,N	1	40X	75	
			POTS	1328.4	1328.6	III	G	2	70	240	
			POTS	1332	1528 U	III	GG,N	1	40X	75	
			POTS	1336	1339	III	GG	3	40X	400	
			BLEN	1336.7	1339.8	III	GG,RS	2	100X	1800	
			HOLL	1337.0	1349.0	III	N	2	25	180	
			SGMR	1337.0	1346.0	III		2	30	80	
			SVTO	1337.0	1337.0	III		2	25	180	
			HOLL	1414.0	1648.0	III	N	1	25	83	
			POTS	1506.1	1506.4	III	B	2	40X	80	
			POTS	1514	1535	III	G	1	40X	80	
			POTS	1518	1535	I	S,N	1	50	350	
			POTS	1550 U	1650 U	I	S,N	1	200U	320	
			PALE	1635.0	2230.0	III	N	1	25	180	
			HOLL	1810.0	1838.0	III	N	1	25	180	
			SGMR	1834.0	1840.0	III	N	2	30	70	
	2020	2400	CULG	2020.0E	2106.0	III	S,C	2	57X	180	
			HOLL	2057.0	2059.0	III		1	25	138	
	2018	2400	HIRA	2057.5	2058.0	III	B	1	40	140	
			CULG	2106.0	2400.0D	III	S	1	57X	180	
			LEAR	2240.0	0810.0	CONT		1	42	180	

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13	0000	0849	HIRA								
	0000	0740	CULG	0000.0E	0357.0	III	S,C	1	57X	180	
			CULG	0357.0	0617.0	III	S,C	2	57X	180	
			LEAR	0426.0	1000.0	III	N	1	25	180	
			SVTO	0447.0	1643.0	CONT		1	25	180	
	0450	1713	POTS	0516 U	0621 U	I	S,N	2	50	380	100-200MHz no data
			IZMI	0600.0E	1200.0D	III	N	1	25X	150U	
	0600	1200	IZMI	0600.0E	1200.0D	I	S,C	2	45	270X	
	0600	1655	BLEN	0600.0X	1655.0X	I	DC	2	100X	300	
			CULG	0617.0	0740.0D	III	S,C	1	57X	180	
			POTS	0648 U	0850 U	I	S,N	2	45	300	
			POTS	0709.7	1523 U	III	GG,N	1	40X	85	
			IZMI	0846.0	0850.4	III	G	2	25X	180	
			POTS	0850 U	1659 U	I	S,N	2	200U	360	
			IZMI	0857.3	0857.6	III	G,U,C	2	55	90	
			IZMI	0923.5	0926.6	III	G	2	35	95	
			IZMI	1043.3	1044.3	III	G,C	2	50	90	
			IZMI	1142.3	1142.5	III	B	2	25X	95	
			HOLL	1320.0	1322.0	III		1	25	83	
			HOLL	1345.0	1736.0	III	N	1	25	121	
			SGMR	1345.0	1353.0	III		1	30	60	
			POTS	1345.8	1354 U	III	GG	2	40X	300	
	0544	1611	ONDR	1500.0	1500.5	DCIM	G	1	2000X	4090	
			PALE	1635.0	2028.0	CONT		1	25	180	
			HOLL	2004.0	2004.0	III		1	25	86	
			SGMR	2004.0	2005.0	III		1	30	60	
			CULG	2020.0E	2400.0D	I	S,C	1	110	180	
	2020	2400	CULG	2020.0E	2400.0D	III	S	1	57X	180	
			PALE	2111.0	2111.0	III		1	25	66	
	2018	2400	HIRA	2111.5	2112.0	III	B	1	25X	80	
			HIRA	2120.5	2121.0	III	B	1	90	310	
			LEAR	2239.0	0855.0	CONT		1	40	180	
			LEAR	2304.0	0600.0	III	N	1	25	180	
			CULG	2318.0	2318.0	III	B	2	57X	180	
			HIRA	2318.0	2318.5	III	B	2	25X	200	
			HOLL	2318.0	2318.0	III		1	25	131	
14			CULG	0000.0E	0154.0	I	S,C	1	70	180	
	0000	0740	CULG	0000.0E	0740.0D	III	S	1	57X	180	
	0555	1645	BLEN	0557.5X	0600.1	DCIM	P,RS	2	400	3900	
			IZMI	0600.0E	1200.0D	III	N	1	25X	95U	
	0600	1200	IZMI	0600.0E	1200.0D	I	S,C	2	45U	270X	
			IZMI	0603.9	0607.4	III	G,C	2	30	100	
			LEAR	0607.0	0607.0	III		1	25	96	
	0000	0848	HIRA	0607.0	0625.0	III	G	1	30	200	
			LEAR	0614.0	0614.0	III		1	25	107	
			IZMI	0614.5	0625.1	III	GG	2	25X	240	
			LEAR	0619.0	0625.0	III		1	25	180	
			IZMI	0629.1	0631.5	III	GG,FS	1	45	210	
			IZMI	0728.5	0734.7	III	GG,RS	2	40	95	
			LEAR	0729.0	1000.0	III	N	1	25	180	
			IZMI	0746.3	0746.6	III	G,RS	2	50	65	
			IZMI	0750.2	0755.1	III	GG,C	2	25X	270X	
			BLEN	0750.8	0753.0	III	GG,S	2	100X	600	
			HIRA	0751.0	0754.0	III	G	1	30	380	
			LEAR	0751.0	0753.0	III		2	25	180	
	0545	1609	ONDR	1222.1	1223.1	DCIM	G,W	1	2000X	4500X	
			BLEN	1222.2	1223.8	III	GG,RS	2	100X	4000X	
			SGMR	1356.0	1404.0	III		1	30	55	
			HOLL	1427.0	1429.0	III		1	25	73	
			HOLL	1440.0	0052.0	CONT		1	96	180	
			HOLL	1444.0	2242.0	III	N	1	25	137	
			SGMR	1530.0	1557.0	III	N	1	30	80	
			BLEN	1546.9	1557.4	III	GG,RS	3	130	4000X	
			PALE	1715.0	0420.0	CONT		1	25	180	
			SGMR	1716.0	1732.0	V		1	30	55	
			SGMR	1938.0	1939.0	III		1	30	80	
			SGMR	2013.0	2145.0	III	N	1	30	80	
			CULG	2020.0E	2400.0D	III	S	1	57X	150	

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14	2020	2400	CULG	2020.0E	2400.0D	I	S,C	1	100	180	
	2019	2400	HIRA	2111.0	2111.5	III	B	1	25X	210	
			HIRA	2137.5	2138.0	III	B	1	25X	160	
			HIRA	2154.5	2203.0	III	G	2	25X	180	
			CULG	2155.0	2157.0	III	G	2	57X	160	
			CULG	2202.0	2203.0	III	G	2	57X	180	
			LEAR	2238.0	1001.0	CONT		1	25	180	
15			CULG	0000.0E	0740.0D	III	S	1	57X	180	
	0000	0740	CULG	0000.0E	0740.0D	I	S,C	1	100	250	
			CULG	0019.0	0020.0	III	G	2	57X	150	
			HOLL	0019.0	0020.0	V		1	25	156	
			LEAR	0019.0	0020.0	V		2	25	146	
	0000	0846	HIRA	0019.0	0021.0	III	G	2	25X	130	
			LEAR	0047.0	0156.0	III	N	2	25	137	
			HIRA	0047.5	0048.5	III	B	1	25X	110	
	2020	2400	HIRA	0116.5	0117.0	III	B	1	40	160	
			HIRA	0155.0	0157.0	III	G	1	25X	120	
			IZMI	0602.0E	1200.0D	III	N	1	25X	95U	
	0602	1200	IZMI	0602.0E	1200.0D	I	S,C	2	45U	270X	
			IZMI	0848.5E	0852.2D	III	G,C	2	25X	270X	
	0555	1645	BLEN	0848.5	0853.2	III	GG	1	200	550	
			LEAR	0944.0	0949.0	III		2	25	180	
			IZMI	0944.1E	0947.6D	III	GG,FS,C	2	25X	260	
			BLEN	1531.0	1536.8	III	GG,RS	2	400	2400	
	0547	1607	ONDR	1536.2	1537.1	DCIM	G	1	800X	1812	
			HOLL	1546.0	1552.0	III		1	25	163	
			SGMR	1546.0	1552.0	III		1	30	70	
			HOLL	1813.0	0002.0	CONT		1	68	167	
			CULG	2020.0E	2242.0	III	S	1	57X	120	
	2020	2400	CULG	2020.0E	2350.0	I	S,C	1	100	180	
			CULG	2117.0	2117.0	III	B	1	57X	180	
			LEAR	2237.0	0052.0	CONT		1	74	180	
			CULG	2308.0	2312.0	III	G	1	57X	80	
			HIRA	2339.5	2340.0	III	B	1	80	200	
			CULG	2340.0	2340.0	III	B	1	57X	180	
			LEAR	2353.0	2353.0	III		1	25	180	
			HIRA	2353.5	2354.0	III	B	1	50	210	
			CULG	2354.0	2354.0	III	B	1	57X	180	
16	0000	0740	CULG	0002.0	0513.0	III	S,C	1	57X	180	
			CULG	0010.0	0740.0D	I	S,C	1	65	170	
			LEAR	0018.0	0023.0	III		1	25	180	
			PALE	0018.0	0020.0	III		1	25	92	
			HOLL	0019.0	0020.0	III		1	25	142	
	0000	0845	HIRA	0019.0	0020.5	III	G	1	30	220	
			LEAR	0057.0	1001.0	III	N	3	25	180	
			CULG	0142.0	0155.0	III	GG	3	57X	230	
			HIRA	0142.0	0155.0	III	G	3	25X	260	
			PALE	0142.0	0420.0	III	N	2	25	180	
			LEAR	0308.0	0311.0	III		3	25	180	
			CULG	0309.0	0310.0	III	G	3	57X	360	
			HIRA	0309.0	0312.5	III	G	3	25X	400	
			CULG	0312.0	0312.0	III	B	1	75	340	
			LEAR	0315.0	1001.0	CONT		1	25	180	
			CULG	0316.0	0321.0	II	SH	1	60	90	ESS 750
			CULG	0321.0	0322.0	III	G	3	57X	160	
			HIRA	0321.0	0322.5	III	G	2	30	190	
	0454	1706	POTS	0454 U	1706 U	I	S,C,N	3	200U	470	100-200MHz no data
			CULG	0457.0	0458.0	III	G	2	57X	120	
			HIRA	0457.0	0458.0	III	B	1	30	120	
			CULG	0513.0	0740.0D	III	N	1	57X	150	
	0548	1605	ONDR								
			IZMI	0600.0E	1200.0D	III	N	1	25X	95U	
	0600	1200	IZMI	0600.0E	1200.0D	I	S,C	2	45U	270X	
			IZMI	0612.5	0616.3	III	GG,FS	2	25X	95	
			IZMI	0638.5	0638.8	III	B,FS	2	55	150	
			POTS	0659.9	1556 U	III	GG,N	2	40X	85	
			IZMI	0724.3	0725.5	III	G,C	2	25X	95	

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16			HIRA	0724.5	0754.0	III	G	1	30	110	
			IZMI	0732.6	0735.1	III	G	2	25X	70	
			IZMI	0737.5	0739.6	III	GG	2	25X	140	
			IZMI	0753.2	0754.1	III	G	2	25X	95	
			IZMI	0756.7	0756.8	III	G	2	25X	95	
			IZMI	0824.7	0825.2	III	G	2	25X	240	
			IZMI	0835.8	0838.5	III	G	2	25X	130	
			IZMI	0847.9	0849.6	III	GG,C	2	25X	270X	
			IZMI	0850.1	0900.4	III	GG	2	25X	215	
			IZMI	0907.2	0909.3	III	G	2	25X	240	
			IZMI	0913.1	0913.3	III	B	1	40	95	
			IZMI	0921.2	0925.8	III	GG	2	25X	140	
			IZMI	0935.5	0938.2	III	G	2	25X	210	
			IZMI	0949.4	0949.5	III	B	1	40	100	
			IZMI	0952.0	0953.2	III	G	2	25X	90	
			IZMI	1012.1	1012.6	III	G,C	2	25X	45	
			IZMI	1017.0	1017.7	III	G	2	25X	130	
			IZMI	1045.5	1045.7	III	B	1	30	90	
			IZMI	1057.9	1058.1	III	G	2	25X	90	
			SGMR	1122.0	1122.0	III		1	30	60	
			IZMI	1122.3	1123.0	III	G,C	2	25X	100	
			POTS	1122.3	1125.8	III	G	3	40X	450	
			IZMI	1124.8	1125.8	III	G	2	25X	270X	
	0600	1640	BLEN	1124.8	1125.8	III	GG,RS	2	160	490	
			IZMI	1132.2	1133.8	III	GG	2	25X	215	
			IZMI	1135.1	1135.6	III	G	2	40	150	
			IZMI	1137.1	1139.6	III	GG	2	25X	95	
			IZMI	1148.5	1148.7	III	G	2	35	65	
			IZMI	1155.6	1155.9	III	B	2	30	90	
			HOLL	1336.0	2122.0	CONT		1	59	180	
			POTS	1347.0	1347.7	DCIM		2	300	570	
			HOLL	1354.0	0058.0	III	N	1	25	180	
			SGMR	1400.0	1402.0	III		1	30	80	
			SGMR	1546.0	1558.0	III	N	1	30	60	
			BLEN	1549.3	1555.8	III	GG,C	3	100X	4000X	
			POTS	1555.1	1555.9	III	GG	2	200U	650	
			POTS	1702.3	1702.8	III	G	2	200U	320	
			SGMR	1825.0	1826.0	III		1	30	50	
			PALE	1959.0	2004.0	III		1	25	180	
			SGMR	1959.0	2013.0	III	N	2	30	80	
	2020	2400	CULG	2020.0E	2336.0	III	N	1	57X	180	
	2020	2400	HIRA	2206.5	2219.5	III	G	2	25X	330	
			CULG	2207.0	2211.0	III	G	2	57X	180	
			CULG	2213.0	2214.0	III	G	3	57X	250	
			HIRA	2228.5	2232.0	III	G	1	50	200	
			LEAR	2236.0	1002.0	III	N	1	25	180	
			HIRA	2237.5	2241.0	III	G	1	25X	110	
			CULG	2238.0	2238.0	III	B	2	57X	130	
17	0000	0844	HIRA	0047.5	0048.0	III	B	1	25X	100	
	0000	0740	CULG	0048.0	0051.0	III	G	2	57X	180	
			HIRA	0049.5	0050.0	III	B	1	25X	160	
			CULG	0055.0	0058.0	III	G	3	57X	150	
			HIRA	0056.0	0056.5	III	B	1	25X	120	
			CULG	0107.0	0438.0	III	N	1	57X	180	
			CULG	0114.0	0115.0	III	G	2	57X	170	
			HIRA	0114.0	0115.0	III	B	1	30	100	
			HIRA	0139.5	0143.0	III	G	1	30	200	
			HIRA	0151.5	0204.0	III	G	3	25X	210	
			CULG	0155.0	0204.0	III	GG	2	57X	180	
			CULG	0200.0	0203.0	III	G	3	57X	180	
			CULG	0204.0	0221.0	II	SH	3	57X	100	ESS 900
			HIRA	0204.0	0224.0	II		3	25X	110	
			LEAR	0204.0	0227.0	II		2	25	109	ESS 0610
			PALE	0204.0	0217.0	II		1	25	98	ESS 0542
			CULG	0306.0	0308.0	III	G	2	57X	150	
			HIRA	0306.0	0308.0	III	G	1	25X	130	
			CULG	0411.0	0412.0	III	G	1	57X	850	
			HIRA	0411.0	0412.0	III	B	1	30	1000	

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17			HIRA	0414.5	0417.0	III	G	1	30	300	
			CULG	0415.0	0417.0	III	G	2	57X	180	
			LEAR	0420.0	0421.0	III		2	25	180	
			CULG	0421.0	0422.0	III	G	3	57X	180	
			HIRA	0421.0	0423.0	III	G	3	25X	550	
			HIRA	0433.0	0437.5	III	G	1	25X	190	
	0457	1706	POTS	0517	0700 U	I	S,N	2	200U	400	100-200MHz no data
			POTS	0548.9	0552.7	III	G	3	40X	400	
			CULG	0549.0	0553.0	III	G	3	57X	300	
			HIRA	0549.0	0552.5	III	G	3	25X	300	
			LEAR	0549.0	0552.0	V		2	25	180	
			SVTO	0549.0	0552.0	V		2	25	180	
	0550	1640	BLEN	0550.0X	0557.4	III	GG,RS	3	100X	550	
			POTS	0551.4	0552.3	V	B	3	40X	80	
			POTS	0553.5	0554.3	DCIM		2	200U	800X	
			POTS	0603	0700 U	III	GG,N	1	40X	60	
	0601	1200	IZMI	0603.5	0604.0	III	G	1	45	140	
			CULG	0604.0	0740.0D	III	N	1	57X	180	
			IZMI	0610.0U	0725.0	I	N	1	45	270	
			IZMI	0615.0U	1200.0D	III	N	1	25X	95U	
			SVTO	0624.0	0625.0	III		1	25	180	
			HIRA	0624.5	0625.0	III	B	1	50	240	
			IZMI	0624.7	0627.1	III	G	2	40	250	
			IZMI	0644.7	0645.5	III	G	1	40	95	
			BLEN	0646.3	0655.1	DCIM	P	1	700	2100	
	0550	1603	ONDR	0647.4	0706.3	DCIM	G	1	800X	2000X	
			POTS	0700 U	1400 U	IV		2	200U	700	
			POTS	0700.0	0702.3	III	G	3	40X	450	
			BLEN	0700.4	0706.4	III	GG,S,C	3	150	2200	
			IZMI	0700.7	0701.9	III	GG,C	2	30	270X	
			CULG	0701.0	0702.0	III	G	2	57X	240	
			HIRA	0701.0	0702.0	III	B	2	50	250	
			POTS	0705.6	0706.6	DCIM		2	300	720	
			IZMI	0705.9	0706.0	III	B	2	190	210	
			BLEN	0717.0	0754.1	IV	P	3	100X	4000X	
			LEAR	0722.0	1002.0	CONT		1	50	180	
			IZMI	0725.0U	1200.0D	I	S,C	2	45	270X	
			POTS	0732	0830 U	III	GG,N	1	40X	80	
			ONDR	0732.3	0802.3	DCIM	G	1	2000X	4500X	
			ONDR	0733.2	0805.1	DCIM	G	1	800X	2000X	
			LEAR	0743.0	1431.0	CONT		1	25	180	
			IZMI	0801.0	0810.0	III	GG	2	45	95	
			IZMI	0822.1	0825.3	I	GG,DC	2	160	210	
			IZMI	0824.6	0826.0	III	GG,FS	2	130	170	
			IZMI	0914.1	0925.6	III	GG,C	2	25X	270X	
			ONDR	0915.3	0921.5	DCIM	GG,FS	2	2000X	4500X	
			ONDR	0916.5	0922.0	DCIM	GG	2	800X	2000X	
			POTS	0916.7	0925.3	III	GG	3	40X	800X	
			BLEN	0916.8	0925.1	III	GG,RS,S	3	130	4000X	
			LEAR	0917.0	0923.0	III		2	25	180	
			POTS	0925.5	1023	III	GG,N	2	40X	80	
			POTS	0928.8	0937	II		2	40X	85	
			IZMI	0929.0	0932.3	II		2	40	70	
			IZMI	0929.8	0936.5	III	GG	2	25X	270X	
			POTS	1022.3	1023.2	DCIM		1	530	770	
			SVTO	1037.0	1242.0	III	N	2	25	180	
			BLEN	1037.3	1053.0	III	GG,RS,S	3	130	4000X	
			IZMI	1037.4	1042.6	III	GG,C	2	25X	270X	
			ONDR	1037.4	1040.2	DCIM	GG,FS	2	800X	2000X	
			POTS	1037.5	1040.3	III	GG	3	40X	800X	
			ONDR	1038.0	1040.2	DCIM	G	2	2000X	4500X	
			POTS	1040.3	1149	III	GG,N	2	40X	85	
			IZMI	1043.2	1045.9	III	GG	2	80	270X	
			IZMI	1048.0	1057.5	III	GG,C	2	25X	270X	
			POTS	1048.1	1050.1	III	GG	3	40X	650	
			IZMI	1111.1	1111.5	III	B	2	25X	95	
			POTS	1235.0	1246 U	III	GG,N	2	40X	85	
			SGMR	1235.0	1235.0	III		1	30	60	
			BLEN	1235.1	1235.7	III	GG,C	1	130	4000X	

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OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
17			POTS	1400 U	1706 U	I	S,N	2	200U	400	
			HOLL	1602.0	2040.0	III	N	1	25	180	
	2020	2400	CULG	2020.0E	2400.0D	III	S,C	1	57X	180	
			HOLL	2145.0	2149.0	III		1	25	174	
			CULG	2146.0	2148.0	III	G	3	57X	300	
			SGMR	2146.0	2146.0	III		1	30	55	
	2021	2400	HIRA	2146.0	2148.0	III	G	2	25X	250	
			LEAR	2252.0	1002.0	CONT		1	35	180	
			HOLL	2327.0	2328.0	III		1	25	180	
			LEAR	2327.0	2328.0	III		2	35	180	
			HIRA	2327.5	2328.5	III	B	1	50	270	
			CULG	2328.0	2328.0	III	G	2	57X	280	
			LEAR	2352.0	0017.0	III	N	2	25	180	
			HIRA	2353.0	0015.0	III	G	1	25X	280	
			CULG	2358.0	2400.0	III	G	2	57X	280	
18	0000	0740	CULG	0000.0E	0740.0D	III	S,C	1	57X	180	
			CULG	0010.0	0010.0	III	G	2	57X	180	
	0000	0843	HIRA	0125.0	0125.5	III	B	1	30	150	
			HIRA	0215.5	0216.0	III	G	1	30	210	
			HIRA	0219.0	0220.0	III	B	1	30	200	
			HIRA	0242.5	0243.0	III	B	1	30	170	
	0501	1702	POTS	0501 E	1702 U	I	S,N	2	200U	400	100-200MHz no data
			IZMI	0559.0E	1200.0D	I	N	2	80	270X	
	0559	1200	IZMI	0559.0E	1200.0D	III	N	2	25X	95	
			IZMI	0625.0	0625.3	III	G	1	40	95	
			IZMI	0715.3	0718.4	III	G	2	45	95	
			IZMI	0728.8	0830.0U	I	S	2	80U	270X	
			IZMI	0729.2	0840.0U	III	S	2	25X	270U	
			POTS	0732	1600 U	III	GG,N	2	40X	85	
			HIRA	0803.5	0804.5	III	B	1	40	120	
			IZMI	0847.1	0847.2	III	B	2	40	65	
			IZMI	0926.9	0938.0	III	GG	2	25X	95	
			IZMI	0952.3	0954.4	III	G,FS	2	35	90	
			IZMI	0959.6	0959.7	III	B	2	35	65	
			IZMI	1010.7	1020.8	III	GG	2	25X	270X	
			ONDR	1011.3	1021.1	DCIM	GG	1	800X	2000X	
			POTS	1012.7	1013.7	DCIM		2	300	800X	
	0600	1635	BLEN	1015.0	1021.0	III	GG,C	1	140	4000X	
	0551	1600	ONDR	1016.0	1020.5	DCIM	G	1	2000X	4500X	
			POTS	1018	1051 U	III	GG,N	3	40X	700	
			IZMI	1021.2	1055.0U	III	S	2	25X	270X	
			POTS	1021.4	1022.3	DCIM		2	350	600	
			BLEN	1032.6	1047.5	DCIM	P	1	200	900	
			IZMI	1048.8	1049.2	III	GG,C	2	25X	180	
			IZMI	1146.3	1149.5	III	GG	1	35	95	
			POTS	1258 U	1528 U	I	S,N	2	60	100U	
			HOLL	1343.0	0042.0	CONT		1	25	180	
			HOLL	1502.0	0040.0	III	N	1	25	180	
			SGMR	1528.0	1629.0	CONT		1	30	45	
			POTS	1529	1543	III	GG	2	200U	750	
			ONDR	1529.0	1542.2	DCIM	GG	2	2000X	3514	
			BLEN	1530.4	1542.0	DCIM	C	3	200	3200	
			ONDR	1532.0	1542.1	DCIM	GG	1	800X	2000X	
			BLEN	1609.1	1609.5	III	GG,S	2	140	700	
			PALE	1636.0	0417.0	CONT		1	25	180	
			POTS	1638	1647	III	GG	2	200U	400U	
			SGMR	1855.0	1903.0	III		1	30	80	
			CULG	2020.0E	2400.0D	I	S	1	60	160	
	2020	2400	CULG	2020.0E	2400.0D	III	S,C	1	57X	180	
	2022	2400	HIRA								
			LEAR	2234.0	1002.0	CONT		2	52	180	
			LEAR	2307.0	1002.0	III	N	1	25	180	
			LEAR	2352.0	0257.0	III	N	2	25	180	
19			CULG	0000.0E	0740.0D	I	S	1	80	160	
	0000	0740	CULG	0000.0E	0740.0D	III	S,C	1	57X	180	
	0000	0841	HIRA	0132.0	0135.0	III	G	1	25X	320	
			CULG	0133.0	0133.0	III	B	2	57X	150	

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19	0506	1702	POTS	0506 E	1702 U	I	S,N	2	200U	400	100-200MHz no data
			CULG	0521.0	0522.0	II	FN	2	57X	70	
			CULG	0521.0	0524.0	II	SH	2	70	140	ESS 1000
			HIRA	0521.0	0539.0	II		1	50	110	
			LEAR	0529.0	0543.0	II		1	36	97	ESS 0305
			CULG	0530.0	0539.0	II	UE	2	57X	90	
			SVTO	0530.0	0543.0	II		1	25U	42U	ESS 0350
			POTS	0535	0545	II		1	40X	70	aerial off-sun
			IZMI	0551.0E	1200.0D	III	N	2	25X	270U	
	0551	1200	IZMI	0551.0E	1200.0D	I	S,C	2	45U	270X	
	0553	1558	ONDR								
			POTS	0720	1528 U	III	GG,N	1	40X	80	
			IZMI	0720.9	0721.9	III	G	2	50	85	
	0600	1635	BLEN	0731.3	0741.4	III	GG	2	140	300	
			IZMI	0733.0	0733.9	III	GG	2	35	270X	
			HIRA	0733.5	0734.0	III	B	1	40	200	
			IZMI	0752.0	0752.2	III	G,HARM	2	55	210	
			BLEN	0809.7	0811.0	DCIM	C	1	140	4000X	
			IZMI	0814.8	0815.1	III	B	2	25X	170	
			IZMI	0952.0	0952.3	III	G,C	2	25X	160	
			IZMI	1001.2	1003.5	III	G	2	25X	135	
			IZMI	1059.0	1059.2	III	G	2	120	215	
			IZMI	1116.3	1118.0	I	GG,DC	2	85	145	
			IZMI	1154.1	1156.1	III	G	1	35	95	
			HOLL	1321.0	0048.0	CONT		1	25	180	
			PALE	1636.0	0416.0	CONT		1	25	180	
			HOLL	1809.0	1809.0	III		1	25	75	
			HOLL	1809.0	1958.0	III	N	1	25	180	
			SGMR	1809.0	1809.0	III		1	30	80	
			CULG	2020.0E	2400.0D	I	S	1	80	180	
	2020	2400	CULG	2020.0E	2400.0D	III	S,C	1	57X	180	
			HOLL	2216.0	2216.0	III		1	25	62	
	2023	2400	HIRA	2216.0	2216.5	III	B	1	25X	300	
			LEAR	2233.0	1002.0	CONT		1	25	180	
			LEAR	2233.0	1002.0	III	N	1	25	180	
			HOLL	2240.0	2242.0	III		1	25	169	
			CULG	2241.0	2241.0	III	B	2	57X	140	
			HIRA	2241.0	2243.0	III	G	1	25X	280	
			HOLL	2249.0	2355.0	III	N	1	25	122	
20			CULG	0000.0E	0430.0D	I	S	1	70	180	
	0000	0430	CULG	0000.0E	0430.0D	III	S,C	1	57X	180	
	0000	0839	HIRA	0020.5	0021.0	III	B	1	100	230	
			CULG	0156.0	0156.0	III	B	2	57X	180	
			HIRA	0156.0	0156.5	III	B	1	25X	150	
			HIRA	0216.5	0217.0	III	B	1	60	200	
			CULG	0254.0	0254.0	III	B	3	57X	250	
			HIRA	0254.0	0254.5	III	B	3	25X	210	
			CULG	0414.0	0415.0	III	G	2	57X	180	
			HIRA	0414.0	0415.0	III	G	1	25X	270	
			SVTO	0453.0	0924.0	CONT		2	25	180	
	0500	1702	POTS	0500 E	1702 U	IV		2	45	580	100-200MHz no data
			CULG	0550.0E	0740.0D	I	S	1	70	180	
	0550	0740	CULG	0550.0E	0740.0D	III	S,C	1	57X	300	
	0600	1200	IZMI	0600.0E	1200.0D	I	S,C	2	45U	270X	
	0600	1630	BLEN	0600.0X	1630.0X	I	DC	3	140X	500	
			IZMI	0610.0U	1200.0D	III	N	2	25X	270X	
			IZMI	0614.7	0619.2	III	GG	2	180X	180	
			POTS	0640 U	0714	III	GG	2	40X	400	
			IZMI	0641.9	0700.0	III	GG	2	25X	270X	
			CULG	0644.0	0644.0	III	B	2	57X	130	
			CULG	0656.0	0656.0	III	B	2	57X	300	
			HIRA	0656.0	0657.0	III	B	1	50	130	
			SVTO	0656.0	0656.0	III		1	25	180	
			POTS	0743 U	1003 U	III	GG,N	2	40X	450	
			SVTO	0743.0	1442.0	III	N	1	25	180	
			IZMI	0743.6	0747.0	III	G	2	25X	140	
			SVTO	0757.0	0758.0	III		1	25	180	
			IZMI	0806.7	0809.4	III	G	2	25X	270X	

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20			HIRA	0808.5	0809.5	III	B	1	40	230	
			IZMI	0849.2	0849.7	III	G	2	25X	270X	
			SVTO	0924.0	1632.0	IV		2	25	180	
	0554	1556	ONDR	0925.2	0928.0	DCIM	G	1	2000X	4500X	
			BLEN	0925.4	0928.0	III	GG,RS,C	3	600	4000X	
			IZMI	0941.8	1001.0	III	S	2	25X	270X	
			POTS	1003 U	1513 U	III	GG,N	2	40X	85	
			IZMI	1023.2	1023.6	III	G	2	25X	100	
			POTS	1234	1240	III	GG	3	40X	700	
			SGMR	1237.0	1239.0	III		2	30	80	
			SVTO	1237.0	1239.0	III		2	25	180	
			ONDR	1237.2	1239.0	DCIM	GG	2	880	1395	
			BLEN	1237.8	1239.0	DCIM	S	2	1000	1400	
			SGMR	1311.0	1409.0	III	N	1	30	80	
			HOLL	1322.0	0046.0	CONT		1	25	180	
			POTS	1602.4	1606.6	III	G	3	40X	400	
			SGMR	1603.0	1608.0	V		2	30	80	
			BLEN	1604.0	1611.4	DCIM	S	2	800	1500	
			HOLL	1605.0	1612.0	III		1	25	180	
			SGMR	1923.0	1933.0	III		1	30	80	
			HOLL	1924.0	1933.0	III		1	25	180	
			SGMR	1928.0	1929.0	III		1	30	80	
			CULG	2010.0E	2400.0D	I	S,C	2	80	180	
	2010	2400	CULG	2010.0E	2400.0D	III	S,C	1	57X	180	
			HIRA	2023.5	2024.0	III	B	1	25X	100	
			HOLL	2028.0	2029.0	III		1	25	180	
	2024	2400	HIRA	2028.5	2029.5	III	G	3	30	120	
			CULG	2029.0	2029.0	III	G	3	57X	160	
			CULG	2114.0	2114.0	III	B	2	57X	160	
			CULG	2119.0	2119.0	III	B	2	57X	150	
			HOLL	2123.0	2123.0	III		1	25	120	
			CULG	2124.0	2124.0	III	B	2	57X	120	
			HIRA	2205.0	2205.5	III	B	2	25X	70	
			HOLL	2205.0	2215.0	III	N	1	25	81	
			HIRA	2215.0	2215.5	III	B	2	25X	120	
			LEAR	2232.0	1003.0	CONT		1	25	180	
21			CULG	0000.0E	0444.0	I	S	2	70	150	
	0000	0740	CULG	0000.0E	0740.0D	III	S,C	1	57X	180	
			CULG	0317.0	0326.0	II	SH	1	57X	260	ESS 900
			LEAR	0317.0	0325.0	II		1	33U	180U	ESS 0597
	0000	0838	HIRA	0317.0	0325.0	II		1	40	230	
			CULG	0318.0	0322.0	II	FN	1	57X	130	
			CULG	0410.0	0410.0	III	B	2	57X	100	
			LEAR	0410.0	0410.0	III		2	25	110	
			HIRA	0410.5	0411.0	III	B	2	25X	70	
	0517	1653	POTS	0517 E	1653 U	I	S,N.C,DC	2	40X	400	100-200MHz no data
			CULG	0539.0	0740.0D	I	S	1	100	180	
			IZMI	0600.0E	1200.0D	III	N	2	25X	95	
	0600	1200	IZMI	0600.0E	1200.0D	I	S,C	2	45U	270X	
			IZMI	0607.0	0607.7	III	G	2	45	180	
			IZMI	0626.3	0627.3	III	G	2	40	270X	
			POTS	0650.5	1518 U	III	GG,N	1	40X	85	
			CULG	0652.0	0652.0	III	B	2	57X	330	
			HIRA	0652.0	0652.5	III	B	1	40	350	
			LEAR	0652.0	0652.0	III		2	25	180	
			SVTO	0652.0	0653.0	III		1	25	180	
			IZMI	0652.1	0653.0	III	G	2	25X	270X	
			POTS	0652.1	0653.1	III	G	3	40X	440	
	0600	1630	BLEN	0652.1	0652.5	III	GG	2	140X	460	
			IZMI	0652.4	0652.6	V		2	45	65	
	0556	1554	ONDR	0758.0	0759.3	DCIM	GG	2	875	1405	
			BLEN	0845.0	1630.0X	I	DC	2	140X	400	
			IZMI	0850.9	0853.8	III	GG	2	40	210	
			POTS	0928.5	0929.1	III	G	2	200U	380	
			BLEN	0928.6	0929.1	III	GG,U	2	160	380	
			IZMI	0928.6	0929.0	III	G	2	50	270X	
			IZMI	0931.4	0931.5	III	G	2	110	270X	
			IZMI	0956.0	0959.7	III	GG	2	40	270X	

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21			IZMI	1002.4	1005.7	III	G	2	25X	130	
			IZMI	1010.0U	1010.0U	CONT		2	45U	160U	
			IZMI	1129.9	1130.1	III	G	2	25X	140	
			HOLL	1322.0	0045.0	CONT		1	64	180	
			PALE	1637.0	0415.0	III	N	1	25	180	
			HOLL	1757.0	1931.0	III	N	1	25	180	
			SGMR	1818.0	1819.0	III		1	30	75	
	2010	2400	CULG	2010.0E	2400.0D	III	S,C	1	57X	180	
	2024	2400	HIRA								
			HOLL	2034.0	2208.0	III	N	1	25	180	
			CULG	2039.0	2043.0	III	G	2	57X	180	
			CULG	2054.0	2054.0	III	G	2	57X	100	
			CULG	2141.0	2259.0	I	S	1	80	180	
			LEAR	2231.0	1003.0	CONT		2	45	180	
22	0000	0740	CULG	0000.0E	0605.0	III	S,C	1	57X	180	
			CULG	0149.0	0410.0	I	S	2	80	250	
			CULG	0410.0	0740.0D	I	S	1	100	230	
			LEAR	0428.0	0429.0	III		2	25	180	
	0000	0836	HIRA	0428.5	0429.0	III	B	2	50	320	
			CULG	0429.0	0429.0	III	B	2	57X	380	
	0501	1637	POTS	0501 E	1637 U	I	S,N,DC	2	200U	400	100-200MHz no data
			IZMI	0550.0E	1200.0D	III	N	1	25X	95	
	0550	1200	IZMI	0550.0E	1200.0D	I	S	2	45	270X	
	0557	1551	ONDR								
			CULG	0605.0	0740.0D	III	N	1	57X	100	
	0610	1315	BLEN	0610.0X	1315.0X	I	DC	2	140X	400	
			IZMI	0640.7	0645.1	III	GG	2	40	170	
			IZMI	0647.4	0650.2	III	G	2	40	65	
			CULG	0656.0	0657.0	III	G	3	57X	250	
			HIRA	0656.0	0657.0	III	B	2	30	300	
			LEAR	0656.0	0657.0	III		3	25	180	
			LEAR	0656.0	0657.0	V		3	25	180	
			IZMI	0656.1	0657.1	III	GG	2	25	210	
			POTS	0656.1	0657.2	III	G	3	40X	350	
			IZMI	0656.2	0657.6	V		2	25X	65	
			POTS	0656.6	0657.6	V	G	3	40X	65	
			POTS	0739	1529 U	III	GG,N	2	40X	85	
			IZMI	0744.0	0747.2	III	G	2	25X	95	
			IZMI	0850.5	0850.7	III	B	2	35	115	
			IZMI	0902.1	0902.4	III	G,HARM	2	25X	120	
			IZMI	0908.8	0909.6	III	G	2	25X	130	
			IZMI	0911.0U	0944.0	III	S	2	25X	270X	
			POTS	0934	1023	I	S,N,DC	2	60	85	
			POTS	1115.3	1117.3	III	G	3	40X	450	
			BLEN	1116.5	1117.2	III	GG,S	3	140X	1000	
			IZMI	1116.6	1117.5	III	GG,C	2	25X	270X	
			POTS	1117.0	1117.5	V	B	3	40X	65	
			SGMR	1117.0	1117.0	III		1	30	55	
			POTS	1145	1218	I	S,N,DC	2	50	85	
			SGMR	1219.0	1654.0	III	N	1	30	60	
			POTS	1231.2	1232.5	III	GG	2	40X	330	
			POTS	1243 U	1410 U	I	S,N,DC	2	40X	80	
			HOLL	1320.0	0043.0	CONT		1	54	180	
			HOLL	1419.0	2049.0	III	N	1	25	180	
			POTS	1426.8	1427.5	III	G	3	40X	350	
			PALE	1637.0	0413.0	CONT		1	25	180	
			CULG	2010.0E	2400.0D	I	S	1	100	180	
	2010	2400	CULG	2010.0E	2400.0D	III	S	1	57X	180	
	2025	2400	HIRA	2046.5	2047.5	III	B	1	30	110	
			HIRA	2049.0	2050.0	III	B	2	25X	220	
			SGMR	2049.0	2050.0	III		1	30	80	
			CULG	2050.0	2050.0	III	B	3	57X	180	
			HOLL	2131.0	2131.0	III		1	25	85	
			HIRA	2131.5	2132.0	III	B	1	25X	70	
			CULG	2201.0	2202.0	III	G	2	57X	180	
			HIRA	2201.0	2202.5	III	G	2	25X	110	
			HOLL	2201.0	2252.0	III	N	1	25	180	
			HIRA	2344.5	2345.0	III	B	1	30	90	

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OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
23			CULG	0000.0E	0740.0D	I	S	1	100	260	
	0000	0740	CULG	0000.0E	0740.0D	III	S	1	57X	180	
	0000	0835	HIRA	0345.5	0346.0	III	B	1	30	190	
			CULG	0346.0	0346.0	III	B	2	57X	180	
			HIRA	0358.5	0359.0	III	B	2	25X	160	
			CULG	0359.0	0359.0	III	B	3	57X	180	
			SVTO	0456.0	1627.0	III	N	1	25	180	
			CULG	0514.0	0514.0	III	B	2	57X	520	
			HIRA	0514.0	0522.0	III	G	2	25X	240	
	0514	1651	POTS	0514.0U	0519.5	III	G,N	2	40X	550	100-200MHz no data
			POTS	0515 U	1651 U	I	S,N,DC	2	200U	400	
			CULG	0515.0	0520.0	III	G	2	57X	260	
	0559	1549	ONDR								
			IZMI	0559.6	0601.4	III	G	2	25X	95	
			IZMI	0600.0E	1200.0D	III	N	2	25X	95U	
	0600	0638	IZMI	0600.0E	1200.0D	I	S	2	45U	270X	
			IZMI	0608.7	0610.9	III	G	2	45	90	
			POTS	0610.3	0610.6	III	B	1	40X	80	
			IZMI	0636.9	0637.0	III	G,C	2	55	190	
			IZMI	0639.0	0640.4	III	G	2	55	190	
			POTS	0646.9	0654.5	III	GG,N	3	40X	430	
			CULG	0647.0	0649.0	III	G	2	57X	330	
			HIRA	0647.0	0649.5	III	G	2	40	200	
	0610	1620	BLEN	0648.5	0649.3	III	GG,S	3	140X	1900	
			POTS	0655	1526 U	III	GG,N	1	40X	80	
			IZMI	0724.8	0725.8	III	G	2	40	95	
			IZMI	0727.4	0730.3	III	GG	1	30	140	
			BLEN	0733.9	0734.9	III	GG,RS	3	140X	1550	
			CULG	0734.0	0735.0	III	G	3	57X	280	
			HIRA	0734.0	0735.0	III	G	3	40	270	
			POTS	0734.0	0734.9	III	GG	3	40X	750	
			SVTO	0734.0	0734.0	III		2	25	180	
			HIRA	0809.0	0812.0	III	G	1	40	190	
			POTS	0809.3	0812.4	III	GG	3	40X	240	
			IZMI	0837.7	0838.9	III	G	1	25X	90	
			IZMI	1115.4	1120.4	III	GG	2	25X	270X	
			POTS	1115.4	1120.7	III	GG	3	40X	450	
			SVTO	1116.0	1119.0	III		2	25	180	
			POTS	1147.0	1148.9	III	G	3	40X	280	
			SGMR	1147.0	1147.0	III		2	30	80	
			POTS	1219.7	1220.9	III	G	3	40X	330	
			POTS	1240.6	1241.3	III	G	2	40X	270	
			SGMR	1247.0	1247.0	III		2	30	80	
			HOLL	1318.0	1318.0	III		1	25	140	
			POTS	1318.2	1318.5	III	B	2	40X	330	
			SVTO	1330.0	1627.0	CONT		1	75U	159U	
			HOLL	1341.0	1343.0	III		1	25	180	
			HOLL	1412.0	1902.0	III	N	1	25	138	
			PALE	1640.0	0412.0	III	N	1	25	180	
			CULG	2010.0E	2400.0D	I	S	1	100	180	
	2010	2400	CULG	2010.0E	2216.0	III	S	1	57X	90	
			HOLL	2053.0	2057.0	III		1	25	180	
	2026	2400	HIRA	2053.5	2054.0	III	B	3	50	300	
			CULG	2054.0	2054.0	III	G	3	57X	180	
			CULG	2129.0	2129.0	III	G	2	57X	180	
			HIRA	2129.5	2130.0	III	B	1	50	260	
			CULG	2219.0	2400.0D	III	N	1	57X	180	
			LEAR	2229.0	0418.0	CONT		1	25	180	
			HIRA	2230.0	2231.0	III	G	1	25X	130	
			HOLL	2230.0	2231.0	III		1	25	141	
24			CULG	0000.0E	0135.0	I	S,C	1	75	260	
	0000	0740	CULG	0000.0E	0141.0	III	N	1	57X	180	
	0000	0833	HIRA	0029.0	0029.5	III	B	1	25X	210	
			CULG	0159.0	0400.0	III	N	1	57X	250	
			CULG	0225.0	0226.0	III	G	2	57X	230	
			HIRA	0225.5	0226.0	III	B	2	80	250	
			HIRA	0250.0	0250.5	III	B	1	120	230	
			CULG	0320.0	0426.0	I	S	1	130	280	

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24			CULG	0516.0	0516.0	III	B	1	57X	180	
	0519	1652	POTS	0519 U	1652 U	I	S,N	2	200U	370	100-200MHz no data
			IZMI	0600.0E	1200.0D	III	N	1	25X	90U	
	0600	1200	IZMI	0600.0E	1200.0D	I	N	1	200	270X	
	0601	1547	ONDR								
			POTS	0601.2	0602.2	DCIM		2	290	800X	
			CULG	0627.0	0627.0	III	B	1	57X	90	
			POTS	0658	1437 U	III	GG,N	2	40X	80	
			CULG	0702.0	0702.0	III	B	1	57X	75	
			CULG	0714.0	0714.0	III	B	1	57X	85	
			IZMI	0714.3	0714.5	III	B	1	50	95	
			IZMI	0718.6	0718.8	III	B	2	35	90	
			CULG	0719.0	0719.0	III	B	1	57X	80	
			IZMI	0838.3	0839.1	III	GG	2	50	270X	
			POTS	0838.3	0851.5	III	G,N	2	40X	480	
			IZMI	0843.4	0844.6	III	GG	2	110	270X	
			IZMI	0846.7	0847.0	III	G	1	140	270	
	0610	1620	BLEN	0846.7	0851.6	III	GG	2	140X	500	
			IZMI	0847.0	0849.7	III	G	2	40	95	
			IZMI	0850.8	0851.5	III	GG,C	2	60	270X	
			SVTO	0851.0	1200.0	III	N	1	25	180	
			IZMI	0855.4	0858.1	III	G,U	2	45	190	
			IZMI	0911.9	0912.4	III	G	2	25X	95	
			IZMI	0917.3	0920.5	III	G	2	25X	250	
			IZMI	0941.8	0944.3	III	G	2	25X	160	
			IZMI	1003.6	1005.3	III	G,C	2	25X	270X	
			POTS	1003.6	1005.4	III	G	3	40X	420	
			POTS	1022.9	1023.4	III	G	3	40X	380	
			IZMI	1023.0	1023.4	III	G,C	2	50	270X	
			SVTO	1053.0	1053.0	III		1	74	180	
			BLEN	1053.3	1058.0	III	GG	2	120X	500	
			IZMI	1053.4	1053.8	III	G,C	2	40	270X	
			POTS	1053.5	1058.1	III	G,N	2	40X	500	
			IZMI	1056.0	1058.0	III	G	2	50	270X	
			IZMI	1129.7	1130.9	III	G	1	45	65	
			BLEN	1340.0	1340.3	III	GG	2	180	340	
			POTS	1340.0	1340.4	III	G	2	40X	340	
			SVTO	1340.0	1340.0	III		1	25U	80U	
			HOLL	1411.0	1413.0	III		1	25	180	
			SGMR	1412.0	1412.0	III		1	30	50	
			SVTO	1412.0	1412.0	III		1	25	148	
			POTS	1412.1	1412.6	III	G	2	40X	270	
			HOLL	1541.0	1542.0	III		1	25	109	
			SVTO	1541.0	1541.0	III		1	25U	80U	
			HOLL	1623.0	1623.0	III		1	25	142	
			SGMR	1623.0	1624.0	III		1	30	80	
			SVTO	1623.0	1623.0	III		1	25	80	
			POTS	1623.4	1623.8	III	G	2	40X	350	
			HOLL	1729.0	1729.0	III		1	25	116	
			SGMR	1729.0	1729.0	III		1	30	65	
			HOLL	1800.0	1801.0	III		1	25	180	
			SGMR	1800.0	1801.0	III		1	30	80	
			HOLL	1834.0	1851.0	III	N	1	25	180	
			HOLL	1941.0	1942.0	III		1	25	180	
			SGMR	1941.0	1942.0	III		3	30	80	
			CULG	2010.0E	2400.0D	I	S	1	65	180	
	2010	2400	CULG	2010.0E	2035.0	III	N	1	57X	160	
			CULG	2139.0	2141.0	III	G	1	57X	180	
			HOLL	2139.0	2139.0	III		1	45	86	
			CULG	2208.0	2209.0	III	G	2	57X	190	
			HOLL	2208.0	2208.0	III		1	25	180	
	2027	2400	HIRA	2208.0	2209.0	III	B	3	25X	170	
			LEAR	2228.0	0322.0	CONT		1	69	180	
			CULG	2231.0	2241.0	III	G	1	57X	100	
			CULG	2342.0	2351.0	III	G	1	57X	170	
25	0000	0740	CULG	0000.0E	0117.0	I	S	1	80	160	
			CULG	0016.0	0152.0	III	N	1	57X	180	
			CULG	0049.0	0050.0	III	G	2	57X	180	

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25			LEAR	0049.0	0050.0	III		1	25	180	
	0000	0831	HIRA	0049.5	0050.5	III	G	2	30	160	
			CULG	0159.0	0159.0	III	B	1	57X	280	
			HIRA	0159.0	0159.5	III	B	1	120	250	
			CULG	0248.0	0248.0	III	B	1	57X	75	
			LEAR	0411.0	0412.0	III		1	89	180	
			CULG	0412.0	0412.0	III	B	2	57X	300	
			HIRA	0412.0	0412.5	III	B	2	90	320	
			CULG	0447.0	0447.0	III	B	1	70	370	
			HIRA	0447.0	0447.5	III	B	1	120	200	
			LEAR	0447.0	0447.0	III		1	66	180	
			CULG	0453.0	0454.0	III	G	1	57X	380	
	0522	1647	POTS	0522 U	0858 U	I	S,N	2	200U	340	100-200MHz no data
			LEAR	0605.0	0608.0	III		1	31	164	
			SVTO	0605.0	0608.0	III		1	37	142	
	0600	1200	IZMI	0605.5	0608.1	III	GG,C,FS	2	40	160	
			CULG	0606.0	0608.0	III	G	2	57X	180	
			HIRA	0606.0	0608.0	III	G	1	40	140	
			POTS	0705	0717	III	G,N	1	40X	80	
			LEAR	0713.0	0716.0	III		1	31	136	
			SVTO	0713.0	0716.0	III		1	33	150	
			IZMI	0713.3	0716.8	III	G	2	40	210	
			HIRA	0713.5	0714.0	III	B	1	80	130	
			CULG	0714.0	0716.0	III	G	1	70	150	
			IZMI	0736.6	0736.9	III	G,F,S	1	50	175	
			CULG	0737.0	0737.0	III	B	1	57X	150	
			POTS	0747	0915	III	G,N	1	40X	85	
			LEAR	0802.0	0806.0	III		1	25	180	
			HIRA	0802.5	0806.0	III	G	1	40	280	
			IZMI	0802.9	0806.0	III	G	2	25X	265	
			SVTO	0803.0	0806.0	III		1	25	83	
			IZMI	0818.0	1020.0U	I	N	1	110	180	
			LEAR	0833.0	0834.0	III		1	30	131	
			SVTO	0833.0	0834.0	III		1	32	124	
			IZMI	0833.7	0834.7	III	G,C	2	35	175	
			LEAR	0914.0	0914.0	III		1	25	151	
			IZMI	0914.1	0914.3	III	G,C	2	40	160	
			POTS	0931.5	0931.9	III	G	2	200U	480	
	0615	1620	BLEN	0931.5	0932.0	III	G,RS	2	200	550	
			IZMI	0931.7	0931.8	III	B	2	180	270X	
			POTS	0932.0	0932.9	I	S,DC	1	220	320	
			POTS	0943.2	0943.5	I	DC	1	260	320	
			LEAR	0950.0	0950.0	III		1	52	180	
			POTS	1004	1014	III	G,N	1	40X	85	
			IZMI	1004.6	1007.1	III	G	1	40	95	
			SVTO	1006.0	1007.0	III		1	37U	83U	
			IZMI	1012.9	1013.9	III	G	1	40	90	
			IZMI	1015.1	1015.2	III	B	1	200	270X	
			POTS	1015.1	1015.5	III	G,U	1	200	370	
			POTS	1039.8	1041.0	III	G	1	200U	380	
			IZMI	1040.4	1040.9	III	G	1	160	270X	
			IZMI	1112.4	1117.1	III	G	1	45	90	
			POTS	1136	1149	I	S,N	1	250	390	
			POTS	1208 U	1243 U	III	G,N	1	40X	80	
			POTS	1255	1258	I	S,N	1	200U	400	
	0602	1545	ONDR	1258.2	1258.3	DCIM	G	2	800X	1841	
			BLEN	1258.3	1258.7	III	GG,RS,U	3	200	2020	
			POTS	1258.4	1258.7	III	G,U	2	200U	800X	
			POTS	1302.8	1303.0	III	B	1	40X	85	
			POTS	1325.6	1325.9	III	B	1	40X	55	
			POTS	1341.2	1341.6	III	G	1	40X	65	
			POTS	1401	1403	I	S,N	1	200U	250	
			SVTO	1405.0	1439.0	III		1	29U	170U	
			BLEN	1405.5	1407.1	III	GG,RS	1	140	1800	
			POTS	1405.5	1407.1	III	GG	2	40X	450	
			HOLL	1406.0	1413.0	III		1	25	180	
			POTS	1411	1602 U	I	S,N	1	200	350	
			POTS	1413.1	1413.5	III	B	2	40X	80	
			POTS	1413.2	1413.5	III	B	2	200U	280	

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25			HOLL	1545.0	1545.0	III		1	25	132	
			PALE	2004.0	0339.0	III	N	1	25	180	
	2010	2400	CULG	2010.0E	2353.0	III	N	1	57X	320	
			HOLL	2051.0	0030.0	III	N	1	25	180	
			CULG	2054.0	2057.0	III	G	3	57X	800	
	2027	2400	HIRA	2054.0	2101.0	III	G	3	60	500	
			HIRA	2126.5	2127.0	III	G	1	100	320	
			LEAR	2227.0	0447.0	III	N	1	25	180	
			HIRA	2259.0	2259.5	III	B	2	100	320	
26			HIRA	0030.0	0036.0	III	G	1	80	370	
	0000	0740	CULG	0030.0	0036.0	III	G	1	80	380	
	0000	0830	HIRA	0030.0	0036.0	III	G	1	80	310	
			CULG	0059.0	0059.0	III	B	1	120	180	
			CULG	0147.0	0147.0	III	B	1	100	200	
			CULG	0206.0	0206.0	III	B	3	57X	420	
			HIRA	0206.0	0206.5	III	B	2	60	260	
			CULG	0207.0	0209.0	III	G	1	80	520	
			CULG	0236.0	0238.0	III	G	2	70	700	
			HIRA	0236.5	0237.5	III	G	2	80	480	
			CULG	0319.0	0320.0	III	G	1	57X	140	
			CULG	0327.0	0400.0	III	N	1	70	460	
			HIRA	0339.5	0340.0	III	B	2	70	230	
			CULG	0404.0	0404.0	III	B	1	57X	80	
			CULG	0510.0	0516.0	III	G	1	200	450	
			HIRA	0510.5	0511.0	III	B	1	210	480	
	0510	1644	POTS	0510.5U	0520.0	DCIM		2	230	520	100-200MHz no data
			POTS	0543	1113 U	I	S,N	1	200U	400	
	0604	1542	ONDR								
			LEAR	0606.0	0611.0	III		1	27	116	
			CULG	0608.0	0612.0	III	G	1	57X	130	
	0638	1200	IZMI	0638.0E	0900.0U	III	N	2	40U	95U	
			POTS	0643	0900 U	III	GG,N	1	40X	80	
			CULG	0648.0	0740.0D	III	N	1	57X	160	
			POTS	0700	0714	DCIM		1	270	500	
			LEAR	0713.0	0731.0	III	N	1	25	180	
			IZMI	0713.6	0714.7	III	G	2	35	140	
			IZMI	0720.3	0723.2	III	GG	2	40	155	
	0615	1615	BLEN	0747.6	0748.3	III	GG,U	3	330	730	
			POTS	0748.4	0749.0	DCIM		2	330	650	
			IZMI	0758.2	0804.1	III	GG	2	40	55	
			IZMI	0813.0	0813.1	III	B	2	45	90	
			HIRA	0815.0	0819.0	III	G	2	200	770	
			IZMI	0815.4	0818.8	III	GG	2	35	270X	
			POTS	0816.0	0820.5	III	GG	2	40X	750	
			IZMI	0823.4	0826.3	III	GG	2	30	155	
			LEAR	0826.0	0826.0	III		1	25	118	
			IZMI	0836.5	0837.3	III	G	2	95	190	
			POTS	0907.8	0908.5	III	GG	2	200U	370	
			IZMI	1004.5	1012.4	III	GG	1	40	270X	
			POTS	1005.7	1010	DCIM		2	200U	670	
			IZMI	1014.1	1014.6	III	G	2	135	270X	
			POTS	1015.2	1015.8	III	G	2	200U	280	
			IZMI	1053.3	1053.5	III	B	2	180	215	
			POTS	1056.3	1059.2	DCIM		2	210	540	
			POTS	1138 U	1441	I	S,N	2	200U	400	
			POTS	1312	1404 U	III	GG,N	1	40X	85	
			HOLL	1348.0	1400.0	III	N	1	25	123	
			POTS	1348.3	1350.2	III	G	3	40X	600	
			SGMR	1350.0	1351.0	III		1	30	60	
	2010	2400	CULG	2010.0E	2149.0	III	N	1	57X	180	
			HOLL	2104.0	2109.0	III		1	25	135	
			PALE	2104.0	2109.0	III		1	25	180	
			SGMR	2104.0	2109.0	III		1	30	80	
	2028	2400	HIRA	2104.5	2110.0	III	G	1	30	150	
			CULG	2105.0	2110.0	III	G	2	57X	180	
			HIRA	2121.5	2122.0	III	B	1	40	200	
27	0000	0828	HIRA	0036.5	0037.0	III	B	1	80	120	

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
27	0000	0740	CULG	0037.0	0037.0	III	G	1	57X	150	
			LEAR	0316.0	0400.0	III	N	1	33	117	
			CULG	0345.0	0356.0	UNCLF		1	57X	90	
			CULG	0419.0	0421.0	III	G	1	57X	270	
	0521	1640	POTS	0521 E	0600 U	I	S,N	1	200U	360	100-200MHz no data
			CULG	0526.0	0527.0	III	G	1	57X	300	
			POTS	0526.2	0530.1	III	G,N	2	200U	380	
			POTS	0623 U	0847	I	S,N	1	200U	370	
			CULG	0624.0	0626.0	III	G	1	57X	410	
			LEAR	0624.0	0625.0	III		1	25	180	
	0550	1205	IZMI	0624.3	0625.8	III	GG	2	25X	270X	
			POTS	0624.4	0625.8	III	G	2	40X	400	
	0615	1615	BLEN	0624.8	0625.6	III	G	2	120X	400	
			CULG	0638.0	0640.0	III	G	1	57X	100	
			IZMI	0638.2	0639.3	III	G	1	45	95	
			IZMI	0643.5	0644.0	III	G	1	60	100	
			IZMI	0701.0U	0955.0U	I	N	1	60	270	
			IZMI	0714.0	0714.1	III	B	1	45	65	
			IZMI	0823.3	0823.3	III	B	1	50	65	
			IZMI	0842.5	0844.7	III	G	1	45	90	
			IZMI	0857.3	0858.2	III	G	1	45	100	
			POTS	0908	0928	I	S,N	1	200U	330	
			POTS	1021.1	1021.4	III	G,U	1	200U	400	
			POTS	1039	1151	I	S,N	1	300	400	
			POTS	1242.4	1243.0	DCIM		2	270	520	
			ONDR	1301.1	1321.5	DCIM	GG	2	800X	2000X	
			POTS	1301.3	1311.8	III	GG	3	40X	800X	
	0605	1540	ONDR	1301.3	1318.2	DCIM	GG	2	2000X	4500X	
			BLEN	1301.4	1311.4	II	C	3	120X	4000X	
			SGMR	1304.0	1316.0	III		1	30	70	
			POTS	1313.3	1326	II		3	40X	85	
			SGMR	1316.0	1325.0	II		2	30	60	ESS 0400
			ONDR	1343.3	1344.4	DCIM	G	2	1194	1639	
			POTS	1435.5	1444.5	I	S,N	1	40X	75	
			POTS	1436	1443	III	G,N	1	200U	400	
			ONDR	1436.1	1445.4	DCIM	G,W	1	2000X	4500X	
			ONDR	1437.5	1443.4	DCIM	G	1	800X	2000X	
			BLEN	1438.2	1443.2	III	C	2	170	4000X	
			POTS	1440.8	1442.9	III	G	2	200U	270	
			POTS	1612.0	1614.2	I	S,N	1	260	340	
			BLEN	1613.5	1615.0X	DCIM	P	2	400	1000	
			POTS	1613.5	1614.9	DCIM		1	350	520	
			HOLL	1932.0	2039.0	III	N	1	25	180	
			PALE	1933.0	1938.0	III		1	25	180	
			SGMR	1933.0	1937.0	III		1	30	55	
	2000	2400	CULG	2008.0	2008.0	III	B	2	57X	130	
			CULG	2034.0	2039.0	III	G	1	57X	180	
			HOLL	2115.0	2116.0	III		1	25	152	
	2029	2400	HIRA	2115.5	2116.0	III	B	1	60	200	
			CULG	2116.0	2116.0	III	G	1	57X	180	
			CULG	2133.0	2133.0	III	B	1	70	100	
			CULG	2300.0	2300.0	III	B	1	130	180	
28	0000	0740	CULG	0027.0	0028.0	III	G	1	57X	100	
			CULG	0053.0	0055.0	III	G	1	120	180	
			CULG	0101.0	0116.0	III	GG	1	57X	1000	
			LEAR	0101.0	0118.0	III	N	1	25	180	
			CULG	0505.0	0508.0	III	G	1	57X	75	
			CULG	0531.0	0531.0	III	B	1	57X	180	
	0600	1200	IZMI	0605.7	0606.4	III	G	1	60	145	
			CULG	0606.0	0658.0	III	N	1	57X	180	
			IZMI	0610.0	0611.1	III	GG	2	45	270X	
			LEAR	0610.0	0611.0	III		1	25	147	
			SVTO	0610.0	1412.0	III	N	2	25	180	
	0000	0827	HIRA	0610.0	0611.0	III	G	2	30	230	
	0521	1640	POTS	0610.1	0611.0	III	G	1	40X	300	100-200MHz no data
			POTS	0615	0721 U	III	G,N	1	40X	75	
			IZMI	0634.0	0634.8	III	G	1	45	65	
			IZMI	0643.0	0643.1	III	G	2	110	190	

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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
28			IZMI	0646.0	0648.0	III	GG	2	45	250	
			POTS	0646.1	0647.4	III	G	1	200U	270	
			POTS	0652.7	0705	III	G,N	2	40X	380	
			LEAR	0657.0	0700.0	III		1	25	180	
			HIRA	0657.5	0701.0	III	G	2	50	270	
	0615	1615	BLEN	0657.6	0658.3	III	RS	2	140	1400	
			IZMI	0657.7	0658.3	III	GG	2	25X	270X	
			IZMI	0700.5	0700.8	III	GG	2	25X	270X	
			CULG	0701.0	0701.0	III	B	2	57X	260	
			IZMI	0703.0	0703.3	III	G	1	85	250	
			LEAR	0807.0	0808.0	III		1	25	145	
			POTS	0807.5	0808.9	III	G	2	40X	460	
			IZMI	0807.7	0808.8	III	GG	2	40	180	
			HIRA	0808.5	0809.0	III	B	1	100	160	
			LEAR	0922.0	0929.0	III		1	25	159	
			IZMI	0922.5	0923.2	III	G	1	55	135	
			IZMI	0926.4	0929.8	III	GG	2	40	160	
			POTS	0927.6	0929.1	III	G	2	40X	85	
			IZMI	1012.9	1013.7	III	G	2	35	190	
			POTS	1012.9	1013.7	III	G	2	40X	85	
			POTS	1013.2	1154	I	S,N	1	200U	340	
			POTS	1030	1057	III	GG	3	40X	740	
			IZMI	1030.0	1050.0	III	S	2	25X	270X	
			ONDR	1033.3	1043.2	DCIM	GG	1	800X	2000X	
			BLEN	1034.1	1051.5	DCIM	P	3	140	4000X	
	0607	1538	ONDR	1038.4	1045.0	DCIM	G,W	1	2000X	4500X	
			IZMI	1050.0	1111.0	III	N	1	45	270	
			POTS	1108	1126	III	GG,N	2	40X	400	
			IZMI	1111.7	1111.8	III	G	2	135	240	
			IZMI	1117.4	1118.2	III	GG	2	35	160	
			POTS	1201.3	1240 U	III	GG,N	3	40X	270	
			POTS	1240 U	1314	III	GG,N	2	40X	85	
			POTS	1304	1510	I	S,N,C	2	200U	400	
			POTS	1329	1419	III	GG,N	2	40X	560	
			HOLL	1335.0	1337.0	III		1	25	180	
			SGMR	1336.0	1336.0	III		1	30	55	
			HOLL	1346.0	0025.0	III	N	1	25	180	
			BLEN	1359.5	1412.4	DCIM	P	2	130	2000	
			ONDR	1407.5	1411.4	DCIM	G	1	800X	1972	
			SGMR	1410.0	2132.0	III	N	2	30	80	
			POTS	1429	1458	III	G,N	1	40X	80	
			POTS	1558.4	1559.2	III	G	2	40X	380	
			POTS	1605	1611	I	S,N	1	200U	330	
			PALE	1757.0	0407.0	III	N	1	25	180	
	2000	2400	CULG	2008.0	2012.0	III	G	2	57X	280	
			CULG	2012.0	2015.0	III	G	1	57X	450	
			CULG	2024.0	2048.0	III	N	1	57X	180	
			CULG	2043.0	2045.0	III	G	3	57X	300	
	2030	2400	HIRA	2043.5	2045.0	III	G	3	30	280	
			CULG	2046.0	2048.0	III	G	1	57X	630	
			CULG	2124.0	2127.0	III	G	3	57X	180	
			HIRA	2124.5	2134.0	III	G	3	25X	210	
			CULG	2130.0	2134.0	III	G	3	57X	550	
			HIRA	2145.5	2146.0	III	B	1	25X	100	
			CULG	2221.0	2222.0	III	G	1	57X	110	
			HIRA	2221.0	2222.0	III	B	1	25X	100	
			LEAR	2224.0	1005.0	III	N	2	25	132	
			CULG	2258.0	2258.0	III	G	2	57X	180	
			HIRA	2258.0	2258.5	III	B	1	30	110	
			CULG	2310.0	2359.0	III	N	1	57X	180	
			CULG	2312.0	2316.0	III	G	2	57X	180	
			HIRA	2312.0	2312.5	III	B	1	30	150	
			HIRA	2315.5	2316.0	III	B	1	25X	130	
29	0000	0740	CULG	0020.0	0740.0D	III	N	1	57X	180	
	0000	0826	HIRA	0020.0	0530.0	III	G	1	25X	240	
			CULG	0112.0	0115.0	III	G	2	57X	150	
			CULG	0413.0	0413.0	III	B	2	57X	180	
			SVTO	0521.0	1616.0	III	N	2	25	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
29	0523	1637	POTS	0548 U	1238 U	I	S,N,DC	2	200U	400	100-200MHz no data
	0551	1200	IZMI	0553.0U	1200.0D	III	N	2	25X	270X	
			IZMI	0602.1	0609.4	III	GG,C,FS	2	25X	270X	
			SVTO	0603.0	0609.0	III		2	25	180	
			HIRA	0603.5	0609.5	III	G	2	25X	300	
			POTS	0603.7	0643.5	III	GG,N	3	40X	800X	
			CULG	0604.0	0609.0	III	G	3	57X	1500	
			SVTO	0619.0	0620.0	III		2	25	180	
	0615	1615	BLEN	0619.7	0620.5	III	GG,RS,V	3	100X	2700	
			IZMI	0619.9	0621.4	III	GG,C	2	25X	270X	
			CULG	0620.0	0621.0	III	G	3	57X	280	
			HIRA	0620.0	0622.0	III	G	3	25X	330	
			IZMI	0620.8	0623.3	I	GG	2	50	180	
			SVTO	0629.0	0630.0	III		2	25	180	
			SVTO	0629.0	0643.0	III	N	3	25	180	
			IZMI	0629.2	0631.6	III	GG	2	25X	270X	
			HIRA	0629.5	0631.5	III	G	2	30	220	
			BLEN	0629.7	0642.7	III	GG,RS,V	3	100X	4000X	
			CULG	0630.0	0631.0	III	G	3	57X	1100	
	0609	1535	ONDR	0630.0	0643.0	DCIM	GG,FS	2	800X	2000X	
			IZMI	0632.7	0640.2	III	GG,C	3	25X	270X	
			HIRA	0634.0	0639.0	III	G	3	25X	2000	
			LEAR	0634.0	0637.0	III		3	25	180	
			BLEN	0634.8	0642.6	DCIM	P	3	400	4000X	
			CULG	0635.0	0637.0	III	G	3	57X	1800X	
			CULG	0639.0	0643.0	III	G	3	57X	1000	
			HIRA	0640.5	0643.5	III	G	2	25X	320	
			IZMI	0640.6	0643.4	III	GG	2	25X	270X	
			POTS	0647	0901 U	III	GG,N	2	40X	85	
			IZMI	0734.3	0735.8	III	GG	2	25X	75	
			IZMI	0737.3	0742.5	III	GG	2	25X	160	
			HIRA	0747.0	0750.0	III	G	2	30	130	
			IZMI	0747.0	0753.2	III	GG,C	2	25X	270X	
			LEAR	0747.0	0750.0	V		2	25	180	
			SVTO	0747.0	0750.0	V		3	25	150	
			POTS	0747.6	0749.3	III	GG	3	40X	85	
			IZMI	0747.9	0750.3	V		2	25X	70X	
			POTS	0748.5	0751.8	V	G	3	40X	65	
			IZMI	0823.7	0827.0	III	GG	2	25X	270X	
			POTS	0824.0	0826.3	III	G	2	40X	270	
			IZMI	0830.8	0831.4	III	G,C	2	40	125	
			ONDR	0838.0	0856.5	DCIM	G,W	1	2000X	4500X	
			BLEN	0848.1	0856.8	DCIM	P	2	140	4000X	
			ONDR	0848.2	0856.5	DCIM	G	2	800X	2000X	
			IZMI	0851.7	0856.9	III	GG,FS	2	25X	270X	
			BLEN	0854.0	0855.7	III	G	2	140	4000X	
			IZMI	0906.0	0908.5	III	GG	2	40	190	
			IZMI	0946.7	0949.9	III	GG	2	25X	250	
			IZMI	1032.2	1036.1	III	GG	2	25X	270X	
			IZMI	1039.4	1040.4	III	G	2	25	145	
			IZMI	1051.5	1055.4	III	GG	2	25X	140	
			IZMI	1103.0	1103.6	III	G,C	2	25X	155	
			IZMI	1117.2	1119.1	III	GG	2	25X	210	
			IZMI	1129.7	1140.5	III	GG	2	25X	240	
			IZMI	1143.5	1144.4	III	G	2	25X	145	
			BLEN	1147.9	1148.7	III	G	2	140	800	
			IZMI	1147.9	1148.8	III	G	2	25X	180	
			SGMR	1237.0	1241.0	III		1	30	80	
			HOLL	1400.0	1511.0	III	N	2	25	180	
			SGMR	1402.0	1511.0	III	N	3	30	80	
			POTS	1407.7	1424	I	S,N	1	200U	400	
			SVTO	1408.0	1410.0	V		2	25	180	
			POTS	1408.3	1419.7	III	GG	3	40X	85	
			POTS	1408.4	1408.9	DCIM		2	360	420	
			POTS	1409.0U	1411.3	V	G	3	40X	75	
			POTS	1418.3	1419.1	DCIM		2	310	550	
			POTS	1418.9	1419.2	V	B	3	40X	65	
			ONDR	1446.1	1449.3	DCIM	G	1	2000X	4500X	
			BLEN	1446.5	1452.3	III	GG,C,RS	3	140	4000X	

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29			POTS	1447.0	1459.6	III	GG	3	40X	400	
			SVTO	1447.0	1450.0	III		2	25	180	
			POTS	1451 U	1500	I	S,N	1	200U	400	
			POTS	1511.3	1511.7	III	G	2	40X	85	
	2000	2400	CULG	2000.0E	2312.0	III	N	1	57X	160	
			HOLL	2002.0	2046.0	III	N	1	25	152	
			CULG	2013.0	2013.0	III	G	2	57X	180	
			LEAR	2222.0	0419.0	CONT		1	25	180	
			CULG	2224.0	2225.0	III	G	2	57X	130	
			HOLL	2224.0	2225.0	III		1	25	86	
			LEAR	2224.0	2225.0	III		2	25	136	
	2031	2400	HIRA	2224.0	2225.5	III	G	2	25X	110	
			LEAR	2301.0	2302.0	III		2	25	125	
			CULG	2302.0	2302.0	III	B	2	57X	160	
			HIRA	2302.0	2302.5	III	B	1	60	110	
			CULG	2325.0	2345.0	III	N	1	57X	160	
30	0000	0740	CULG	0026.0	0740.0D	III	N	1	30U	180	
			CULG	0045.0	0120.0	III	N	2	57U	180	
	0000	0824	HIRA	0045.0	0119.0	III	G	1	25X	200	
			LEAR	0047.0	0119.0	III	N	2	25	180	
			CULG	0237.0	0237.0	III	B	2	57U	160	
			CULG	0241.0	0507.0	I	S	1	130	180	
			HIRA	0305.0	0313.0	III	G	3	25X	400	
			LEAR	0309.0	0312.0	III		3	25	180	
			CULG	0310.0	0313.0	III	G	3	57U	360	
			LEAR	0338.0	0404.0	III	N	2	25	180	
			CULG	0350.0	0353.0	III	G	2	57X	180	
			HIRA	0350.0	0353.0	III	G	1	30	200	
			CULG	0403.0	0405.0	III	G	3	18	740	
			HIRA	0403.0	0405.0	III	G	3	25X	210	
			HIRA	0419.5	0425.5	III	G	3	25X	400	
			CULG	0420.0	0425.0	III	GG	3	18X	850	
			LEAR	0420.0	0425.0	V		3	25	180	
			LEAR	0425.0	0430.0	II		1	28	106	ESS 1062
			HIRA	0425.5	0429.0	II		1	50	100	
			CULG	0426.0	0428.0	II	FN	1	35	50	
			CULG	0426.0	0430.0	II	SH	2	57U	100	ESS 950
			LEAR	0517.0	0524.0	III		2	25	180	
			HIRA	0517.5	0524.5	III	G	1	25X	210	
	0519	1635	POTS	0519 U	0553 U	I	S,N	2	200U	400	100-200MHz no data
			SVTO	0519.0	0523.0	III		2	25	180	
			POTS	0519.7U	0523.4	III	G	2	40X	270	
			CULG	0520.0	0523.0	III	G	3	20	180	
			LEAR	0540.0	0547.0	III		3	25	180	
			HIRA	0540.5	0548.0	III	G	3	25X	300	
			SVTO	0541.0	0547.0	III		2	25	180	
			POTS	0541.7	0547.8	III	GG	3	40X	800X	
			CULG	0542.0	0546.0	III	G	3	18	1000	
			IZMI	0550.0E	0552.7	III	GG	2	40	95	
	0550	1200	IZMI	0550.0E	1200.0D	III	N	1	45U	95U	
			POTS	0625 U	1635 U	I	S,N,DC	2	200U	400	
			LEAR	0625.0	0628.0	III		1	25	126	
			SVTO	0625.0	0629.0	III		1	25	84	
			IZMI	0625.5	0628.6	III	GG	2	25X	140	
			POTS	0625.5	0628.6	III	GG	2	40X	85	
			HIRA	0627.5	0628.5	III	B	1	30	110	
			POTS	0627.6	0628.1	DCIM		2	330U	500	
	0615	1610	BLEN	0627.6	0628.1	III	GG	1	200	500	
			POTS	0640.8	0641.2	III	B	2	40X	50	
			IZMI	0655.5	0704.1	III	GG,C	2	25X	270X	
			POTS	0655.7	0705.9	III	GG,N	3	40X	660	
			SVTO	0656.0	0706.0	III		2	25	180	
			LEAR	0657.0	0704.0	III		2	25	180	
			HIRA	0658.5	0704.0	III	G	3	30	480	
			CULG	0659.0	0704.0	III	G	3	25	480	
			BLEN	0700.0	0703.5	III	GG,S	2	100X	1600	
			IZMI	0704.8	0706.0	III	B	2	25X	95	
			LEAR	0706.0	0708.0	II		1	43	58	ESS 0717

SOLAR RADIO EMISSION
Spectral Observations

SEPTEMBER 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
30			SVTO	0706.0	0708.0	II		1	48	58	ESS 0724
			POTS	0706.8	0710	II		2	40X	58	
			IZMI	0706.9	0708.5	II		2	48	55	
			IZMI	0714.0U	1200.0D	I	S	1	110	270X	
			LEAR	0717.0	0832.0	III	N	1	25	180	
			SVTO	0717.0	0833.0	III	N	1	25	180	
			IZMI	0717.8	0718.0	III	B	1	35	170	
			POTS	0717.9	0832 U	III	GG,N	2	40X	85	
			IZMI	0720.0	0735.0	III	GG	2	40	95	
			POTS	0928	1419	III	GG,N	3	40X	85	
			IZMI	1001.5	1002.6	III	GG	2	30	110	
			IZMI	1010.0	1011.8	III	GG,C	2	25X	190	
			SVTO	1010.0	1328.0	III	N	2	25	180	
			IZMI	1013.9	1015.5	III	GG,C	2	25X	125	
			POTS	1014.6	1015.0	DCIM		2	400	620	
			IZMI	1029.5	1036.3	III	GG,C	2	25X	215	
			BLEN	1033.8	1042.7	DCIM	P,C	2	150	4000X	
			IZMI	1038.1	1043.3	III	GG,C	2	25X	160	
	0610	1533	ONDR	1039.0	1042.5	DCIM	G,W	1	2000X	4500X	
			POTS	1040.8	1041.6	DCIM		2	400	580	
			IZMI	1046.6	1047.1	III	G	2	25X	95	
			IZMI	1100.7	1101.1	III	G	2	35	190	
			IZMI	1115.1	1116.2	III	G,C	2	30	165	
			IZMI	1126.4	1129.8	III	GG	2	30	270X	
			POTS	1127.4	1127.9	III	G	2	40X	430	
			SGMR	1138.0	1227.0	III	N	3	30	80	
			SVTO	1138.0	1145.0	V		3	25	180	
			IZMI	1138.3	1147.1	III	GG,C	2	25X	270X	
			BLEN	1138.7	1143.9	III	GG,RS	2	100X	1800	
			POTS	1139	1144	III	GG	3	40X	400	
			ONDR	1140.1	1143.4	DCIM	G	1	800X	1986	
			IZMI	1150.9	1151.3	III	G	2	25X	160	
			POTS	1214.3	1215.1	III	GG	2	200U	390	
			SGMR	1323.0	1323.0	III		3	30	80	
			HOLL	1452.0	1454.0	III		1	25	142	
			SGMR	1452.0	1454.0	III		2	30	65	
			POTS	1452.2	1455.5	III	GG	3	40X	85	
			BLEN	1452.7	1455.3	DCIM	P	2	380	540	
			PALE	1808.0	0332.0	III	N	1	25	180	
			HOLL	1957.0	2347.0	III	N	1	25	180	
			PALE	1957.0	0201.0	III	N	1	25	180	
	2000	2400	CULG	2006.0	2007.0	III	G	3	20	150	
			CULG	2015.0	2400.0D	III	N	1	57U	180	
			CULG	2019.0	2021.0	III	G	3	25	180	
			CULG	2055.0	2055.0	III	B	1	25	160	
	2031	2400	HIRA	2055.0	2055.5	III	B	1	30	180	
			CULG	2120.0	2400.0D	I	S	1	110	180	
			CULG	2124.0	2133.0	III	GG	3	20	180	
			HIRA	2124.0	2126.0	III	G	2	30	200	
			SGMR	2124.0	2131.0	III		2	30	80	
			HIRA	2128.0	2132.0	III	G	2	30	130	
			HIRA	2158.5	2200.0	III	B	2	25X	400	
			CULG	2159.0	2200.0	III	G	3	25	280	
			HIRA	2208.0	2209.0	III	B	1	50	190	
			LEAR	2222.0	0024.0	CONT		1	75	180	
			LEAR	2336.0	0350.0	III	N	1	35	135	