S O L A R R A D I O E M I S S I O N
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Day	OBSERVATION Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
01			LEAR	0004.0	0943.0	CONT		2	30	60	
	0000	0745	CULG	0010.0	0010.0	III	B	1	30	130	
			CULG	0025.0	0248.0	III	S	1	18	90	
			CULG	0315.0	0317.0	UNCLF		1	35	90	
			CULG	0430.0	0430.0	III	G	1	18	90	
			CULG	0529.0	0604.0	III	N	1	25	90	
			CULG	0532.0	0639.0	I	S	1	130	180	
	0000	0835	HIRA	0602.0	0603.0	III	B	1	120	500	
			CULG	0603.0	0603.0	III	B	1	120	640	
	0646	1200	IZMI	0646.0E	1200.0D	I	S	2	135	270X	
			IZMI	0700.3	0702.2	III	GG	2	80	270X	
			IZMI	0702.4	0702.5	III	G	3	65	270X	
			CULG	0703.0	0703.0	III	B	1	60	230	
			IZMI	0747.0	1200.0D	III	N	1	45	95	
			IZMI	0842.8	0845.8	III	GG	1	120	270X	
			SVTO	1014.0	1015.0	III		1	62	75	
			IZMI	1014.1	1015.6	III	GG	2	50	270X	
	0655	1530	ONDR	1014.2	1014.5	DCIM	G	1	800X	2000X	
	0609	1405	POTS	1014.4	1016.9	III	G	2	40X	375U	
			IZMI	1015.9	1016.3	III	G	3	55	270X	
			IZMI	1109.8	1110.7	III	B	2	38	95	
			POTS	1110.6	1110.8	III	B	1	40X	90U	
			POTS	1114 E	1405 U	I	S,C,DC	2	80	375U	
			SVTO	1147.0	1148.0	III		1	35	85	
			IZMI	1147.3	1148.3	III	GG,C	2	30	270X	
			POTS	1147.4	1148.2	III	G	2	40X	375U	
			POTS	1201.9	1202.1	III	G	1	110U	170U	
			SVTO	1210.0	1210.0	III		1	35	85	
			POTS	1210.1	1211.0	III	G	2	40X	340U	
			POTS	1213.2	1213.3	III	B	1	40X	70	
			POTS	1220.0	1220.1	III	B	1	110U	150	
			POTS	1258.9	1259.2	III	G	2	110U	170U	
			POTS	1301.7	1301.8	III	B	1	40X	65	
			POTS	1305	1357	III	N	1	40X	70	
			SGMR	1553.0	1553.0	III		1	30	70	
			SVTO	1553.0	1553.0	III		1	50U	76U	
	2030	2400	CULG	2030.0E	2400.0D	III	S	1	18	160	
			CULG	2044.0	2046.0	III	G	2	20	300	
			PALE	2044.0	2046.0	III		2	25	75	
			SGMR	2045.0	2046.0	III		2	35	75	
			PALE	2101.0	2103.0	III		1	25	45	
			PALE	2115.0	0026.0	III	N	2	25	75	
	2104	2400	HIRA	2256.0	2257.0	III	B	2	40	240	
			HIRA	2337.0	2341.0	III	G	2	30	300	
			LEAR	2337.0	0823.0	CONT		2	30	80	
			CULG	2338.0	2341.0	III	G	2	18X	300	
			LEAR	2340.0	2341.0	III		2	30	80	
02	0000	0745	CULG	0000.0E	0138.0	III	S	1	18	160	
			CULG	0100.0	0101.0	III	G	2	40	180	
			LEAR	0213.0	0217.0	III		3	30	80	
			PALE	0213.0	0214.0	III		2	30	75	
			CULG	0214.0	0217.0	III	G	3	18X	350	
	0000	0836	HIRA	0214.0	0215.0	III	B	3	40	340	
			CULG	0224.0	0227.0	III	G	1	28	300	
			CULG	0245.0	0251.0	III	GG	3	18	270	
			HIRA	0245.0	0250.0	III	G	3	30	270	
			LEAR	0245.0	0633.0	III	N	3	30	80	
			CULG	0259.0	0300.0	III	G	2	28	180	
			HIRA	0259.0	0300.0	III	B	1	40	200	
			CULG	0306.0	0308.0	III	G	1	40	180	
			CULG	0336.0	0745.0D	III	S	1	20	180	
			HIRA	0452.0	0457.0	III	G	1	50	200	
			CULG	0453.0	0457.0	III	G	2	20	180	
			SVTO	0644.0	0644.0	III		1	39U	50U	
			SVTO	0654.0	1620.0	CONT		2	35	85	
			IZMI	0720.0E	1200.0D	III	S	2	41	120	
	0720	1200	IZMI	0720.0E	1200.0D	I	S,C	2	40	270X	
			IZMI	0720.9	0728.4	III	GG	2	25	95	

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02			IZMI	0821.7	0822.9	III	GG	2	40	270X	
			HIRA	0823.0	0825.0	III	G	3	40	270	
			IZMI	0823.0	0824.2	III	GG,C	2	30	270	
			LEAR	0823.0	0906.0	IV		3	30	80	
			SVTO	0823.0	0829.0	V		2	35	85	
			IZMI	0824.2	0826.8U	III	GG	2	25X	270X	
			IZMI	0824.2	0828.0U	CONT		2	25X	250	
			ONDR	0824.2	0836.0	DCIM	GG	2	800X	2000X	
	0653	1534	ONDR	0824.2	0828.3	DCIM	GG	2	2000X	4500X	
	0630	1551	POTS	0824.3	0824.9	III	G	3	40X	250U	
	0730	1605	BLEN	0824.4	0836.0	III	GG,RS	3	1000X	2800X	
			POTS	0824.9	0826.0	V		2	40X	65	
			IZMI	0826.8	0845.0U	II	HARM	2	25X	270X	
			IZMI	0826.8U	1200.0U	CONT		1	45	160	
			HIRA	0827.0	0831.0	II		2	40	70	ESS 1100
			SVTO	0827.0	0846.0	II		2	35	85	ESS 2000
			POTS	0827.4	0835.8	II	SH,H	2	75	170U	
			POTS	0827.5U	0840.0	II	F,H	2	40X	75	
			IZMI	0835.6	0836.2	III	G	1	35	270X	
			LEAR	0906.0	1035.0	CONT		1	30	80	
			IZMI	0940.2	0940.7	III	G	2	35	180	
			IZMI	0942.1	0942.9	III	GG	2	30	270X	
			POTS	0942.5	0942.8	III	G	1	40X	325U	
			IZMI	1005.8	1006.7	III	G	2	40	95	
			POTS	1006	1539	III	N	1	40X	90U	
			POTS	1010 U	1526 U	I	S,C,DC	3	40X	400U	
			IZMI	1013.7	1014.6	III	G	2	45	180	
			IZMI	1051.7	1053.1	III	G	2	25	270X	
			POTS	1052.1	1052.6	III	G	2	40X	250U	
			IZMI	1058.0U	1200.0D	III	N	2	25	95	
			IZMI	1117.1	1118.0	III	G,RS	2	30	115	
			POTS	1156.1	1156.5	III	G	3	40X	225U	
			SGMR	1213.0	1718.0	CONT		2	30	80	
			POTS	1336.4	1336.8	III	B	3	40X	170U	
			SGMR	1337.0	1343.0	III		3	30	80	
			SVTO	1337.0	1342.0	V		3	35	85	
			ONDR	1337.4	1344.2	DCIM	GG	2	2000X	4500X	
			ONDR	1337.5	1340.3	DCIM	GG	2	800X	2000X	
			POTS	1337.6	1344.3	III	GG,C	3	40X	250U	
			BLEN	1339.4	1339.6	III	RS	3	1000X	1500	
			SVTO	1341.0	1347.0	II		3	35U	85U	ESS 0700
			POTS	1447.5	1447.9	III	G	3	40X	170U	
			POTS	1453.1	1453.6	III	G	3	40X	170U	
			SVTO	1528.0	1529.0	III		2	35	85	
			SGMR	1609.0	1610.0	III		2	30	80	
			SVTO	1609.0	1610.0	III		2	35	85	
			PALE	1854.0	1855.0	III		2	25	75	
			SGMR	1854.0	1855.0	III		2	30	80	
			PALE	1957.0	0103.0	III	N	1	25	60	
			CULG	2030.0E	2400.0D	III	N	1	20	130	
	2030	2400	CULG	2030.0E	2400.0D	I	S	1	60	180	
			CULG	2055.0	2058.0	III	G	3	18	300	
			SGMR	2056.0	2057.0	III		2	30	80	
	2103	2400	HIRA								
			LEAR	2338.0	2338.0	III		2	36	80	
03			CULG	0000.0E	0035.0	III	N	1	20	130	
	0000	0745	CULG	0000.0E	0745.0D	I	S	1	80	180	
			LEAR	0024.0	0024.0	III		1	35	60	
			LEAR	0034.0	0451.0	III	N	1	30	75	
			CULG	0207.0	0218.0	III	G	1	25	180	
			PALE	0209.0	0209.0	III		1	35	60	
			CULG	0211.0	0216.0	III	G	2	20	1100	
	0000	0836	HIRA	0211.0	0214.0	III	G	3	40	1300	
			CULG	0212.0	0230.0	II	FN,H	3	18	90	SWF
			CULG	0212.0	0235.0	II	SH,H	3	40	180	FLA 1B E
			PALE	0213.0	0241.0	IV		3	25	75	
			HIRA	0214.0	0222.0	II	FN	3	30	90	
			HIRA	0214.0	0230.0	II	SH	3	50	140	

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03			CULG	0218.0	0315.0	IV		1	30	170	
			CULG	0357.0	0357.0	III	B	1	50	300	
			CULG	0411.0	0411.0	III	B	1	18	90	
			LEAR	0546.0	0634.0	III	N	1	30	45	
			HIRA	0632.0	0634.0	III	G	1	40	200	
			LEAR	0632.0	0633.0	III		3	30	80	
			SVTO	0632.0	0632.0	III		1	35	85	
	0630	1551	POTS	0632.6	0632.8	III	B	2	40X	120	
			LEAR	0636.0	0937.0	CONT		3	30	80	
			POTS	0652 E	1529	I	S,C,DC	3	80	250U	
			IZMI	0701.0E	0821.0U	III	S	2	40	180	
	0701	1200	IZMI	0701.0E	1200.0D	I	S	2	95	270X	
			SVTO	0724.0	1511.0	CONT		1	35	85	
			POTS	0726	1420	III	N	1	40X	90U	
			IZMI	0821.0	1200.0D	III	N	1	40	95	
			POTS	0845.4	0847.2	III	GG	3	40X	170U	
			IZMI	0845.5	0847.3	III	GG	2	25X	270X	
			LEAR	0846.0	0936.0	III	N	3	30	80	
			IZMI	0848.6	0850.0	III	G	2	45	125	
			IZMI	0856.8	0857.4	III	G	2	40	270X	
			POTS	0856.8	0857.2	III	G	3	40X	170U	
			IZMI	0914.0	0914.8	III	G	2	25	135	
			POTS	0914.0	0914.4	III	G	2	40X	150	
			IZMI	0914.1	0914.5	V		2	50	70	
			IZMI	0926.8	0927.3	III	GG	2	45	270X	
			POTS	0926.8	0927.3	III	G	3	40X	170U	
			IZMI	0929.2	0929.4	III	B	2	35	160	
	0650	1533	ONDR	1042.1	1050.4	DCIM	GG	2	2000X	4500X	
			ONDR	1044.4	1049.5	DCIM	GG	1	965	2000X	
	0730	1610	BLEN	1044.8	1053.0	DCIM	C	2	1500	2800X	
			IZMI	1119.6	1119.8	III	B,FS	2	45	120	
			ONDR	1147.3	1148.1	DCIM	G	1	800X	1625	
			POTS	1211.9	1212.2	III	B	1	40X	65	
	2030	2400	CULG	2030.0E	2400.0D	I	S	1	60	180	
			CULG	2056.0	2358.0	III	N	1	18	180	
			PALE	2139.0	2140.0	III		2	25	75	
			PALE	2220.0	2220.0	III		1	25	45	
			LEAR	2322.0	0351.0	III	N	1	30	80	
			CULG	2342.0	2342.0	III	B	2	30	270	
	2102	2400	HIRA	2342.0	2343.0	III	B	1	50	220	
04	0000	0745	CULG	0000.0E	0745.0D	I	S	1	80	180	
			CULG	0141.0	0141.0	III	B	1	30	90	
			CULG	0221.0	0222.0	III	G	1	30	90	
			CULG	0305.0	0305.0	III	B	1	18	90	
			CULG	0330.0	0331.0	III	G	2	18X	180	
	0000	0837	HIRA	0330.0	0331.0	III	B	1	25X	200	
			LEAR	0625.0	0636.0	III	N	1	30	80	
	0647	1200	IZMI	0647.0E	1200.0D	I	S,C	2	50	260	
	0648	1538	ONDR								
	0630	1553	POTS	0649 E	1531 U	I	S,C,DC	3	40X	375U	
			LEAR	0658.0	1033.0	CONT		2	30	80	
	0730	1610	BLEN								
			IZMI	0740.0U	1200.0D	III	N	2	45	95	
			SVTO	0747.0	1331.0	CONT		1	35	85	
			IZMI	1136.3	1139.3	III	GG	2	25X	270X	
			POTS	1136.9	1137.1	III	B	3	110U	275U	
			POTS	1137.3	1137.7	III	G	2	40X	90U	
			POTS	1237.3	1237.4	III	B	2	40X	90U	
			POTS	1237.4	1237.6	V		2	40X	60	
			POTS	1421.5	1421.6	III	B	1	40X	65	
			SGMR	1617.0	2125.0	CONT		2	30	80	
			PALE	1818.0	1821.0	II		1	40	60	ESS 0400
	2030	2400	CULG	2030.0E	2306.0	I	S	1	70	170	
	2100	2400	HIRA								
			CULG	2257.0	2258.0	III	G	1	28	130	
			PALE	2257.0	2257.0	III		1	25	75	
05			LEAR	0012.0	0014.0	III		2	30	80	

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OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
05	0000	0745	CULG	0013.0	0034.0	III	N	1	28	130	
	0000	0838	HIRA	0018.0	0019.0	III	B	1	25X	120	
			HIRA	0110.0	0111.0	III	B	1	25X	120	
			LEAR	0110.0	0111.0	III		3	30	80	
			PALE	0110.0	0111.0	III		1	25	75	
			CULG	0111.0	0111.0	III	G	2	28	180	
			LEAR	0112.0	0425.0	CONT		2	30	80	
			CULG	0123.0	0315.0	III	S	1	25	180	
			CULG	0206.0	0207.0	III	G	2	70	450	
			HIRA	0206.0	0207.0	III	B	2	70	400	
			CULG	0340.0	0340.0	III	G	1	200	500	
			CULG	0515.0	0518.0	III	G	1	60	400	
			HIRA	0515.0	0516.0	III	B	1	70	320	
			LEAR	0636.0	0636.0	III		1	30	60	
			HIRA	0650.0	0651.0	III	B	2	30	700	
			LEAR	0650.0	0651.0	III		3	30	80	
			SVTO	0650.0	0651.0	III		2	35	85	
	0647	1433	POTS	0650.2	0650.8	DCIM	U	3	375U	800X	
			POTS	0650.3	0651.2	III	G,U	3	40X	170U	
			CULG	0651.0	0651.0	III	B	3	23	750	
	0702	1200	IZMI	0702.0E	1200.0D	I	S	2	110	270X	
			IZMI	0710.3	0710.7	III	G	2	55	175	
			POTS	0710.4	0710.7	III	G	2	110U	170U	
	0730	1610	BLEN	0717.0	0744.0	DCIM	C	2	1500	2800X	
			HIRA	0730.0	0731.0	III	B	1	80	400	
			IZMI	0730.1	0730.7	III	G,U	3	80	270X	
			IZMI	0730.4	0730.8	CONT		2	200	270X	
			POTS	0730.4	0730.9	III	G,U	3	110U	250U	
			CULG	0731.0	0731.0	III	B	1	80	450	
			IZMI	0743.2	0743.3	III	G,U	1	200	270X	
			IZMI	0814.3	0831.7	III	N	2	40	135	
			IZMI	0814.5	0815.8	I	GG,DC	2	150	240	
			POTS	0814.5	0815.8	II	UE,H	3	140	170U	
			POTS	0814.9	0815.0	DCIM		2	400U	700	
			IZMI	0830.4	0830.5	III	G,U	2	245	270X	
			IZMI	0858.2	0858.4	III	GG	2	170	270X	
			IZMI	0911.3	0911.9	III	G	2	70	175	
			POTS	0911.8	0912.0	III	B	3	120	170U	
			POTS	0929.1	0929.6	DCIM		2	400U	550	
			IZMI	0929.2	0930.4	III	GG,U	2	190	270X	
			SVTO	0935.0	0938.0	III		1	35	84	
			LEAR	0936.0	0937.0	III		1	40	80	
			POTS	0936.2	0937.7	III	G	2	40X	250U	
			IZMI	0936.3	0937.8	III	GG	2	40	270X	
			POTS	0954.6	0954.7	DCIM		2	450	800X	
			IZMI	0955.3	0955.6	III	G,U,HARM	2	55	260	
			POTS	0955.3	0955.6	III	G,U	2	110U	170U	
	0646	1539	ONDR	0958.0	1024.4	DCIM	GG,FS	1	800X	1325	
			IZMI	1004.1U	1004.2	III	G	2	215	270X	
			IZMI	1057.1	1057.3	III	G,U	2	130	270X	
			POTS	1057.1	1057.3	III	G,U	2	130	170U	
			ONDR	1106.2	1106.4	DCIM	G	1	800X	1155	
			IZMI	1111.1	1111.3	III	G,U	2	105	180	
			POTS	1111.1	1111.3	III	G,U	2	110U	170U	
			POTS	1222.1	1222.4	III	G	2	110U	250U	
			ONDR	1230.0	1232.5	DCIM	GG	2	800X	2000X	
			POTS	1230.1	1233.6	III	G	3	40X	300U	
			POTS	1230.9	1233.5	DCIM		2	400U	800X	
			BLEN	1231.1	1231.9	III	GG	2	1000X	2800X	
			POTS	1240.4	1240.9	III	G,RS	2	110U	170U	
			POTS	1243.8	1244.1	III	B	1	40X	150	
			POTS	1246.8	1247.5	DCIM		2	400U	700	
			POTS	1246.9	1247.6	III	G,RS	2	110U	170U	
			ONDR	1253.3	1253.5	DCIM	G	2	800X	1920	
			POTS	1253.4	1254.4	III	G	3	110U	170U	
			POTS	1253.6	1253.9	DCIM		2	400U	800X	
			POTS	1259.0	1259.5	III	G	3	110U	170U	
			POTS	1301.9	1302.2	DCIM		2	400U	500	
			ONDR	1302.0	1302.2	DCIM	W	1	800X	1180	

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OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
05			POTS	1302.0	1303.8	III	G	3	40X	170U	
			BLEN	1302.3	1324.0	III	GG,RS	2	1000X	2600	
			SVTO	1303.0	1428.0	III	N	2	35	85	
			POTS	1306.1	1306.3	III	B	2	110U	170U	
			POTS	1314.1	1314.4	DCIM		2	400U	750	
			POTS	1316.2	1316.3	DCIM		2	400U	550	
			POTS	1316.3	1316.8	III	G,RS	3	40X	170U	
			POTS	1317.5	1317.9	III	G	3	110U	170U	
			SGMR	1319.0	1320.0	III		2	30	80	
			ONDR	1319.3	1324.1	DCIM	GG	2	800X	1965	
			POTS	1319.6	1321.1	III	G,RS	3	40X	275U	
			POTS	1319.8	1320.6	DCIM	U	3	350U	600	
			POTS	1320.0	1320.6	V		2	40X	70	
			POTS	1322.0	1323.9	III	G	3	50	250U	
			POTS	1324.8	1325.0	III	B	3	110U	170U	
			POTS	1325.8	1326.2	III	G,RS	3	110U	170U	
			POTS	1328.1	1328.7	III	G	3	110U	170U	
			POTS	1329.9	1330.3	III	G	3	60	170U	
			POTS	1336.1	1336.3	III	G	2	40X	155	
			POTS	1346.3	1357.0	III	G,RS,U	3	40X	225U	
			ONDR	1353.4	1357.0	DCIM	GG	1	800X	1510	
			POTS	1353.6	1353.9	DCIM		2	400U	500	
			SGMR	1354.0	1424.0	III	N	2	30	80	
			POTS	1406.9	1407.1	III	B	2	120	170U	
			ONDR	1412.1	1413.3	DCIM	GG	1	800X	1215	
			POTS	1412.1	1428.0	III	GG,UG	3	40X	170U	
			ONDR	1424.0	1427.4	DCIM	GG	1	800X	1825	
			POTS	1458.2	1459.3	III	G	2	110U	170U	
			POTS	1506.5	1507.3	III	G	2	110U	170U	
			SVTO	1524.0	1532.0	V		2	35	85	
			POTS	1524.5	1532.0	III	GG,U	3	40X	170U	
			SGMR	1525.0	1532.0	III		3	30	80	
			ONDR	1525.5	1532.3	DCIM	G	1	800X	2000X	
			POTS	1525.7	1530.9	DCIM		2	400U	700	
			BLEN	1525.8	1531.8	DCIM	C	2	1000X	2800X	
			ONDR	1529.5	1531.3	DCIM	G	1	2000X	4500X	
			SVTO	1607.0	1609.0	III		2	35	85	
			BLEN	1607.3	1610.2	III	G,C	1	1000X	2800X	
			SGMR	1608.0	1609.0	III		2	30	80	
	2030	2400	CULG	2136.0	2254.0	I	S	1	110	170	
			CULG	2220.0	2226.0	II	SH	2	60	140	ESS 900
			CULG	2220.0	2227.0	II	FN	2	30	85	
			HIRA	2220.0	2233.0	II	SH	2	50	130	ESS 800
	2059	2400	HIRA	2220.0	2225.0	II	FN	1	40	70	ESS 800
			PALE	2221.0	2236.0	II		2	34	70	ESS 0600
			CULG	2225.0	2240.0	II	SH	3	40	110	ESS 450
			HIRA	2320.0	2329.0	III	G	2	80	340	
			CULG	2321.0	2331.0	III	G	2	60	400	
06	0000	0745	CULG	0004.0	0027.0	III	N	1	70	180	
			CULG	0020.0	0745.0D	I	S	1	120	180	
	0000	0839	HIRA	0026.0	0033.0	III	G	2	80	320	
			CULG	0032.0	0033.0	III	G	2	50	400	
			HIRA	0050.0	0051.0	III	B	1	40	140	
			PALE	0050.0	0050.0	III		1	30	70	
			CULG	0051.0	0051.0	III	B	2	28	150	
			CULG	0123.0	0124.0	III	G	1	30	160	
			CULG	0458.0	0458.0	III	B	2	30	130	
	0643	1541	ONDR								
	0630	1551	POTS	0645 E	1536 U	I	S,C,DC	2	110U	225U	
			CULG	0647.0	0647.0	III	B	2	50	170	
			SVTO	0647.0	0647.0	III		1	70U	85U	
			POTS	0647.2	0647.5	III	G	3	75	170U	
	0706	1200	IZMI	0647.3	0647.6	III	G,U	2	40	95U	
	0700	1615	BLEN								
			IZMI	0706.0E	1200.0D	I	S	2	120	270X	
			POTS	0740	1534	III	N	1	110U	170U	
			CULG	0741.0	0742.0	III	G	1	25	150	
			SVTO	0741.0	0742.0	III		1	35	85	

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06			IZMI	0741.1	0742.3	III	G	2	25X	175	
			POTS	0741.1	0741.4	III	B	2	40X	170U	
			IZMI	0815.6	0816.6	III	G	2	55	180	
			POTS	0815.6	0816.4	III	G	2	110U	170U	
			HIRA	0820.0	0821.0	III	B	1	80	200	
			SVTO	0820.0	0820.0	III		1	35	85	
			IZMI	0820.3	0820.7	III	GG	2	40	205	
			POTS	0820.4	0821.2	III	G,U	3	70	170U	
			IZMI	0840.3	0840.8	II	G	2	45	180	
			POTS	0840.3	0840.7	III	G	2	110U	170U	
			IZMI	0848.2	0848.4	III	G	2	55	135	
			POTS	0848.2	0848.3	III	B	3	110U	140	
			IZMI	0906.0U	1126.0U	III	N	1	45	135	
			POTS	0913.8	0913.9	III	B	2	110U	170U	
			IZMI	0956.2	0956.4	III	B	2	55	120	
			POTS	0956.2	0956.5	III	B	2	55	150	
			IZMI	1001.9	1003.8	III	GG	2	25	140	
			POTS	1001.9	1002.1	III	B	1	40X	140	
			POTS	1002.5	1003.8	III	G	2	40X	170U	
			SVTO	1003.0	1003.0	III		1	35	75	
			IZMI	1016.4	1016.7	III	B	2	75	180	
			POTS	1016.4	1016.6	III	G	2	80	170U	
			IZMI	1102.4	1102.8	III	B	2	35	120	
			POTS	1102.4	1102.9	III	G	2	40X	170U	
			SVTO	1127.0	1128.0	III		1	35	84	
			POTS	1127.5	1128.8	III	G	3	40X	300U	
			IZMI	1127.7	1128.6	III	G	2	45	230	
			IZMI	1140.6	1140.8	III	G	2	200	270X	
			POTS	1140.8	1140.9	III	B	2	110U	275U	
			POTS	1206.8	1207.2	III	B	3	40X	170U	
			SGMR	1210.0	1212.0	III		3	30	80	
			SVTO	1210.0	1212.0	V		3	35	85	
			POTS	1210.4	1211.3	III	G	3	40X	325U	
			POTS	1211.3	1212.2	V		3	40X	70	
			POTS	1236.5	1236.9	III	G	1	40X	120	
			POTS	1331.4	1331.5	III	B	2	110U	170U	
			POTS	1336.2	1336.4	III	G	2	110U	170U	
			POTS	1515.1	1515.4	III	G	1	40X	150	
			PALE	1759.0	1759.0	III		1	25	55	
			SGMR	1759.0	1759.0	III		1	30	55	
			PALE	1904.0	1905.0	III		1	25	42	
	2030	2400	CULG	2035.0	2037.0	III	G	1	20	150	
			PALE	2036.0	2037.0	III		1	25	45	
			CULG	2116.0	2116.0	III	B	1	50	180	
			CULG	2132.0	2135.0	III	G	1	18	70	
			PALE	2254.0	2303.0	III		3	30	75	
			CULG	2255.0	2255.0	III	B	1	18	60	
			CULG	2258.0	2259.0	III	G	1	40	280	
	2058	2400	HIRA	2300.0	2303.0	III	G	3	30	300	
			CULG	2301.0	2302.0	III	G	3	23	290	
			CULG	2323.0	2325.0	III	G	3	40	460	
			HIRA	2323.0	2324.0	III	G	3	50	500	
			PALE	2323.0	2323.0	III		1	30	65	
07	0000	0745	CULG	0200.0	0203.0	III	G	2	25	160	
			PALE	0201.0	0202.0	III		2	35	75	
	0000	0840	HIRA	0201.0	0202.0	III	B	1	40	150	
			CULG	0247.0	0248.0	III	G	1	60	240	
			HIRA	0247.0	0248.0	III	B	1	100	250	
			CULG	0305.0	0306.0	III	G	2	28	180	
			HIRA	0305.0	0306.0	III	G	1	40	180	
			PALE	0305.0	0305.0	III		1	40	65	
			HIRA	0317.0	0324.0	III	G	1	60	270	
			CULG	0318.0	0323.0	III	G	1	20	270	
			CULG	0419.0	0425.0	III	G	1	18	250	
			HIRA	0419.0	0421.0	III	G	1	25X	240	
			CULG	0455.0	0745.0D	III	N	1	20	180	
			HIRA	0525.0	0527.0	III	G	1	30	200	
			SVTO	0625.0	0637.0	III		1	35	85	

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07	0630	1551	POTS	0632	1433	III	N	1	40X	90U	
			POTS	0642	1539 U	I	S,C,DC	2	110U	250U	
			POTS	0645	1520	III	N	1	110U	170U	
	0658	1200	IZMI	0658.0E	1200.0D	I	N	1	200	230	
			IZMI	0707.7	0707.9	III	G	1	50	85	
			IZMI	0713.0U	1200.0D	III	N	1	45	95	
			IZMI	0715.2	0715.6	III	G	2	80	180	
			POTS	0715.3	0715.8	III	G	2	110U	170U	
			IZMI	0718.2	0718.6	III	G	2	55	230	
			POTS	0718.3	0718.5	III	G	2	40X	170U	
			SVTO	0722.0	0725.0	III		1	35	85	
			POTS	0722.4	0726.1	III	GG	3	40X	170U	
			IZMI	0722.5	0724.2	III	GG	2	40	215	
			CULG	0723.0	0724.0	III	G	3	18	180	
			HIRA	0723.0	0725.0	III	G	2	30	160	
			IZMI	0723.2	0725.1	CONT		2	25X	100	
			POTS	0723.8	0824.6	V		2	110U	120	
			POTS	0723.8U	0725.1U	V		3	40X	70	
			POTS	0749.5	0749.6	III	B	2	110U	160	
			SVTO	0751.0	0752.0	III		1	35	85	
			IZMI	0751.6	0752.8	III	GG	2	25X	200	
			POTS	0751.7	0752.8	III	GG	3	40X	170U	
			HIRA	0752.0	0753.0	III	B	1	50	160	
			IZMI	0821.3	0821.4	III	B	2	45	175	
			POTS	0821.3	0821.5	III	G	3	40X	170U	
			IZMI	0828.9	0829.1	III	B	2	45	145	
			POTS	0829.0	0829.1	III	B	2	40X	145	
			IZMI	0830.3	0836.2	III	S	1	45	150	
			POTS	0832.7	0833.1	III	G	2	110U	150	
			POTS	0835.6	0836.1	III	G	2	110U	160	
			SVTO	0907.0	0908.0	III		1	35	79	
			IZMI	0907.8	0908.2	III	G	2	40	90	
			POTS	0907.9	0908.3	III	G	2	40X	80	
			POTS	0947.4	0947.7	III	B	2	110U	170U	
			IZMI	0952.8	0953.3	III	G	2	45	95	
			POTS	0952.9	0953.4	III	B	2	40X	70	
			IZMI	1024.2	1026.1	III	G	1	45	160	
			POTS	1024.5	1026.1	III	G,U	2	110U	170U	
			IZMI	1043.7	1046.3	III	G	2	30	140	
			POTS	1043.8	1045.7	III	G	2	40X	170U	
			SVTO	1045.0	1045.0	III		1	35	74	
			IZMI	1057.7	1058.9	III	GG	2	35	150	
			POTS	1057.8	1102.3	III	G	2	40X	170U	
			IZMI	1101.3	1102.5	III	GG	2	45	90	
			SVTO	1109.0	1109.0	III		1	35U	51U	
			POTS	1114.3	1114.4	III	B	2	110U	170U	
			POTS	1119.5	1119.8	III	G	2	40X	170U	
			IZMI	1137.2	1137.4	III	G	2	40	180	
			POTS	1137.2	1137.6	III	G	3	40X	250U	
			POTS	1200.3	1200.4	III	B	2	110U	145	
			POTS	1202.2	1202.6	III	G	2	40X	170U	
			POTS	1227.0	1235.6	III	GG,RS	3	40X	170U	
	0641	1542	ONDR	1228.3	1231.3	DCIM	GG	1	890	1595	
	0700	1620	BLEN	1228.7	1229.3	III	GG,RS	2	1000X	1600	
			POTS	1300.9	1301.1	III	B	2	110U	145	
			POTS	1309.2	1310.5	III	G	3	40X	170U	
			POTS	1323.8	1324.2	III	G	2	40X	170U	
			POTS	1340.2	1348.2	III	GG	2	40X	170U	
			POTS	1411.7	1412.7	III	G	2	40X	55	
			POTS	1425.3	1427.8U	II	SH,H	3	110U	170U	
			POTS	1425.8U	1427.6	II	F	2	40X	90U	
			SGMR	1426.0	1427.0	III		1	58	80	
			SVTO	1426.0	1427.0	III		1	38	85	
			POTS	1431.4	1432.1	III	G	2	110U	170U	
			POTS	1508.0	1511.7	III	G	2	40X	170U	
			POTS	1521.1	1522.3	III	G	3	110U	170U	
			SGMR	1602.0	1607.0	III		2	30	80	
			SVTO	1602.0	1603.0	III		1	35	85	
			BLEN	1602.2	1605.0	DCIM	C	2	1300	2800X	

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07			SGMR	1612.0	1616.0	V		1	30	72	
			SVTO	1612.0	1615.0	V		1	35	78	
			PALE	1856.0	1856.0	III		1	35	55	
			PALE	1908.0	1910.0	III		1	25	70	
			PALE	2039.0	2039.0	III		1	25	55	
	2030	2400	CULG	2039.0	2039.0	III	B	1	20	180	
			CULG	2106.0	2113.0	III	G	1	20	180	
	2057	2400	HIRA	2106.0	2113.0	III	G	1	30	180	
			PALE	2112.0	2114.0	V		2	25	55	
			SGMR	2112.0	2114.0	V		2	30	65	
			CULG	2113.0	2113.0	V		2	20	90	
			CULG	2207.0	2209.0	III	G	2	20	170	
			HIRA	2207.0	2209.0	III	G	1	50	130	
			PALE	2207.0	2208.0	III		1	25	75	
			CULG	2212.0	2223.0	III	GG	1	30	90	
			CULG	2252.0	2254.0	III	G	2	18	150	
			HIRA	2252.0	2253.0	III	B	2	25X	140	
			PALE	2252.0	2253.0	III		2	25	75	
			CULG	2339.0	2341.0	III	G	3	18X	180	
			HIRA	2339.0	2340.0	III	B	3	25X	180	
			PALE	2339.0	2341.0	V		3	25	75	
			CULG	2346.0	2347.0	III	G	1	50	180	
08			PALE	0024.0	0026.0	III		2	25	75	
	0000	0841	HIRA	0024.0	0025.0	III	B	1	25X	140	
	0000	0745	CULG	0025.0	0026.0	III	G	2	18X	160	
			CULG	0047.0	0048.0	III	G	1	60	150	
			HIRA	0244.0	0245.0	III	B	1	80	250	
			CULG	0500.0	0500.0	III	B	1	40	160	
			CULG	0628.0	0630.0	III	G	1	20	170	
			HIRA	0628.0	0630.0	III	G	1	30	170	
			SVTO	0629.0	0630.0	III		1	35	85	
	0639	1545	ONDR								
	0630	1553	POTS	0702.9	0703.1	III	B	1	110U	140	
	0646	1200	IZMI	0706.8	0707.8	III	G	2	40	260	
			POTS	0706.9	0707.7	III	G,U	2	110U	170U	
			CULG	0707.0	0711.0	III	G	1	25	180	
			POTS	0710	1442	III	N	1	110U	170U	
			IZMI	0710.6	0710.9	III	G	2	45	150	
			POTS	0710.7	0711.3	III	G	2	110U	150	
			POTS	0711	1500	I	S	1	110U	170U	
			IZMI	0718.4	0718.5	III	G	2	105	255	
			POTS	0718.4	0719.7	III	G	2	40X	170U	
			CULG	0719.0	0719.0	III	B	1	25	180	
			SVTO	0719.0	0719.0	III		1	45	64	
			IZMI	0719.1	0719.6	III	G	2	45	270X	
			IZMI	0719.4	0719.6	V		2	45	70	
			CULG	0737.0	0740.0	III	GG	3	23	180	
			HIRA	0737.0	0740.0	III	G	1	40	340	
			IZMI	0737.1	0740.0	III	GG	2	25X	270X	
			POTS	0737.1	0746.1	III	GG	3	40X	170U	
			IZMI	0737.5	0740.0	V	G	2	45	150	
			IZMI	0745.6	0746.1	III	G	2	55	215	
			IZMI	0856.2	0856.4	III	B	2	40	65	
			IZMI	0858.0	0858.1	III	B	1	55	145	
			POTS	0858.0	0858.1	III	B	2	110U	170U	
			POTS	0903.8	0908.4	III	G	3	40X	170U	
			IZMI	0906.0	0906.5	III	G	2	45	215	
			SVTO	0907.0	0908.0	III		1	35	85	
			IZMI	0907.8	0908.5	III	G	2	35	270X	
			POTS	0908.4	0909.0	V		3	40X	55	
			IZMI	0917.1	0917.2	III	B	1	40	65	
			IZMI	0925.0	0928.3	III	GG	2	30	165	
			SVTO	0925.0	0925.0	III		1	35	74	
			POTS	0925.1	0926.8	III	GG	2	40X	170U	
			POTS	0925.5	0926.1	V		2	40X	60	
			POTS	0947.0	0957.2	III	G,RS	2	40X	170U	
			IZMI	0952.0	0952.3	III	G	2	35	245	
			IZMI	0953.4	0953.7	III	G	2	43	230	

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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
08			IZMI	0956.6	0957.2	III	GG	2	40	90	
			IZMI	1031.1	1035.0	I	GG	2	200	270X	
			SVTO	1033.0	1034.0	III		1	37	74	
			IZMI	1033.8	1034.7	III	GG	2	35	270X	
			POTS	1033.8	1036.7	III	GG	3	40X	250U	
			IZMI	1036.5	1036.7	III	G	2	55	230	
			IZMI	1038.6	1038.6	III	B	1	45	65	
			POTS	1042	1553	III	N	1	40X	90U	
			IZMI	1042.5	1044.6	III	GG	2	30	95	
			POTS	1050.6	1051.6	III	G	2	40X	300U	
			IZMI	1050.8	1051.7	III	G	2	40	270X	
			IZMI	1130.0	1130.2	III	B	2	45	145	
			SVTO	1144.0	1157.0	III	N	1	35	85	
			POTS	1144.3	1157.1	III	GG	3	40X	250U	
			IZMI	1144.4	1144.8	III	G	2	30	230	
			IZMI	1148.8	1149.1	III	G	2	35	140	
			IZMI	1156.1	1157.0	III	GG	2	30	270X	
			POTS	1304.0	1304.6	III	G	2	40X	170U	
			SGMR	1304.0	1304.0	III		1	38	46	
			SVTO	1304.0	1304.0	III		1	35	48	
			POTS	1312.9	1313.2	III	G	2	110U	170U	
			SVTO	1322.0	1338.0	III	N	2	35	85	
			SGMR	1323.0	1325.0	V		3	30	80	
			POTS	1323.3	1324.6	III	GG	2	40X	170U	
			POTS	1324.2	1325.1	V		3	110U	120	
			POTS	1324.4	1325.5	V		3	40X	70	
			POTS	1335.9	1339.0	III	GG	2	40X	170U	
			POTS	1510.7	1511.1	III	G	2	110U	170U	
			SVTO	1608.0	1608.0	III		1	56	85	
	0650	1620	BLEN	1608.4	1609.3	DCIM	C	1	1100	1500	
			PALE	1752.0	1752.0	III		1	25	75	
			SGMR	1752.0	1753.0	III		2	30	80	
			PALE	2019.0	2027.0	III		1	25	60	
			PALE	2128.0	2130.0	III		3	25	75	
			SGMR	2128.0	2130.0	III		2	30	80	
	2000	2400	CULG	2128.0	2131.0	III	G	3	18	370	
	2055	2400	HIRA	2128.0	2130.0	III	G	3	30	400	
			CULG	2203.0	2203.0	III	B	1	30	170	
			CULG	2215.0	2215.0	III	B	1	23	170	
			CULG	2230.0	2233.0	III	G	2	18X	180	
			HIRA	2230.0	2232.0	III	G	2	25X	250	
			PALE	2230.0	2233.0	III		3	25	70	
			CULG	2238.0	2242.0	III	G	3	18X	300	
			HIRA	2238.0	2241.0	III	G	2	25X	320	
			PALE	2238.0	2241.0	III		3	25	75	
			CULG	2353.0	2355.0	III	G	1	30	180	
			HIRA	2353.0	2355.0	III	G	1	50	170	
09			PALE	0011.0	0012.0	III		2	25	75	
	0000	0745	CULG	0011.0	0011.0	III	B	2	23	180	
	0000	0842	HIRA	0011.0	0012.0	III	B	1	30	170	
			PALE	0027.0	0029.0	III		3	25	75	
			HIRA	0029.0	0030.0	III	B	1	25X	220	
			CULG	0128.0	0128.0	III	G	1	70	170	
			CULG	0157.0	0157.0	III	B	1	23	120	
			HIRA	0200.0	0201.0	III	G	1	40	220	
			PALE	0220.0	0220.0	III		1	30	75	
			CULG	0252.0	0253.0	III	G	1	20	170	
			HIRA	0252.0	0253.0	III	G	1	40	180	
			PALE	0252.0	0257.0	III		1	35	55	
			CULG	0345.0	0345.0	III	B	2	18	180	
			HIRA	0345.0	0351.0	III	G	2	30	300	
			CULG	0348.0	0351.0	III	G	1	23	180	
			HIRA	0429.0	0432.0	III	G	1	30	250	
			CULG	0432.0	0434.0	III	G	2	23	160	
			CULG	0442.0	0443.0	III	G	1	23	170	
			CULG	0448.0	0448.0	III	B	1	23	170	
			CULG	0500.0	0502.0	III	G	1	23	150	
			CULG	0529.0	0531.0	III	G	1	60	270	

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09			HIRA	0529.0	0531.0	III	G	1	110	170	
			CULG	0545.0	0545.0	III	G	1	35	160	
			HIRA	0559.0	0604.0	III	G	1	30	260	
			LEAR	0559.0	0611.0	III	N	2	30	80	
			SVTO	0559.0	0604.0	III		1	35	85	
			CULG	0600.0	0600.0	III	B	3	23	270	
			CULG	0603.0	0603.0	III	B	2	18	170	
			SVTO	0609.0	0611.0	III		1	35	85	
			CULG	0610.0	0612.0	III	G	2	18	180	
			HIRA	0610.0	0611.0	III	G	1	30	270	
	0637	1546	ONDR								
	0630	1553	POTS	0638	1543	I	S	1	110U	250U	
	0645	1620	BLEN								
			POTS	0645.3	0645.5	III	G	1	110U	170U	
			IZMI	0656.3	0657.8	III	GG	2	45	120	
			POTS	0656.3	0658.0	III	G	3	110U	170U	
	0700	1200	IZMI	0706.0U	1045.0U	I	S	2	200	270	
			HIRA	0711.0	0712.0	III	B	1	120	250	
			IZMI	0711.2	0711.8	III	GG	2	135	270X	
			POTS	0711.4	0712.0	III	G	3	110U	170U	
			IZMI	0714.7	0715.6	III	G	2	190	270X	
			HIRA	0719.0	0720.0	III	B	1	30	220	
			LEAR	0727.0	0729.0	III		2	30	80	
			IZMI	0727.7	0728.4	III	G	2	45	260	
			POTS	0727.7	0729.6	III	G,U	3	40X	170U	
			CULG	0728.0	0730.0	III	G	3	23	140	
			SVTO	0728.0	0729.0	III		1	35	85	
			IZMI	0728.8	0729.5	III	GG	2	25	270X	
			IZMI	0729.0	0729.5	V	G	2	45	95	
			IZMI	0736.4	0736.9	III	G	2	210	270X	
			POTS	0743	1507	III	N	1	110U	170U	
			IZMI	0745.4	0745.5	III	B	1	200	270X	
			IZMI	0748.0	0748.1	III	B	1	215	270X	
			IZMI	0806.4	0806.6	III	B	1	50	95	
			IZMI	0812.7	0812.9	III	G	2	190	270X	
			POTS	0812.7	0821.3	III	G	2	110U	170U	
			IZMI	0820.7	0821.2	III	G	2	200	270X	
			IZMI	0829.1	0830.4	III	G	1	40	110	
			IZMI	0857.1	0857.3	III	G	2	200	270X	
			IZMI	0909.5	0910.1	III	GG	2	60	270X	
			POTS	0909.7	0928.0	III	GG	3	40X	250U	
			IZMI	0911.3	0911.5	III	B,HARM	2	50	150	
			IZMI	0920.8	0921.1	III	G	2	50	270X	
			IZMI	0922.7	0924.3	III	GG	2	30	180	
			LEAR	0925.0	0944.0	III	N	2	30	80	
			IZMI	0925.1	0926.0	III	GG	2	45	180	
			SVTO	0926.0	1014.0	III	N	1	35	85	
			IZMI	0926.4	0927.8	III	GG	2	25X	270X	
			IZMI	0926.8	0928.2	V	G	2	45	65	
			POTS	0926.8	0927.2	V		2	40X	70	
			IZMI	0930.5	0930.8	III	G	1	240	270X	
			POTS	0933.4	0944.9	III	GG	2	40X	170U	
			IZMI	0933.6	0934.6	III	G	2	45	245	
			IZMI	0941.8	0942.5	III	G,FS	2	40	180	
			IZMI	0944.1	0944.9	III	GG	2	30	215	
			IZMI	1008.6	1009.5	III	G	2	45	145	
			POTS	1009.5	1022.1	III	GG,RS,U	3	40X	300U	
			IZMI	1010.7	1011.7	III	G	2	35	270	
			IZMI	1013.1	1015.0	III	G,FS	2	40	270	
			IZMI	1016.7	1018.3	III	G,FS	2	35	270	
			IZMI	1019.6	1021.5	III	GG	3	25X	270X	
			LEAR	1020.0	1020.0	III		2	30	80	
			SVTO	1020.0	1021.0	III		2	35	85	
			IZMI	1020.4	1020.8	V	G	2	25X	65	
			IZMI	1055.6	1056.0	III	G	2	130	250	
			POTS	1055.8	1056.1	III	G	3	125	250U	
			IZMI	1124.8	1125.1	III	G	2	45	170	
			POTS	1124.8	1138.7	III	G	2	40X	250U	
			IZMI	1134.9	1138.6	III	G	2	30	260	

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09			IZMI	1136.1	1137.5	III	GG	2	135	270X	
			SVTO	1138.0	1138.0	III		1	35	77	
			IZMI	1138.1	1138.6	III	G	2	30	260	
			IZMI	1139.8	1139.9	III	B	1	45	95	
			IZMI	1150.3	1150.4	III	B	1	45	65	
			POTS	1249.3	1252.1	III	G	2	40X	170U	
			POTS	1304.8	1310.9	III	GG	2	50	170U	
			SVTO	1333.0	1339.0	V		2	35	85	
			POTS	1333.4	1346.6	III	GG,RS	3	40X	170U	
			POTS	1412.6	1421.8	III	GG	3	40X	170U	
			SVTO	1413.0	1415.0	III		1	35	85	
			POTS	1504.3	1505.4	III	G	3	110U	170U	
			POTS	1518.6	1521.1	III	G	2	110U	170U	
			PALE	1806.0	1806.0	III		1	30	65	
			PALE	1834.0	1837.0	III		3	25	75	
			PALE	2025.0	2025.0	III		1	25	50	
	2030	2400	CULG	2059.0	2229.0	III	N	1	20	180	
			SGMR	2111.0	2111.0	III		1	30	70	
	2053	2400	HIRA	2111.0	2112.0	III	B	1	30	100	
			HIRA	2122.0	2123.0	III	B	1	40	180	
			HIRA	2156.0	2157.0	III	B	1	60	170	
			CULG	2204.0	2206.0	III	G	2	20	180	
			HIRA	2205.0	2206.0	III	B	2	40	220	
10	0000	0843	HIRA								
			LEAR	0359.0	0359.0	III		1	30	71	
	0000	0745	CULG	0359.0	0359.0	III	B	1	23	140	
	0645	1620	BLEN								
	0630	1526	POTS	0828	1526 U	I	S,W	1	110U	140	
	0634	1546	ONDR	0908.1	0908.5	DCIM	G	1	2215	4265	
			IZMI	0934.3	0934.5	III	B	2	45	65	
			IZMI	0936.4	0937.1	III	G	1	50	65	
			POTS	1310.8	1310.9	III	B	1	110U	170U	
			SGMR	1550.0	1550.0	III		1	30	55	
			SVTO	1550.0	1550.0	III		1	37	48	
			PALE	1739.0	1744.0	III		2	25	75	
			SGMR	1739.0	1744.0	III		2	30	70	
	2052	2400	HIRA								
	2030	2400	CULG	2344.0	2351.0	III	G	1	30	120	
			LEAR	2345.0	2350.0	III		1	30	80	
11	0000	0745	CULG								
	0000	0844	HIRA								
	0702	1201	IZMI	0829.3	0834.5	III	GG	1	200	270X	
	0632	1549	ONDR	0923.0	0927.0	DCIM	G	1	2360	4500X	
			IZMI	0927.7	0931.8	III	GG	1	200	270X	
	0634	1620	POTS	0940.0	0944.0	III	G	1	110U	170U	
			IZMI	1023.8	1030.5	III	G	1	200	270X	
			ONDR	1027.3	1028.3	DCIM	G	1	800X	1565	
			ONDR	1157.3	1158.5	DCIM	G	1	800X	2000X	
			IZMI	1157.4	1159.6	III	G,C	1	200	270X	
	0640	1625	BLEN	1157.6	1159.0	DCIM	C	2	1100	2800X	
			POTS	1157.8	1200.5	III	G	1	200U	300U	
			IZMI	1200.2	1200.6	III	G	2	200	270X	
			POTS	1220.4	1220.8	III	G	2	40X	170U	
			SGMR	1351.0	1352.0	III		1	50	80	
			SVTO	1351.0	1352.0	III		1	55	83	
			POTS	1351.4	1352.4	III	G	3	40X	170U	
			POTS	1432.6	1432.8	III	G	2	110U	160	
			POTS	1442.1	1442.2	III	B	2	110U	145	
			POTS	1506.7	1507.5	III	GG	2	110U	170U	
			POTS	1511	1521	I	S	1	130	170U	
	2050	2400	HIRA								
	2030	2400	CULG	2151.0	2152.0	III	G	1	18	90	
12	0000	0844	HIRA								
	0000	0745	CULG	0020.0	0152.0	I	S	1	60	150	
			CULG	0031.0	0032.0	III	G	1	28	140	
			LEAR	0031.0	0031.0	III		2	30	80	

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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
12			PALE	0031.0	0032.0	III		1	30	55	
			LEAR	0032.0	0137.0	CONT		1	30	80	
			LEAR	0134.0	0134.0	III		2	30	80	
			LEAR	0315.0	0316.0	III		1	30	50	
	0607	1613	POTS	0628 E	1552 U	I	S,C,DC	2	110U	300U	
	0646	1200	IZMI	0646.0E	0922.0U	I	S	1	50	250	
			CULG	0700.0	0726.0	III	N	1	30	170	
			IZMI	0706.0U	0731.0	III	N	1	45	90	
			IZMI	0722.7	0722.9	III	G	1	200	270X	
	0630	1552	ONDR	0903.0	0906.3	DCIM	G	1	2575	4500X	
			IZMI	0922.0	1200.0D	I	S	2	60	270X	
	0930	1625	BLEN								
			POTS	1028.0	1028.1	III	B	2	110U	170U	
			IZMI	1051.0	1200.0D	III	N	1	45	95	
			POTS	1209.7	1211.5	III	G	3	110U	170U	
			POTS	1249.8	1250.0	III	B	2	110U	170U	
			ONDR	1417.3	1418.1	DCIM	G	1	800X	1045	
			POTS	1418.4	1418.6	III	G	2	110U	170U	
			POTS	1523.3	1528.0	III	G	2	110U	170U	
			POTS	1543.8	1545.9	III	G	2	110U	170U	
			SGMR	1749.0	1750.0	III		1	30	70	
	2049	2400	HIRA								
	2030	2400	CULG	2300.0	2302.0	III	G	1	20	80	
			CULG	2317.0	2317.0	III	B	1	30	90	
13	0000	0845	HIRA								
			LEAR	0041.0	0042.0	III		1	38	55	
			LEAR	0100.0	0100.0	III		1	30	70	
			LEAR	0358.0	0358.0	III		1	30	65	
	0000	0745	CULG	0358.0	0402.0	III	G	1	18	180	
			CULG	0601.0	0602.0	III	G	1	25	140	
			LEAR	0601.0	0601.0	III		2	30	80	
			SVTO	0601.0	0601.0	III		1	37	82	
	0607	1613	POTS	0717.1	0723.1	III	GG,RS	2	110U	170U	
	0700	1200	IZMI	0717.2	0718.2	III	G	2	140	245	
			POTS	0730.0	0731.1	III	G	2	110U	170U	
			IZMI	0730.5	0731.1	III	G	2	45	215	
			CULG	0731.0	0731.0	III	B	1	45	160	
			IZMI	0736.6	0736.7	III	B	1	55	65	
			IZMI	0812.0	0817.1	III	GG	1	200	270X	
			POTS	0923.4	0937.1	III	G	2	110U	170U	
	0635	1630	BLEN	0930.0	0935.0	DCIM	C	1	1800	2800X	
	0627	1552	ONDR	0930.4	0935.0	DCIM	G	1	2090	4500X	
			IZMI	0956.0	1000.0	III	GG	2	55	270	
			POTS	0956.0	1000.2	III	GG,U	3	40X	170U	
			SVTO	1000.0	1000.0	III		1	35	43	
			POTS	1006.8	1006.9	III	B	1	120	170U	
			IZMI	1019.1	1019.3	III	G	2	120	265	
			POTS	1019.1	1021.1	III	G	2	110U	170U	
			IZMI	1021.0	1021.1	III	B	2	125	215	
			BLEN	1040.0	1045.0	III	GG	2	1700	2400	
			ONDR	1040.1	1057.1	DCIM	G	1	2000	4500X	
			POTS	1053	1555 U	I	S	2	110U	250U	
			IZMI	1123.1	1127.6	III	GG	2	110	175	
			POTS	1123.1	1128.1	III	GG	2	110U	170U	
			POTS	1157.7	1158.3	DCIM		2	400U	550	
			IZMI	1157.8	1159.1	III	GG	2	200	270X	
			POTS	1204.6	1204.7	III	B	1	110U	150	
			POTS	1317.7	1318.3	III	G	3	150	250U	
			POTS	1437.0	1439.0	III	G,U	3	110U	170U	
			POTS	1453.6	1453.7	III	B	2	135	170U	
	2030	2400	CULG	2306.0	2307.0	III	G	1	40	120	
			CULG	2309.0	2316.0	III	GG	3	18	180	
			LEAR	2310.0	2314.0	III		2	30	80	
	2048	2400	HIRA	2310.0	2314.0	III	G	2	30	200	
			PALE	2311.0	2314.0	III		1	25	75	
			CULG	2317.0	2320.0	III	G	1	35	150	
			HIRA	2318.0	2320.0	III	G	1	40	140	
			LEAR	2318.0	2319.0	III		1	30	80	

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Day	OBSERVATION Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
13			HIRA	2333.0	2334.0	III	B	1	120	320	
			HIRA	2348.0	2349.0	III	B	1	120	250	
			CULG	2356.0	2400.0D	III	G	1	40	150	
			LEAR	2358.0	0003.0	III		1	50	80	
14	0000	0745	CULG	0000.0E	0005.0	III	G	1	40	150	
			CULG	0448.0	0448.0	III	B	1	30	80	
			CULG	0552.0	0648.0	I	S	1	90	160	
			CULG	0608.0	0625.0	III	N	1	23	90	
			SVTO	0615.0	0625.0	III		1	35	59	
			LEAR	0616.0	0625.0	III		2	30	65	
	0607	1614	POTS	0623 E	1557 U	I	S,C,DC	2	110U	250U	
	0630	1630	BLEN								
			IZMI	0645.7	0646.0	III	G	2	45	95	
	0646	1201	IZMI	0646.0U	1011.0U	I	N	1	200	260	
			SVTO	0651.0	0701.0	III	N	1	48	78	
			IZMI	0652.7	0654.1	III	G	2	80	115	
			POTS	0716.2	0717.0	UNCLF		2	110U	170U	
			IZMI	0740.8	0741.9	III	GG	2	200	270X	
			IZMI	0744.9	0745.2	III	G	3	185	270X	
	0000	0846	HIRA	0746.0	0748.0	III	G	1	130	360	
			IZMI	0746.3	0749.4	III	GG	2	145	270X	
			IZMI	0752.7	0753.4	III	G	2	185	270X	
			IZMI	0823.3	0823.5	III	B	1	60	95	
			IZMI	0854.8	0854.9	III	B	1	190	270X	
			IZMI	0859.7	0900.0	III	B	2	70	115	
			POTS	0901.7	0901.9	III	G	2	110U	170U	
			IZMI	0901.8	0901.9	III	B	1	75	95	
			IZMI	0903.5	0904.0	III	G,RS	2	200	245	
			IZMI	1019.7	1020.1	III	G,HARM	2	45	145	
			POTS	1019.7	1022.1	III	G	2	40X	170U	
			IZMI	1021.0	1022.1	III	GG	2	80	165	
			IZMI	1051.6	1052.2	III	GG	2	30	160	
			POTS	1051.6	1056.1	III	G	2	40X	170U	
			IZMI	1056.0	1056.2	III	G	2	55	135	
	0625	1554	ONDR	1110.5	1112.2	DCIM	G,W	1	1030	2000X	
			IZMI	1110.8	1111.5	III	G	1	205	270X	
			IZMI	1113.3	1114.2	III	G,HARM	2	80	270X	
			IZMI	1113.4	1115.0	II	HARM	2	95	270	
			POTS	1113.4	1115.3	UNCLF		3	80	280U	
			IZMI	1136.2	1136.4	III	G	1	200	270X	
			IZMI	1154.1	1154.4	III	G	2	45	95	
			POTS	1154.1	1201.0	III	G	2	40X	120	
			IZMI	1200.5	1200.7	III	B	2	45	95	
			SVTO	1236.0	1237.0	III		1	36	43	
			PALE	1936.0	1936.0	III		1	25	60	
			PALE	2007.0	2007.0	III		2	25	60	
			SGMR	2007.0	2007.0	III		1	30	80	
	2046	2400	HIRA								
			PALE	2101.0	2102.0	III		1	25	45	
	2030	2400	CULG	2102.0	2102.0	III	B	1	30	90	
			CULG	2130.0	2130.0	III	B	1	30	90	
			CULG	2144.0	2147.0	III	G	1	28	180	
			CULG	2321.0	2321.0	III	B	1	30	90	
			LEAR	2321.0	2321.0	III		1	35	80	
15	0000	0847	HIRA								
			LEAR	0056.0	0056.0	III		1	63	75	
	0000	0745	CULG	0056.0	0056.0	III	B	1	60	280	
			CULG	0343.0	0344.0	III	G	1	30	330	
			CULG	0423.0	0424.0	III	G	1	25	180	
			LEAR	0423.0	0424.0	III		1	30	65	
	0607	1203	POTS	0629.1	0629.2	III	B	2	120	160	
	0630	0900	BLEN								
			POTS	0656	1203 U	I	S	1	110U	170U	
			CULG	0700.0	0701.0	III	G	1	150	350	
			POTS	0700.6	0701.3	III	G	2	145	170U	
			LEAR	0728.0	0729.0	III		1	30	65	
	0728	1200	IZMI	0728.0E	1100.0U	I	S	1	190	245	

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15			POTS	0728.4	0729.0	III	G	2	110U	170U	
			IZMI	0728.8	0729.0	III	G,HARM	2	45	170	
			CULG	0729.0	0729.0	III	B	1	30	150	
			IZMI	0729.9	0730.0	III	B	1	75	95	
			POTS	0738.6	0738.8	III	G	2	120	170U	
			IZMI	0746.5	0747.4	III	G	1	45	95	
			POTS	0842.7	0844.4	III	G	3	40X	170U	
			IZMI	0843.0	0844.4	III	G	2	40	215	
			LEAR	0843.0	0844.0	III		1	35	65	
			SVTO	0843.0	0843.0	III		1	36	45	
			POTS	0905.0	0905.8	III	G	2	110U	170U	
			IZMI	1107.5	1107.9	III	G	1	45	95	
			IZMI	1124.7	1125.2	III	G	2	105	270	
			POTS	1124.7	1126.6	III	G	2	110U	250U	
			SGMR	1219.0	1221.0	III		1	35	80	
			SVTO	1219.0	1221.0	V		2	35	85	
	0623	1557	ONDR	1219.0	1222.4	DCIM		1	2000X	4500X	
			ONDR	1219.2	1227.0	DCIM	GG	1	800X	2000X	
	1238	1615	POTS	1238 E	1600 U	I	S	2	110U	170U	
			POTS	1243.2	1243.9	III	G	3	110U	170U	
			POTS	1428.1	1428.3	III	G	2	110U	170U	
			POTS	1457.3	1459.3	III	GG	3	110U	170U	
			POTS	1518.1	1519.1	III	GG	2	110U	170U	
			POTS	1557.5	1559.8	III	G	2	110U	170U	
	2045	2400	HIRA								
	2030	2400	CULG	2113.0	2113.0	III	B	1	100	180	
			CULG	2238.0	2238.0	III	G	1	35	80	
16	0000	0745	CULG	0059.0	0125.0	III	N	1	28	180	
			CULG	0201.0	0205.0	III	G	1	30	180	
			LEAR	0202.0	0204.0	III		2	30	80	
			PALE	0202.0	0204.0	III		1	35	60	
			CULG	0241.0	0241.0	III	B	1	40	260	
			LEAR	0241.0	0241.0	III		1	47	65	
			PALE	0241.0	0241.0	III		1	35	65	
			PALE	0322.0	0323.0	III		1	35	75	
			CULG	0323.0	0323.0	III	B	2	30	180	
	0000	0848	HIRA	0323.0	0324.0	III	B	1	50	200	
			LEAR	0342.0	0343.0	III		1	30	55	
			CULG	0343.0	0428.0	III	N	1	25	160	
			LEAR	0403.0	0404.0	III		1	30	60	
			LEAR	0420.0	0425.0	III		3	30	80	
			CULG	0423.0	0425.0	III	G	3	18	400	
			HIRA	0423.0	0424.0	III	B	3	25X	360	
			PALE	0423.0	0423.0	III		1	35	75	
			CULG	0555.0	0555.0	III	B	1	28	180	
			LEAR	0555.0	0555.0	III		2	30	70	
			SVTO	0555.0	0555.0	III		1	39	63	
	0607	1613	POTS	0618 E	1603 U	I	S,C,DC	1	110U	300U	
			CULG	0621.0	0621.0	III	G	1	28	160	
			HIRA	0621.0	0622.0	III	G	1	40	170	
			LEAR	0621.0	0622.0	III		2	30	70	
			SVTO	0621.0	0621.0	III		1	38	85	
			POTS	0621.1	0621.8	III	G	3	40X	170U	
			LEAR	0630.0	0632.0	III		2	30	65	
			CULG	0631.0	0632.0	III	G	3	23	80	
			SVTO	0631.0	0631.0	III		1	37	60	
			POTS	0651.9	0652.3	UNCLF		2	110U	170U	
	0647	1200	IZMI	0651.9	0652.5	III	GG	2	90	270X	
			CULG	0652.0	0652.0	III	B	1	80	240	
			IZMI	0700.9	0707.6	I	N	1	50	95	
			IZMI	0726.3	0733.8	I	N	1	50	95	
			IZMI	0742.9	0743.6	III	G	2	45	270X	
			POTS	0742.9	0743.8	III	G	2	50	170U	
			POTS	0742.9	0747.8	DCIM		3	400U	620	
			CULG	0743.0	0744.0	III	G	1	45	640	
			HIRA	0743.0	0744.0	III	B	1	50	200	
			LEAR	0743.0	0744.0	III		1	30	75	
			SVTO	0743.0	0743.0	III		1	43	69	

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16			IZMI	0747.4	0747.8	III	G	2	200	270X	
			IZMI	0811.2	0811.8	I	GG	1	85	95	
			IZMI	0859.2	0859.5	III	G	2	80	165	
			POTS	0859.2	0859.5	III	G	2	110U	170U	
			IZMI	0908.0	0908.3	III	G	1	45	90	
			LEAR	0917.0	0922.0	III		1	30	65	
			SVTO	0917.0	0921.0	III		1	37	51	
			SVTO	0917.0	0922.0	III		1	37	51	
			POTS	0917.2	0922.1	III	G	2	40X	170U	
			IZMI	0917.3	0917.7	III	G,FS	2	35	265	
			IZMI	0921.5	0921.9	III	G,FS	2	30	135	
			IZMI	1003.3	1003.5	III	G	1	40	90	
			ONDR	1103.0	1109.0	DCIM	G	1	1060	1980	
	0621	1559	ONDR	1105.5	1106.2	DCIM		1	2000X	4500X	
			POTS	1149.5	1149.8	III	G	1	110U	170U	
			POTS	1353.8	1409.9	III	G	2	110U	170U	
			ONDR	1407.2	1412.3	DCIM	G,W	1	2000X	4500X	
			ONDR	1407.3	1411.0	DCIM	W	1	1190	2000X	
			POTS	1424.4	1431.5	III	G	2	80	170U	
			POTS	1454.7	1500.2	III	GG	3	40X	170U	
			SVTO	1455.0	1457.0	V		1	35	85	
			POTS	1516.0	1517.6	DCIM		2	400U	600U	
			ONDR	1516.3	1522.1	DCIM	G,W	1	800X	2000	
			POTS	1537.0	1539.5	III	G	2	40X	170U	
			SGMR	1537.0	1539.0	III		1	30	55	
			SVTO	1537.0	1538.0	III		1	35	72	
			SGMR	1832.0	2145.0	CONT		1	30	80	
	2030	2400	CULG	2030.0E	2213.0	III	S	1	28	140	
			CULG	2143.0	2144.0	III	G	2	23	180	
			PALE	2143.0	2143.0	III		1	25	90	
	2044	2400	HIRA	2143.0	2144.0	III	B	1	25X	200	
			CULG	2232.0	2342.0	III	N	1	100	200	
			LEAR	2345.0	2351.0	III		2	30	80	
			CULG	2346.0	2351.0	III	G	1	35	180	
			HIRA	2350.0	2351.0	III	B	1	30	160	
17	0000	0745	CULG	0211.0	0308.0	III	N	1	28	240	
			LEAR	0212.0	0212.0	III		2	30	80	
	0000	0849	HIRA	0216.0	0217.0	III	B	1	130	160	
			HIRA	0228.0	0231.0	III	G	1	110	320	
			LEAR	0236.0	0236.0	III		1	30	65	
			PALE	0236.0	0236.0	III		1	35	60	
			LEAR	0254.0	0255.0	III		2	30	65	
			PALE	0254.0	0330.0	III	N	1	25	90	
			CULG	0304.0	0305.0	III	G	2	28	150	
			HIRA	0304.0	0305.0	III	B	1	30	240	
			LEAR	0304.0	0305.0	III		2	30	80	
			CULG	0414.0	0420.0	III	GG	1	28	90	
			HIRA	0522.0	0523.0	III	B	1	120	300	
			CULG	0523.0	0523.0	III	B	1	140	260	
	0607	1613	POTS	0615 E	1606 U	I	S	1	110U	400	
			CULG	0718.0	0718.0	III	B	1	70	180	
			POTS	0718.1	0720.3	III	G	2	110U	170U	
	0704	1200	IZMI	0718.1	0718.3	III	G,HARM	2	55	180	
			IZMI	0756.2	0756.4	III	B	1	45	95	
			IZMI	0811.1	0813.1	III	G	2	40	270	
			IZMI	0815.0	1120.0U	I	S	2	200	270	
			IZMI	0827.6	0828.2	III	G	2	35	175	
			POTS	0828.1	0828.2	III	G	2	110U	170U	
			IZMI	0831.8	0832.4	III	GG,RS	2	245	270X	
			POTS	0840	1416	III	N	1	110U	170U	
			POTS	0844.9	0845.1	III	B	2	110U	170U	
			IZMI	0910.8	0911.0	III	B	2	40	100	
			IZMI	0926.2	0926.5	III	G,FS	2	40	110	
			POTS	0926.2	0926.5	III	B	1	40X	140	
			IZMI	0936.2	0936.5	III	G	2	45	160	
			POTS	0936.2	0936.5	III	B	2	40X	150	
			POTS	1058.7	1059.9	III	G	2	110U	135	
			IZMI	1103.3	1103.3	III	B	1	45	90	

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17	0618	1559	ONDR	1109.5	1128.0	DCIM	G	2	2000X	4500X	
			POTS	1110	1125	DCIM		2	200U	700	
			ONDR	1111.0	1126.4	DCIM	G	1	800X	2000X	
			IZMI	1114.7	1119.2	III	GG,HARM	2	60	270X	
			SVTO	1115.0	1116.0	III		1	68	85	
			POTS	1115.2	1116.9	II	SH,H	3	130	320U	
			POTS	1115.5	1116.2	II	F	3	65	90U	
			POTS	1115.6	1132.0	III	GG	3	110U	300U	
			IZMI	1120.0U	1200.0D	I	S	2	90	270X	
			POTS	1122.8	1124.6	II	UE	2	110U	160	
			IZMI	1125.1	1151.0	III	N	1	45	270X	
			IZMI	1129.2	1129.4	III	G	2	45	180	
			IZMI	1129.6	1134.6	II		1	45	65	
			POTS	1132.6	1134.7	II	UE	2	40X	60	
			SGMR	1137.0	1141.0	III		1	30	55	
			POTS	1146.0	1146.1	III	B	1	40X	90U	
			POTS	1209.4	1209.6	III	B	1	40X	90U	
			POTS	1211.2	1211.9	III	G	2	40X	120	
			POTS	1233.3	1233.4	III	B	2	110U	160	
			POTS	1233.6	1234.7	III	G	2	40X	120	
			SVTO	1253.0	1253.0	III		1	35	73	
			POTS	1253.5	1253.8	III	G	2	40X	90U	
			POTS	1326.4	1326.6	III	G	3	145	275U	
			POTS	1335.1	1338.2	III	GG	2	40X	170U	
			POTS	1405.7	1405.8	III	G	2	110U	160	
			POTS	1413.6	1413.8	III	G	3	110U	170U	
			POTS	1425.6	1425.9	III	G	2	110U	150	
			POTS	1500.0	1500.4	III	G	2	110U	160	
			POTS	1538.7	1544.2	III	GG	3	110U	170U	
			SGMR	1937.0	1941.0	III		1	30	55	
	2040	2400	CULG	2040.0E	2131.0	III	N	1	28	90	
	2043	2400	HIRA								
			CULG	2237.0	2237.0	III	B	1	25	90	
			CULG	2334.0	2400.0D	III	S	1	60	180	
			PALE	2349.0	2351.0	III		1	25	90	
			LEAR	2351.0	2351.0	III		2	30	80	
			CULG	2352.0	2352.0	III	B	1	18	90	
			LEAR	2357.0	0739.0	CONT		2	30	80	
18	0000	0748	CULG	0000.0E	0450.0	III	S	2	18X	180	
			PALE	0029.0	0031.0	III		1	25	60	
			CULG	0225.0	0225.0	III	B	2	130	400	
	0000	0850	HIRA	0225.0	0226.0	III	B	2	120	400	
			LEAR	0536.0	0537.0	III		2	30	50	
			CULG	0537.0	0537.0	III	B	1	23	60	
	0607	1613	POTS	0613 E	1607 U	I	S,C,DC	2	110U	375U	
	0616	1601	ONDR								
			POTS	0618	1603	III	N	1	110U	170U	
			CULG	0620.0	0740.0D	III	N	1	25	180	
			SVTO	0621.0	0621.0	III		1	40U	47U	
			POTS	0637.6	0641.2	III	G	3	110U	170U	
			IZMI	0659.0E	1000.3	I	N	1	200	260	
	0659	1200	IZMI	0659.0E	1200.0D	III	N	1	45	90	
			IZMI	0710.2	0713.2	III	GG	2	45	215	
			POTS	0710.2	0711.8	III	G	3	110U	170U	
			POTS	0724.3	0724.4	III	B	2	110U	170U	
			SVTO	0732.0	0732.0	III		1	35	75	
			IZMI	0732.3	0734.2	III	G,C	2	40	165	
			POTS	0732.3	0732.9	III	G	2	40X	170U	
			IZMI	0735.3	0736.7	III	G,C	2	45	165	
			IZMI	0738.1	0738.7	III	G	2	45	130	
			LEAR	0825.0	0826.0	III		1	35	65	
			SVTO	0825.0	0825.0	III		1	38U	45U	
			IZMI	0825.4	0826.2	III	G	1	40	95	
			POTS	0905.4	0907.2	III	G	2	110U	170U	
			POTS	0922.1	0922.3	III	B	2	110U	170U	
			POTS	0943.1	0943.2	III	B	2	110U	170U	
			IZMI	1000.3	1200.0D	I	S	2	120	270	
			IZMI	1022.8	1023.0	III	G	2	120	245	

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18			IZMI	1028.3	1028.6	III	B	2	45	160	
			POTS	1028.4	1028.6	III	B	2	40X	170U	
			POTS	1114.3	1114.5	III	B	1	40X	60	
			IZMI	1135.7	1154.2	III	G	2	200	270X	
			POTS	1206.7	1206.8	III	B	1	40X	150	
			POTS	1248.7	1248.8	III	B	2	110U	170U	
			SVTO	1320.0	1323.0	III		1	35U	45U	
			POTS	1320.3	1331.1	III	GG	2	40X	170U	
			SGMR	1330.0	1331.0	III		1	30	80	
			SVTO	1330.0	1331.0	III		1	35	79	
			POTS	1344.6	1348.8	III	G	3	40X	170U	
			POTS	1444.4	1444.5	III	B	2	110U	160	
			POTS	1445.3	1459.4	III	GG,RS	2	40X	170U	
			SGMR	1446.0	1446.0	III		1	30	55	
			SVTO	1446.0	1446.0	III		1	36	67	
			POTS	1509.9	1510.3	III	G	2	110U	170U	
			POTS	1549.2	1549.8	III	G	3	70	170U	
			PALE	2056.0	2058.0	III		2	25	89	
			SGMR	2056.0	2058.0	III		2	30	80	
	2040	2400	CULG	2056.0	2058.0	III	G	2	25	180	
	2041	2400	HIRA	2056.0	2057.0	III	G	2	25X	180	
			CULG	2101.0	2111.0	II	FN	1	28	70	
			CULG	2101.0	2112.0	II	SH	2	45	140	SWF ESS
			HIRA	2101.0	2110.0	II		2	50	120	ESS 600
			PALE	2105.0	2111.0	II		1	25	95	ESS 0730
			PALE	2105.0	2111.0	II		2	25	95	ESS 0730
			SGMR	2105.0	2110.0	II		2	30	80	ESS 0800
			CULG	2109.0	2127.0	III	N	1	28	180	
			CULG	2112.0	2116.0	II	FN	1	35	45	
			CULG	2112.0	2118.0	II	SH	1	45	80	
			HIRA	2112.0	2115.0	III	G	1	50	240	
			CULG	2153.0	2155.0	III	G	3	23	470	
			HIRA	2153.0	2154.0	III	B	3	25X	260	
			PALE	2153.0	2154.0	III		2	25	180	
			SGMR	2153.0	2154.0	III		2	30	80	
			CULG	2155.0	2201.0	II	FN	1	50	110	ESS 600
			CULG	2156.0	2202.0	II	SH	1	90	180	
			CULG	2157.0	2159.0	III	G	1	23	150	
			HIRA	2157.0	2202.0	II		2	80	180	ESS 550
			PALE	2158.0	2158.0	III		1	25	86	
			PALE	2247.0	2250.0	III		1	25	150	
			CULG	2250.0	2253.0	III	G	2	18	180	
			HIRA	2250.0	2251.0	III	B	2	25X	210	
			LEAR	2250.0	2251.0	III		2	37	80	
			CULG	2316.0	2318.0	III	G	1	18	180	
			HIRA	2316.0	2317.0	III	B	1	25X	160	
			LEAR	2316.0	2317.0	III		2	30	80	
			PALE	2316.0	2317.0	III		1	25	86	
			CULG	2335.0	2343.0	III	G	1	65	180	
			LEAR	2346.0	2350.0	III		3	30	80	
			CULG	2347.0	2349.0	III	G	2	20	160	
			HIRA	2347.0	2348.0	III	G	1	25X	140	
			PALE	2347.0	2349.0	III		1	25	135	
19	0000	0740	CULG	0015.0	0015.0	III	B	1	110	160	
			CULG	0049.0	0049.0	III	B	1	60	160	
			LEAR	0115.0	0118.0	III		2	30	80	
			CULG	0116.0	0118.0	III	G	1	18	450	
			PALE	0116.0	0118.0	III		1	25	135	
	0000	0851	HIRA	0116.0	0117.0	III	G	2	25X	440	
			CULG	0127.0	0245.0	III	N	1	140	180	
			LEAR	0201.0	0202.0	III		1	40	65	
			LEAR	0203.0	0209.0	II		2	30	80	ESS 0700
			PALE	0204.0	0209.0	II		1	33	86	ESS 0583
			HIRA	0205.0	0210.0	III	G	1	50	100	
			CULG	0206.0	0210.0	II	FN	1	30	50	
			CULG	0206.0	0210.0	II	SH	2	50	100	
			LEAR	0236.0	0236.0	III		1	30	60	
			PALE	0236.0	0243.0	III		1	35	175	

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19			HIRA	0242.0	0244.0	III	G	2	50	220	
			CULG	0243.0	0243.0	III	B	2	50	200	
			LEAR	0243.0	0243.0	III		1	55	75	
			CULG	0409.0	0410.0	III	G	2	18	90	
			HIRA	0409.0	0410.0	III	B	1	25X	80	
			LEAR	0409.0	0409.0	III		3	30	70	
			CULG	0435.0	0651.0	III	N	1	30	180	
			LEAR	0455.0	0456.0	III		1	30	60	
			HIRA	0512.0	0513.0	III	B	1	80	220	
	0607	1613	POTS	0610 E	1612 U	I	S,C,DC	2	110U	350U	40-90 MH
			POTS	0611	1520	III	N	1	110U	170U	
			LEAR	0611.0	0615.0	III		2	30	80	
			SVTO	0611.0	0615.0	III		2	35	85	
			POTS	0613.1	0623.7	III	GG	3	110U	170U	
			CULG	0615.0	0615.0	III	B	3	40	250	
			HIRA	0615.0	0616.0	III	B	3	50	240	
			POTS	0636.3	0646.6	III	G	3	110U	170U	
	0701	1200	IZMI	0701.0E	1200.0D	I	N	1	105	270	
			IZMI	0708.5	0708.6	III	B	1	75	95	
			POTS	0733.8	0734.1	III	G	2	110U	170U	
			LEAR	0753.0	0753.0	III		1	40	60	
			SVTO	0753.0	0754.0	III		1	43	59	
			IZMI	0753.6	0753.9	III	G	2	40	65	
			POTS	0759.0	0759.1	III	B	2	110U	170U	
			IZMI	0801.8	0801.82	III	G	2	120	270X	
			POTS	0801.8	0801.9	III	B	2	110U	170U	
			POTS	0829.0	0829.8	III	G	2	110U	170U	
			POTS	0836.8	0837.3	III	G	2	110U	170U	
			IZMI	0852.3	0853.6	III	GG	2	120	270	
			POTS	0852.4	0856.1	III	G	3	110U	170U	
			IZMI	0856.0	0856.1	III	G	2	45	170	
			POTS	0908.9	0920.4	III	G	2	110U	170U	
			IZMI	0920.2	0920.4	III	G	2	45	250	
			IZMI	0935.3	0935.5	III	G	2	105	180	
			POTS	0935.3	0942.6	III	G	2	110U	170U	
			IZMI	0941.9	0942.5	III	G,FS	2	45	180	
			IZMI	0948.2	0948.8	III	G	2	45	70	
			IZMI	0955.5	1001.2	III	GG	2	35	270X	
			SVTO	0959.0	1000.0	III		1	56	72	
			POTS	0959.1	1013.9	III	GG,RS	3	110U	170U	
			IZMI	1006.0	1011.9	III	N	1	135	270X	
			IZMI	1010.2	1010.5	III	G	2	65	140	
			IZMI	1013.7	1013.9	III	G	2	45	180	
			IZMI	1050.2	1051.0	III	GG	2	40	245	
			POTS	1050.4	1104.8	III	GG	3	110U	170U	
			IZMI	1052.5	1052.9	III	G	2	105	245	
			IZMI	1055.3	1055.5	III	B	2	45	180	
			IZMI	1104.1	1104.8	III	G	2	105	245	
			IZMI	1120.0	1123.2	III	GG	2	35	165	
			POTS	1120.8	1122.8	III	G	2	110U	170U	
			SVTO	1121.0	1123.0	III		1	36	67	
			ONDR	1137.3	1145.1	DCIM	G	1	2000X	800X	
	0614	1602	ONDR	1142.4	1145.0	DCIM	G	1	2000X	4500X	
			IZMI	1142.5	1153.9	II	II,HARM	2	80	180	
			POTS	1144.3	1145.6	II	F	2	125	145	
			POTS	1145.0	1145.8	II	SH	1	220	275U	
			POTS	1146.0	1148.1	II	UE	3	125	275U	
			SGMR	1146.0	1148.0	V		1	30	80	
			SVTO	1146.0	1147.0	III		1	35	78	
			POTS	1202.6	1203.7	III	B	2	110U	170U	
			SVTO	1243.0	1246.0	V		2	35	85	
			POTS	1243.5	1245.4	III	G,RS	3	110U	170U	
			SGMR	1244.0	1246.0	III		3	30	80	
			ONDR	1414.4	1416.0	DCIM		1	2000X	4500X	
			SVTO	1415.0	1415.0	III		1	48	84	
			POTS	1415.1	1423.0	III	G	3	110U	170U	
			POTS	1434.4	1434.6	III	G	3	110U	170U	
			SVTO	1457.0	1457.0	III		1	51	65	
			POTS	1457.5	1511.5	III	GG	3	110U	170U	

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19			POTS	1519.5	1521.2	III	G	3	110U	170U	
			POTS	1521.2	1522.8	II	UE	3	135	160	
			POTS	1536.0	1536.1	III	B	3	110U	170U	
			SGMR	1550.0	1551.0	III		1	30	60	
			SVTO	1550.0	1551.0	III		1	35	41	
			SGMR	1710.0	1711.0	V		1	30	55	
	2040	2400	CULG	2200.0	2215.0	III	GG	2	23	180	
			SGMR	2202.0	2203.0	III		1	30	80	
	2040	2400	HIRA	2202.0	2214.0	III	G	2	30	160	
			PALE	2351.0	2351.0	III		1	25	55	
20	0000	0740	CULG	0014.0	0015.0	III	G	1	45	180	
			CULG	0144.0	0144.0	III	B	2	60	300	
			PALE	0144.0	0144.0	III		1	60	1800	
	0000	0852	HIRA	0144.0	0145.0	III	B	2	70	320	
			LEAR	0253.0	0257.0	III		1	30	55	
			CULG	0337.0	0338.0	III	G	1	28	160	
			HIRA	0337.0	0338.0	III	B	2	80	150	
			LEAR	0337.0	0339.0	III		1	30	50	
			PALE	0337.0	0337.0	III		1	75	1500	
			CULG	0355.0	0359.0	III	G	1	40	170	
			HIRA	0355.0	0356.0	III	B	1	50	160	
			CULG	0436.0	0438.0	III	G	3	18	180	
			LEAR	0436.0	0438.0	III		3	30	80	
			HIRA	0437.0	0438.0	III	B	2	25X	180	
			CULG	0529.0	0531.0	III	G	1	25	260	
			HIRA	0529.0	0531.0	III	G	1	70	300	
			LEAR	0529.0	0529.0	III		1	30	50	
			CULG	0647.0	0650.0	III	G	1	60	330	
			IZMI	0647.0E	1200.0D	III	N	1	45	90	
	0647	1200	IZMI	0647.0E	1200.0D	I	N	1	160	270	
			ONDR	0752.1	0754.0	DCIM	W	1	1265	2000X	
	0611	1605	ONDR	0752.2	0753.5	DCIM	G	1	2000X	4500X	
			SVTO	0814.0	0815.0	III		1	65	84	
			IZMI	0814.6	0815.1	III	G	2	45	245	
			HIRA	0815.0	0833.0	III	G	3	50	440	
			IZMI	0821.1	0821.8	III	G,FS	2	55	270X	
			ONDR	0822.2	0844.1	DCIM	GG	2	800X	2000X	
			ONDR	0823.5	0839.0	DCIM	G	2	2000X	4500X	
			SVTO	0826.0	0916.0	IV		1	35	85	
			IZMI	0826.8	0827.9	II		2	50	120	
			IZMI	0826.8	0828.3	III	G	2	35	270X	
			IZMI	0828.5U	0906.0U	III	N,C	2	40	270X	
			IZMI	0831.1	0831.3	III	B	2	30	90	
			LEAR	0833.0	0919.0	IV		2	35	80	
			IZMI	0836.0	0836.2	III	G	2	30	75	
			IZMI	0840.6	0845.6	UNCLF		2	55	95	
			LEAR	0843.0	0845.0	II		2	63	80	ESS 0500
			SVTO	0843.0	0845.0	II		1	62	74	ESS 0500
			ONDR	0848.2	0859.2	DCIM	G	1	800X	2000X	
			ONDR	0852.4	0857.1	DCIM		1	2000X	3905	
			IZMI	0913.4	0914.8	III	G,C	2	35	150	
			ONDR	1003.3	1004.3	DCIM	G	2	2000X	4500X	
			ONDR	1003.3	1004.5	DCIM		1	1580	2000X	
			IZMI	1003.6	1003.7	III	B	2	130	270X	
			ONDR	1030.5	1033.4	DCIM	GG	2	800X	1250	
			IZMI	1041.7	1044.4	III	GG	2	35	270X	
			ONDR	1053.4	1057.2	DCIM	G	1	800X	2000X	
			IZMI	1053.9	1058.6	III	GG,FS	2	25	270X	
			SVTO	1054.0	1056.0	III		1	35	83	
			ONDR	1054.1	1057.1	DCIM	G	1	2000X	4500X	
			SVTO	1114.0	1225.0	CONT		1	60	80	
			SVTO	1208.0	1213.0	III		1	35	83	
			SVTO	1437.0	1451.0	III	N	1	37	72	
			SGMR	1450.0	1501.0	III	N	1	30	60	
			SGMR	1643.0	1646.0	III		2	30	80	
			PALE	1850.0	1901.0	III	N	2	25	1800	
			PALE	1932.0	1933.0	III		1	30	50	
			SGMR	1932.0	1933.0	III		1	35	50	

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20			PALE	2011.0	2014.0	III		1	25	130	
			SGMR	2011.0	2014.0	III		2	30	60	
	2040	2400	CULG	2118.0	2118.0	III	B	1	45	90	
			CULG	2129.0	2133.0	III	G	1	30	160	
			CULG	2158.0	2159.0	III	G	2	28	180	
	2038	2400	HIRA	2158.0	2159.0	III	B	1	25X	160	
			CULG	2211.0	2222.0	III	G	1	25	180	
			HIRA	2215.0	2217.0	III	G	1	40	160	
			CULG	2333.0	2352.0	III	N	1	30	180	
			HIRA	2343.0	2344.0	III	B	1	50	140	
			HIRA	2350.0	2351.0	III	B	1	40	120	
			LEAR	2350.0	2351.0	III		2	30	80	
			PALE	2350.0	2351.0	III		1	40	87	
21	0000	0740	CULG	0040.0	0047.0	III	G	1	25	160	
			LEAR	0043.0	0047.0	III		2	30	80	
	0000	0852	HIRA	0043.0	0044.0	III	G	1	25X	140	
			CULG	0113.0	0114.0	III	G	1	40	180	
			HIRA	0113.0	0114.0	III	B	1	80	160	
			CULG	0153.0	0155.0	III	G	3	18X	180	
			HIRA	0153.0	0159.0	III	G	2	25X	300	
			LEAR	0153.0	0524.0	III	N	2	30	80	
			PALE	0153.0	0158.0	III		2	25	150	
			CULG	0156.0	0204.0	III	G	2	20	180	
			CULG	0218.0	0740.0D	I	S	1	100	180	
			CULG	0229.0	0229.0	III	B	1	20	70	
			CULG	0333.0	0334.0	III	G	1	30	110	
			CULG	0401.0	0411.0	III	G	1	30	110	
			CULG	0454.0	0540.0	III	N	1	30	180	
	0543	0635	POTS	0604 E	0635 U	I	S,C,DC	2	110U	170U	
			LEAR	0625.0	0625.0	III		1	30	50	
	0645	1630	POTS	0645 E	1617 U	I	S,C,DC	2	110U	350U	
			POTS	0656.2	0656.3	DCIM		2	400	550	
			CULG	0657.0	0659.0	III	G	1	28	140	
			LEAR	0657.0	0659.0	III		2	30	70	
			POTS	0657.1	0657.2	III	B	2	110U	160	
			SVTO	0658.0	0658.0	III		1	35	85	
			SVTO	0701.0	0842.0	CONT		1	38	56	
			LEAR	0708.0	0801.0	CONT		1	40	65	
	0708	1203	IZMI	0708.0E	1203.0D	I	S	2	80	270X	
			POTS	0711.9	0712.3	DCIM		1	400	475	
			IZMI	0715.0U	1020.0U	III	N	1	45	95	
			ONDR	0717.3	0719.0	DCIM	G,W	1	800X	2000X	
			IZMI	0733.4	0733.7	III	B	2	40	95	
			CULG	0734.0	0740.0	III	G	1	28	180	
			LEAR	0736.0	0737.0	III		2	30	80	
			SVTO	0736.0	0736.0	III		1	37	83	
			IZMI	0736.5	0736.8	III	G	2	30	165	
			POTS	0736.6	0736.9	III	B	3	40X	170U	
			IZMI	0739.5	0739.7	III	B	2	135	255	
			POTS	0739.6	0739.7	III	G,U	3	130	170U	
			IZMI	0746.7	0747.8	III	G	1	45X	120	
	0609	1606	ONDR	0758.4	0759.3	DCIM	G	1	2080	4500X	
			IZMI	0758.8	0759.3	III	G	2	160	255	
			POTS	0906.4	0906.6	III	G	2	40X	150	
			POTS	0922.9	0923.0	III	B	1	40X	90U	
			POTS	0937.6	0937.7	III	B	2	110U	170U	
			IZMI	1057.8	1058.0	III	G	2	80	175	
			POTS	1057.8	1058.2	III	G	2	80	170U	
			POTS	1114.7	1115.2	DCIM		2	275U	700	
			POTS	1130.3	1130.4	III	B	1	110U	170U	
			POTS	1149.4	1149.5	III	B	1	200U	275U	
			IZMI	1201.8	1202.8	III	G	2	45	75	
			SVTO	1202.0	1203.0	III		1	35	68	
			POTS	1202.7	1203.0	III	B	2	40X	145	
			POTS	1421.0	1423.8	II	UE	3	65	135	
			SVTO	1421.0	1424.0	III		1	67	85	
			SVTO	1421.0	1424.0	II		1	67	85	ESS 1200
			ONDR	1438.4	1439.2	DCIM	G	1	1020	2000	

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21			POTS	1458.2	1458.5	III	G	2	110U	145	
	2036	2400	HIRA								
	2040	2400	CULG								
22	0000	0853	HIRA								
			LEAR	0304.0	0304.0	III		1	30	55	
	0000	0740	CULG	0304.0	0304.0	III	B	1	28	80	
			CULG	0407.0	0407.0	III	B	1	60	180	
	0700	1200	IZMI	0700.3	0701.5	I	GG	2	200	230	
			IZMI	0701.0	0703.3	III	G	1	40	65	
			IZMI	0714.5	0714.6	III	B	1	200	245	
			IZMI	0746.1	0747.3	III	G	1	45	65	
			IZMI	0901.0	0901.6	I	GG,DC	2	130	160	
			IZMI	0901.5	0901.7	III	B	2	50	95	
			IZMI	0908.4	0908.9	I	GG,DC	2	202	215	
			IZMI	0917.6	0918.0	III	G	1	45X	90	
			IZMI	0949.1	0949.8	III	B	1	45	95	
			IZMI	0956.3	0957.3	III	G	1	45	65	
			IZMI	1014.0	1014.1	III	B	1	45	90	
			IZMI	1023.0U	1055.0U	I	S	1	200	270	
			IZMI	1025.9	1026.1	III	B	1	45	65	
			IZMI	1042.2	1042.4	III	B	1	45	95	
	0607	1608	ONDR	1048.1	1049.3	DCIM	G	1	1147	2000X	
			IZMI	1101.6	1101.8	III	B	2	45	95	
			IZMI	1109.0	1200.0U	III	N	1	45	95	
			IZMI	1130.8	1131.3	III	G	2	85	270X	
			IZMI	1133.3	1133.5	III	G	2	200	270X	
			SVTO	1616.0	1617.0	III		1	47	60	
			PALE	1846.0	1900.0	II		2	25	180	ESS 0652
			PALE	1846.0	2114.0	IV		2	25	180	
			SGMR	1849.0	1900.0	II		3	30	80	ESS 1200
			SGMR	1849.0	2030.0	IV		3	30	80	
	2034	2400	HIRA								
	2030	2400	CULG	2040.0	2040.0	III	B	1	30	90	
			CULG	2328.0	2330.0	III	G	1	110	190	
23			LEAR	0220.0	0222.0	III		2	30	70	
			PALE	0220.0	0222.0	III		1	25	90	
	0000	0740	CULG	0220.0	0222.0	III	G	1	23	180	
	0000	0855	HIRA	0220.0	0222.0	III	G	1	40	300	
			CULG	0406.0	0406.0	III	B	1	30	120	
			CULG	0506.0	0511.0	III	G	1	35	300	
			LEAR	0507.0	0508.0	III		2	30	62	
			HIRA	0509.0	0510.0	III	B	2	100	340	
			LEAR	0510.0	0905.0	CONT		1	30	80	
			SVTO	0528.0	1643.0	CONT		1	35	85	
	0605	1609	ONDR								
			CULG	0654.0	0656.0	III	G	3	28	300	
			HIRA	0654.0	0655.0	III	B	1	50	320	
			LEAR	0654.0	0655.0	III		3	30	80	
			SVTO	0654.0	0655.0	III		2	35	85	
			CULG	0717.0	0717.0	III	B	1	28	140	
			LEAR	0717.0	0717.0	III		2	30	80	
			SVTO	0717.0	0717.0	III		1	36	85	
	0902	1200	IZMI	0802.0E	1200.0D	I	S	2	135	270X	
			IZMI	0804.2	0804.4	III	G,RS	2	45	65	
			IZMI	0825.9	0826.4	III	G	2	45	95	
			IZMI	0829.5	0829.8	III	G	2	65	180	
			IZMI	0834.1	0835.0	III	G	2	45	270X	
			LEAR	0836.0	0839.0	III		2	35	80	
			SVTO	0836.0	0839.0	III		1	35	75	
			IZMI	0836.3	0839.7	II	HARM	2	40	90	
	0836	1634	POTS	0837 E	0839.1	UNCLF		2	40X	60	
			IZMI	0903.8	0904.1	III	B	2	35	95	
			IZMI	0905.5	0905.7	UNCLF	RS	2	40	95	
			POTS	0919 E	0937 U	I	S,C,DC	2	110U	170U	
			IZMI	1006.8	1006.9	III	G	2	200	270X	
			IZMI	1018.0U	1200.0D	III	N	1	45	95	
			IZMI	1020.7	1021.3	III	G,FS	2	40	160	

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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			POTS	1020.7	1021.4	III	G	2	40X	90U	
			POTS	1025 E	1228 U	I	S,C,DC	2	110U	300U	
			POTS	1031.8	1032.0	III	B	2	40X	140U	
			IZMI	1045.1	1046.2	III	G	2	190	270X	
			POTS	1046.0	1046.3	III	G	2	120	400	
			POTS	1238.7	1239.6	III	G	2	40X	90U	
			POTS	1309.0	1310.6	III	G	3	40X	90U	
			SGMR	1309.0	1311.0	V		2	30U	70U	
			SGMR	1412.0	1421.0	III		1	30	50	
			POTS	1412.5	1420.5	III	G	2	40X	155	
			POTS	1529.2	1529.3	III	B	2	55	80	
			PALE	1833.0	1834.0	III		1	25	70	
			SGMR	1833.0	1833.0	III		1	30	60	
	2033	2400	HIRA								
	2040	2400	CULG								
			LEAR	2325.0	0807.0	CONT		1	30	80	
24			LEAR	0108.0	0109.0	III		2	30	70	
			PALE	0108.0	0109.0	III		1	40	58	
	0000	0800	CULG	0109.0	0109.0	III	B	1	20	90	
			CULG	0351.0	0351.0	III	B	1	30	180	
			CULG	0438.0	0438.0	III	B	1	30	110	
			SVTO	0528.0	0804.0	CONT		1	35	85	
	0544	1627	POTS	0544 E	1610 U	I	S,C,DC	2	40X	300U	
			CULG	0636.0	0740.0U	III	S	1	30	180	
			IZMI	0652.0E	1200.0D	III	N	1	45	90	
	0652	1200	IZMI	0652.0E	1200.0D	I	S,C	2	50	260	
			IZMI	0710.0	0710.2	III	G	2	55	120	
			LEAR	0738.0	0739.0	III		2	30	80	
			IZMI	0738.6	0738.9	III	G	2	45	215	
	0603	1611	ONDR	0744.1	0757.1	DCIM	GG	2	2000X	4500X	
			ONDR	0744.4	0802.4	DCIM	GG	2	800X	2000X	
			LEAR	0750.0	0802.0	II		2	30	80	ESS 0800
			POTS	0750.0	0756.5	DCIM		2	450	700	
			SVTO	0750.0	0804.0	II		1	35	85	ESS 0700
			IZMI	0750.2	0751.5	III	G	2	200	270X	
			IZMI	0750.5	0802.2U	II	HARM,FS	2	25X	180	
			POTS	0750.6	0813	II	F,H	2	40X	90U	
			POTS	0750.9	0813	II	SH,H	2	75	170U	
			CULG	0751.0	0756.0	II	FN	3	30	90	
			CULG	0751.0	0800.0D	II	SH	2	40	180	ESS 700
			HIRA	0751.0	0800.0	II	SH	2	60	160	ESS 800
	0000	0855	HIRA	0751.0	0758.0	II	FN	2	50	90	ESS 800
			IZMI	0753.0	0755.6	III	G	2	40	200	
			IZMI	0757.0U	0835.0U	IV		2	50	175	
			LEAR	0802.0	0804.0	III		2	30	80	
			IZMI	0802.9	0804.2	III	GG	2	30	65U	
			SVTO	0804.0	1644.0	IV		1	35	85	
			LEAR	0807.0	0954.0	IV		2	30	80	
			IZMI	0807.2	0808.2	III	G	2	35	65	
			ONDR	0807.3	0817.4	DCIM	G	1	2000X	4500X	
			ONDR	0808.2	0817.5	DCIM	G	1	800X	2000X	
			IZMI	0810.2	0813.2	III	GG	2	30	145	
			ONDR	0824.3	0827.3	DCIM	G	1	800X	2000X	
			POTS	0825	0840.5	III	GG	2	40X	90U	
			IZMI	0825.3	0828.7	III	GG	2	35	65	
			ONDR	0833.1	0848.2	DCIM	GG	2	800X	2000X	
			ONDR	0833.5	0909.0	DCIM	G	1	2000X	4500X	
			IZMI	0837.5	0838.1	III	G	2	40	100	
			ONDR	0851.3	0916.1	DCIM	GG	2	800X	2000X	
			POTS	0917	1524	III	N	1	40X	90U	
			ONDR	0931.4	0939.2	DCIM	GG	2	800X	1292	
			IZMI	1111.3	1113.4	III	GG	2	30	245	
			POTS	1111.5	1112.6	III	G	2	40X	250U	
			IZMI	1140.5	1146.5	III	GG	2	25X	245	
			POTS	1140.5	1147.5	III	GG	3	40X	170U	
			POTS	1322.1	1322.7	III	G	2	40X	90U	
			POTS	1342.4	1343.5	III	G	2	40X	90U	
			POTS	1410.9	1411.3	III	G	2	40X	90U	

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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			SGMR	1518.0	1535.0	III	N	3	30	80	
			SVTO	1518.0	1521.0	V		2	35	85	
			POTS	1518.8	1521.3	III	G	3	40X	70	
			SVTO	1532.0	1535.0	III		1	35	85	
			POTS	1533.4	1534.9	III	G	2	40X	90U	
			SGMR	1958.0	1958.0	III		3	30	80	
	2032	2400	HIRA								
			SGMR	2036.0	2037.0	III		1	30	80	
	2040	2400	CULG	2040.0E	2400.0D	III	S	1	28	150	
25	0000	0856	HIRA								
	0000	0740	CULG	0000.0E	0740.0D	III	S	1	28	160	
			LEAR	0128.0	0352.0	CONT		2	30	80	
			SVTO	0503.0	1645.0	IV		1	35	85	
	0600	1613	ONDR								
	0544	1628	POTS	0616	1628 U	I	S,C,DC	3	40X	400	
	0659	1200	IZMI	0659.0E	1200.0D	I	S,C	2	45	270X	
			POTS	0703	1408	III	N	1	40X	90U	
			IZMI	0805.4	0806.5	III	G	2	40	180	
			IZMI	0918.0	0918.3	III	G	2	105	240	
			POTS	1137.7	1138.1	III	G	3	110U	170U	
			SGMR	1142.0	2200.0	CONT		2	30	80	
			POTS	1234.6	1234.8	III	G	2	40X	170U	
			PALE	1958.0	1958.0	III		2	25	180	
			PALE	2036.0	2036.0	III		1	25	54	
	2040	2400	CULG	2040.0E	2237.0U	IV	FS	2	23	180	
			PALE	2121.0	2125.0	III		1	25	150	
	2031	2400	HIRA	2121.0	2122.0	III	B	1	40	140	
			CULG	2122.0	2122.0	III	B	3	30	180	
			CULG	2233.0	2234.0	III	G	1	23	120	
			CULG	2235.0	2248.0	II	SH	3	40	240	ESS 600
			CULG	2235.0	2251.0	II	FN	3	23	130	
			HIRA	2235.0	2246.0	II		2	30	160	ESS 700
			HIRA	2236.0	2238.0	III	G	2	25X	160	
			LEAR	2236.0	2237.0	III		2	35	80	
			PALE	2236.0	2246.0	II		2	25	180	ESS 1700
			SGMR	2236.0	2240.0	V		3	30	80	
			LEAR	2237.0	2245.0	II		2	35	80	ESS 0800
			LEAR	2245.0	0929.0	IV		1	30	80	
			CULG	2250.0	2400.0D	I	S,C	2	60	160	
			CULG	2255.0	2400.0D	III	S	1	23	180	
26			CULG	0000.0E	0740.0D	I	S,C	2	60	160	
	0000	0740	CULG	0000.0E	0740.0D	III	S	1	23	180	
			CULG	0257.0	0259.0	III	G	3	18	180	
			LEAR	0257.0	0258.0	III		2	30	80	
	0000	0857	HIRA	0257.0	0258.0	III	B	1	25X	160	
			SVTO	0503.0	1646.0	IV		1	35	85	
	0543	1630	POTS	0543 E	1630 U	I	S,C,DC	2	40X	400	
			IZMI	0548.0E	1200.0D	III	S	2	45	90	
	0548	1200	IZMI	0548.0E	1200.0D	I	S,C	2	45	250X	
			IZMI	0631.8	0631.9	III	G	2	160	270X	
			POTS	0631.9	0632.0	III	G	2	200U	325	
			LEAR	0647.0	0647.0	III		2	30	60	
			IZMI	0647.6	0648.8	III	GG	2	40	270X	
			POTS	0647.9	0648.1	III	G	2	200U	375	
			IZMI	0701.1	0701.3	III	B	2	40	60	
			POTS	0918	1543	III	N	1	40X	90U	
			POTS	0936.3	0941.9	III	GG	3	40X	300	
			IZMI	0937.6	0937.7	UNCLF		2	40	45	
			IZMI	0938.3	0938.5	III	B	2	40	90	
			SVTO	1036.0	1042.0	III		1	35	72	
			IZMI	1036.4	1039.0	III	GG	2	25X	270X	
			ONDR	1037.3	1042.4	DCIM	G	1	800X	2000X	
	0658	1613	ONDR	1040.5	1042.5	DCIM		1	2000X	4500X	
			IZMI	1040.6	1041.8	III	G	2	25X	270X	
			IZMI	1051.9	1053.2	III	G	2	40	65	
			IZMI	1056.3	1056.8	III	G	2	40	95	
			IZMI	1114.9	1116.0	III	G	2	35	95	

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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			POTS	1114.9	1119.4	III	G	3	40X	170U	
			SGMR	1118.0	1118.0	III		1	35	60	
			IZMI	1118.1	1118.4	III	G	2	25X	270X	
			IZMI	1118.2	1118.4	V		2	30	65	
			POTS	1235.6	1235.9	III	G	2	40X	90U	
			SGMR	1710.0	1755.0	CONT		1	30	70	
	2100	2400	HIRA								
	2040	2400	CULG	2111.0	2400.0D	III	S	1	30	160	
			LEAR	2316.0	0151.0	CONT		1	40	80	
27	0000	0740	CULG	0000.0	0117.0	III	S	1	30	130	
			LEAR	0139.0	0141.0	III		2	30	60	
			PALE	0139.0	0141.0	III		1	25	135	
			CULG	0140.0	0141.0	III	G	1	18X	150	
			CULG	0222.0	0226.0	III	G	1	30	90	
			CULG	0321.0	0322.0	III	G	1	30	90	
			CULG	0354.0	0354.0	III	B	1	30	90	
			LEAR	0444.0	0445.0	III		1	30	40	
			CULG	0445.0	0445.0	III	B	1	30	160	
	0604	1200	IZMI	0604.0E	1200.0D	III	N	1	45	95	
			CULG	0634.0	0635.0	III	G	1	25	160	
			LEAR	0634.0	0635.0	III		1	30	70	
			SVTO	0634.0	0645.0	III	N	2	35	85	
			IZMI	0634.2	0634.8	III	G,FS	2	30	245	
	0543	1628	POTS	0641	1504	I	S	1	110U	400	
			IZMI	0641.9	0645.7	III	GG,FS	2	45	220	
			CULG	0642.0	0645.0	III	G	3	23	160	
	0000	0858	HIRA	0642.0	0645.0	III	G	1	30	160	
			POTS	0642.1	0644.3	III	G	3	40X	70	
			IZMI	0642.2	0645.0U	CONT		2	25X	85	
	0633	1615	ONDR	0643.3	0650.4	DCIM	GG	1	800X	1358	
			CULG	0646.0	0653.0	II	FN	3	28	90	
			CULG	0646.0	0654.0	II	SH	3	40	180	ESS 1400
			SVTO	0646.0	0705.0	II		2	35	85	ESS 1000
			IZMI	0646.2	0705.7	II	HARM	2	35	230	
			POTS	0646.3	0651	UNCLF		2	130	250	
			HIRA	0647.0	0705.0	II		3	40	200	ESS 700
			LEAR	0647.0	0705.0	II		3	30	80	ESS 0900
			POTS	0647.0	0701	II	SH,H	3	40X	135	
			POTS	0647.1	0654 U	II	F,H	3	40X	80U	
			CULG	0649.0	0705.0	II	FN	1	28	65	
			CULG	0649.0	0706.0	II	SH,H	3	45	130	ESS 400
			CULG	0703.0	0704.0	III	G	3	25	180	
			POTS	0703.0	0704.1	UNCLF		2	40X	400	
			IZMI	0703.2	0704.6	III	GG	2	30	270X	
			CULG	0706.0	0708.0	III	G	1	30	90	
			IZMI	0706.0	0707.9	III	GG	2	30	180	
			IZMI	0715.9	0716.0	III	B	1	105	270X	
			POTS	0715.9	0716.0	III	G	1	200U	375	
			IZMI	0727.8	0729.1	III	G	2	45	95	
			LEAR	0808.0	0808.0	III		1	30	40	
			IZMI	0844.2	0844.3	III	G	2	35	65	
			POTS	0844.2	0900.8	III	GG	3	40X	400	
			LEAR	0849.0	0900.0	III	N	2	35	70	
			SVTO	0849.0	0900.0	III	N	1	35	85	
			IZMI	0849.2	0850.5	III	G	2	30	160	
			IZMI	0853.0	0853.3	III	G	2	30	160	
			IZMI	0853.8	0854.3	III	G	1	40	240	
			IZMI	0856.9	0859.1	III	G	2	25X	270X	
			IZMI	0900.4	0900.8	III	G	1	25X	90	
			POTS	1029.4	1029.5	III	B	1	40X	70	
			ONDR	1034.3	1036.0	DCIM	G	1	800X	1114	
			ONDR	1035.3	1038.0	DCIM	G,W	1	2322	4500X	
			SVTO	1051.0	1053.0	III		1	35	75	
			IZMI	1051.8	1052.5	III	GG	2	25X	215	
			POTS	1051.8	1053.6	III	GG	3	40X	400	
			IZMI	1052.8	1053.4	III	GG	2	25X	270X	
			POTS	1130.5	1130.7	III	G	2	40X	90U	
			POTS	1259.9	1310.2	III	GG	2	40X	90U	

S O L A R R A D I O E M I S S I O N
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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
27			SVTO	1305.0	1310.0	III		1	35	76	
			POTS	1332.7	1333.1	III	G	1	40X	90U	
			ONDR	1358.5	1400.0	DCIM	G	1	2889	4500X	
			SGMR	1430.0	1505.0	III	N	3	30	80	
			SVTO	1430.0	1505.0	III	N	1	35	85	
			POTS	1430.7	1431.0	III	G	2	40X	90U	
			POTS	1452.1	1505.4	III	GG	3	40X	90U	
			POTS	1452.2U	1453.1	V		3	40X	65	
			SGMR	1826.0	1851.0	III	N	1	30	60	
			PALE	1833.0	1907.0	III	N	1	25	65	
			PALE	2003.0	2132.0	III	N	1	25	60	
	2028	2400	HIRA								
	2040	2400	CULG	2106.0	2107.0	III	G	1	30	80	
			CULG	2128.0	2128.0	III	B	1	35	90	
			CULG	2304.0	2345.0	III	N	1	18	90	
			PALE	2319.0	2319.0	III		1	25	56	
			LEAR	2339.0	2344.0	III		1	30	55	
			PALE	2339.0	2344.0	III		1	25	77	
28	0000	0858	HIRA								
			LEAR	0053.0	0053.0	III		1	30	55	
			PALE	0053.0	0055.0	III		1	25	71	
	0000	0740	CULG	0053.0	0054.0	III	G	1	25	90	
			CULG	0135.0	0135.0	III	B	1	25	80	
			LEAR	0135.0	0135.0	III		2	30	43	
			LEAR	0200.0	0201.0	III		2	30	55	
			PALE	0200.0	0201.0	III		1	25	81	
			CULG	0201.0	0313.0	III	N	1	23	150	
			LEAR	0223.0	0250.0	III	N	2	30	60	
			LEAR	0301.0	0303.0	III		2	30	65	
			CULG	0445.0	0512.0	III	N	1	23	160	
			LEAR	0445.0	0447.0	III		1	30	50	
			LEAR	0506.0	0509.0	III		2	30	80	
			SVTO	0506.0	0508.0	III		1	36	60	
	0543	1630	POTS	0543 E	1613	I	S,W	1	110U	400	
			IZMI	0547.0E	0820.0U	I	N	2	200	270	
	0547	1200	IZMI	0547.0E	0617.0U	III	N	1	45	90	
	0713	1618	ONDR								
			IZMI	0745.2	0745.9	III	G	1	85	95	
			IZMI	0821.8	0822.2	III	G	2	190	270	
			LEAR	0837.0	0839.0	III	N	2	40	70	
			SVTO	0934.0	0935.0	III		1	35	59	
			IZMI	0935.1	0935.5	III	G	2	30	135	
			POTS	0935.3	0939.9	III	G	2	40X	90U	
			IZMI	0939.7	0939.9	III	B	2	45	80	
			IZMI	1052.4	1052.6	III	B	1	45	95	
			POTS	1052.4	1052.6	III	B	1	40X	150	
			POTS	1114.5	1114.7	III	B	1	40X	65	
			IZMI	1133.0	1133.7	III	G	1	45	90	
			POTS	1135.1	1135.2	III	G	2	110U	145	
			SVTO	1213.0	1216.0	III		1	35	61	
			POTS	1213.2	1216.1	III	G	2	40X	90U	
			SVTO	1453.0	1454.0	III		1	38	64	
			SGMR	1635.0	1704.0	III	N	2	30	70	
			PALE	2010.0	2011.0	III		1	25	65	
	2027	2400	HIRA								
	2040	2400	CULG	2129.0	2230.0	III	N	1	28	160	
			PALE	2144.0	2151.0	III		1	25	82	
29	0000	0740	CULG	0034.0	0037.0	III	G	1	23	90	
			LEAR	0036.0	0036.0	III		2	30	80	
			CULG	0053.0	0053.0	III	B	1	18	90	
			LEAR	0053.0	0053.0	III		2	30	80	
			CULG	0117.0	0123.0	III	G	2	18	150	
			LEAR	0117.0	0124.0	III		3	30	80	
	0000	0859	HIRA	0118.0	0119.0	III	B	2	30	150	
			CULG	0309.0	0310.0	III	G	2	18	80	
			LEAR	0309.0	0310.0	III		2	30	80	
			PALE	0309.0	0310.0	III		1	25	70	

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29			CULG	0325.0	0407.0	III	N	1	28	90	
			LEAR	0327.0	0450.0	III	N	1	30	70	
			CULG	0515.0	0516.0	III	G	1	30	170	
			HIRA	0515.0	0516.0	III	B	2	50	180	
			LEAR	0515.0	0516.0	III		2	30	80	
			SVTO	0515.0	0515.0	III		1	35	85	
	0606	1200	IZMI	0607.4	0607.5	III	B	2	45	95	
	0543	1628	POTS	0617	0618	I	S	1	200U	250	
			IZMI	0622.1	0622.4	III	B	1	45	95	
			IZMI	0637.0	0637.4	III	G	1	45	95	
			POTS	0648	0649	I		1	200U	250	
			IZMI	0652.7	0657.4	III	GG,FS	2	40	145	
			CULG	0654.0	0657.0	III	G	1	30	130	
			SVTO	0655.0	0656.0	III		1	35U	85U	
			IZMI	0704.8	0707.4	I	GG,DC	2	45	63	
			IZMI	0707.1	0707.6	I	GG,DC	2	85	100	
	0709	1620	ONDR								
			POTS	0712	0713	I	S	1	250	300	
			IZMI	0748.3	0749.8	III	GG	2	40	180	
			SVTO	0749.0	0749.0	III		1	35U	67U	
			IZMI	0812.6	0812.8	III	B	2	40	165	
			LEAR	0837.0	0839.0	III	N	2	40	70	
			IZMI	0838.0	0838.8	III	G,FS	2	40	135	
			POTS	0838.0	0846.7	III	G	2	40X	90U	
			SVTO	0838.0	0838.0	III		1	46	77	
			SVTO	0846.0	0846.0	III		1	35	73	
			IZMI	0846.1	0846.7	III	G,FS	2	40	210	
			IZMI	0853.3	0853.5	III	B	2	45	135	
			IZMI	0856.1	0856.4	III	G	2	120	175	
			IZMI	0935.3	0936.3	III	G	2	45	200	
			POTS	0935.4	0946.9	III	GG,RS,U	3	40X	400	
			IZMI	0938.1	0943.9	III	GG	2	25X	270X	
			LEAR	0939.0	0945.0	III		2	30	80	
			SVTO	0939.0	0945.0	III		1	35	85	
			IZMI	0944.7	0947.0	III	GG,FS	2	25X	180	
			POTS	1008	1517	III	N	1	40X	90U	
			POTS	1030 E	1204 U	I	S	1	110U	250U	
			SVTO	1104.0	1154.0	CONT		1	35	80	
			POTS	1115.2	1140.8	III	GG,RS	3	40X	400	
			IZMI	1127.9	1134.8	III	GG	2	25X	270	
			SGMR	1128.0	1129.0	III		2	30	80	
			SVTO	1128.0	1135.0	III		2	35	85	
			IZMI	1136.9	1140.7	III	G	1	95	160	
			SVTO	1329.0	1332.0	III		1	35	72	
			SVTO	1346.0	1347.0	III		1	35	51	
			SGMR	1442.0	1517.0	III	N	1	30	80	
			SVTO	1442.0	1443.0	III		1	35	85	
			POTS	1442.2	1443.3	III	G,RS	2	40X	250U	
			SVTO	1517.0	1517.0	III		1	37	62	
			SGMR	1719.0	1720.0	III		1	30	60	
			SGMR	1811.0	1821.0	III		2	30	80	
			PALE	1950.0	2007.0	III	N	1	25	60	
			SGMR	1950.0	2057.0	III	N	2	30	80	
	2025	2400	HIRA	2032.0	2033.0	III	B	1	30	140	
	2040	2400	CULG	2042.0	2043.0	III	G	1	30	150	
			PALE	2242.0	2243.0	III		1	25	60	
30			LEAR	0044.0	0044.0	III		2	30	80	
			PALE	0044.0	0044.0	III		1	25	180	
	0000	0740	CULG	0044.0	0045.0	III	G	2	30	250	
	0000	0900	HIRA	0044.0	0045.0	III	B	2	50	320	
			CULG	0056.0	0059.0	III	G	2	28	180	
			HIRA	0056.0	0058.0	III	G	2	40	240	
			LEAR	0056.0	0103.0	III		2	30	80	
			PALE	0056.0	0058.0	III		1	30	150	
			CULG	0224.0	0224.0	III	B	1	25	90	
			LEAR	0224.0	0224.0	III		1	30	67	
			PALE	0224.0	0232.0	III		1	30	55	
			CULG	0420.0	0422.0	III	G	3	18X	180	

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30			HIRA	0420.0	0423.0	III	G	3	40	240	
			LEAR	0420.0	0423.0	III		3	30	80	
			PALE	0420.0	0422.0	III		1	35	160	
			CULG	0524.0	0525.0	III	G	1	23	130	
			HIRA	0524.0	0525.0	III	B	1	25X	130	
			LEAR	0524.0	0525.0	III		2	30	75	
			SVTO	0524.0	0524.0	III		1	35	63	
			SVTO	0604.0	0604.0	III		1	50	73	
	0559	1200	IZMI	0604.3	0604.7	CONT		2	45	65	
			IZMI	0634.3	0634.5	III	B	1	45	85	
			LEAR	0652.0	0659.0	III		2	30	75	
			SVTO	0652.0	0659.0	III		1	35	85	
			IZMI	0652.3	0652.9	III	G	2	25	255	
			CULG	0653.0	0653.0	III	B	2	28	110	
			CULG	0659.0	0659.0	III	B	1	30	70	
			IZMI	0659.3	0659.4	III	B	1	45	95	
			LEAR	0706.0	0714.0	III		3	30	80	
			SVTO	0706.0	0800.0	III	N	2	35	85	
			IZMI	0706.2	0708.2	III	G	2	25X	215	
			IZMI	0706.6	0710.0	III	S,C	1	45	270X	
			CULG	0707.0	0708.0	III	G	3	25	180	
			HIRA	0707.0	0708.0	III	B	2	30	240	
			ONDR	0708.0	0710.5	DCIM		1	800X	2000X	
	0708	1619	ONDR	0709.0U	0710.4	DCIM		2	2332	4500X	
			CULG	0714.0	0714.0	III	B	1	30	60	
			IZMI	0714.0	0714.5	III	G	2	45	160	
			IZMI	0721.6	0727.5	III	GG,FS	2	40	95	
			LEAR	0723.0	0727.0	III		2	30	80	
			CULG	0724.0	0727.0	III	G	2	30	90	
			CULG	0737.0	0740.0D	III	G	1	30	150	
			LEAR	0738.0	0742.0	III		3	30	80	
			IZMI	0738.4	0742.9	III	GG	2	25	200	
			HIRA	0741.0	0742.0	III	B	1	30	160	
			IZMI	0741.2	0741.8	III	G	3	25X	270	
			HIRA	0803.0	0804.0	III	B	1	30	130	
			LEAR	0803.0	0803.0	III		2	30	80	
			IZMI	0803.4	0803.8	III	G	2	25	260	
			IZMI	0814.9	0815.0	III	G	2	230	270X	
			HIRA	0816.0	0817.0	III	B	1	50	140	
			LEAR	0816.0	0816.0	III		1	30	75	
			IZMI	0816.6	0816.8	III	G	2	35	160	
			IZMI	0821.9	0822.2	III	B	2	40	140	
			LEAR	0822.0	0822.0	III		1	30	75	
			HIRA	0847.0	0850.0	III	G	1	40	160	
			LEAR	0847.0	0849.0	III		2	30	80	
			SVTO	0847.0	0919.0	III	N	1	35	85	
			IZMI	0847.1	0849.9	III	GG	2	25X	230	
			LEAR	0904.0	0919.0	III	N	2	30	80	
			IZMI	0904.4	0905.8	III	GG	2	25X	260	
			IZMI	0912.9	0913.2	III	G	2	25	270X	
			IZMI	0919.4	0919.6	III	G	3	25	270	
			SVTO	1002.0	1005.0	V		2	35	85	
			IZMI	1002.2	1004.2	III	GG	3	25X	270X	
			IZMI	1002.3	1005.3	V	HARM	3	25X	180	
			LEAR	1003.0	1005.0	III		3	30	80	
			ONDR	1003.0	1003.4	DCIM	G,W	1	800X	2000X	
			IZMI	1023.7	1027.7	III	G	1	25	145	
			SVTO	1055.0	1055.0	III		1	37	70	
			IZMI	1055.1	1057.9	III	G	2	30	150	
			SGMR	1121.0	1121.0	III		2	30	80	
			SVTO	1121.0	1121.0	III		2	35	85	
			IZMI	1121.3	1121.9	III	G	2	25X	220	
			IZMI	1127.2	1127.4	III	B	1	40	95	
			SGMR	1307.0	1308.0	III		2	30	80	
			SVTO	1307.0	1308.0	III		1	35	85	
			SGMR	1358.0	1428.0	III	N	2	30	80	
			SVTO	1358.0	1400.0	III		1	35	73	
			SVTO	1427.0	1428.0	III		1	35	82	
			SGMR	1813.0	1813.0	III		1	30	55	

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30			PALE	2002.0	2003.0	III		1	25	75	
	2023	2400	HIRA								
	2040	2400	CULG	2241.0	2241.0	III	G	1	23	130	
			CULG	2340.0	2340.0	III	B	1	35	90	
31			LEAR	0129.0	0133.0	III		2	30	65	
			PALE	0129.0	0252.0	III	N	1	25	137	
	0000	0740	CULG	0129.0	0200.0	III	N	1	18	160	
			LEAR	0141.0	0158.0	III	N	2	30	80	
			CULG	0234.0	0254.0	III	N	1	28	150	
			LEAR	0234.0	0238.0	III		1	30	68	
			LEAR	0251.0	0251.0	III		1	30	75	
	0000	0901	HIRA	0251.0	0252.0	III	B	1	50	200	
			LEAR	0335.0	0336.0	III		1	30	53	
			CULG	0336.0	0420.0	III	N	1	20	140	
			LEAR	0352.0	0355.0	III		1	30	50	
			LEAR	0418.0	0452.0	III	N	2	30	80	
			CULG	0439.0	0439.0	III	B	1	28	90	
			CULG	0453.0	0453.0	III	G	2	20	160	
			HIRA	0453.0	0454.0	III	B	2	25X	140	
			SVTO	0453.0	0459.0	III		1	35	77	
			CULG	0459.0	0459.0	III	B	1	23	120	
	0523	1518	POTS	0523 E	1518 U	I	S,C,DC	2	40X	400	
			LEAR	0546.0	0547.0	III		2	30	57	
			SVTO	0546.0	0546.0	III		1	35	85	
			POTS	0546.5	0547.3	III	G	2	110U	170U	
			CULG	0547.0	0547.0	III	B	1	25	90	
			POTS	0609.8	0615.7	III	GG	2	110U	170U	
	0601	1200	IZMI	0613.8	0615.5	III	GG,FS	2	45	160	
			IZMI	0619.2	0919.5	III	B,RS	2	45	65	
			IZMI	0705.7	0707.6	III	G	2	45	270X	
			POTS	0705.8	0711.9	III	GG,C	2	110U	325	
			SVTO	0707.0	0707.0	III		1	41	52	
			IZMI	0711.3	0711.4	III	B	2	200	270X	
			IZMI	0711.3	1200.0D	I	N	2	45	240	
			SVTO	0714.0	1005.0	CONT		1	35	85	
			LEAR	0717.0	0925.0	CONT		1	40	80	
			LEAR	0732.0	0733.0	III		2	30	60	
			IZMI	0732.1	0733.1	III	G	2	25X	145	
			POTS	0732.1	0733.1	III	G	3	40X	170U	
			CULG	0733.0	0733.0	III	G	1	30	130	
			IZMI	0752.0U	1200.0D	III	N	1	45	90	
			IZMI	0755.1	0755.7	III	G	2	40	130	
			LEAR	0824.0	0826.0	III		2	30	80	
			HIRA	0825.0	0826.0	III	B	1	40	160	
			IZMI	0825.9	0826.4	III	GG	2	25X	260	
			POTS	0825.9	0826.5	III	G	3	40X	250	
			SVTO	0826.0	0826.0	III		1	36	84	
			POTS	0850.9	0902.6	III	GG	3	40X	170U	
			IZMI	0901.8	0902.1	III	G	1	45	170	
			POTS	0911.4	0913.2	III	G	2	40X	150	
			IZMI	0912.4	0913.2	III	G	2	25	145	
			IZMI	0928.9	0930.1	III	G	2	55	170	
			POTS	0928.9	0930.1	III	G	3	110U	170U	
			POTS	1001.2	1001.5	III	G	2	40X	170U	
	0813	1620	ONDR	1015.0	1017.0	DCIM	G	2	2000X	4500X	
			POTS	1017.4	1018.1	DCIM		2	400	700	
			POTS	1017.7	1025.5	II	SH,H	2	80	300	
			IZMI	1017.8	1020.5	II	HARM	2	50	270	
			POTS	1019.2	1020.6	II	F	2	40X	75	
			IZMI	1020.1	1022.4	IV		1	45	95	
			SVTO	1035.0	1059.0	IV		1	35	81	
			IZMI	1035.4	1057.0	III	S	2	25X	250	
			POTS	1035.5	1057.1	III	GG,C,RS	3	40X	250	
			SVTO	1121.0	1121.0	III		1	35	80	
			IZMI	1121.3	1121.8	III	G	2	30	135	
			POTS	1121.3	1121.8	III	G	2	40X	150	
			SVTO	1122.0	1651.0	CONT		1	35	85	
			IZMI	1136.2	1137.7	III	GG,FS	2	45	135	

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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
31			POTS	1203.0	1207.3	III	GG,C,RS	3	40X	170U	
			POTS	1208.2	1209.5	III	G,C	2	40X	160	
			POTS	1257.4	1310.9	III	G,RS	3	40X	300	
			SVTO	1307.0	1416.0	III	N	1	35	85	
			SGMR	1308.0	1310.0	III		1	30	60	
			ONDR	1315.1	1318.0	DCIM	GG	2	800X	2000X	
			ONDR	1315.3	1316.1	DCIM	G	2	2254	4246	
			POTS	1328.8	1347.2	III	GG,RS	3	40X	250	
			SGMR	1333.0	1334.0	III		2	30	80	
			POTS	1355.2	1355.7	III	G	2	40X	75	
			POTS	1409	1503	III	N	1	40X	90U	
			SGMR	1430.0	1553.0	CONT		1	30	60	
			SGMR	1557.0	1559.0	V		3	30	80	
			SVTO	1557.0	1559.0	V		2	35	85	
			SGMR	1823.0	1830.0	III		1	30	60	
	2021	2400	HIRA								
	2040	2400	CULG	2040.0E	2310.0	I	S	1	80	160	
			CULG	2046.0	2142.0	III	N	1	20	90	
			PALE	2059.0	2059.0	III		1	25	60	
			SGMR	2059.0	2059.0	III		1	30	55	
			PALE	2133.0	2133.0	III		1	25	65	
			CULG	2303.0	2303.0	III	B	1	20	50	

Event Remarks:

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

Frequency qualifiers:

X = Extends beyond instrument range
U = Uncertain frequency

Remarks:

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

Stations Reporting:

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

NOTE: The sensitivity of the Potsdam receivers 40-90 MHz, 110-170 MHZ and 200-400 MHz was reduced during some days of the month.