S O L A R R A D I O E M I S S I O N
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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	0000	0743	HIRA								
	0000	0750	CULG								
			LEAR	0043.0	0124.0	CONT		1	94	180	
	0639	1519	POTS	0653	0808	I	S,N	1	220	400	100-200MHz no data
	0710	1420	ONDR								
	0700	1200	IZMI	0824.6	0825.6	III	GG	1	90	270	
			POTS	0824.7	0828.8	III	GG	3	40X	460	
	0710	1515	BLEN	0827.6	0829.0	III	GG	2	100X	800	
			IZMI	0827.7	0828.7	III	G,C	2	25X	270X	
			LEAR	0828.0	0829.0	III		2	25	180	
			SVTO	0828.0	0829.0	III		2	25	180	
			IZMI	0828.3	0829.3	V	HSRM	2	40U	180	
			POTS	0828.8	0829.4	V	B	3	40X	70	
			POTS	0833	0902 U	I	S,N	1	200U	410	
			IZMI	0837.6	0837.8	III	G	1	50	160	
			LEAR	0843.0	0900.0	III	N	1	25	180	
			SVTO	0856.0	0900.0	III		1	25	180	
			POTS	0856.3	0901.3	III	G	3	40X	260	
			IZMI	0856.8	0858.8	III	GG	2	25X	250	
			IZMI	0858.5	0858.7	UNCLF		2	150	195	
			IZMI	0859.7	0900.4	III	G	2	65	215	
			POTS	0908	0913	I	S,N	2	230	390	
			POTS	0933.2	0934.5	III	G	2	200U	380	
			IZMI	0933.5	0933.8	III	G	2	140	270X	
			IZMI	0944.1	0947.5	III	GG	1	40	95	
			POTS	1056	1129	I	S,N	1	200U	280	
			IZMI	1151.3	1151.4	III	B	1	50	85	
			POTS	1151.4	1151.5	III	B	1	40X	60	
			POTS	1201.7	1201.8	III	B	2	40X	85	
			POTS	1333	1347	I	S,N	1	300	350	
	2100	2400	HIRA								
	2000	2400	CULG	2115.0	2115.0	III	B	1	20	40U	
			CULG	2142.0	2142.0	III	B	1	40U	90	
02			LEAR	0223.0	0224.0	III		1	25	147	
	0000	0742	HIRA	0223.0	0223.5	III	B	1	30	130	
	0000	0750	CULG	0223.0	0225.0	III	G	1	18	150	
			CULG	0309.0	0312.0	III	G	1	50U	180	
			CULG	0636.0	0637.0	III	B	1	23	150	
			HIRA	0636.0	0637.0	III	B	1	50	120	
			LEAR	0636.0	0636.0	III		1	25	180	
			SVTO	0636.0	0636.0	III		1	29U	121U	
	0643	1518	POTS	0643 E	1500 U	I	S,N	1	200U	400	100-200MHz no data
	0700	1200	IZMI	0700.0E	1045.0U	I	N	1	200	270	
	0712	1418	ONDR								
	0715	1510	BLEN								
			POTS	0755.8	0758.5	III	G	1	40X	270	
			POTS	0842.3	0843.0	III	G	1	200U	440	
			IZMI	0842.7	0843.0	III	G	1	85	270X	
			POTS	1342.0	1342.3	III	G	1	40X	60	
	2000	2400	CULG	2203.0	2212.0	III	G	1	35	180	
			LEAR	2206.0	2224.0	III	N	1	25	180	
			HOLL	2207.0	2300.0	III	N	1	25	180	
			PALE	2208.0	0327.0	III	N	1	25	180	
	2101	2400	HIRA	2208.5	2209.5	III	G	1	40	170	
			CULG	2213.0	2218.0	III	GG	2	18X	180	
			HIRA	2213.5	2217.5	III	G	1	25X	190	
			CULG	2222.0	2226.0	III	G	1	30	90	
			CULG	2250.0	2251.0	III	G	1	27	90	
			HIRA	2350.0	2350.5	III	B	1	30	70	
			LEAR	2350.0	2350.0	III		1	25	74	
03	0000	0750	CULG	0014.0	0014.0	III	B	1	190	550	
			CULG	0028.0	0028.0	III	B	1	190	550	
			CULG	0128.0	0130.0	III	G	1	18	150	
			LEAR	0128.0	0130.0	III		1	25	137	
	0000	0741	HIRA	0129.0	0129.5	III	B	1	50	140	
			HIRA	0227.5	0228.0	III	B	1	280	420	
			CULG	0228.0	0228.0	III	B	1	300	500	

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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
03			SVTO	0552.0	0552.0	III		1	25U	82U	
	0647	1518	POTS	0647 E	1400 U	I	S,DC	2	200U	470	100-200MHz no data
	0700	1200	IZMI	0700.0E	1200.0D	I	S	1	120	270X	
	0714	1416	ONDR								
	0715	1510	BLEN	0720.0X	1510.0X	I	DC	2	140	300	
			IZMI	1012.0	1112.1	III	B	1	110	175	
			IZMI	1031.0	1031.6	III	G	1	60	90	
			POTS	1400 U	1518 U	IV		2	200U	700	
	2000	2400	CULG	2015.0	2015.0	III	B	1	18	180	
			CULG	2038.0	2038.0	III	B	1	18	160	
			CULG	2149.0	2400.0D	I	S	1	100	280	
			LEAR	2156.0	1020.0	CONT		1	96	180	
			CULG	2256.0	2312.0	III	GG	1	20	150	
			LEAR	2259.0	2333.0	III	N	1	25	124	
			PALE	2318.0	0338.0	CONT		1	99	180	
			HOLL	2333.0	2333.0	III		1	25	85	
			PALE	2333.0	2333.0	III		1	25	130	
	2102	2400	HIRA	2333.5	2334.0	III	B	1	30	110	
			CULG	2334.0	2334.0	III	B	1	18X	160	
04	0000	0750	CULG	0000.0E	0750.0D	I	S	1	100	280	
			CULG	0101.0	0103.0	III	G	1	30	90	
			LEAR	0101.0	0103.0	III		1	25	123	
			LEAR	0212.0	0218.0	III		1	25	180	
			CULG	0215.0	0216.0	III	G	1	20	250	
	0000	0740	HIRA	0215.5	0216.5	III	G	1	30	130	
			LEAR	0232.0	0232.0	III		1	25	76	
			CULG	0438.0	0438.0	III	B	1	18	40	
			CULG	0449.0	0449.0	III	B	1	120	360	
			CULG	0518.0	0607.0	III	N	1	18	160	
			LEAR	0527.0	0720.0	III	N	1	25	180	
			HIRA	0529.0	0531.5	III	G	1	50	170	
			HIRA	0556.5	0557.0	III	B	1	80	130	
	0653	1517	POTS	0653 E	1517 U	I	S,DC,C	2	200U	450	100-200MHz no data
	0700	1200	IZMI	0700.0E	1200.0D	I	S,C	2	50	270X	
	0715	1510	BLEN								
	0717	1414	ONDR								
			IZMI	0805.1	0805.2	III	B	2	45	90	
			SVTO	0900.0	0913.0	CONT		1	25U	180U	
			SVTO	0900.0	0913.0	CONT		1	115U	180U	
			POTS	0945.1	0945.3	III	B	1	40X	55	
			IZMI	0958.2	1043.0U	III	N	2	25X	95	
			POTS	1000.3	1011.3	III	GG	1	40X	85	
			POTS	1011.8	1024.0	III	GG	3	40X	250U	
			IZMI	1011.9	1017.9	III	GG	2	40	160	
			SVTO	1019.0	1022.0	III		2	25	180	
			IZMI	1019.6	1021.8	III	GG	2	25X	160	
			IZMI	1022.2	1023.3	III	GG	2	30	185	
			POTS	1024	1043	III	GG,N	2	40X	65	
			IZMI	1056.7	1116.0U	III	N	2	40	95	
			POTS	1058	1119	III	GG,N	1	40X	85	
			IZMI	1105.1	1107.1	III	G	2	30	95	
			IZMI	1131.0	1131.1	III	B	2	55	65	
			POTS	1158.3	1158.5	III	B	1	40X	55	
			POTS	1250.3	1252.6	III	G	2	40X	85	
			POTS	1315	1327	III	G	1	40X	75	
			POTS	1355.3	1400.7	III	G,N	1	40X	85	
			HOLL	1501.0	1544.0	III	N	1	25	162	
			POTS	1501.5	1517 U	III	GG	2	40X	400U	
			SGMR	1506.0	1509.0	III		1	30	80	
			PALE	1949.0	0338.0	III	N	1	25	180	
			HOLL	1951.0	1957.0	III		1	25	168	
	2000	2400	CULG	2000.0E	2107.0	III	N	1	18	90	
			CULG	2036.0	2036.0	III	B	1	27	300	
			HOLL	2146.0	2147.0	III		1	25	146	
	2103	2400	HIRA	2146.5	2147.0	III	B	1	30	270	
			CULG	2147.0	2147.0	III	B	1	20	90	
			LEAR	2155.0	1020.0	CONT		1	25	180	
			LEAR	2213.0	2213.0	III		1	25	180	

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04			HIRA	2213.5	2214.5	III	G	1	50	210	
			LEAR	2235.0	0415.0	III	N	1	25	180	
			HIRA	2235.5	2243.5	III	G	2	30	230	
			CULG	2236.0	2241.0	III	G	1	18	90	
			CULG	2250.0	2253.0	III	G	1	20	60	
			HIRA	2343.5	2344.0	III	B	1	40	210	
05	0000	0750	CULG	0041.0	0158.0	III	N	1	18	90	
	0000	0739	HIRA	0043.5	0044.0	III	B	1	50	120	
			HIRA	0049.0	0049.5	III	B	1	50	110	
			HIRA	0054.5	0056.0	III	G	1	30	210	
			CULG	0117.0	0117.0	III	B	1	200	950	
			HIRA	0117.0	0117.5	III	B	1	80	640	
			LEAR	0155.0	0157.0	III		1	25	180	
			HIRA	0155.5	0157.0	III	G	2	30	140	
			CULG	0248.0	0257.0	III	G	1	23	280	
			CULG	0325.0	0429.0	III	S	1	20	150	
			HIRA	0333.0	0335.5	III	G	3	30	320	
			LEAR	0333.0	0335.0	III		1	25	180	
			CULG	0334.0	0335.0	III	G	2	20	290	
			LEAR	0345.0	0354.0	III		1	25	180	
			HIRA	0345.5	0356.0	III	G	2	25X	210	
			CULG	0346.0	0355.0	III	GG	2	18	320	
			HIRA	0407.0	0408.0	III	B	1	30	110	
			HIRA	0504.5	0505.0	III	B	1	60	200	
			CULG	0505.0	0505.0	III	B	1	25	120	
			HIRA	0512.5	0513.0	III	B	1	60	240	
			CULG	0513.0	0513.0	III	B	1	20	80	
			CULG	0551.0	0555.0	III	G	1	20	730	
			SVTO	0551.0	0552.0	III		1	111U	180U	
			HIRA	0551.5	0555.0	III	G	1	50	600	
			SVTO	0605.0	1520.0	CONT		1	28U	180U	
	0650	1200	IZMI	0650.0E	1200.0	I	N	2	80	270X	
			IZMI	0709.0	0746.0U	III	N	1	45	95	
			IZMI	0726.0	0726.4	III	G	1	45	95	
			IZMI	0730.4	0730.5	III	B	2	40	95	
			CULG	0745.0	0745.0	III	B	1	25	70	
			IZMI	0745.2	0745.4	III	B	2	40	95	
			ONDR	0814.3	0815.3	DCIM	G	1	1006	2000X	
	0719	1412	ONDR	0814.3	0815.0	DCIM	G	1	2000X	3426	
			IZMI	0843.5	0844.0	III	G	2	60	160	
			IZMI	0850.8	0851.0	III	G	1	60	155	
			IZMI	0912.9	0918.3	III	GG,FS	2	30	160	
			IZMI	0920.7	0927.2	III	GG	2	40	270	
			IZMI	0931.6	0946.3	III	S	2	40	270X	
			IZMI	0957.6	0957.8	III	B	2	40	95	
	0550	1200	IZMI	1006.4	1008.4	III	G	1	45	270X	
			IZMI	1034.6	1034.7	III	B	2	50	270X	
			IZMI	1112.1	1112.2	III	B	1	200	270X	
			IZMI	1138.9	1139.4	III	GG,U	2	115	270X	
			SVTO	1139.0	1142.0	III		1	56	180	
			IZMI	1141.3	1143.0	III	G	2	50	180	
			IZMI	1146.7	1147.3	III	GG	2	125	270X	
	0720	1505	BLEN	1254.4	1301.5	III	GG,RS,C	3	100X	4000X	
			ONDR	1255.3	1259.2	DCIM	G	1	800X	4500X	
			ONDR	1255.4	1259.2	DCIM	G	1	2000X	4500X	
			SGMR	1257.0	1258.0	III		1	30	80	
			SVTO	1257.0	1258.0	III		2	28U	180U	
			HOLL	1443.0	1610.0	CONT		1	109	180	
			HOLL	1608.0	1614.0	III		2	25	180	
			SGMR	1609.0	1611.0	III		2	30	80	
			HOLL	1945.0	2047.0	III	N	2	25	180	
			PALE	1956.0	1957.0	III		1	25	66	
	2000	2400	CULG	2001.0	2002.0	III	G	1	20	70	
			CULG	2015.0	2016.0	III	B	1	18	460	
			PALE	2015.0	2015.0	III		1	25	180	
			CULG	2017.0	2020.0	III	G	1	18	45	
			HOLL	2042.0	2047.0	III		2	25	180	
			CULG	2043.0	2048.0	III	G	3	18X	1500	

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05			SGMR	2043.0	2045.0	III		2	30	80	
			PALE	2044.0	2047.0	III		2	25	180	
			PALE	2045.0	2046.0	V		1	25	51	
			HOLL	2222.0	2224.0	III		1	25	149	
	2104	2400	HIRA	2222.5	2224.5	III	G	1	25X	280	
			CULG	2223.0	2225.0	III	G	1	18	90	
			LEAR	2224.0	2224.0	III		1	25	180	
			HIRA	2253.0	2254.0	III	G	1	40	130	
			LEAR	2253.0	2253.0	III		1	25	180	
			PALE	2253.0	2253.0	III		1	66	180	
06			LEAR	0050.0	1020.0	III	N	2	25	180	
			PALE	0050.0	0337.0	III	N	1	25	180	
	0000	0750	CULG	0050.0	0053.0	III	G	1	20	80	
	0000	0738	HIRA	0050.5	0053.0	III	G	1	25X	210	
			CULG	0107.0	0108.0	III	G	2	18X	300	
			HIRA	0107.5	0108.0	III	B	3	25X	300	
			HIRA	0122.5	0123.0	III	B	1	25X	200	
			CULG	0123.0	0123.0	III	B	1	18	70	
			HIRA	0133.5	0135.0	III	G	2	25X	310	
			CULG	0134.0	0135.0	III	G	1	18X	250	
			CULG	0258.0	0259.0	III	G	3	18X	280	
			HIRA	0258.0	0259.0	III	B	3	25X	200	
			CULG	0425.0	0425.0	III	B	1	50	170	
			HIRA	0425.0	0425.5	III	B	1	50	110	
			CULG	0447.0	0447.0	III	B	1	20	140	
			CULG	0519.0	0535.0	CONT		1	380	680	
			CULG	0519.0	0552.0	III	N	1	18	180	
			HIRA	0519.0	0520.0	III	B	1	50	170	
			CULG	0538.0	0548.0	II	SH	1	35	70	ESS 700
			LEAR	0538.0	0546.0	II		2	25	63	ESS 0405
			CULG	0539.0	0544.0	II	FN	1	18	30	
			HIRA	0539.0	0544.0	II		1	30	60	
			LEAR	0547.0	1020.0	CONT		1	25	148	
			SVTO	0606.0	1002.0	CONT		1	25	180	
			SVTO	0630.0	0631.0	III		2	25U	180U	
			CULG	0631.0	0632.0	III	G	1	18	420	
			HIRA	0631.0	0632.0	III	G	1	50	380	
	0654	1200	IZMI	0654.0E	1150.0	I	N	1	120	260	
	0721	1410	ONDR								
			CULG	0728.0	0728.0	III	B	1	25	90	
			IZMI	0728.1	0728.3	III	G	1	40	95	
			CULG	0746.0	0746.0	III	B	1	30	90	
			IZMI	0746.2	0746.4	III	G	1	45	140	
			IZMI	0825.4	0825.8	III	G	2	45	120	
			IZMI	0846.7	0846.8	III	B	1	80	100	
			IZMI	0904.3	0907.7	III	GG	1	45	215	
			SVTO	1344.0	1350.0	III		2	25	180	
	0720	1505	BLEN	1346.7	1350.2	III	GG,RS	1	130	1100	
			BLEN	1437.1	1441.3	III	GG,RS	3	190	1900	
			BLEN	1459.2	1459.8	III	GG	2	270	700	
			HOLL	1517.0	1518.0	III		1	25	180	
			SGMR	1517.0	1518.0	III		2	30	80	
			SVTO	1517.0	1518.0	III		1	52U	180U	
			HOLL	1537.0	1538.0	III		1	25	180	
			HOLL	1640.0	1643.0	III		2	25	180	
			SGMR	1641.0	1643.0	V		3	30	80	
			HOLL	1941.0	1947.0	III		1	25	162	
			PALE	1941.0	1946.0	III		1	25	180	
			SGMR	1942.0	1946.0	III		2	30	60	
	2000	2400	CULG	2020.0	2026.0	III	G	1	18	90	
	2105	2400	HIRA								
			CULG	2136.0	2204.0	III	N	1	18	260	
			CULG	2137.0	2140.0	III	G	1	18	800	
			HOLL	2137.0	2157.0	III	N	1	25	143	
			CULG	2209.0	2337.0	III	S,C	1	20	160	
07			LEAR	0234.0	0234.0	III		1	25	180	
			PALE	0234.0	0234.0	III		1	25	180	

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
07	0000	0737	HIRA	0234.0	0235.0	III	G	2	25X	250	
	0000	0750	CULG	0234.0	0235.0	III	G	2	18X	180	
			CULG	0315.0	0317.0	III	G	1	27U	90	
			CULG	0408.0	0411.0	III	G	1	20	160	
			HIRA	0409.0	0409.5	III	B	1	40	130	
			LEAR	0409.0	0410.0	III		1	25	180	
			CULG	0535.0	0535.0	III	B	1	18	180	
			HIRA	0535.0	0535.5	III	B	1	25X	200	
			LEAR	0535.0	1017.0	III	N	1	25	180	
	0723	1408	ONDR								
	0650	1200	IZMI	0749.4	0749.5	III	G	1	110	165	
			IZMI	0830.0	1149.0U	I	S	1	110	270X	
	0720	1505	BLEN	0850.0	1200.0	I	DC	1	120	250	
			SVTO	0858.0	0858.0	III		1	25U	62U	
			IZMI	0858.2	0858.4	III	G	2	25X	220	
			IZMI	0858.4	0858.7	V		2	30	60	
			IZMI	1056.1	1056.3	III	G,C	1	35	90	
			IZMI	1100.4	1100.8	III	G	1	40	95	
			IZMI	1110.0	1110.3	III	G	2	45	120	
			IZMI	1133.8	1134.4	III	G	2	25X	165	
			SGMR	1135.0	1143.0	III		2	30	50	
			IZMI	1142.1	1145.1	III	GG,C	2	25X	270X	
			SVTO	1143.0	1232.0	III	N	2	25	180	
			IZMI	1148.3	1148.4	III	GG	1	40	65	
			IZMI	1154.2	1154.9	III	G	2	35	270X	
			IZMI	1155.5	1158.8	III	GG	2	25X	270X	
			SGMR	1232.0	1232.0	III		1	30	50	
			SGMR	1331.0	1332.0	III		1	30	55	
			SVTO	1331.0	1337.0	III		1	25	180	
			HOLL	1423.0	1425.0	III		1	25	180	
			SVTO	1423.0	1425.0	III		2	34U	180U	
			HOLL	1637.0	1640.0	III		1	25	180	
			HOLL	1724.0	1728.0	III		1	25	138	
			HOLL	2048.0	2048.0	III		1	58	180	
			PALE	2048.0	2048.0	III		1	66	180	
	2000	2400	CULG	2048.0	2049.0	III	G	1	57	180	
			CULG	2146.0	2146.0	III	B	1	57	100	
			HOLL	2146.0	2146.0	III		1	68	86	
	2106	2400	HIRA	2146.0	2147.0	III	B	1	50	100	
			LEAR	2242.0	2330.0	III	N	1	25	180	
			CULG	2313.0	2315.0	III	G	1	57	180	
			HIRA	2313.0	2313.5	III	B	1	60	170	
			CULG	2330.0	2331.0	III	G	1	18X	180	
			HOLL	2330.0	2330.0	III		1	43	162	
			HIRA	2330.5	2331.0	III	B	2	25X	120	
08			LEAR	0151.0	0201.0	III		1	25	162	
	0000	0750	CULG	0201.0	0202.0	III	G	1	18	150	
			CULG	0214.0	0216.0	III	G	1	18	180	
			LEAR	0214.0	0215.0	III		1	25	180	
	0000	0736	HIRA	0214.0	0216.0	III	G	1	25X	200	
			CULG	0503.0	0513.0	III	GG	1	18	180	
			HIRA	0503.0	0512.0	III	G	1	50	200	
			LEAR	0503.0	0512.0	III		1	25	180	
			CULG	0535.0	0537.0	III	G	1	35	170	
			HIRA	0535.0	0537.0	III	G	1	60	190	
			LEAR	0535.0	0537.0	III		1	42	180	
	0650	1200	IZMI	0651.7	1658.4	III	GG	1	45	85	
	0720	1505	BLEN								
	0725	1406	ONDR								
			LEAR	0824.0	0825.0	III		1	25	144	
			SVTO	0824.0	0825.0	III		1	30U	140U	
			IZMI	0824.3E	0825.6	III	GG	2	40	160	
			IZMI	0949.5	0952.0	III	GG	1	110	210	
			SVTO	0957.0	0958.0	III		1	29U	150U	
			IZMI	0957.7	0959.1	III	GG	2	25X	190	
			IZMI	1039.6	1041.1	III	G	1	45	90	
			IZMI	1113.1	1113.2	III	B	2	55	85	
			IZMI	1142.8	1143.0	III	B	1	45	65	

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08			IZMI	1157.2	1157.3	III	G	2	85	140	
			HOLL	1744.0	1745.0	III		1	25	167	
			PALE	1744.0	1848.0	III	N	1	25	180	
			HOLL	1747.0	1813.0	III	N	1	25	152	
	2000	2400	CULG								
	2107	2400	HIRA								
09	0000	0735	HIRA								
	0000	0750	CULG	0526.0	0527.0	III	G	1	18	90	
			CULG	0554.0	0747.0	III	N	1	27	140	
	0650	1200	IZMI	0658.1	0658.2	III	B	1	45	65	
			IZMI	0712.5	0713.1	III	G	1	120	240	
			IZMI	0718.8	0719.1	III	B	1	45	160	
			SVTO	0746.0	0746.0	III		1	25U	83U	
			IZMI	0746.4	0746.7	III	G,C	2	35	160	
			IZMI	0750.5	0750.7	III	B	1	45	90	
			IZMI	0937.5	0937.6	III	B	1	55	95	
			IZMI	1000.6	1006.8	III	B	1	55	90	
	0727	1404	ONDR	1147.5	1148.5	DCIM	G	1	2000X	4500X	
			SVTO	1307.0	1353.0	IV		2	25	180	
			ONDR	1307.2	1330.4	DCIM	GG,FS,SP	2	800X	2000X	
	0720	1505	BLEN	1308.9	1324.6	IV	P,F	3	100X	4000X	
			SGMR	1309.0	1336.0	IV		1	30	80	
			ONDR	1310.1	1328.1	DCIM	GG	2	2000X	4500X	
			SVTO	1317.0	1337.0	II		2	25U	85U	ESS 0707
			SGMR	1322.0	1325.0	II		2	30	65	ESS 0700
			HOLL	1402.0	1405.0	III		1	25	180	
			SVTO	1402.0	1405.0	III		1	44U	180U	
			SGMR	1405.0	1405.0	III		1	30	80	
			HOLL	1955.0	1955.0	III		1	25	137	
	2000	2400	CULG	2024.0	2028.0	III	G	1	27	90	
			LEAR	2307.0	2313.0	III		1	25	180	
			CULG	2309.0	2314.0	III	G	1	20	350	
			HOLL	2309.0	2310.0	III		1	25	180	
			PALE	2309.0	2310.0	III		1	25	180	
	2108	2400	HIRA	2309.0	2313.0	III	G	2	25X	310	
10			LEAR	0037.0	0038.0	III		1	25	180	
	0000	0800	CULG	0037.0	0040.0	III	G	1	23	180	
	0000	0734	HIRA	0037.5	0038.5	III	G	1	30	200	
			LEAR	0306.0	0315.0	III		3	25	180	
			PALE	0306.0	0316.0	III		2	25	180	
			HIRA	0306.5	0314.0	III	G	3	25X	240	
			CULG	0307.0	0313.0	III	GG	3	18X	800	
			CULG	0313.0	0319.0	III	G	1	23	480	
			LEAR	0314.0	0325.0	II		3	25	180	ESS 1035
			HIRA	0314.5	0329.0	II		3	25X	140	
			CULG	0316.0	0323.0	II	SH	3	40	100	ESS 800
			CULG	0317.0	0323.0	II	FN	3	18	50	
			PALE	0319.0	0325.0	II		2	25	180	ESS 0830
			CULG	0320.0	0334.0	II	FN	3	18	80	
			CULG	0320.0	0334.0	II	SH	3	40	160	ESS 600
			PALE	0325.0	0335.0	CONT		1	25	180	
			LEAR	0340.0	0926.0	III	N	1	25	180	
			CULG	0341.0	0341.0	III	B	1	23	90	
			CULG	0351.0	0354.0	III	G	1	20	90	
			CULG	0648.0	0648.0	III	G	1	25	90	
	0720	1505	BLEN								
			LEAR	0740.0	0743.0	III		2	25	180	
			SVTO	0740.0	0743.0	III		2	32U	180U	
	0701	1200	IZMI	0740.8	0741.7	III	GG,C	2	25X	270X	
			CULG	0741.0	0743.0	III	G	3	30	210	
			IZMI	0741.4	0742.5	V		2	45	95	
			IZMI	0742.6	0743.7	III	GG,C,FS	2	40	270X	
	0729	1402	ONDR	0846.3	0916.0	DCIM	GG	1	800X	2000X	
			IZMI	0847.0	0937.0U	I	S	1	150	270X	
			IZMI	0923.6	0923.7	III	B	1	55	90	
			IZMI	1026.1	1026.2	III	B	1	45	95	
			IZMI	1111.8	1111.8	III	B	1	80	95	

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10			SVTO	1145.0	1149.0	III		1	25	180	
			IZMI	1145.6	1149.3	III	GG,C	2	30	270X	
			SVTO	1211.0	1249.0	III	N	1	25	180	
			LEAR	2249.0	0601.0	III	N	1	25	180	
			HOLL	2256.0	2257.0	III		1	25	94	
	2000	2400	CULG	2256.0	2259.0	III	G	1	35	170	
	2109	2400	HIRA	2257.0	2258.0	III	B	1	30	110	
11	0000	0800	CULG	0007.0	0009.0	III	G	1	57	90	
	0000	0733	HIRA	0008.5	0009.0	III	B	1	80	210	
			CULG	0401.0	0403.0	III	G	1	200	450	
			HIRA	0401.5	0403.0	III	G	1	160	500	
	0658	1200	IZMI	0703.0	0703.2	III	B	2	45	95	
			HIRA	0712.5	0713.0	III	B	1	80	140	
			IZMI	0712.5	0712.7	II	G	2	80	175	
	0720	1505	BLEN								
	0731	1400	ONDR								
			CULG	0731.0	0741.0	III	GG	1	23	180	
			LEAR	0731.0	0930.0	III	N	2	25	180	
			IZMI	0731.2	0734.7	III	GG	2	30	270X	
			IZMI	0734.5	0735.4	UNCLF	C	2	55	85	
			SVTO	0735.0	0826.0	III	N	1	25	180	
			IZMI	0735.7	0741.3	III	GG,FS	2	40	270X	
			IZMI	0742.2	0751.0	III	N	1	45	95	
			IZMI	0746.4	0751.0	I	GG,C	2	50	90	
			IZMI	0808.8	0809.0	III	G	1	45	85	
			IZMI	0819.0	0833.5	III	N	1	45	95	
			IZMI	0822.3	0825.5	III	GG	1	45	95	
			IZMI	0926.6	0927.3	III	GG	2	40	155	
			IZMI	0956.1	0956.4	III	B	1	45	85	
			IZMI	1001.8	1002.2	III	G	1	45	90	
	1321	1453	POTS								100-200MHz no data
			HOLL	1518.0	1607.0	III	N	1	25	180	
			SGMR	1525.0	1525.0	III		1	30	80	
			SGMR	1605.0	1618.0	II		3	30	80	ESS 0900
	2135	2400	CULG	2155.0	2155.0	III	B	1	50U	90	
			LEAR	2254.0	2257.0	III		1	25	116	
			CULG	2255.0	2256.0	III	G	1	18	160	
			HOLL	2255.0	2256.0	III		1	25	151	
	2110	2400	HIRA	2256.0	2256.5	III	B	1	25X	110	
12			LEAR	0352.0	0356.0	III		1	25	159	
	0000	0800	CULG	0352.0	0413.0	III	G	1	23	160	
			LEAR	0356.0	0404.0	II		1	100	180	ESS 0547
			CULG	0357.0	0404.0	CONT		1	100	450	
			LEAR	0412.0	0412.0	III		1	46	155	
			CULG	0446.0	0446.0	III	B	1	40U	90	
			CULG	0707.0	0709.0	III	G	1	23	350	
			LEAR	0707.0	0709.0	III		1	25	96	
			SVTO	0707.0	0708.0	III		1	25U	124U	
	0000	0732	HIRA	0707.0	0708.0	III	G	1	50	100	
	0700	1200	IZMI	0707.1	0709.4	III	G,C	2	40	95	
	0650	1452	POTS	0707.2	0716.9	III	G,N	1	40X	85	100-200MHz no data
			CULG	0716.0	0717.0	III	G	1	25	100	
			IZMI	0716.2	0716.8	III	G,C	2	40	95	
	0720	1505	BLEN								
			CULG	0724.0	0726.0	III	G	1	50	100	
			IZMI	0724.3	0728.0	III	G	2	45	100	
	0734	1358	ONDR								
			CULG	0741.0	0743.0	III	G	2	23	140	
			LEAR	0741.0	0742.0	III		1	25	146	
			SVTO	0741.0	0741.0	III		2	25U	131U	
			IZMI	0741.3	0742.4	III	G	2	45	150	
			POTS	0741.3	0742.5	III	G	3	40X	85U	
			IZMI	0741.5	0742.0	V		2	45	70	
			POTS	1033.8	1034.1	III	B	1	40X	55	
			POTS	1202.6	1202.8	III	B	1	40X	60	
			SVTO	1346.0	1346.0	III		1	25U	83U	
			POTS	1346.4	1346.8	III	B	2	40X	85	

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12			SVTO	1420.0	1422.0	III		1	25U	79U	
			POTS	1420.3	1423.1	III	GG	2	40X	430	
			HOLL	1610.0	1611.0	III		1	25	122	
			HOLL	1849.0	1854.0	III		1	25	180	
			HOLL	1900.0	1911.0	II		1	53	85	ESS 0270
	2000	2400	CULG								
	2111	2400	HIRA								
13	0000	0732	HIRA								
			LEAR	0037.0	0037.0	III		1	25	98	
			LEAR	0212.0	0212.0	III		1	25	57	
	0000	0800	CULG	0212.0	0212.0	III	B	1	20	50	
			LEAR	0239.0	0351.0	III	N	1	25	99	
			CULG	0307.0	0307.0	III	B	1	18	80	
	0720	1505	BLEN								
	0737	1356	ONDR								
	0730	1449	POTS	0817.7	0818.9	III	G	1	200U	270	100-200MHz no data
	0650	1200	IZMI	0817.8	0818.0	III	G	1	110	220	
			POTS	0828.0	0828.6	I	S	1	200U	270	
			IZMI	1027.2	1027.6	III	B,C	2	50	90	
			POTS	1027.2	1027.6	III	B	2	50	85	
			IZMI	1037.7	1037.9	III	B	1	55	90	
			POTS	1110.3	1110.6	I	S	1	230	260	
			SVTO	1154.0	1204.0	III		1	33U	161U	
			IZMI	1154.5	1154.8	UNCLF		1	40	270X	
			POTS	1154.5	1155.8	III	G	2	40X	340	
			POTS	1201.3	1201.7	III	G	2	40X	230	
			POTS	1210.4	1210.6	III	B	1	40X	60	
			POTS	1304.7	1304.9	III	B	1	40X	60	
			POTS	1328.5	1328.7	III	B	1	40X	60	
			POTS	1404.8	1405.1	III	B	1	40X	85	
			HOLL	1707.0	1707.0	III		1	53	119	
	2112	2400	HIRA								
	2000	2400	CULG	2126.0	2132.0	III	G	1	25	90	
			LEAR	2350.0	1025.0	CONT		1	25	180	
14			LEAR	0211.0	0247.0	III	N	2	25	140	
	0000	0800	CULG	0211.0	0211.0	III	B	1	18	45	
	0000	0731	HIRA	0243.5	0248.0	III	G	1	25X	130	
			CULG	0244.0	0248.0	III	G	1	18X	90	
			LEAR	0538.0	0859.0	III	N	1	25	57	
			SVTO	0640.0	1511.0	CONT		1	25	180	
			IZMI	0700.0E	0837.0U	III	N	1	40	95	
	0700	1200	IZMI	0700.0E	1145.0U	I	N	1	50	270X	
	0733	1445	POTS	0733 E	1445 U	I	S,DC,C	2	200U	400U	100-200MHz no data
			POTS	0752.5	0752.7	III	B	1	40X	55	
			POTS	0805.4	0810.0	III	G	1	40X	60	
			POTS	0940.2	0942.6	III	B	1	40X	60	
	0738	1355	ONDR	1054.4	1055.5	DCIM	GG	2	800X	1822	
			ONDR	1109.1	1112.2	DCIM	GG,FS	2	800X	2000X	
			ONDR	1109.2	1109.5	DCIM	G	1	2000X	4500X	
	0720	1500	BLEN	1109.3	1110.0	III	GG,C,RS	3	340	4000X	
			BLEN	1111.7	1405.0	I	DC	2	230	550	
			POTS	1334.3	1344.7	DCIM		2	300	620	
			POTS	1342.1	1344.6	III	G	2	200U	430U	
			POTS	1344.6	1409	III	GG,N	2	40X	85U	
			HOLL	1439.0	1730.0	CONT		1	35	180	
			HOLL	1703.0	1722.0	III	N	1	25	180	
			HOLL	1906.0	1908.0	III		1	52	136	
	2113	2400	HIRA								
	2000	2400	CULG	2223.0	2225.0	III	G	1	400	830	
15	0000	0730	HIRA								
			LEAR	0019.0	1026.0	III	N	1	25	180	
	0000	0800	CULG	0119.0	0130.0	CONT		1	200	750	
			CULG	0345.0	0800.0	III	S	1	30	150	
			SVTO	0556.0	1510.0	CONT		1	25	180	
			IZMI	0702.0E	1200.0D	III	N	1	40	95	
	0702	1200	IZMI	0702.0E	1200.0D	I	S	1	60	270X	

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15			IZMI	0709.0	0709.2	III	B	1	45	90	
	0737	1441	POTS	0737 E	1441 U	I	S,DC	2	200U	400U	100-200MHz no data
	0740	1353	ONDR								
			POTS	0744.5	0750.0	UNCLF		1	40X	55	
			POTS	0809.5	1404 U	III	GG,N	2	40X	80	
			IZMI	0816.2	0816.3	III	B	2	40	65	
			IZMI	0844.4	0844.5	III	B	2	40	60	
			IZMI	0856.0	0856.6	III	G	2	30	95	
			SVTO	0856.0	0856.0	V		2	25U	84U	
			IZMI	0907.9	0908.4	III	G	1	55	155	
			IZMI	0954.4	0954.8	III	G,C	1	50	160	
			IZMI	1012.5	1012.7	III	B	2	55	65	
			IZMI	1036.4	1036.7	III	G	2	40	65	
			IZMI	1136.1	1136.5	III	B,C	2	35	65	
	0730	1500	BLEN	1208.7	1209.2	III	G	1	850	1200	
			HOLL	1527.0	2340.0	CONT		1	50	180	
			HOLL	1536.0	1537.0	III		1	25	134	
			PALE	1820.0	2111.0	CONT		1	64	180	
	2000	2400	CULG	2012.0	2048.0	III	N	1	20	50	
	2114	2400	HIRA								
			CULG	2145.0	2145.0	III	B	1	18	50	
			LEAR	2151.0	1026.0	CONT		1	25	180	
			CULG	2204.0	2204.0	III	B	1	18	30	
			CULG	2345.0	2400.0D	III	N	1	18	45	
16	0000	0800	CULG	0000.0E	0006.0	III	N	1	18	35	
			CULG	0152.0	0152.0	III	B	1	18	40	
			CULG	0337.0	0445.0	I	S	1	110	160	
			CULG	0345.0	0345.0	III	B	1	27	90	
			CULG	0505.0	0513.0	III	G	1	18	57	
	0000	0729	HIRA	0616.5	0617.0	III	B	1	50	100	
			CULG	0617.0	0617.0	III	B	1	18	75	
			SVTO	0655.0	1509.0	CONT		1	31U	180U	
			IZMI	0700.0E	1200.0D	I	S	1	120	270X	
	0700	1200	IZMI	0700.0E	1142.0U	III	N	1	40	95	
			IZMI	0701.8	0702.1	III	G	2	40	85	
	0650	0742	POTS	0701.8	0708.3	III	G	2	40X	85U	only 40-100MHz
			CULG	0702.0	0702.0	III	B	1	18	57	
			CULG	0715.0	0735.0	III	N	1	20	50	
			CULG	0716.0	0743.0	UNCLF		1	23	40	
	0742	1438	POTS	0742 E	1438 U	I	S,DC,C	2	200U	470U	100-200MHz no data
			POTS	0824.9	0825.8	III	G	2	40X	70	
			POTS	0848	0859	III	G,N	2	40X	60	
			POTS	0914	1000	III	GG,N	2	40X	80	
			IZMI	0920.7	0924.6	III	G	1	40	95	
			IZMI	0939.2	0943.0	III	G	2	40	100	
			IZMI	0955.2	0956.0	III	G	2	40	220	
			IZMI	0957.3	0959.3	III	G	1	45	65	
			POTS	1015	1034	III	G,N	2	40X	60	
			POTS	1049	1106	III	G,N	2	40X	80	
			IZMI	1052.0	1053.0	III	G	1	45	65	
			POTS	1059.3	1101.2	DCIM	RS	2	320	800X	
	0742	1351	ONDR	1059.4	1102.2	DCIM	G	1	2000X	4500X	
	0750	1450	BLEN	1059.5	1101.7	III	GG,RS,C	3	300	4000X	
			IZMI	1103.3	1105.2	III	G	1	45	65	
			POTS	1125	1155	III	G,N	1	40X	55	
			SVTO	1136.0	1136.0	III		1	29	149	
			IZMI	1136.3	1136.6	III	G	2	35	240	
			POTS	1136.3	1136.8	III	B	3	40X	270U	
			POTS	1145.0	1145.8	DCIM		2	370	500	
			SVTO	1221.0	1222.0	III		2	34U	180U	
			POTS	1221.7	1223.0	III	G	2	40X	450	
			POTS	1343	1358	III	G,N	1	40X	55	
			BLEN	1357.7	1358.7	DCIM	C	2	2200	4000X	
	2000	2400	CULG	2008.0	2008.0	III	B	1	27	45	
			LEAR	2305.0	2315.0	III		1	25	180	
			CULG	2306.0	2306.0	III	B	1	18	40	
			HOLL	2314.0	2314.0	III		1	25	180	
	2115	2400	HIRA	2314.5	2315.0	III	B	2	30	230	

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16			CULG	2315.0	2315.0	III	B	1	18	57	
17			LEAR	0005.0	0007.0	III		1	28	54	
	0000	0800	CULG	0006.0	0006.0	III	B	1	27	40	
			CULG	0251.0	0252.0	III	G	1	300	500	
			CULG	0416.0	0800.0D	I	S	1	200	280	
			CULG	0503.0	0507.0	III	G	1	18	420	
			LEAR	0503.0	0506.0	III		1	25	180	
	0000	0658	HIRA	0504.0	0507.0	III	G	2	30	380	
			IZMI	0650.0	0654.2	III	GG	1	45	180	
			IZMI	0650.0E	1200.0D	III	N	1	40	95	
	0650	1200	IZMI	0650.0E	1200.0D	I	S,DC,C	2	80	270X	
			IZMI	0707.8	0711.4	III	GG	1	45	180	
	0700	0744	POTS	0709.6	0717.0	III	G,N	1	40X	70	only 40-100MHz
			IZMI	0714.3	0721.8	III	GG	2	40	170	
			SVTO	0724.0	1508.0	CONT		1	75U	180U	
	0744	1159	POTS	0744 E	1159 U	I	S,DC,C	2	200U	450U	100-200MHz no data
	0744	1349	ONDR								
			POTS	0803	0942	III	GG,N	1	40X	75	
			IZMI	0818.6	0818.7	III	B	2	45	65	
			LEAR	0820.0	1027.0	CONT		1	65	180	
			IZMI	0931.7	0933.2	III	GG	1	40	90	
			POTS	0955	1005	DCIM		1	330	530U	
			POTS	1018	1032	III	G,N	1	40X	60	
			IZMI	1026.1	1027.1	III	G	2	25X	220	
			POTS	1026.3	1027.2	III	G	2	40X	240	
			SVTO	1220.0	1220.0	III		2	25	47	
	0750	1450	BLEN	1231.3	1236.8	DCIM	P	3	300	4000X	
			HOLL	1404.0	2100.0	CONT		1	106	180	
			HOLL	1510.0	1510.0	III		1	107	180	
			HOLL	1706.0	1706.0	III		1	122	180	
			PALE	1706.0	1706.0	III		1	87	180	
	2000	2400	CULG	2134.0	2139.0	III	GG	1	100	1000	
			HOLL	2135.0	2135.0	III		1	105	180	
			PALE	2135.0	2135.0	III		1	97	157	
			LEAR	2150.0	1027.0	CONT		1	87	180	
			LEAR	2305.0	2315.0	III		1	25	180	
18			LEAR	0033.0	0320.0	III	N	1	25	75	
	0046	0728	HIRA	0203.5	0206.5	III	G	3	30	300	
			LEAR	0204.0	0206.0	III		3	25	180	
			PALE	0204.0	0205.0	III		2	25	180	
	0000	0800	CULG	0204.0	0210.0	III	GG	1	18	1300	
			CULG	0241.0	0241.0	III	B	1	18	50	
			SVTO	0600.0	1507.0	CONT		1	25	180	
	0702	1200	IZMI	0702.0E	1200.0D	I	S	1	120	270X	
			CULG	0710.0	0710.0	III	B	1	370	620	
	0746	1347	ONDR								
	0748	1431	POTS	0748 E	1431 U	I	S,DC,C	2	200U	400U	100-200MHz no data
			IZMI	0826.7	0826.9	III	B,FS	1	45	90	
			IZMI	1005.2	1005.3	III	B	1	45	85	
			POTS	1005.3	1005.4	III	B	1	40X	75	
			IZMI	1022.8	1023.0	III	B	1	50	65	
			IZMI	1116.3	1116.4	III	B	1	50	85	
			POTS	1116.3	1116.6	III	B	1	40X	60	
	0750	1450	BLEN	1202.3	1207.6	DCIM	P	1	400	1600	
			BLEN	1306.5	1307.0	III	GG,RS,C	2	180	4000X	
			POTS	1306.5	1307.0	III	G	2	50	430	
			POTS	1326.2	1326.4	III	B	2	40X	80	
	2000	2400	CULG	2006.0	2032.0	III	N	1	20	45	
	2122	2205	HIRA								
			LEAR	2330.0	0720.0	CONT		1	76	180	
19			LEAR	0300.0	1028.0	III	N	1	25	180	
	0000	0800	CULG	0308.0	0308.0	III	B	1	18	90	
			CULG	0328.0	0328.0	III	B	1	18	80	
			CULG	0505.0	0505.0	III	B	1	20	45	
			SVTO	0601.0	0700.0	CONT		1	25	168	
	0132	0728	HIRA	0614.5	0616.0	III	G	1	30	120	

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19			CULG	0615.0	0800.0D	III	N	1	18	57	
			SVTO	0702.0	0821.0	III	N	1	25	124	
	0653	1200	IZMI	0702.2	0702.5	III	B	2	25X	100	
	0700	0751	POTS	0702.2	0702.5	III	B	2	40X	85	only 40-100MHz
			POTS	0726.3	0727.7	III	G	2	40X	85	only 40-100MHz
			IZMI	0726.4	0727.6	III	G	2	35	85	
			IZMI	0744.0	0747.5	III	G	2	35	95	
			POTS	0744.0	0744.4	III	G	2	40X	85	only 40-100MHz
	0751	1428	POTS	0751 E	1428 U	I	S,N,DC	2	200U	430	100-200MHz no data
			IZMI	0758.3	0758.4	III	B	1	45	90	
	0800	1450	BLEN								
			IZMI	0801.9	0802.2	III	G	2	40	95	
			POTS	0801.9	0802.4	III	B	2	40X	85	
			IZMI	0821.5	0821.7	I	GG	2	150	175	
			IZMI	0821.6	0821.8	III	G	2	45	90	
	0822	1346	ONDR								
			POTS	0859	0918	III	G,N	2	40X	70	
			IZMI	0859.0	0859.8	III	G	1	45	65	
			IZMI	0903.0	0903.1	III	B	1	30	65	
			SVTO	0903.0	0903.0	III		1	32U	42U	
			IZMI	0905.0U	1200.0D	I	S	1	180	270X	
			IZMI	0911.0	0942.0	III	N	1	45	95	
			IZMI	0916.4	0917.6	III	G	2	40	90	
			IZMI	0947.8	0947.9	III	B	1	45	95	
			SVTO	0955.0	0956.0	III		2	29U	84U	
			POTS	0955.5	0957.6	III	G	3	40X	85U	
			IZMI	0955.7	0957.5	III	GG,C	2	25X	100	
			IZMI	1038.2	1038.2	III	B	1	130	210	
			IZMI	1056.6	1056.9	III	G	1	45	65	
			POTS	1056.6	1057.1	III	G	2	40X	60	
			IZMI	1119.1	1119.2	III	B	2	40	65	
			POTS	1119.1	1119.3	III	B	2	40X	80	
			IZMI	1136.6	1150.2	III	S	2	110	270X	
			SVTO	1138.0	1139.0	V		1	25U	82U	
			IZMI	1138.5	1141.5	III	G	2	30	90	
			POTS	1138.5	1148.2	III	G,N	2	40X	380	
			IZMI	1147.4	1147.4	III	B	1	55	85	
			POTS	1209.1	1211.2	III	G,N	2	40X	85	
			POTS	1305	1322	III	G,N	2	40X	80	
			HOLL	1915.0	1916.0	III		1	25	177	
			PALE	1916.0	1916.0	III		1	69	180	
	2118	2400	HIRA								
	2000	2400	CULG	2122.0	2122.0	III	B	1	20	30	
20			LEAR	0140.0	0140.0	III		1	27	88	
			LEAR	0208.0	0219.0	III	N	1	25	76	
	0000	0800	CULG	0308.0	0308.0	III	G	1	360	470	
			CULG	0331.0	0331.0	III	B	1	100	300	
	0000	0727	HIRA	0331.0	0331.5	III	B	1	200	310	
			SVTO	0603.0	0720.0	III	N	1	25	74	
	0658	1200	IZMI	0658.0E	1200.0D	I	S	1	110	270X	
			LEAR	0708.0	0709.0	III		1	25	78	
			IZMI	0708.6	0708.9	III	G,C	2	40	95	
			CULG	0709.0	0709.0	III	B	1	30	50	
			IZMI	0732.5	0732.8	III	G	1	130	270	
			IZMI	0742.3	0742.8	III	G	2	190	270X	
	0753	1426	POTS	0753 E	1426 U	I	S,N,DC	2	200U	400U	100-200MHz no data
	0757	1344	ONDR								
	0805	1450	BLEN								
			IZMI	0834.0	0834.1	III	B	1	45	85	
			SVTO	0859.0	0900.0	III		1	48U	83U	
			IZMI	0859.9	0900.3	III	B	2	45	90	
			POTS	0859.9	0900.4	III	G	2	40X	85U	
			LEAR	0900.0	0900.0	III		1	48	120	
			SVTO	0950.0	0951.0	III		1	30U	81U	
			IZMI	0950.8	0951.2	III	G,U	2	40	95	
			POTS	0950.8	0951.3	III	B	3	40X	60	
			POTS	1014.4	1014.5	III	B	1	40X	55	
			POTS	1027.0	1027.6	III	B	3	40X	75	

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20			SVTO	1027.0	1356.0	III	N	1	34U	180U	
			IZMI	1027.1	1027.4	III	G,C	2	25X	70	
			IZMI	1030.1	1030.6	III	G	2	120	270X	
			POTS	1030.1	1030.3	III	G,U	2	200U	370	
			POTS	1035.5	1036.6	III	G	2	40X	70	
			IZMI	1035.8	1037.0	III	G	1	30	65	
			IZMI	1048.7	1049.0	III	G	2	40	85	
			POTS	1048.7	1049.1	III	G	2	40X	75	
			IZMI	1058.8	1100.2	III	GG	2	110	270X	
			POTS	1058.8	1100.0	III	GG	3	200U	550	
			IZMI	1110.5	1110.7	III	B	1	60	95	
			IZMI	1117.4	1117.5	III	B	1	160	270X	
			IZMI	1119.2	1121.5	III	G	2	60	220	
			IZMI	1142.5	1142.6	III	B	2	120	175	
			POTS	1212.0	1213.1	III	G	2	40X	85U	
			POTS	1234.1	1234.5	III	B	2	40X	320	
			POTS	1335.0	1335.1	III	B	2	200U	390	
			POTS	1346.6	1346.9	III	B	2	40X	85U	
			HOLL	1446.0	1446.0	III		1	25	86	
	1426	1450	POTS	1446.6	1446.9	III	B	2	40X	80	only 40-100MHz
			HOLL	1821.0	1822.0	III		1	25	90	
			PALE	1822.0	1822.0	III		1	25	82	
			SGMR	1822.0	1822.0	III		1	30	50	
	2000	2400	CULG	2045.0	2046.0	III	G	1	20	40	
			CULG	2102.0	2102.0	III	B	1	20	40	
	2119	2400	HIRA								
21	0000	0727	HIRA								
			LEAR	0117.0	0117.0	III		1	25	95	
	0000	0800	CULG	0208.0	0208.0	III	B	1	20	45	
			CULG	0242.0	0245.0	III	G	1	18	35	
			LEAR	0242.0	0244.0	III		1	25	88	
			CULG	0629.0	0633.0	III	G	1	23	80	
			CULG	0725.0	0726.0	III	G	1	18	75	
	0805	1450	BLEN								
	0650	1200	IZMI	0831.0	0831.0	III	B	1	45	65	
	0754	1423	POTS	0846	0854	I	S,N	1	280	360	100-200MHz no data
			POTS	0913.7	0914.0	III	B	1	40X	55	
			POTS	0929 U	0948	I	S,N	1	240	380	
			POTS	1010	1132 U	I	S,N	1	240	400	
			IZMI	1109.3	1109.7	III	G	1	55	90	
			POTS	1109.4	1109.9	III	B	1	40X	75	
			IZMI	1143.5	1143.6	III	G,U	2	60	215	
			POTS	1143.6	1144.0	III	B	2	40X	320	
			POTS	1158	1242	I	S,N	1	240	350	
	0753	1342	ONDR	1243.0	1244.0	DCIM	G,W	1	2283	4500X	
			ONDR	1243.1	1245.0	DCIM	GG	2	800X	2000X	
			POTS	1256	1420 U	I	S,N,DC	2	200U	420	
			POTS	1349.4	1349.7	III	B	1	40X	55	
	2000	2400	CULG								
	2120	2400	HIRA								
22			LEAR	0001.0	0002.0	III		1	25	180	
	0000	0800	CULG	0002.0	0002.0	III	B	1	23	180	
			CULG	0029.0	0031.0	III	G	1	23	180	
	0000	0727	HIRA	0029.5	0030.5	III	G	1	50	200	
			LEAR	0036.0	0715.0	III	N	1	25	180	
			CULG	0047.0	0047.0	III	B	1	18	160	
			CULG	0139.0	0139.0	III	B	1	20	160	
			HIRA	0436.0	0436.5	III	B	1	40	120	
			CULG	0437.0	0437.0	III	B	1	20	160	
	0704	1200	IZMI	0732.5	0732.7	III	B	1	45	90	
			IZMI	0738.2	0738.3	III	G	1	90	170	
			IZMI	0749.6	0751.0	III	G,C	1	45	85	
	0748	0757	POTS	0749.8	0750.1	III	G	2	40X	85U	only 40-100MHz
			CULG	0750.0	0751.0	III	G	1	25	75	
	0810	1450	BLEN								
			IZMI	0813.4	0815.2	III	G	1	45	85	
			SVTO	0824.0	0830.0	III		1	25U	82U	

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22			IZMI	1047.4	1048.3	III	G	1	110	215	
	0757	1423	POTS	1106.6	1107.0	III	B	2	40X	70	100-200MHz no data
			POTS	1131.7	1132.0	III	B	1	40X	55	
			POTS	1145.8	1146.2	III	B	2	40X	60	
			POTS	1212.8	1213.0	III	B	1	40X	75	
			POTS	1225	1249	DCIM		1	330	600	
			POTS	1225 U	1313	I	S,N	1	200U	380	
			POTS	1229.5	1229.8	III	B	1	45	60	
			POTS	1317.8	1318.1	III	B	1	40X	60	
	0755	1341	ONDR	1329.1	1330.1	DCIM	G,W	1	2410	4500X	
			HOLL	1544.0	1544.0	III		1	25U	86U	
			SGMR	1544.0	1544.0	III		1	30	45	
			HOLL	1649.0	1651.0	III		1	68	131	
			HOLL	1940.0	1943.0	III		1	110	180	
	2000	2400	CULG	2011.0	2012.0	III	G	1	20	30	
	2121	2400	HIRA								
23	0000	0800	CULG	0120.0	0122.0	III	G	1	550	760	
	0000	0726	HIRA	0130.5	0131.0	III	B	2	50	210	
			CULG	0131.0	0131.0	III	G	1	27	200	
			CULG	0224.0	0228.0	III	G	1	18	75	
			CULG	0308.0	0309.0	III	G	1	27	280	
			HIRA	0308.0	0309.0	III	G	1	100	260	
			HIRA	0528.5	0530.5	III	G	1	30	220	
			CULG	0529.0	0532.0	III	G	1	18	200	
			HIRA	0623.0	0623.5	III	B	1	100	170	
	0705	1200	IZMI	0727.0	0749.0	I	N	1	200	270X	
	0758	1423	POTS	0804 U	0822	I	S,N	1	240	400	100-200MHz no data
			POTS	0839.6	0843.6	DCIM		2	310	500	
			ONDR	0841.4	0842.3	DCIM	G	2	800X	2000X	
	0757	1339	ONDR	0841.4	0842.3	DCIM	G,W	1	2000X	4500X	
	0810	1450	BLEN	0841.7	0842.7	III	GG,RS,C	3	300	4000X	
			IZMI	0848.0	0848.6	III	G,FS	2	55	240	
			POTS	0848.0	0849.9	III	G	2	40X	390	
			POTS	0938	1327 U	I	S,N,DC	2	200U	400	
			IZMI	0948.0	0948.1	III	G	1	110	175	
			IZMI	0950.1	0950.6	III	G	1	85	160	
			POTS	1000.0	1000.3	III	B	3	200U	480	
			IZMI	1000.1	1000.3	III	G	2	190	270X	
			POTS	1022.2	1022.4	III	B	2	200U	280	
			IZMI	1022.3	1022.4	III	G	2	95	240	
			IZMI	1027.0	1200.0D	I	S	1	180	270X	
			IZMI	1029.3	1029.4	III	G	1	130	270X	
			POTS	1029.3	1029.5	III	G	2	200U	390	
			POTS	1039.8	1040.1	III	B	1	40X	55	
			SVTO	1318.0	1407.0	III	N	1	34	135	
			POTS	1318.1	1318.5	III	G	2	40X	85	
			POTS	1340	1412 U	I	S,N,DC	2	240	380	
			BLEN	1355.3	1400.0	DCIM	P,C	2	980	4000X	
			HOLL	1529.0	1530.0	III		1	25	180	
	2122	2400	HIRA	2156.5	2157.0	III	B	1	90	200	
	2000	2400	CULG	2157.0	2157.0	III	B	1	100	180	
24	0000	0726	HIRA	0117.0	0117.5	III	B	1	50	200	
	0000	0800	CULG	0117.0	0118.0	III	G	1	50U	170	
			CULG	0246.0	0246.0	III	B	1	100	160	
			CULG	0510.0	0654.0	I	S	1	210	260	
			SVTO	0656.0	1013.0	III	N	1	74U	180U	
	0700	1200	IZMI	0700.0E	1058.0	I	N	2	200	270X	
			CULG	0733.0	0733.0	III	B	1	30	100	
			IZMI	0733.3	0733.7	III	G	2	45	100	
	0733	0759	POTS	0733.4	0733.7	III	B	2	50	85U	only 40-100MHz
			IZMI	0737.3	0737.5	III	G	1	45	95	
	0759	1338	ONDR								
	0759	1420	POTS	0759 E	1420 U	I	S,DC,N	2	200U	440	100-200MHz no data
			IZMI	0812.2	0812.4	III	B	2	45	85	
			POTS	0812.2	0812.4	III	B	1	40X	60	
	0815	1450	BLEN	0815.0X	1450.0X	I	DC	2	150	400	
			SVTO	0836.0	0836.0	III		2	25	180	

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24			IZMI	0842.4	0842.6	III	G	1	110	190	
			IZMI	0903.5	0903.7	III	G,FS	2	45	190	
			POTS	0903.6	0903.8	III	G	2	40X	80	
			IZMI	0927.6	0927.8	III	G	2	180	270X	
			POTS	0927.6	0927.8	III	B	2	200U	310	
			HOLL	1536.0	1537.0	III		1	25	173	
	2000	2400	CULG	2003.0	2003.0	III	B	1	20	35	
			CULG	2006.0	2016.0	II	UE	1	18	35	
			CULG	2034.0	2036.0	III	G	1	23	75	
	2123	2400	HIRA								
25	0000	0800	CULG	0121.0	0125.0	III	G	1	57	140	
			LEAR	0124.0	0124.0	III		1	25	138	
	0000	0726	HIRA	0124.5	0125.0	III	B	1	50	110	
			CULG	0219.0	0220.0	III	G	2	30	160	
			LEAR	0219.0	0220.0	III		2	25	165	
			HIRA	0219.5	0220.0	III	B	2	50	110	
			CULG	0253.0	0253.0	III	B	1	18	80	
			LEAR	0253.0	0253.0	III		1	25	131	
			CULG	0527.0	0527.0	III	B	1	57	180	
			SVTO	0651.0	0652.0	III		1	25	123	
	0651	1200	IZMI	0651.8	0652.6	III	G	2	40	125	
	0651	0800	POTS	0651.9	0652.3	III	B	2	40X	55U	only 40-100MHz
			CULG	0652.0	0653.0	III	G	1	18	110	
			HIRA	0652.0	0652.5	III	B	1	40	110	
			LEAR	0652.0	0652.0	III		1	25	109	
			IZMI	0743.0	1200.0D	I	S	2	50	270X	
	0800	1418	POTS	0800 E	1418 U	I	S,DC	2	200U	440	100-200MHz no data
			SVTO	0804.0	0804.0	III		1	25U	48U	
			IZMI	0804.3	0804.8	III	G,C	2	35	140	
			POTS	0804.3	0804.7	III	G	2	40X	85	
			SVTO	0820.0	0821.0	III		1	25	180	
			IZMI	1019.3	1019.8	III	GG	1	180	270X	
			POTS	1019.3	1021.7	III	GG	2	200U	420	
			POTS	1037.2	1043.3	III	GG,N	2	200U	450	
			ONDR	1040.4	1043.4	DCIM	GG	2	838	2000X	
	0801	1337	ONDR	1041.4	1042.3	DCIM	GG	2	2000X	3348	
	0815	1445	BLEN	1041.7	1043.8	DCIM	P	2	150	3000	
			IZMI	1042.0	1042.4	III	G,C	2	130	270X	
			POTS	1339	1352	I	S,DC	1	60	80	
	2124	2400	HIRA								
	2000	2400	CULG	2200.0	2200.0	III	B	1	18	180	
			CULG	2210.0	2210.0	III	B	1	18	90	
26	0000	0155	HIRA								
	0000	0800	CULG	0200.0	0352.0	I	S	1	200	400	
			CULG	0307.0	0307.0	III	B	1	57	200	
			CULG	0509.0	0741.0	I	S	1	200	330	
			CULG	0618.0	0623.0	III	G	1	50U	180	
	0534	0725	HIRA	0619.0	0623.0	III	G	1	50	130	
	0700	1200	IZMI	0700.0E	1200.0D	I	S	1	180	270X	
	0802	1417	POTS	0802 E	1417 U	I	S,N	1	200U	350	100-200MHz no data
	0804	1335	ONDR								
	0820	1445	BLEN								
			IZMI	0915.6	0915.8	III	G,HARM	2	55	210	
			LEAR	0921.0	0921.0	III		1	25	180	
			SVTO	0921.0	0921.0	III		2	25U	180U	
			IZMI	0921.4	0922.1	III	GG,C	2	40	270X	
			POTS	0921.4	0922.0	III	G	2	40X	400	
			IZMI	0924.4	0924.6	III	B	1	45	90	
			IZMI	1043.3	1043.5	III	G	1	60	175	
			SVTO	1210.0	1211.0	III		1	25U	83U	
			POTS	1210.2	1211.4	III	G	2	40X	75	
			HOLL	1623.0	1757.0	CONT		1	71	180	
			HOLL	1830.0	2005.0	III		1	70	180	
	2125	2400	HIRA								
	2000	2400	CULG	2143.0	2400.0D	I	S	1	130	230	
27	0000	0800	CULG	0000.0E	0041.0	I	S	1	150	280	

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27	0000	0725	HIRA	0110.5	0111.0	III	B	1	100	120	
			CULG	0111.0	0111.0	III	B	1	60	180	
			HIRA	0138.5	0139.0	III	B	1	130	210	
			LEAR	0202.0	0204.0	III		1	107	180	
			HIRA	0202.5	0204.5	III	G	2	100	320	
			CULG	0203.0	0205.0	III	G	2	100	340	
			LEAR	0659.0	0659.0	III		1	102	180	
			SVTO	0659.0	0659.0	III		2	112	156	
	0655	1202	IZMI	0659.4	0959.6	III	G,U	2	105	175	
			HIRA	0659.5	0700.0	III	B	2	100	140	
			CULG	0700.0	0700.0	III	B	1	100	170	
			IZMI	0702.4	0702.5	III	B	1	130	170	
			IZMI	0705.0	1202.0D	I	S	1	110	270X	
	0740	0902	POTS	0740 E	0902 U	I	S,N,DC	2	200U	400	100-200MHz no data
	0805	1334	ONDR								
			IZMI	0814.8	0814.9	UNCLF		2	45	65	
	0820	1445	BLEN								
			IZMI	1020.7	1021.1	III	B	2	45	85	
	1130	1416	POTS	1130 U	1416 U	I	S,N,DC	2	200U	450	100-200MHZ no data
			POTS	1323.0	1323.4	III	B	1	40X	70	
	2126	2400	HIRA								
	2000	2400	CULG	2319.0	2321.0	III	G	1	18	180	
28	0000	0800	CULG	0027.0	0027.0	III	B	1	20	30	
			CULG	0032.0	0032.0	III	B	1	400	1400	
			LEAR	0231.0	0231.0	III		1	44	97	
	0000	0725	HIRA	0231.5	0232.0	III	B	1	50	120	
			CULG	0232.0	0232.0	III	B	1	57	130	
			CULG	0248.0	0248.0	III	B	1	18	180	
			LEAR	0709.0	0710.0	III		1	25	121	
			SVTO	0709.0	0710.0	III		1	25U	83U	
			HIRA	0709.5	0710.0	III	B	1	70	110	
	0700	1200	IZMI	0709.6	0710.1	III	G	2	45	165	
	0709	0805	POTS	0709.9	0710.1	III	B	1	50	85U	only 40-100MHz
			CULG	0710.0	0710.0	III	G	1	18X	140	
			IZMI	0806.4	0810.3	III	G	1	45	90	
	0807	1333	ONDR								
			SVTO	0817.0	0818.0	III		1	25	43	
			IZMI	0817.6	0818.0	III	B	1	25	95	
	0820	1445	BLEN								
			IZMI	0824.5	0824.6	III	B	1	45	90	
			IZMI	0855.0	1200.0D	I	S	2	110	270X	
	0805	1418	POTS	0857	1247 U	I	S,DC	2	200U	380	100-200MHz no data
			IZMI	0931.6	0931.8	I	GG,DC	2	180	250	
			IZMI	1006.1	1006.3	III	G	1	45	90	
			POTS	1006.1	1006.3	III	B	1	40X	70	
			POTS	1222.1	1222.3	III	B	1	40X	60	
			POTS	1312	1324	I	S,N	1	250	320	
			POTS	1332.9	1333.2	III	G	1	45	70	
			PALE	1915.0	0310.0	III	N	1	25	180	
			HOLL	1916.0	1917.0	III		1	25	85	
			HOLL	2012.0	2012.0	III		1	25	54	
	2000	2400	CULG	2012.0	2012.0	III	B	1	20	50	
			CULG	2115.0	2115.0	III	B	1	18	75	
			HOLL	2115.0	2115.0	III		1	25	50	
			HOLL	2243.0	2244.0	III		1	25	92	
			LEAR	2243.0	2245.0	III		2	25	98	
			CULG	2244.0	2245.0	III	G	2	18X	260	
	2127	2400	HIRA	2244.0	2245.0	III	B	1	25X	100	
			LEAR	2353.0	2354.0	III		2	26	68	
			CULG	2354.0	2357.0	III	G	1	18	75	
			HIRA	2354.0	2354.5	III	B	1	25X	70	
			LEAR	2356.0	2356.0	III		1	27	62	
29			LEAR	0116.0	0119.0	V		3	25	78	
			PALE	0116.0	0118.0	V		1	25	47	
	0000	0800	CULG	0116.0	0119.0	III	G	2	18X	80	
	0000	0724	HIRA	0116.5	0119.0	III	G	1	25X	80	
			LEAR	0224.0	0229.0	III		1	26	89	

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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			HIRA	0224.5	0228.5	III	G	1	30	100	
			CULG	0225.0	0229.0	III	G	1	18	90	
			CULG	0419.0	0431.0	III	G	1	18	75	
			HIRA	0419.0	0426.0	III	G	1	30	300	
			LEAR	0419.0	0420.0	III		2	25	64	
			LEAR	0420.0	0431.0	III		2	25	180	
	0655	1200	IZMI	0728.0U	1200.0D	I	N	1	200	270X	
	0806	1331	ONDR								
	0805	1413	POTS	0811.6	0811.8	III	B	1	40X	60	100-200MHz no data
	0820	1440	BLEN								
			POTS	0836	0838	I	S	1	200U	290	
			IZMI	0840.1	0840.3	III	G	1	45	270X	
			POTS	0840.1	0840.4	III	G	1	55	300	
			IZMI	0855.4	0855.4	III	B	2	220	270X	
			POTS	0855.4	0855.5	III	G	1	230	320	
			POTS	0913 U	0955	I	S,N	1	200U	320	
			IZMI	0952.6	0952.9	III	G	2	180	270X	
			POTS	0952.6	0953.0	III	G	2	200U	280	
			POTS	1006.5	1008.9	III	G	1	200U	390	
			POTS	1051	1408 U	I	S,N	1	200U	350	
			POTS	1110.8	1111.6	III	G	1	40X	60	
	2000	2400	CULG	2030.0	2030.0	III	B	1	20	35	
			CULG	2034.0	2036.0	III	G	1	18	65	
			PALE	2034.0	2035.0	III		1	25	61	
	2128	2400	HIRA	2323.5	2324.0	III	B	1	170	400	
30	0000	0800	CULG	0015.0	0017.0	III	G	1	50U	140	
			LEAR	0016.0	0016.0	III		1	25	180	
	0000	0723	HIRA	0016.0	0017.0	III	B	1	70	120	
	0700	1200	IZMI	0735.0U	1200.0D	I	N	1	170	270X	
	0807	1413	POTS	0807 E	1259 U	I	S,N	1	200U	350	100-200MHz no data
	0820	1440	BLEN								
	0811	1330	ONDR	1205.4	1206.0	DCIM	G	1	800X	1048	
	2000	2400	CULG								
	2129	2400	HIRA								

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: Beginning June 26, 2001, the Bleien observatory changed to higher frequencies (1-4Ghz).