S O L A R R A D I O E M I S S I O N
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MARCH 2002

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	0000	0800	CULG	0000.0E	0048.0	I	S	1	120	170	
			LEAR	0116.0	0117.0	III		1	64	180	
	0000	0540	HIRA	0116.5	0117.0	III	B	1	60	240	
			CULG	0117.0	0117.0	III	G	1	60	260	
			CULG	0122.0	0123.0	III	G	1	60	180	
			HIRA	0122.0	0122.5	III	B	1	60	220	
			LEAR	0205.0	0234.0	III	N	1	40	165	
			CULG	0206.0	0226.0	III	N	1	57X	160	
			CULG	0214.0	0217.0	II	SH	1	65	160	ESS 1200
			CULG	0225.0	0226.0	III	G	2	57X	90	
			CULG	0255.0	0329.0	III	S,C	1	57X	100	
			LEAR	0255.0	0324.0	III	N	1	29	159	
			CULG	0421.0	0421.0	III	B	1	57X	90	
			CULG	0426.0	0427.0	III	G	1	57X	90	
			CULG	0528.0	0531.0	III	G	3	57X	400	
			HIRA	0528.0	0531.0	III	G	3	30	380	
			LEAR	0528.0	0531.0	V		2	25	180	
			CULG	0540.0	0544.0	II	FN	1	57X	65	
			CULG	0540.0	0548.0	II	SH	1	75	130	ESS 700
			LEAR	0542.0	0547.0	II		1	36	127	ESS 0742
	0600	0832	HIRA								
	0610	1630	POTS	0610 E	0747 U	I	S,N	1	200U	300	
	0658	1531	ONDR								
	0700	1202	IZMI	0702.0	0708.0	I	N	1	160	250	
			POTS	0821 U	0941 U	I	S,N	1	110U	300	
			IZMI	0908.9	0909.1	III	B	1	95	160	
			IZMI	0912.0U	0936.0	I	N	1	180	270	
	0745	1600	BLEN	0959.7	0959.8	III		1	530	800	
			POTS	1327.6	1328.1	III	G,W	1	110U	170U	
			POTS	1328.1	1328.5	V	B	2	40X	70	
	2000	2400	CULG	2038.0	2040.0	III	G	1	57X	130	
			CULG	2101.0	2102.0	III	G	1	57X	150	
			HOLL	2101.0	2102.0	III		1	25	94	
			PALE	2101.0	0419.0	III		1	25	123	
			CULG	2119.0	2119.0	III	B	1	57X	100	
			HOLL	2119.0	2119.0	III		1	25	86	
	2107	2400	HIRA	2119.0	2119.5	III	B	2	30	140	
			CULG	2148.0	2148.0	III	G	2	57X	280	
			CULG	2247.0	2247.0	III	B	1	57X	110	
			HIRA	2247.0	2247.5	III	B	1	60	110	
			LEAR	2247.0	2252.0	III		1	52	103	
			CULG	2333.0	2336.0	III	G	1	57X	180	
			HIRA	2333.0	2335.5	III	G	2	25X	400	
			LEAR	2333.0	2335.0	III		1	25	175	
02			LEAR	0051.0	0059.0	III		1	38	100	
	0000	0800	CULG	0051.0	0051.0	III	B	1	57X	90	
	0000	0833	HIRA	0051.0	0051.5	III	B	1	25X	100	
			CULG	0059.0	0101.0	III	G	1	57X	90	
			LEAR	0126.0	0131.0	III		1	44	79	
			CULG	0130.0	0131.0	III	G	1	57X	90	
			HIRA	0131.0	0131.5	III	B	1	30	80	
			LEAR	0203.0	0207.0	III		1	25	108	
			HIRA	0203.5	0208.0	III	G	1	25X	120	
			CULG	0204.0	0208.0	III	G	1	57X	90	
			LEAR	0252.0	0255.0	III		1	28	109	
			HIRA	0253.5	0254.0	III	B	1	50	100	
			CULG	0254.0	0254.0	III	B	1	57X	100	
			CULG	0309.0	0311.0	III	G	2	57X	140	
			LEAR	0309.0	0310.0	III		2	25	143	
			HIRA	0309.5	0310.0	III	B	2	30	80	
			CULG	0424.0	0426.0	III	G	1	57X	90	
			LEAR	0424.0	0425.0	III		1	25	68	
			HIRA	0425.0	0425.5	III	B	1	40	70	
	0656	1533	ONDR								
	0745	1600	BLEN								
	0605	1635	POTS	1044.0	1044.2	UNCLF		2	40X	70	
	0706	1200	IZMI	1044.0	1044.1	III	B	2	35	100	
			POTS	1256.0	1257.6	III	G	1	40X	170U	

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02			SVTO	1311.0	1312.0	III		1	138U	175U	
			POTS	1311.5	1312.1	UNCLF		2	130	250	
			POTS	1317.4	1317.6	UNCLF		1	110U	170U	
			HOLL	1421.0	1422.0	III		1	25	71	
			SVTO	1421.0	1422.0	III		1	30U	45U	
			POTS	1421.3	1422.3	III	G	1	40X	170U	
			SVTO	1448.0	1451.0	III		1	41U	160U	
			SVTO	1453.0	1605.0	CONT		1	39U	172U	
			HOLL	1521.0	1522.0	III		1	25	180	
			SGMR	1521.0	1522.0	V		2	30	65	
			SVTO	1521.0	1522.0	III		1	30U	178U	
			POTS	1521.7	1522.3	III	G	3	40X	270	
			POTS	1522.1	1522.5	V		2	40X	70	
			HOLL	1648.0	1648.0	III		1	25	84	
			SGMR	1648.0	1649.0	III		2	30	50	
			HOLL	2001.0	2018.0	III	N	1	25	180	
			PALE	2001.0	2018.0	III	N	1	25	180	
	2000	2400	CULG	2002.0	2002.0	III	B	1	57X	90	
			CULG	2009.0	2018.0	III	GG	2	57X	180	
			SGMR	2015.0	2016.0	III		2	30	55	
	2105	2400	HIRA								
			CULG	2140.0	2142.0	III	G	1	57X	90	
03			HOLL	0020.0	0021.0	III		1	25	180	
			LEAR	0020.0	0021.0	III		1	33	163	
	0000	0834	HIRA	0020.5	0021.0	III	B	2	30	200	
	0000	0800	CULG	0021.0	0021.0	III	B	2	57X	160	
			CULG	0102.0	0102.0	III	B	1	57X	90	
			CULG	0141.0	0145.0	III	G	1	57X	90	
			HIRA	0141.0	0142.0	III	B	1	60	100	
			CULG	0202.0	0206.0	III	GG	2	57X	180	
			HIRA	0202.0	0206.5	III	G	2	25X	200	
			LEAR	0202.0	0206.0	III		2	25	180	
			CULG	0226.0	0227.0	III	G	2	57X	180	
			HIRA	0226.0	0227.5	III	G	2	30	210	
			LEAR	0226.0	0228.0	III		2	25	176	
			CULG	0349.0	0350.0	III	G	1	57X	90	
			HIRA	0349.0	0349.5	III	B	1	30	70	
			HIRA	0512.5	0513.5	III	B	1	40	220	
			CULG	0513.0	0513.0	III	B	1	57X	180	
			LEAR	0513.0	0513.0	III		1	25	120	
			CULG	0536.0	0542.0	III	G	1	57X	250	
			HIRA	0536.0	0542.0	III	G	1	40	260	
			LEAR	0536.0	0540.0	III		1	28	61	
	0654	1535	ONDR								
	0605	1635	POTS	0655.8	0656.8	III	G	2	40X	270	
			CULG	0656.0	0656.0	III	B	2	57X	180	
			HIRA	0656.0	0656.5	III	B	2	40	230	
			LEAR	0656.0	0656.0	III		1	25	163	
			SVTO	0656.0	0656.0	III		1	29U	153U	
	0655	1200	IZMI	0656.0	0656.7	III	G,FS	2	35	250	
			IZMI	0656.1	0656.6	V		2	45	65	
	0745	1600	BLEN								
			LEAR	0752.0	0758.0	III		1	35	166	
			POTS	0752.3	0753.8	III	GG	2	40X	170U	
			HIRA	0752.5	0754.0	III	G	2	50	180	
			IZMI	0752.7	0753.8	III	GG	2	50	180	
			CULG	0753.0	0754.0	III	G	1	57X	170	
			CULG	0758.0	0758.0	III	B	1	57X	90	
			LEAR	0823.0	0824.0	III		1	32	127	
			SVTO	0823.0	0824.0	III		1	37U	83U	
			HIRA	0823.5	0824.0	III	B	1	50	140	
			POTS	0823.5	0825.0	III	G	2	40X	250	
			IZMI	0823.6	0825.0	III	GG	2	40	210	
			IZMI	0828.2	0828.9	III	G	1	50	90	
			IZMI	0832.6	0832.9	III	G	1	45	70	
			IZMI	0900.8	0901.0	III	G,HARM	1	40	90	
			POTS	0929 U	0951 U	I	S,N	1	40X	300	
			LEAR	0930.0	0931.0	III		1	51	109	

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03			SVTO	0930.0	0931.0	III		1	75U	84U	
			IZMI	0930.2	0931.6	III	G	1	40	110	
			IZMI	1001.6	1002.0	III	G	1	230	270X	
			IZMI	1049.9	1050.0	III	B	1	45	75	
			POTS	1053 U	1110 U	I	S,N	1	250	300	
			IZMI	1101.0	1112.0U	I	N	1	230	270X	
			POTS	1207.6	1207.8	III	B	1	40X	170U	
			POTS	1225.9	1226.4	III	G	1	40X	150	
			SVTO	1226.0	1226.0	III		1	30U	83U	
			POTS	1345.2	1346.0	UNCLF		1	110U	170U	
			HOLL	1828.0	1828.0	III		1	25	52	
			PALE	1828.0	1839.0	III		1	25	55	
	2000	2400	CULG								
04			LEAR	0414.0	0416.0	III		1	25	150	
	0000	0800	CULG	0414.0	0419.0	III	GG	1	57X	180	
			CULG	0509.0	0509.0	III	G	1	57X	90	
	0651	1537	ONDR								
	0600	1640	POTS	0727.7	0727.8	UNCLF		1	60	130	
			CULG	0731.0	0738.0	III	G	1	60	420	
			POTS	0731.3	0735.4	DCIM	RS	2	200U	700	
	0655	1200	IZMI	0731.4	0735.4	III	GG	2	190	270X	
			POTS	0733.1	0733.2	UNCLF		1	110U	150	
			IZMI	0838.8	0839.8	III	GG	2	115	270X	
			POTS	0838.8	0839.7	III	G	1	110U	250	
	0740	1600	BLEN	0851.8	0854.1	III	GG	1	270	500	
			POTS	0853.2	0854.1	DCIM		1	250	600	
			POTS	1010.3	1013.8	DCIM		1	250	450	
			POTS	1059.3	1059.4	DCIM		2	200U	460	
			IZMI	1059.5	1059.7	III	G	2	180	270X	
			BLEN	1219.2	1222.3	III	GG	1	290	540	
			BLEN	1236.0	1236.2	III	U	1	320	700	
			BLEN	1337.4	1338.5	III	GG	1	370	530	
			POTS	1406.2	1406.3	DCIM		1	200U	350	
			HOLL	1750.0	1752.0	III		1	25	180	
			PALE	1751.0	1751.0	III		1	25	180	
			SGMR	1751.0	1751.0	V		1	30	65	
			PALE	1815.0	1816.0	III		1	25	180	
	2000	2400	CULG	2151.0	2151.0	III	B	1	57X	140	
			CULG	2211.0	2214.0	III	G	1	57X	230	
			HOLL	2211.0	2212.0	III		1	25	87	
			PALE	2211.0	2212.0	III		1	25	54	
			CULG	2330.0	2330.0	III	B	1	57X	130	
			HOLL	2330.0	2330.0	III		1	53	86	
			LEAR	2330.0	2330.0	III		1	25	103	
05	0000	0800	CULG	0034.0	0034.0	III	B	1	57X	130	
			LEAR	0246.0	0246.0	III		1	39	112	
			CULG	0247.0	0247.0	III	B	1	57X	120	
			LEAR	0357.0	0358.0	III		1	35	113	
			CULG	0358.0	0358.0	III	G	1	57X	100	
			LEAR	0519.0	0524.0	III		1	41	120	
			CULG	0520.0	0524.0	III	G	1	57X	140	
	0639	0836	HIRA								
	0649	1539	ONDR								
			CULG	0702.0	0704.0	III	G	1	57X	140	
	0600	1640	POTS	0703.4	0703.7	UNCLF		1	110U	150	
	0700	1200	IZMI	0703.4	0703.6	III	G	2	105	155	
			POTS	1337.3	1337.8	DCIM		2	300	500	
	0740	1600	BLEN	1337.4	1339.3	III	GG	1	330	520	
			HOLL	2134.0	2134.0	III		1	25	61	
			HOLL	2314.0	2315.0	III		1	116	180	
			LEAR	2314.0	2315.0	III		2	94	180	
			PALE	2314.0	2315.0	III		1	25	180	
	2101	2400	HIRA	2314.5	2315.0	III	B	2	100	390	
	2000	2400	CULG	2315.0	2316.0	III	G	2	100	400	
			HOLL	2334.0	2345.0	III	N	1	25	180	
			LEAR	2339.0	0004.0	III	N	1	54	180	
			CULG	2340.0	2341.0	III	G	1	65	260	

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05			HIRA	2340.0	2340.5	III	B	1	110	230	
			CULG	2345.0	2346.0	III	G	1	57X	180	
			HIRA	2345.0	2345.5	III	B	1	100	210	
06	0000	0800	CULG	0119.0	0119.0	III	B	1	140	180	
	0000	0837	HIRA	0119.0	0119.5	III	B	1	120	200	
			CULG	0127.0	0127.0	III	B	1	130	180	
			HIRA	0127.5	0128.0	III	B	1	120	300	
			LEAR	0217.0	0217.0	III		1	124	180	
			HIRA	0217.5	0218.0	III	B	1	110	300	
			CULG	0218.0	0218.0	III	G	1	130	200	
	0647	1541	ONDR								
	0730	1615	BLEN	0819.9	0821.1	III	G	1	160	550	
	0655	1200	IZMI	0820.1	0820.4	III	G	1	150	270X	
	0555	1645	POTS	0820.2	0820.5	DCIM		1	150	400	
			POTS	1044.2	1045.6	I	S,N	1	130	170U	
			POTS	1115.2	1117.3	I	S,N	1	150	300	
			IZMI	1115.4	1117.3	III	GG	1	210	270X	
			IZMI	1145.8	1147.0	III	GG	2	30	150	
			SVTO	1146.0	1146.0	III		1	25U	83U	
			POTS	1155.7	1158.1	III	GG	1	40X	170U	
			BLEN	1222.1	1222.6	III	GG,S	1	180	380	
			POTS	1222.2	1222.7	III	G	1	110U	300	
			POTS	1408.3	1412.5	III	G	2	40X	300	
			POTS	1452.0	1452.5	UNCLF		1	130X	320	
			BLEN	1452.1	1452.5	III	G	1	160	450	
			POTS	1521.3	1521.7	III	G	1	110U	300	
			POTS	1605.9	1607.7	III	G	2	40X	450	
			HOLL	1607.0	1607.0	III		1	61	180	
			SVTO	1607.0	1607.0	III		1	64	180	
			POTS	1609.6	1609.7	UNCLF		1	200U	320	
			POTS	1637.7	1637.8	UNCLF		1	240	300	
			HOLL	1803.0	1805.0	III		1	25	86	
			PALE	1803.0	1806.0	III		1	25	87	
			SGMR	1803.0	1806.0	III		1	30	80	
			HOLL	1918.0	1919.0	III		1	25	180	
			PALE	1919.0	1919.0	III		1	25	180	
			SGMR	1919.0	1919.0	III		1	30	55	
	2100	2400	HIRA								
	2000	2400	CULG	2340.0	2350.0	III	G	1	130	180	
07	0000	0606	HIRA	0033.5	0034.0	III	B	1	80	250	
	0000	0800	CULG	0034.0	0035.0	III	G	1	57X	280	
			LEAR	0151.0	0152.0	III		1	41	107	
			CULG	0152.0	0152.0	III	B	1	57X	180	
	0645	1542	ONDR								
	0700	0838	HIRA								
	0555	1645	POTS	0717.9	0718.5	DCIM		1	220	350	
	0701	1200	IZMI	0717.9	0718.5	III	G	1	180	270X	
	0730	1615	BLEN								
			POTS	1351.5	1351.6	III	B	1	120	170U	
	2000	2400	CULG	2037.0	2037.0	III	B	1	57X	80	
	2059	2400	HIRA								
			CULG	2231.0	2247.0	III	GG	1	57X	90	
08	0000	0838	HIRA								
	0000	0800	CULG	0116.0	0116.0	III	B	1	57X	90	
	0550	1645	POTS	0550.5	0613.8	I	S	1	200U	360	
	0642	1544	ONDR								
	0730	1620	BLEN	0830.9	0832.9	I	DC	1	290	430	
			POTS	0831.7	0837.2	I	S	1	250	400	
	0655	1200	IZMI	0945.1	0945.5	III	B	1	45	190	
			HOLL	1652.0	1653.0	III		1	25	87	
			SGMR	1652.0	1653.0	III		2	30	53	
	2058	2400	HIRA								
	2000	2400	CULG	2119.0	2121.0	III	G	1	57X	140	
			CULG	2345.0	2345.0	III	B	1	57X	90	
09			SVTO	.0	1627.0	CONT		1	30U	136U	

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09	0000	0839	HIRA								
	0000	0800	CULG	0004.0	0440.0	III	S,C	2	57X	160	
			LEAR	0021.0	0436.0	CONT		2	25	121	
			SVTO	0605.0	0654.0	III	N	1	36	79	
	0655	1222	IZMI	0737.4	0737.8	III	B	1	25X	70	
			SVTO	1102.0	1103.0	III		1	60	156	
	0550	1650	POTS	1124.8	1127.3	I	S	1	250	320	
			POTS	1239.2	1240.0	I	S	1	200U	280	
			POTS	1527.7	1527.8	UNCLF		1	40X	70	
	0640	1546	ONDR	1532.3	1542.3	DCIM	GG	1	800X	1466	
	0730	1620	BLEN	1532.6	1542.6	DCIM	P	1	700	1700	
			SVTO	1600.0	1626.0	CONT		1	30U	136U	
			SGMR	1601.0	1917.0	CONT		1	30	60	
			PALE	1810.0	2005.0	CONT		1	25	140	
			HOLL	1829.0	1830.0	III		1	25	180	
			HOLL	2157.0	2158.0	III		1	75	180	
	2056	2400	HIRA	2157.5	2158.5	III	B	1	80	200	
	2000	2400	CULG	2158.0	2158.0	III	G	1	57X	180	
			CULG	2210.0	2245.0	I	S,C	1	130	180	
			CULG	2219.0	2400.0D	III	S,C	1	57X	160	
			HOLL	2232.0	2340.0	IV		1	61	170	
			LEAR	2239.0	0020.0	CONT		1	25	180	
10	0000	0800	CULG	0000.0E	0115.0	III	S,C	1	57X	90	
	0000	0840	HIRA	0009.5	0010.5	III	B	1	40	220	
			CULG	0010.0	0010.0	III	G	1	57X	180	
			LEAR	0033.0	0136.0	III	N	1	25	97	
			CULG	0130.0	0130.0	III	B	1	57X	280	
			CULG	0135.0	0137.0	III	G	3	57X	450	
			HIRA	0135.0	0137.0	III	G	3	25X	450	
			LEAR	0135.0	0135.0	III		3	25	180	
			PALE	0135.0	0136.0	III		2	25	180	
			CULG	0336.0	0337.0	III	G	1	57X	100	
			HIRA	0336.0	0337.0	III	G	1	40	140	
			LEAR	0336.0	0359.0	III	N	2	25	180	
			PALE	0357.0	0358.0	III		1	25	180	
			HIRA	0357.5	0359.5	III	G	3	30	500	
			CULG	0358.0	0358.0	III	B	3	57X	430	
			CULG	0359.0	0402.0	III	G	1	57X	130	
			CULG	0503.0	0505.0	III	G	3	57X	600	
			HIRA	0503.0	0507.0	III	G	3	30	600	
			LEAR	0503.0	0509.0	III		3	25	180	
			CULG	0505.0	0510.0	III	G	1	57X	450	
			LEAR	0553.0	0554.0	III		1	25	58	
			CULG	0650.0	0650.0	III	B	1	57X	110	
			HIRA	0650.0	0650.5	III	B	1	50	90	
	0550	1650	POTS	0711.2	0711.7	I	S	1	220	280	
			POTS	0735.2	0944 U	I	S,N	1	200U	300	
	0707	1200	IZMI	0809.4	0809.5	III	G,RS	1	245	270	
	0730	1620	BLEN	0945.5	0946.0	III	G,RS	1	660	870	
			BLEN	1000.8	1005.9	III	G,C	3	160	4000X	
	0637	1548	ONDR	1001.2	1001.5	DCIM	G	1	1048	1752	
			LEAR	1005.0	1006.0	III		1	55	172	
			SVTO	1005.0	1006.0	III		1	54U	154U	
			IZMI	1005.2	1006.4	III	GG,FS	2	35	270X	
			POTS	1005.2	1006.1	III	G	2	40X	350	
			BLEN	1058.8	1059.9	III	GG,V,C	2	100X	4000X	
			IZMI	1058.8	1100.6	III	GG,C	3	25X	170X	
			POTS	1058.8	1100.5	III	G	3	40X	600	
			POTS	1059.0	1100.1	V	G	3	40X	90U	
			SVTO	1059.0	1100.0	III		2	25	180	
			ONDR	1102.4	1103.0	DCIM	GG,SP	2	800X	1128	
			BLEN	1102.7	1103.3	III	GG,C	2	780	4000X	
			SVTO	1159.0	1201.0	III		1	25	141	
			IZMI	1159.7	1201.8	III	GG,FS	2	38	170X	
			POTS	1200.4	1202.0	III	G	3	40X	700	
			POTS	1343.5	1344.1	III	G	1	110U	450	
			POTS	1353.6	1353.8	UNCLF		1	40X	170U	
			BLEN	1400.2	1400.5	III	G,S	1	200	320	

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10			POTS	1400.2	1400.4	UNCLF		2	130	300	
			POTS	1412.0	1414.1	III	G	1	70	400	
			BLEN	1412.1	1413.2	III	GG,C	2	170	620	
			POTS	1427 U	1626 U	I	S,N	1	150	350	
	2055	2400	HIRA								
			HOLL	2152.0	2152.0	III		1	25	40	
	2000	2400	CULG	2242.0	2253.0	III	GG	1	57X	180	
			LEAR	2244.0	0042.0	CONT		1	72	133	
11			LEAR	0139.0	0144.0	III		1	25	123	
			PALE	0139.0	0140.0	III		1	25	63	
	0000	0841	HIRA	0139.5	0140.5	III	B	1	40	110	
	0000	0800	CULG	0140.0	0145.0	III	G	1	57X	160	
			CULG	0612.0	0613.0	III	G	1	57X	180	
			HIRA	0612.0	0612.5	III	B	1	40	150	
			LEAR	0612.0	0612.0	III		2	25	153	
			SVTO	0612.0	0612.0	III		1	25	147	
			CULG	0623.0	0625.0	III	G	2	57X	150	
			HIRA	0623.0	0624.0	III	B	2	30	150	
			LEAR	0623.0	0624.0	III		2	25	141	
			SVTO	0623.0	0624.0	III		2	25	140	
	0545	1655	POTS	0623.4	0623.8	UNCLF		2	40X	70	
	0635	1549	ONDR								
	0730	1620	BLEN								
			POTS	0841.6	0912.5	I	S,N	1	200U	320	
			LEAR	0842.0	0842.0	III		1	43	106	
	0700	1200	IZMI	0842.1	0842.8	III	G,U	1	55	100	
			IZMI	0848.0U	1200.0D	I	S	1	60	270X	
			LEAR	0918.0	1027.0	CONT		1	87	180	
			POTS	0918.7	1553 U	I	S,N,DC	2	40X	300	
			IZMI	1003.5	1005.6	III	G,FS	2	50	90	
			IZMI	1006.6	1008.4	III	G,C	2	35	100	
			IZMI	1100.7	1101.8	III	G	2	40	160	
			POTS	1100.7	1103.4	III	G	2	40X	250	
			IZMI	1102.7	1103.4	III	G	2	45	135	
			PALE	1947.0	1954.0	III		1	25	150	
	2000	2400	CULG	2025.0	2027.0	III	G	1	57X	130	
			CULG	2034.0	2222.0	III	N	1	57X	100	
			HOLL	2204.0	2205.0	III		1	25	133	
			PALE	2204.0	2205.0	III		1	25	126	
			CULG	2205.0	2205.0	III	B	3	57X	160	
	2054	2400	HIRA	2205.0	2205.5	III	B	2	25X	120	
			CULG	2209.0	2400.0D	I	S,C	1	130	250	
			LEAR	2240.0	0905.0	CONT		1	37	180	
			CULG	2245.0	2400.0D	III	S,C	1	57X	160	
			HOLL	2258.0	0057.0	CONT		1	35	93	
			CULG	2345.0	2348.0	III	G	1	600	1400	
			PALE	2346.0	0423.0	III		1	25	180	
12			CULG	0000.0E	0500.0	III	S,C	1	57X	180	
	0000	0800	CULG	0000.0E	0607.0	I	S,C	2	57X	180	
			CULG	0016.0	0151.0	IV	FS	2	280	1700	
			CULG	0625.0	0800.0D	III	N	1	57X	160	
	0545	1655	POTS	0652 U	0743 U	I	S,N	1	110U	250	
	0705	1202	IZMI	0708.8U	0742.4	UNCLF		1	45	90	
			IZMI	0722.0	0752.0U	I	N	1	120	250	
			SVTO	0833.0	0834.0	III		1	30U	83U	
			POTS	0833.3	0833.7	DCIM		1	300	500	
	0725	1625	BLEN	0833.4	0834.5	III	GG,RS,C	3	310	4000X	
	0000	0842	HIRA	0833.5	0834.0	III	B	1	50	190	
			POTS	0833.8	0836.8	III	G	2	40X	250	
			IZMI	0833.9	0839.4	III	GG	2	25X	175	
			BLEN	0838.2	0838.4	III	G	1	310	420	
			IZMI	1011.1	1011.3	III	G	2	180	270X	
			POTS	1011.1	1011.3	III	G	2	110U	300	
			IZMI	1032.3	1032.5	III	B	1	40	90	
			ONDR	1311.4	1317.3	DCIM	G,W	1	1048	2000X	
	0633	1551	ONDR	1311.5	1317.1	DCIM	G	1	2000X	4500X	
			BLEN	1312.1	1316.3	III	GG,C	3	430	4000X	

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12			HOLL	1906.0	1908.0	III		2	25	164	
			PALE	1906.0	1907.0	III		1	25	180	
			SGMR	1906.0	1908.0	III		3	30	80	
			PALE	1907.0	1908.0	III		1	25	180	
			LEAR	2241.0	0845.0	CONT		1	71	180	
	2000	2400	CULG	2306.0	2306.0	III	B	1	550	800	
			CULG	2318.0	2327.0	II	SH	1	57X	160	ESS 1000
			CULG	2319.0	2321.0	II	FN	1	57X	80	
			LEAR	2319.0	2331.0	II		1	68	180	ESS 0884
			PALE	2319.0	2322.0	II		1	102	180	ESS 0549
	2052	2400	HIRA	2319.0	2323.0	II		1	80	160	
13	0000	0800	CULG	0011.0	0032.0	III	N	1	57X	90	
			CULG	0041.0	0042.0	III	G	3	57X	1600	
			HOLL	0041.0	0042.0	III		1	25	180	
			LEAR	0041.0	0042.0	III		3	25	180	
			PALE	0041.0	0042.0	III		1	25	180	
	0000	0843	HIRA	0041.0	0042.0	III	B	3	40	500	
			CULG	0136.0	0520.0	III	N	1	57X	180	
			CULG	0618.0	0627.0	III	G	1	57X	90	
			SVTO	0623.0	0623.0	III		1	46U	74U	
			HIRA	0623.5	0624.0	III	B	1	40	130	
	0545	1655	POTS	0631 U	0823 U	I	S,N,DC	1	110U	320	
			CULG	0658.0	0701.0	III	G	1	57X	170	
	0700	1200	IZMI	0733.6	0733.7	III	B	1	40	90	
			POTS	0733.7	0733.8	UNCLF		1	40X	70	
			IZMI	0813.3	0813.4	III	B	1	120	160	
			POTS	0846.8	0850.3	DCIM		2	250	650	
			POTS	0902.8	1142 U	I	S,N,DC	1	120	320	
			LEAR	0935.0	0936.0	III		1	62	180	
			SVTO	0935.0	0935.0	III		1	75U	150U	
			POTS	0935.5	0936.2	III	G	2	60	170U	
			IZMI	0935.6	0936.2	III	G	2	60	175	
			POTS	1024.2	1024.3	UNCLF		1	40X	60	
			POTS	1034.3	1034.5	III	G	1	40X	160	
			IZMI	1034.4	1034.4	III	G	1	60	170	
			IZMI	1043.7	1043.8	III	G	1	90	180	
			IZMI	1051.2	1051.4	III	B	1	50	90	
			IZMI	1106.0U	1135.0U	I	N	1	200	270X	
			SVTO	1114.0	1116.0	III		3	32U	180U	
			ONDR	1114.5	1115.5	DCIM		2	800X	2000X	
	0631	1553	ONDR	1114.5	1115.5	DCIM		1	2000X	4500X	
			POTS	1114.7	1116.3	III	G	3	40X	600	
			IZMI	1114.8	1115.7	III	GG	2	35	270X	
			IZMI	1114.9	1115.9	V		2	25X	180	
			SGMR	1115.0	1115.0	III		1	30	80	
			POTS	1115.1	1115.9	V		3	40X	70	
			IZMI	1116.1	1116.2	III	G	2	40	155	
			IZMI	1121.5	1121.5	III	B	2	130	190	
			IZMI	1141.5	1141.7	III	B	1	50	75	
			POTS	1227.8	1229.3	III	G	1	40X	140	
			SVTO	1229.0	1229.0	III		1	34U	83U	
			POTS	1255.9	1507 U	I	S,N	2	110U	250	
	1200	1615	BLEN	1342.5	1342.5	III	GG,S,C	2	360	4000X	
			SVTO	1351.0	1351.0	III		1	29U	141U	
			POTS	1351.2	1351.4	III	G	2	40X	300	
			SVTO	1401.0	1406.0	III		1	53U	153U	
			BLEN	1401.1	1401.4	III	G	1	360	500	
			POTS	1401.8	1402.1	III	G	2	60	220	
			POTS	1405.5	1406.4	III	G	2	40X	220	
			BLEN	1429.5	1446.7	III	GG	1	330	500	
			POTS	1431.4	1432.7	DCIM		2	250	550	
			POTS	1552.3	1552.5	DCIM		2	200U	550	
			BLEN	1553.0	1553.6	III	GG,S,C	2	150	4000X	
			HOLL	1553.0	1710.0	III	N	1	44	180	
			SVTO	1553.0	1553.0	III		1	72U	146U	
			POTS	1604.2	1605.7	III	G	2	40X	300	
			BLEN	1604.3	1605.7	III	GG,RS	2	100X	530	
			SVTO	1605.0	1605.0	III		2	46U	161U	

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13			POTS	1613.9	1614.8	I	S	1	200U	280	
	2010	2300	CULG	2010.0E	2300.0D	III	S,C	1	57X	90	
			LEAR	2241.0	2324.0	CONT		1	39	138	
			HOLL	2324.0	2334.0	II		1	58	160	ESS 0507
			LEAR	2324.0	2334.0	II		2	50	175	ESS 0755
			PALE	2324.0	0000.0	II		1	55	162	ESS 0498
	2051	2400	HIRA	2324.0	2335.0	II		2	60	160	
			LEAR	2334.0	1024.0	IV		1	43	147	
14	0000	0844	HIRA								
	0000	0800	CULG	0000.0E	0206.0	III	S,C	1	57X	90	
			CULG	0142.0	0206.0	IV	FS	1	350	1600	
			CULG	0206.0	0800.0D	III	S,C	1	57X	180	
			SVTO	0544.0	0732.0	IV		1	37	172	
	0540	1700	POTS	0628 U	1553 U	I	S,N,DC	1	110U	300	
	0629	1555	ONDR								
	0640	1640	BLEN								
			IZMI	0650.0E	0856.0U	III	N	1	45	90	
	0650	1200	IZMI	0650.0E	1200.0D	I	N	1	110	270	
			IZMI	0917.6	0917.7	III	B	1	45	90	
			IZMI	0956.4	0956.7	III	G	1	45	90	
			IZMI	1010.0	1010.9	III	G	2	25	270X	
			POTS	1010.0	1011.1	III	G	3	40X	400	
			SVTO	1010.0	1010.0	III		1	32U	175U	
			SVTO	1024.0	1026.0	III		1	45	75	
			SVTO	1047.0	1105.0	CONT		1	75	147	
			SVTO	1047.0	1302.0	CONT		1	61U	175U	
			IZMI	1113.3	1113.4	UNCLF	FS	2	55	70	
			POTS	1639.8	1640.2	III	G	2	40X	300	
			HOLL	1640.0	1730.0	III	N	1	25	151	
			SGMR	1643.0	1648.0	III		1	30	60	
	2049	2400	HIRA								
	2010	2400	CULG	2235.0	2238.0	III	G	1	57X	170	
			CULG	2311.0	2311.0	III	B	1	57X	90	
			CULG	2335.0	2335.0	III	B	1	57X	170	
15	0000	0800	CULG								
	0000	0845	HIRA								
	0626	1556	ONDR								
	0640	1640	BLEN								
	0540	1700	POTS	0723 U	1557 U	I	S,N,DC	2	110U	300	
	0700	1200	IZMI	0723.0U	1200.0D	I	N	1	110	260	
			SVTO	0900.0	1633.0	CONT		1	25	180	
			LEAR	0903.0	1010.0	CONT		1	70	180	
			IZMI	1143.3	1145.2	I	GG,DC	2	130	145	
			HOLL	1419.0	2100.0	CONT		1	105	180	
			HOLL	1802.0	1802.0	III		1	25	91	
			PALE	1802.0	1802.0	III		1	25	123	
			SGMR	1802.0	1803.0	III		2	30	60	
	2010	2400	CULG	2010.0E	2322.0	I	S	1	120	170	
			CULG	2036.0	2223.0	III	N	1	57X	110	
	2048	2400	HIRA								
			HOLL	2149.0	2149.0	III		1	67	119	
			HOLL	2208.0	0005.0	III	N	1	25	138	
			HOLL	2213.0	0045.0	IV		1	25	180	
			CULG	2218.0	2312.0	IV	FS	1	57X	750	
			PALE	2219.0	0026.0	CONT		1	25	180	
			LEAR	2241.0	1023.0	CONT		1	25	180	
			CULG	2326.0	2400.0D	III	S,C	1	57X	200	
16	0000	0800	CULG	0000.0E	0800.0D	III	S,C	2	57X	200	
			LEAR	0443.0	0443.0	III		2	25	180	
	0000	0846	HIRA	0443.0	0443.5	III	B	1	30	170	
			SVTO	0520.0	1228.0	CONT		1	40U	155U	
	0535	1705	POTS	0620 U	1207 U	I	S,N,DC	2	40X	300	400-800MHz no data
	0701	1200	IZMI	0701.0E	1200.0D	I	S	2	40	250	
			HIRA	0720.0	0720.5	III	B	1	40	110	
			IZMI	0720.0	0721.0	III	G	2	25X	145	
			LEAR	0720.0	0720.0	III		2	25	143	

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16			SVTO	0720.0	0720.0	III		1	25U	180U	
			IZMI	0728.8	0738.9	III	B	2	120	210	
			IZMI	0847.2	0848.9	III	G	1	40	75	
			IZMI	0858.2	0858.6	III	G	1	40	70	
			IZMI	0908.2	0909.2	III	G	2	30	200	
			POTS	0908.8	0909.2	III	G	2	40X	220	
			ONDR	1121.4	1126.2	DCIM	GG,SP	3	800X	2000X	
	0624	1558	ONDR	1121.4	1125.0	DCIM	GG	2	2000X	4500X	
	0640	1640	BLEN	1121.8	1124.8	III	GG,U,C	3	100X	4000X	
			SGMR	1122.0	1123.0	III		1	30	80	
			SVTO	1122.0	1123.0	III		1	25	180	
			IZMI	1122.2	1123.8	III	GG,C	2	25X	270X	
			POTS	1122.2	1124.6	III	G	3	40X	400X	
			POTS	1122.5	1123.4	V	G	3	40X	90U	
			IZMI	1132.3	1132.9	III	G	1	40	140	
			POTS	1307 U	1608 U	I	S,N,DC	1	110U	280	
			SGMR	1319.0	1319.0	III		2	30	40	
			SVTO	1319.0	1319.0	III		1	32	48	
			POTS	1319.3	1319.5	UNCLF		1	40X	60	
			BLEN	1356.6	1357.2	III	G,RS	1	170	310	
			POTS	1422.3	1422.5	UNCLF		1	40X	60	
			BLEN	1448.1	1449.3	DCIM	P	2	850	4000X	
			HOLL	1519.0	1826.0	CONT		1	25	87	
			HOLL	1635.0	1636.0	III		1	25	135	
			HOLL	1754.0	1754.0	III		1	25	144	
			PALE	1754.0	1754.0	III		1	25	144	
			SGMR	1754.0	1755.0	III		2	30	53	
			HOLL	2005.0	2345.0	III	N	1	25	180	
	2010	2400	CULG	2010.0E	2112.0	III	N	1	57X	150	
			PALE	2012.0	2348.0	III	N	1	25	180	
			SGMR	2012.0	2013.0	III		2	30	43	
			CULG	2121.0	2132.0	III	GG	2	57X	180	
	2046	2400	HIRA	2121.5	2125.0	III	G	2	40	320	
			CULG	2159.0	2207.0	III	G	1	57X	180	
			CULG	2232.0	2237.0	III	G	1	57X	130	
			CULG	2250.0	2327.0	III	N	2	57X	180	
			LEAR	2250.0	2318.0	III	N	2	29	178	
			HIRA	2250.5	2254.0	III	G	2	25X	100	
			HIRA	2310.5	2327.0	III	G	2	25X	240	
			LEAR	2320.0	2326.0	III		1	36	135	
17			LEAR	0030.0	0034.0	III		2	25	149	
	0000	0800	CULG	0030.0	0032.0	III	G	1	57X	170	
			HOLL	0031.0	0039.0	III		1	25	87	
			PALE	0031.0	0356.0	III		1	25	180	
	0000	0847	HIRA	0031.5	0032.0	III	B	2	30	400	
			CULG	0034.0	0034.0	III	B	1	57X	700	
			LEAR	0036.0	0039.0	V		2	25	111	
			CULG	0038.0	0039.0	III	G	2	57X	180	
			HIRA	0038.0	0039.0	III	B	2	30	100	
			LEAR	0101.0	0101.0	III		1	32	63	
			CULG	0130.0	0249.0	III	N	1	57X	140	
			LEAR	0137.0	0140.0	III		1	25	62	
			HIRA	0138.5	0139.0	III	B	1	160	260	
			HIRA	0151.0	0151.5	III	B	1	25X	80	
			LEAR	0151.0	0151.0	III		1	25	94	
			LEAR	0224.0	0226.0	III		1	39	117	
			HIRA	0224.5	0225.0	III	B	1	30	130	
			LEAR	0243.0	0249.0	III		1	36	96	
			LEAR	0333.0	0340.0	III		1	29	147	
			CULG	0334.0	0336.0	III	G	1	57X	160	
			HIRA	0334.0	0336.0	III	G	1	40	130	
			CULG	0340.0	0342.0	III	G	1	57X	130	
			CULG	0346.0	0353.0	III	GG	2	57X	100	
			HIRA	0346.0	0353.0	III	G	1	25X	110	
			LEAR	0346.0	0355.0	III		2	28	180	
			CULG	0355.0	0400.0	III	G	1	57X	230	
			HIRA	0355.0	0357.5	III	G	2	25X	230	
			LEAR	0356.0	0400.0	III		2	25	178	

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17		CULG	0426.0	0428.0	III	G	1	57X	170	
		LEAR	0426.0	0427.0	III		1	28	170	
		HIRA	0426.5	0427.5	III	B	1	25X	170	
		CULG	0454.0	0457.0	III	G	3	57X	300	
		HIRA	0454.5	0500.0	III	G	3	25X	400	
		LEAR	0455.0	0500.0	V		3	25	180	
		CULG	0457.0	0500.0	III	G	1	57X	180	
		CULG	0516.0	0542.0	I	S	1	110	180	
		CULG	0535.0	0548.0	III	GG	2	57X	140	
		HIRA	0535.0	0536.5	III	G	2	30	140	
		LEAR	0535.0	0536.0	III		2	25	140	
		SVTO	0535.0	0536.0	III		1	36U	83U	
		LEAR	0539.0	0632.0	III	N	1	25	180	
		HIRA	0544.0	0545.5	III	G	1	50	90	
		SVTO	0544.0	0545.0	III		1	50U	81U	
0535	1710	POTS	0632.8	0633.1	UNCLF		1	130	170U	400-800MHz no data
		CULG	0633.0	0633.0	III	G	1	57X	160	
0622	1600	ONDR	0724.0	0732.3	DCIM	GG	1	800X	1902	
0640	1640	BLEN	0724.0	0743.5	DCIM	P	2	500	1900	
		LEAR	0731.0	0854.0	III	N	1	34	132	
		SVTO	0731.0	0755.0	III	N	1	38U	134U	
0700	1200	IZMI	0731.5	0735.8	III	G	1	40	210	
		POTS	0731.7	0731.9	III	B	1	40X	170U	
		CULG	0732.0	0751.0	III	N	1	57X	150	
		IZMI	0743.7	0747.5	III	GG	1	45	75	
		IZMI	0750.7	0751.0	III	G	1	90	250	
		POTS	0750.8	0751.0	III	B	1	110U	240	
		IZMI	0843.5	0846.4	III	GG	2	50	235	
		POTS	0843.7	0844.9	III	G	2	40X	240	
		SVTO	0844.0	1036.0	III	N	2	25U	180U	
		IZMI	0852.1	0857.9	III	GG	2	45	140	
		POTS	0854.2	0855.2	III	G	1	40X	140	
		IZMI	0930.6	0931.3	III	G	1	25X	70	
		LEAR	0942.0	0945.0	III		1	38	105	
		IZMI	0942.9	0943.8	III	G	1	40	90	
		LEAR	0956.0	0959.0	III		1	32	180	
		IZMI	0956.5	0958.0	III	GG,C,FS	2	30	270	
		POTS	0956.5	0957.8	III	G	2	40X	360	
		IZMI	1003.1	1003.3	III	B	1	30	55	
		ONDR	1007.5	1022.1	DCIM	GG	1	800X	2000X	
		LEAR	1008.0	1022.0	III	N	1	37	180	
		BLEN	1008.3	1016.5	III	GG,C	3	100X	300	
		BLEN	1008.3	1036.3	DCIM	P	3	300	4000X	
		IZMI	1008.4	1009.4	III	G	2	105	270X	
		POTS	1008.4	1009.8	III	G	2	110U	400X	
		ONDR	1013.0	1025.5	DCIM	GG	2	2000X	4500X	
		IZMI	1013.1	1024.1	III	GG	2	25X	270X	
		POTS	1013.3	1023.5	III	GG	3	40X	350	
		IZMI	1016.6U	1044.0	I	N	1	130	270X	
		POTS	1023 U	1050 U	I	S,N	2	200U	300	
		IZMI	1030.5	1030.7	III	B	1	40	75	
		IZMI	1035.0	1036.2	III	GG,FS	2	30	220	
		POTS	1035.2	1036.3	III	G	2	40X	250	
		IZMI	1039.1	1039.4	III	G	1	125	270X	
		POTS	1039.2	1039.5	III	G	1	40X	300	
		IZMI	1121.0	1127.5	III	GG	2	30	190	
		SVTO	1122.0	1127.0	III		1	32U	164U	
		POTS	1122.8	1125.5	III	GG	3	40X	170U	
		IZMI	1123.4	1124.5	V	G	2	60	170	
		IZMI	1155.3	1157.8	III	GG	2	120	190	
		POTS	1155.3	1157.9	I	S	1	110U	170U	
		SVTO	1156.0	1157.0	III		1	116U	153U	
		SVTO	1224.0	1224.0	III		1	30U	45U	
		BLEN	1224.2	1224.8	III	GG,C	2	400	1050	
		POTS	1224.3	1224.4	UNCLF		1	40X	70	
		POTS	1340.3	1349.3	I	S,N	1	110U	220	
		HOLL	1434.0	1441.0	III		1	25	180	
		SGMR	1434.0	1436.0	III		1	30	80	
		SVTO	1434.0	1436.0	III		2	30	166	

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17			POTS	1434.4	1435.8	III	G	3	40X	300	
			BLEN	1434.5	1440.5	III	GG,C	2	100X	4000X	
			POTS	1435.5	1436.8	V		3	40X	70	
			POTS	1438.4	1440.1	I	S,N	1	130	300	
			POTS	1441.8	1442.0	III	B	2	110U	170U	
			POTS	1456.6	1500.3	III	GG	2	40X	300	
			SVTO	1459.0	1520.0	III	N	1	31U	140U	
			BLEN	1512.2	1516.1	DCIM	P	2	600	1200	
			HOLL	1515.0	1515.0	III		1	25	51	
			POTS	1515.5	1516.2	UNCLF		2	40X	60	
			BLEN	1536.3	1537.2	DCIM	C	2	2100	4000X	
			POTS	1600.8	1704 U	I	S,N	1	200U	300	
			HOLL	1628.0	1629.0	III		1	25	162	
			SGMR	1628.0	1629.0	III		2	30	60	
			SVTO	1628.0	1629.0	III		1	33U	151U	
			BLEN	1628.5	1628.9	III	GG	1	100X	620	
			POTS	1628.5	1628.8	III	G	2	40X	350	
			HOLL	1703.0	1705.0	III		2	25	180	
			PALE	1703.0	1704.0	III		1	25	180	
			POTS	1703.5	1703.7	III	B	2	40X	320	
			POTS	1703.7	1704.1	V		2	40X	70	
			PALE	1705.0	1705.0	III		1	35	160	
			POTS	1705.5	1705.7	UNCLF		2	40X	70	
			SGMR	1733.0	1736.0	III		2	30	80	
			HOLL	1830.0	1831.0	III		1	25	136	
			PALE	1830.0	1831.0	III		1	25	94	
			HOLL	1847.0	1850.0	V		2	25	180	
			PALE	1847.0	1850.0	III		3	25	180	
			SGMR	1847.0	1850.0	III		3	30	80	
			PALE	1917.0	1917.0	III		1	25	72	
			HOLL	1926.0	1931.0	V		2	25	180	
			PALE	1926.0	2112.0	III	N	3	25	180	
			SGMR	1927.0	1930.0	III		3	30	80	
	2010	2400	CULG	2021.0	2121.0	III	N	1	57X	130	
			HOLL	2107.0	2112.0	III		1	25	157	
			SGMR	2107.0	2112.0	III		2	30	75	
	2045	2400	HIRA	2111.5	2112.5	III	G	2	30	180	
			CULG	2112.0	2112.0	III	G	1	57X	180	
			CULG	2230.0	2230.0	III	G	1	57X	180	
			HIRA	2230.0	2230.5	III	B	1	30	270	
			HOLL	2230.0	2233.0	III		1	25	164	
			PALE	2230.0	2233.0	III		1	25	150	
			CULG	2305.0	2318.0	III	GG	2	57X	180	
			HIRA	2305.0	2320.0	III	G	2	25X	200	
			HOLL	2305.0	0011.0	III	N	1	25	160	
			LEAR	2305.0	0105.0	III	N	2	25	180	
			PALE	2305.0	0425.0	III	N	2	25	180	
			CULG	2335.0	2336.0	III	G	1	57X	90	
			CULG	2353.0	2354.0	III	G	1	57X	100	
			HIRA	2353.0	2354.5	III	G	2	25X	90	
18	0000	0800	CULG	0021.0	0105.0	III	N	1	57X	180	
			CULG	0045.0	0046.0	III	G	2	57X	420	
			HOLL	0045.0	0048.0	III		1	25	180	
	0000	0848	HIRA	0045.0	0049.0	III	G	2	25X	430	
			CULG	0134.0	0139.0	III	GG	2	57X	420	
			HIRA	0134.0	0139.0	III	G	2	25X	500	
			LEAR	0134.0	0138.0	III		1	25	180	
			CULG	0142.0	0147.0	III	G	3	57X	420	
			HIRA	0142.0	0149.0	III	G	3	25X	500	
			LEAR	0142.0	0147.0	III		2	25	180	
			CULG	0155.0	0228.0	III	N	1	57X	180	
			HIRA	0155.0	0156.5	III	B	1	40	320	
			LEAR	0155.0	0156.0	III		1	37	180	
			HIRA	0205.0	0205.5	III	B	1	40	100	
			LEAR	0205.0	0228.0	III		1	49	103	
			CULG	0212.0	0311.0	IV	FS	1	350	1000	
			LEAR	0215.0	0510.0	IV		1	45	180	
			CULG	0231.0	0413.0	III	S,C	1	57X	180	

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18			LEAR	0338.0	0341.0	III		2	25	180	
			HIRA	0339.5	0341.5	III	G	2	25X	300	
			CULG	0417.0	0423.0	III	G	3	57X	160	
			HIRA	0418.0	0422.0	III	G	3	25X	180	
			LEAR	0418.0	0422.0	III		2	25	180	
			CULG	0429.0	0430.0	III	G	3	57X	180	
			HIRA	0429.0	0430.0	III	B	3	25X	400	
			LEAR	0429.0	0430.0	III		3	25	180	
			LEAR	0454.0	0455.0	III		1	39	103	
			HIRA	0454.5	0455.0	III	B	1	40	100	
			CULG	0517.0	0520.0	III	G	1	57X	140	
			LEAR	0542.0	0542.0	III		1	43	111	
			HIRA	0542.5	0543.0	III	B	1	50	110	
			CULG	0543.0	0800.0D	III	N	1	57X	150	
			SVTO	0543.0	0544.0	III		1	28U	34U	
			LEAR	0603.0	0940.0	III	N	1	25	115	
			HIRA	0611.0	0614.5	III	G	1	30	180	
			SVTO	0611.0	0611.0	III		1	29U	150U	
			SVTO	0612.0	0724.0	III	N	2	33U	174U	
	0530	1710	POTS	0653.8	0654.6	III	G	1	40X	170U	400-800MHz no data
	0650	1200	IZMI	0653.8	0654.6	III	G	2	45	90	
			IZMI	0707.6	0708.6	III	G	1	45	100	
			POTS	0707.6	0707.7	III	B	1	40X	150	
			IZMI	0716.0	0728.7	III	GG	2	25X	270X	
			POTS	0717.5	0724.4	III	GG	3	40X	400X	
			CULG	0719.0	0724.0	III	G	3	57X	180	
			LEAR	0720.0	0723.0	III		2	25	180	
			HIRA	0721.0	0724.0	III	G	3	30	190	
			POTS	0722.4	0724.0	V	G	3	40X	70	
			IZMI	0734.3	0734.5	III	G	1	50	75	
			POTS	0743 U	0756 U	I	S,N	1	200U	270	
			SVTO	0758.0	0841.0	III	N	1	31U	140U	
			IZMI	0758.1	0758.2	III	G	1	50	215	
			POTS	0758.1	0758.3	III	B	1	40X	270	
			IZMI	0801.1	0801.4	III	B	2	40	75	
			POTS	0801.2	0801.4	III	B	1	40X	170U	
			IZMI	0806.2	0811.3	III	GG	2	45	160	
			POTS	0807.7	0812.2	III	GG	2	40X	320	
			IZMI	0811.4	0812.4	III	GG	2	30	240	
			POTS	0828 U	0837 U	I	S,N	1	200U	320	
			IZMI	0835.9	0840.3	III	GG	2	35	155	
			POTS	0837.3	0838.3	III	G	2	40X	170U	
			POTS	0839.1	0840.3	UNCLF		2	40X	70	
			IZMI	0843.3	0844.0	III	G	1	40	75	
			POTS	0912.1	0912.7	UNCLF		1	110U	170U	
			LEAR	0923.0	0927.0	III		2	25	159	
			SVTO	0923.0	0927.0	III		2	29U	130U	
			IZMI	0923.4	0924.6	III	GG	2	25X	270X	
			POTS	0923.4	0924.3	III	G	2	40X	400X	
	0625	1640	BLEN	0923.5	0926.3	III	G,S	1	160	1400	
			POTS	0924 3	0927 U	I	S,N	1	200U	280	
			IZMI	0925.8	0927.5	III	GG	2	25X	270X	
			POTS	0926.2	0927.4	III	GG	3	40X	170U	
			IZMI	0929.4	0929.9	III	G	1	45	75	
			SVTO	0939.0	1100.0	III	N	1	33U	75U	
			IZMI	0939.5	0940.0	III	G	2	50	75	
			POTS	0939.5	0939.9	UNCLF		2	40X	70	
			IZMI	1028.0	1038.1	III	N	2	30	270X	
			POTS	1028.1	1031.7	III	G	2	40X	400X	
			POTS	1034.9	1035.4	UNCLF		1	110U	250	
			POTS	1044.9	1045.8	III	GG	3	40X	400X	
			BLEN	1045.0	1045.7	III	GG	2	100X	700	
			IZMI	1045.0	1045.7	III	G	3	25X	270X	
			SVTO	1045.0	1045.0	III		2	29U	154U	
			IZMI	1054.0	1059.2	III	GG	2	25X	140	
			POTS	1054.0	1102.8	III	GG	1	40X	320	
			POTS	1056.1	1056.5	V		1	40X	70	
			IZMI	1100.2	1101.2	III	G	2	30	90	
			IZMI	1102.8	1102.8	UNCLF		2	110	270X	

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18			IZMI	1110.2	1110.3	III	B	1	40	70	
			SVTO	1116.0	1117.0	III		1	36U	84U	
			IZMI	1116.7	1117.5	III	GG	1	30	110	
			POTS	1116.8	1117.9	UNCLF		1	40X	70	
			IZMI	1133.1	1133.3	III	B,U	2	130	175	
			POTS	1133.1	1133.3	UNCLF		1	130	170U	
			IZMI	1134.9	1135.0	CONT		1	40	55	
			POTS	1134.9	1135.1	UNCLF		1	40X	70	
	0620	1602	ONDR	1142.5	1148.2	DCIM	G	1	2000X	4500X	
			BLEN	1144.4	1153.0	III	GG,C	3	170	4000X	
			POTS	1144.4	1145.6	III	G	1	40X	300	
			IZMI	1144.5	1145.2	III	G,RS	2	170	270X	
			POTS	1241.3	1250 U	I	S,N	2	240	350	
			SGMR	1243.0	1246.0	III		2	30	80	
			SVTO	1243.0	1249.0	III		2	28U	180U	
			POTS	1243.3	1249.3	III	GG	3	40X	400X	
			POTS	1306.9	1318.2	III	GG,N	2	40X	400X	
			SVTO	1307.0	1415.0	III	N	1	35U	134U	
			ONDR	1313.4	1314.1	DCIM	GG	2	1030	2000X	
			POTS	1323.2	1324.9	III	GG	1	110U	250	
			POTS	1330 U	1349 U	I	S,N	1	40X	300	
			BLEN	1347.8	1348.6	III	GG	2	620	1600	
			POTS	1414.5	1416.8	III	G	1	40X	170U	
			POTS	1430 U	1640 U	I	S,N	1	200U	400X	
			HOLL	1521.0	1525.0	III		1	25	149	
			HOLL	1543.0	1650.0	III	N	1	25	180	
			SVTO	1545.0	1551.0	III		1	34U	84U	
			SGMR	1546.0	1549.0	III		2	30	50	
			POTS	1546.8	1548.2	III	G	1	40X	170U	
			BLEN	1550.2	1605.2	III	GG,S	2	320	460	
			SGMR	1603.0	1606.0	III		2	30	50	
			POTS	1603.9	1606.0	III	GG	2	40X	300	
			SVTO	1604.0	1606.0	III		1	31U	176U	
			BLEN	1623.2	1624.1	DCIM	S,P	3	320	4000X	
			HOLL	1837.0	1842.0	III		1	25	125	
			SGMR	1839.0	2012.0	III	N	2	30	80	
			HOLL	1904.0	1925.0	III	N	1	25	180	
			PALE	1907.0	2049.0	III	N	1	25	180	
			HOLL	2011.0	2014.0	III		1	25	88	
	2010	2400	CULG	2012.0	2026.0	III	G	1	57X	160	
			CULG	2048.0	2050.0	III	G	1	57X	90	
			CULG	2138.0	2138.0	III	G	1	57X	90	
			CULG	2150.0	2151.0	III	G	1	150	750	
			CULG	2155.0	2210.0	III	GG	1	57X	90	
			CULG	2200.0	2206.0	III	GG	2	57X	450	
			HOLL	2200.0	2326.0	III	N	1	25	180	
	2043	2400	HIRA	2200.5	2206.5	III	G	1	25X	280	
			CULG	2223.0	2231.0	III	G	1	57X	150	
			HIRA	2223.0	2230.0	III	G	1	25X	110	
			CULG	2229.0	2322.0	I	S	1	110	180	
			LEAR	2243.0	0014.0	CONT		1	113	180	
			CULG	2256.0	2257.0	III	G	1	57X	80	
			LEAR	2302.0	2303.0	III		1	35	111	
			HIRA	2302.5	2303.0	III	B	2	25X	110	
			CULG	2303.0	2303.0	III	B	1	57X	140	
			CULG	2358.0	2358.0	III	B	1	57X	450	
19	0000	0800	CULG	0006.0	0009.0	III	G	1	57X	150	
			LEAR	0008.0	0009.0	III		1	35	122	
	0000	0848	HIRA	0008.0	0009.0	III	B	1	30	140	
			CULG	0104.0	0121.0	III	GG	1	57X	150	
			LEAR	0104.0	0118.0	III		1	29	99	
			CULG	0157.0	0202.0	III	G	2	57X	180	
			LEAR	0157.0	0205.0	III		1	25	179	
			HIRA	0158.0	0201.5	III	G	1	25X	230	
			CULG	0204.0	0206.0	III	G	1	57X	140	
			HIRA	0205.0	0205.5	III	B	1	50	200	
			CULG	0233.0	0354.0	III	N	1	57X	90	
			HIRA	0327.0	0327.5	III	B	1	40	70	

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19			LEAR	0403.0	0419.0	III		1	25	180	
			HIRA	0403.5	0407.0	III	G	2	25X	360	
			CULG	0404.0	0407.0	III	G	2	57X	230	
			CULG	0408.0	0440.0	III	N	1	57X	180	
			HIRA	0418.0	0420.0	III	G	1	30	150	
			LEAR	0421.0	0551.0	III	N	1	25	180	
			CULG	0505.0	0507.0	III	G	1	57X	150	
			CULG	0517.0	0521.0	III	GG	1	57X	200	
			HIRA	0517.0	0521.0	III	G	2	30	260	
			SVTO	0517.0	0519.0	III		1	32	174	
			CULG	0550.0	0552.0	III	G	1	57X	120	
	0530	1715	POTS	0612 U	1636 U	I	S,N,DC	2	110U	360	400-800MHz no data
	0655	1222	IZMI	0655.0E	1222.0D	I	N	2	120	270X	
			SVTO	0705.0	0746.0	III	N	1	28	136	
			LEAR	0724.0	0734.0	III	N	1	32	180	
			IZMI	0724.5	0730.7	III	G	1	45	140	
			CULG	0726.0	0734.0	III	G	1	57X	160	
			HIRA	0726.5	0733.5	III	G	1	40	190	
			IZMI	0732.4	0733.2	III	G,FS	2	40	160	
			POTS	0732.4	0732.7	III	G	1	40X	170U	
			IZMI	0814.7	0818.5	III	GG	1	45	75	
			LEAR	0905.0	1009.0	CONT		1	105	180	
			IZMI	0936.0U	1037.0U	III	N	1	40	90	
			LEAR	0937.0	0942.0	III		1	47U	77U	
			IZMI	1017.0	1017.3	III	B	2	25	95	
			POTS	1017.0	1017.2	III	B	1	40X	140	
			SVTO	1017.0	1041.0	III	N	2	28U	175U	
			POTS	1024.1	1034.5	III	GG	3	40X	360	
			IZMI	1024.3	1027.2	III	GG	2	25X	270X	
	0625	1640	BLEN	1024.7	1035.0	III	GG,RS	2	100X	900	
			IZMI	1027.4	1030.0	III	GG	2	25X	270X	
			IZMI	1034.0	1034.5	III	G	2	50	175	
			POTS	1041.3	1041.6	III	B	1	40X	150	
			IZMI	1041.4	1041.6	III	G	2	30	150	
			IZMI	1046.0	1047.9	III	G	1	45	90	
	0617	1603	ONDR	1101.4	1154.0	DCIM	GG	1	2000X	4500X	
			ONDR	1106.3	1154.0	DCIM	GG	2	800X	2000X	
			IZMI	1120.6	1128.9	III	N	2	90	270X	
			SVTO	1123.0	1149.0	III	N	1	75	151	
			BLEN	1123.7	1140.0	DCIM	P	3	370	600	
			IZMI	1129.3	1136.9	III	GG	2	60	210	
			IZMI	1142.8	1222.0D	III	N	1	45	90	
			POTS	1148 U	1210 U	UNCLF		1	40X	70	
			ONDR	1154.0	1222.3	DCIM	GG	1	2000X	4500X	
			ONDR	1155.3	1208.5	DCIM	G	1	800X	2000X	
			POTS	1218.0	1221.2	III	GG	3	40X	400X	
			SVTO	1218.0	1221.0	III		2	28U	148U	
			IZMI	1218.1	1219.2	III	GG	2	25X	270X	
			SGMR	1220.0	1221.0	III		3	30	80	
			IZMI	1220.1	1221.2	III	G	2	25X	140	
			HOLL	1455.0	1506.0	III	N	1	25	167	
			SVTO	1455.0	1505.0	III	N	1	25U	180U	
			POTS	1455.7	1503.2	III	GG	2	40X	300	
			SVTO	1536.0	1536.0	III		1	38	63	
			HOLL	1557.0	1605.0	III		1	25	86	
			SVTO	1557.0	1558.0	III		1	40U	83U	
			SGMR	1558.0	1558.0	III		1	35	50	
			SVTO	1605.0	1605.0	III		1	46	82	
			HOLL	1809.0	1809.0	III		1	25	86	
			PALE	1809.0	1809.0	III		1	25	84	
			SGMR	1810.0	1810.0	III		1	30	55	
			HOLL	1939.0	1941.0	III		1	25	118	
			PALE	1940.0	0426.0	III	N	1	25	180	
			PALE	1940.0	2008.0	III	N	1	25	80	
	2010	2400	CULG	2022.0	2024.0	III	G	2	57X	130	
			HOLL	2122.0	2125.0	III		1	25	125	
	2042	2400	HIRA	2122.0	2123.5	III	G	1	30	110	
			CULG	2133.0	2205.0	I	S	1	110	160	
			SGMR	2143.0	2144.0	III		1	30	53	

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19			PALE	2200.0	0426.0	III	N	1	25	180	
			CULG	2303.0	2304.0	III	G	1	57X	140	
			LEAR	2332.0	2351.0	III	N	1	37	180	
			CULG	2335.0	2351.0	III	N	1	57X	230	
			HIRA	2337.0	2338.0	III	B	1	25X	200	
			HOLL	2337.0	2337.0	III		1	25	88	
20			LEAR	0000.0	0005.0	III		1	25	180	
	0000	0050	HIRA	0000.0	0005.5	III	G	2	25X	500	
	0000	0800	CULG	0000.0	0002.0	III	G	3	57X	180	
			CULG	0005.0	0005.0	III	G	1	57X	300	
			LEAR	0037.0	0037.0	III		1	37	103	
			CULG	0145.0	0145.0	III	B	1	57X	100	
			CULG	0220.0	0800.0D	III	S,C	1	57X	180	
			LEAR	0226.0	0919.0	CONT		1	88	180	
			CULG	0253.0	0254.0	III	G	1	110	250	
			CULG	0346.0	0527.0	I	S	1	80	180	
			LEAR	0438.0	0438.0	III		1	25	50	
			LEAR	0451.0	0451.0	III		1	25	75	
	0100	0846	HIRA	0451.5	0452.0	III	B	2	30	70	
	0525	1715	POTS	0551 U	1144 U	I	S,N	2	110U	400X	400-800MHz no data
			LEAR	0551.0	0553.0	III		1	25	131	
			SVTO	0551.0	0553.0	III		1	25	138	
			HIRA	0551.5	0553.5	III	G	1	25X	200	
			SVTO	0612.0	0911.0	CONT		1	25	180	
	0615	1605	ONDR								
			LEAR	0628.0	0629.0	III		1	25	180	
			CULG	0657.0	0657.0	III	B	1	60	400	
			HIRA	0657.0	0657.5	III	B	1	100	500	
			POTS	0657.1	0657.3	DCIM		3	150	400X	
	0700	1200	IZMI	0700.0E	0930.0U	I	S	2	60	250	
			LEAR	0717.0	0838.0	III	N	1	25	180	
			IZMI	0717.2	0719.1	III	G	2	25X	180	
			POTS	0717.6	0718.8	III	G	2	40X	240	
			IZMI	0726.8	0730.0	III	GG	2	40	150	
			POTS	0728.7	0728.9	III	B	1	40X	150	
			HIRA	0742.0	0744.5	II		1	90	120	
			LEAR	0742.0	0745.0	II		1	85	86	ESS 0898
			LEAR	0742.0	0745.0	II		1	85	130	ESS 0898
			IZMI	0742.1	0744.3	I	GG,DC	2	90	150	
			SVTO	0808.0	0808.0	III		1	25	82	
			IZMI	0808.4	0808.9	III	GG	2	30	270X	
			POTS	0808.4	0808.8	III	B	2	40X	300	
			HIRA	0808.5	0809.0	III	B	2	30	80	
			SVTO	0837.0	0838.0	III		1	25	82	
			IZMI	0837.7	0838.2	III	G	2	30	270X	
			POTS	0837.8	0838.1	III	G	2	40X	300	
			HIRA	0838.0	0838.5	III	B	1	30	260	
			IZMI	0908.8	0910.2	III	G	1	145	270X	
			LEAR	0910.0	0916.0	III		1	25	127	
			IZMI	0910.3	0911.3	III	G	2	30	155	
			POTS	0910.6	0911.4	III	G	2	40X	150	
			IZMI	0914.7	0917.6	III	G	2	35	270X	
			POTS	0916.5	0916.9	III	G	2	40X	240	
			IZMI	0935.6	0938.3	III	GG	2	110	270X	
			LEAR	0949.0	0949.0	III		1	25	180	
			IZMI	0949.2	0949.9	III	G,C	2	25X	270X	
			POTS	0949.2	0950.0	III	G	3	40X	320	
			IZMI	0953.2	0953.3	III	B	1	50	75	
			IZMI	1023.5	1024.3	III	G	1	150	270X	
			IZMI	1033.0	1033.5	III	G,C	2	30	150	
			POTS	1033.0	1033.4	III	G	2	40X	150	
			SVTO	1033.0	1033.0	III		1	25	140	
			SVTO	1225.0	1229.0	III		1	33U	180U	
			POTS	1225.7	1230.3	III	GG	3	40X	400X	
	0625	1640	BLEN	1225.7	1229.7	III	GG,C,S	3	100X	2300	
			POTS	1230 U	1329 U	I	S,N	1	110U	280	
			BLEN	1322.9	1323.6	III	G	1	180	300	
			HOLL	1402.0	1412.0	III	N	1	25	157	

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20		SGMR	1402.0	1408.0	III		2	30	80	
		SVTO	1402.0	1408.0	III		2	25	170	
		POTS	1402.2	1408.4	III	GG	3	40X	320	
		BLEN	1406.6	1408.4	III	GG,RS	2	100X	400	
		SVTO	1412.0	1412.0	III		1	25	81	
		HOLL	1447.0	1507.0	III	N	1	25	180	
		SVTO	1447.0	1449.0	III		1	25	150	
		POTS	1447.4	1449.2	UNCLF		2	40X	140	
		SVTO	1500.0	1507.0	III		1	25	82	
		POTS	1500.7	1502.7	III	G	2	40X	150	
		POTS	1506.0	1506.2	III	B	1	40X	150	
		POTS	1518 U	1615 U	I	S,N,DC	2	110U	350	
		SVTO	1542.0	1606.0	III	N	1	25U	83U	
		HOLL	1724.0	1731.0	III		1	25	162	
		PALE	1728.0	1729.0	III		1	25	180	
		SGMR	1728.0	1729.0	III		1	30	60	
		HOLL	1921.0	0100.0	III	N	1	25	162	
2010	2400	CULG	2010.0E	2350.0	III	S,C	1	57X	180	
		PALE	2050.0	0317.0	III	N	2	25	180	
		HOLL	2110.0	0015.0	CONT		1	66	180	
		CULG	2143.0	2144.0	III	G	1	100	300	
2040	2400	HIRA	2143.0	2143.5	III	B	2	130	410	
		SGMR	2146.0	2146.0	III		1	30	50	
		CULG	2338.0	2339.0	III	G	2	57X	330	
		HIRA	2338.0	2339.0	III	B	3	25X	400	
		LEAR	2338.0	2338.0	III		2	25	180	
		HOLL	2350.0	0005.0	III	N	1	25	180	
		LEAR	2359.0	0110.0	CONT		1	104	180	
21		LEAR	0003.0	0009.0	III		2	25	180	
0000	0800	CULG	0003.0	0034.0	III	S,C	1	57X	90	
0000	0850	HIRA	0005.0	0009.0	III	G	2	25X	280	
		CULG	0006.0	0009.0	III	G	3	57X	280	
		LEAR	0009.0	0803.0	CONT		1	41	180	
		CULG	0040.0	0041.0	III	G	1	57X	520	
		HIRA	0040.0	0041.0	III	B	1	50	230	
		CULG	0045.0	0800.0D	I	S,C	1	60	140	
		CULG	0125.0	0800.0D	III	N	1	57X	250	
		LEAR	0135.0	0135.0	III		2	48	143	
		HIRA	0135.5	0140.0	III	G	3	40	200	
		HIRA	0152.5	0153.5	III	B	1	70	310	
		CULG	0153.0	0153.0	III	G	1	70	290	
0525	1720	POTS	0547 U	1615 U	I	S,N,DC,C	2	40X	280	400-800MHz no data
		SVTO	0611.0	0805.0	CONT		1	25U	180U	
0613	1606	ONDR								
0625	1640	BLEN								
		IZMI	0700.0E	0750.0U	III	N	1	45	150	
0700	1200	IZMI	0700.0E	1200.0D	I	S	2	90	270X	
		IZMI	0702.1	0703.8	III	G	2	30	150	
		HIRA	0703.0	0703.5	III	B	1	50	100	
		LEAR	0703.0	0703.0	III		1	25	150	
		SVTO	0703.0	0703.0	III		1	25	180	
		LEAR	0728.0	0742.0	III	N	1	25	180	
		SVTO	0728.0	0742.0	III	N	2	25	180	
		IZMI	0728.6	0729.1	III	G	2	40	70	
		IZMI	0737.0	0740.0	III	GG	2	25X	185	
		HIRA	0737.5	0740.0	III	G	1	30	180	
		CULG	0738.0	0740.0	III	G	2	57X	150	
		POTS	0738.8	0739.9	III	G	2	40X	200U	
		IZMI	0740.5	0743.3	III	G	2	25X	75	
		IZMI	0755.2	0755.5	III	G	1	180	215	
		IZMI	0843.1	0843.2	III	G,DP	2	30	65	
		LEAR	0852.0	0939.0	III	N	1	25	109	
		SVTO	0852.0	0852.0	III		1	66U	144U	
		IZMI	0852.4	0852.6	III	B,FS	1	40	75	
		SVTO	0853.0	0852.0	III		1	66U	144U	
		IZMI	0859.0	0859.5	III	G	1	55	75	
		IZMI	0901.4	0901.5	III	G,FS	2	30	75	
		IZMI	0916.9	0917.4	III	G	1	45	75	

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21			IZMI	0926.4	0926.8	III	G	2	30	90	
			IZMI	0928.4	0928.5	III	B	1	45	70	
			IZMI	0939.4	0940.0	III	G,FS	1	40	170	
			IZMI	0953.5	0953.6	III	B	1	30	70	
			LEAR	1006.0	1006.0	III		1	25	180	
			SVTO	1006.0	1007.0	III		1	25	180	
			IZMI	1006.7	1007.2	III	G,FS	2	25X	135	
			POTS	1006.7	1006.9	III	G	3	40X	300	
			POTS	1006.8	1007.2	V		2	40X	70	
			IZMI	1011.7	1013.9	III	G	1	40	55	
			POTS	1019.7	1032.5	III	GG	3	40X	280	
			IZMI	1019.8	1022.5	III	GG	2	25X	270X	
			SVTO	1021.0	1139.0	III	N	1	25	180	
			IZMI	1023.8	1024.9	III	G	2	30	180	
			IZMI	1025.9	1033.4	III	S	2	25X	210	
			IZMI	1107.4	1111.1	III	GG	2	25X	90	
			SVTO	1242.0	1245.0	III		1	28	84	
			HOLL	1431.0	1431.0	III		1	25	167	
			SVTO	1431.0	1431.0	III		1	25	180	
			POTS	1431.1	1431.3	III	B	2	40X	220	
			SGMR	1443.0	1448.0	III		1	30	80	
			HOLL	1452.0	1458.0	III		1	25	180	
			SVTO	1452.0	1458.0	III		1	25	180	
			POTS	1452.8	1453.7	III	G	3	40X	200U	
			POTS	1452.9	1453.9	V		3	40X	90U	
			POTS	1458.3	1458.8	III	G	2	40X	240	
			HOLL	1645.0	1648.0	III		1	25	132	
			HOLL	1841.0	2130.0	CONT		1	96	180	
			HOLL	1842.0	1843.0	III		1	25	127	
	2010	2400	CULG	2010.0E	2400.0D	I	S,C	1	100	180	
			CULG	2207.0	2208.0	III	G	1	57X	460	
			HOLL	2207.0	2209.0	III		1	25	180	
			PALE	2207.0	2208.0	III		1	25	67	
	2039	2400	HIRA	2207.0	2208.0	III	B	1	25X	500	
			LEAR	2243.0	1018.0	CONT		1	64	180	
			CULG	2255.0	2255.0	III	B	1	57X	90	
			CULG	2320.0	2330.0	III	G	1	57X	120	
			HIRA	2320.0	2320.5	III	B	1	50	110	
			HOLL	2320.0	0030.0	III	N	1	25	110	
22	0000	0800	CULG	0000.0E	0800.0D	I	S,C	1	80	180	
			CULG	0056.0	0056.0	III	B	1	57X	230	
	0000	0851	HIRA	0056.0	0056.5	III	B	1	50	200	
			CULG	0247.0	0247.0	III	B	1	65	150	
			CULG	0526.0	0601.0	III	N	1	57X	140	
			LEAR	0526.0	0527.0	III		1	25	170	
			HIRA	0526.5	0527.5	III	G	1	50	140	
			SVTO	0539.0	0539.0	III		1	81U	86U	
			LEAR	0542.0	0544.0	III		1	25	102	
			HIRA	0544.0	0544.5	III	B	1	40	120	
			LEAR	0600.0	0601.0	III		1	68	160	
	0520	1720	POTS	0606 U	1041 U	I	S,N,DC	1	110U	320	
	0625	1640	BLEN								
			LEAR	0638.0	0641.0	III		1	25	180	
			HIRA	0638.5	0641.0	III	G	2	40	210	
			CULG	0639.0	0641.0	III	G	2	57X	180	
			SVTO	0639.0	0640.0	III		1	28U	151U	
			POTS	0639.4	0640.6	III	G	3	40X	240	
	0650	1200	IZMI	0650.0E	0830.0U	I	N	1	110	170	
			SVTO	0745.0	0746.0	III		1	71U	176U	
			IZMI	0936.6	0936.9	III	B	1	30	90	
			IZMI	1010.7	1013.0	I	GG	1	190	260	
			IZMI	1047.0	1048.1	II	HARM	2	105	210	
			POTS	1047.0	1049.8	II		2	40X	220	
			IZMI	1047.1	1048.1	III	G	2	40	210	
	0610	1608	ONDR	1047.5	1114.3	DCIM	G	1	2000X	4500X	
			IZMI	1048.3	1049.9	I	GG	2	130	160	
			IZMI	1048.9	1049.1	III	G,FS	2	120	205	
			POTS	1048.9	1049.1	III	B	2	110U	220	

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Day	OBSERVATION Start (UT)	OBSERVATION End (UT)	Sta	EVENT Start (UT)	EVENT End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	FREQUENCY Upper (MHz)	Remarks
22			POTS	1052.1	1154 U	IV		2	40X	200U	
			IZMI	1104.0U	1200.0D	I	S	1	100	170	
			IZMI	1105.1	1108.3	III	G	1	45	90	
			IZMI	1108.4	1110.6	II		1	55	70	
			IZMI	1111.1	1111.6	III	B	2	50	160	
			POTS	1154 U	1410 U	I	S,N,C	1	110U	300	
			POTS	1253 U	1301 U	UNCLF		2	40X	150	
			SGMR	1253.0	1256.0	III		1	30	80	
			POTS	1307.3	1307.8	III	B	2	40X	150	
	2038	2400	HIRA								
			LEAR	2254.0	1016.0	CONT		1	72	180	
	2010	2400	CULG	2353.0	2354.0	III	G	1	57X	90	
23	0000	0852	HIRA								
	0000	0800	CULG	0229.0	0229.0	III	B	1	57X	90	
			CULG	0330.0	0330.0	III	G	1	57X	90	
			CULG	0456.0	0456.0	III	G	1	57X	90	
	0608	1610	ONDR								
	0700	1200	IZMI	0700.0E	0840.0U	I	N	1	110	250	
	0520	1725	POTS	0703 U	0921 U	I	S,N,DC,DP	1	110U	280	
			IZMI	0742.4	0742.9	III	G	1	180	210	
			IZMI	0908.9	0920.0	I	N	1	110	170	
			IZMI	0913.7	0913.9	III	B	1	40	90	
			IZMI	0923.5	0923.8	III	G	1	220	270X	
			POTS	0923.5	0926.5	DCIM		2	200U	330	
			IZMI	0926.4	0926.5	III	B	1	220	270X	
			POTS	0951.9	0954.6	III	G	2	110U	380	
			IZMI	0953.0	0953.9	III	GG	2	110	270X	
	0615	1645	BLEN	0953.0	0954.6	III	GG	2	200	430	
			IZMI	1014.4	1015.1	I	GG	2	160	180	
			POTS	1243.7	1243.8	UNCLF		1	150	250	
			BLEN	1421.5	1423.5	III	GG,S	2	200	460	
			POTS	1421.5	1421.8	III	G	1	110U	400U	
			POTS	1444.5	1445.3	DCIM		2	260	420	
	2010	2400	CULG								
	2036	2400	HIRA								
			HOLL	2225.0	2230.0	III		1	25	88	
			LEAR	2244.0	2321.0	CONT		1	54U	180U	
			LEAR	2353.0	2353.0	III		1	28	101	
24	0000	0800	CULG	0453.0	0455.0	III	G	1	57X	160	
	0000	0853	HIRA	0453.0	0453.5	III	B	1	60	130	
			CULG	0512.0	0513.0	III	G	1	57X	110	
			HIRA	0512.0	0512.5	III	B	1	30	110	
	0606	1611	ONDR								
	0615	1645	BLEN								
	0650	1200	IZMI	0747.8	0747.9	III	B	1	40	90	
			CULG	0750.0	0750.0	III	G	1	57X	90	
			HIRA	0750.0	0750.5	III	B	1	30	120	
			IZMI	0750.2	0750.4	III	B	1	25X	90	
	0515	1725	POTS	1002.5	1018 U	I	S,N	1	200U	320	
			IZMI	1048.6	1049.3	III	G	2	25X	205	
			POTS	1048.7	1049.3	III	G,W	1	40X	170U	
			POTS	1203.9	1205.0	III	G	1	40X	220	
			SVTO	1204.0	1205.0	III		1	29U	83U	
			POTS	1205.0	1523 U	I	S,N	1	140	320	
			POTS	1241.1	1542.1	III	G	1	40X	170U	
			HOLL	1541.0	1542.0	III		1	25	160	
			SVTO	1541.0	1542.0	III		1	42	151	
			HOLL	1944.0	1945.0	III		1	25	180	
			PALE	1944.0	1945.0	III		1	25	180	
			SGMR	1944.0	1945.0	III		2	30	80	
	2010	2400	CULG								
	2034	2400	HIRA								
			SGMR	2044.0	2045.0	III		2	30	80	
25	0000	0800	CULG	0038.0	0038.0	III	G	1	57X	180	
			CULG	0432.0	0432.0	III	G	1	57X	90	
			LEAR	0522.0	0523.0	III		1	42	101	

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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
25			SVTO	0522.0	0523.0	III		1	47U	65U	
	0000	0854	HIRA	0522.5	0523.0	III	B	1	50	160	
			CULG	0523.0	0524.0	III	G	1	57X	130	
	0515	1730	POTS	0611 U	0613 U	I	S	1	200U	280	
			LEAR	0637.0	0637.0	III		1	45	102	
			SVTO	0637.0	0637.0	III		1	44U	64U	
			HIRA	0637.5	0638.0	III	B	1	50	200	
			CULG	0638.0	0638.0	III	B	1	57X	90	
			POTS	0653.5	0654.0	III	G	1	110U	300	
			CULG	0654.0	0654.0	III	B	1	57X	150	
	0604	1613	ONDR	1034.2	1037.3	DCIM	GG	2	2000X	4500X	
			ONDR	1034.4	1038.0	DCIM	GG	1	800X	2000X	
	0615	1645	BLEN	1034.7	1038.0	III	GG,C	3	400	4000X	
			SVTO	1050.0	1050.0	III		1	30	43	
	0700	1200	IZMI	1050.2	1050.6	III	B	1	30	90	
			POTS	1321.3	1325.9	I	S	2	200U	300	
			SVTO	1322.0	1325.0	III		1	110U	180U	
			POTS	1322.7	1325.8	III	G	2	110U	300	
			POTS	1412.2	1501 U	I	S,N	1	200U	280	
			POTS	1516.7	1516.8	III	B,W	1	110U	240	
	2033	2400	HIRA								
	2020	2400	CULG	2144.0	2144.0	III	B	1	57X	180	
			CULG	2159.0	2159.0	III	B	1	57X	90	
			CULG	2205.0	2208.0	III	G	1	57X	170	
			LEAR	2245.0	0048.0	CONT		1	25	52	
26			SVTO	.0	1645.0	III	N	1	25	180	
			HOLL	0006.0	0006.0	III		1	51	85	
	0000	0800	CULG	0006.0	0008.0	III	G	1	57X	160	
	0000	0855	HIRA	0006.0	0006.5	III	B	1	50	100	
			CULG	0035.0	0035.0	III	B	1	57X	90	
			CULG	0052.0	0052.0	III	B	1	80	160	
			CULG	0105.0	0106.0	III	G	1	57X	120	
	0602	1615	ONDR								
	0650	1200	IZMI	0730.0	0730.4	III	B	1	45	75	
	0510	1730	POTS	0841.4	1018 U	I	S,N	1	110U	220	
			IZMI	0905.5	0906.3	III	G	1	110	175	
			LEAR	0919.0	0919.0	III		1	39	180	
			SVTO	0919.0	0919.0	III		1	66	180	
			IZMI	0919.2	0919.7	III	G,U	2	40	270X	
			POTS	0919.2	0919.4	III	G	3	40X	350	
			POTS	0919.3	0919.7	V		2	40X	70	
			IZMI	0924.7	0924.9	III	B	1	90	270X	
			IZMI	0938.5	0938.6	III	B	1	50	75	
			IZMI	0942.2	0942.6	III	B	1	50	75	
			IZMI	1115.8	1115.9	III	B	1	40	75	
			POTS	1155.0	1155.5	UNCLF		1	110U	170U	
			POTS	1209.1	1211.6	III	G	2	40X	170U	
			POTS	1209.3	1209.6	V		2	40X	70	
			POTS	1248.6	1251.7	III	G	2	40X	170U	
			SVTO	1251.0	1251.0	III		1	25	52	
			POTS	1321.9	1322.2	III	G,W	1	40X	150	
			HOLL	1453.0	1454.0	III		1	103	180	
			POTS	1509.0	1529.2	I	S	1	140	370	
	0615	1645	BLEN	1509.5	1518.6	DCIM	P	2	160	600	
			HOLL	1514.0	1745.0	III	N	1	25	130	
			SVTO	1515.0	1523.0	III		1	25	78	
			POTS	1548.7	1548.8	III	B	1	110U	240	
			SGMR	1606.0	1607.0	III		1	30	80	
			POTS	1606.3	1606.8	III	G,U	2	40X	150	
			POTS	1618.2	1618.4	III	G	2	110U	170U	
			HOLL	1909.0	1910.0	III		1	25	70	
			PALE	1909.0	1910.0	III		1	25	63	
			SGMR	1909.0	1910.0	III		1	30	80	
			PALE	1915.0	2205.0	III	N	1	25	180	
			HOLL	2023.0	2025.0	III		1	25	180	
			SGMR	2023.0	2025.0	III		3	30	80	
	2020	2400	CULG	2023.0	2025.0	III	G	3	57X	180	
	2031	2400	HIRA								

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26			CULG	2031.0	2032.0	III	G	1	57X	90	
			HOLL	2044.0	2045.0	III		1	25	55	
27	0000	0800	CULG								
	0000	0855	HIRA								
			LEAR	0009.0	0310.0	III	N	1	45	180	
	0559	1616	ONDR								
	0510	1735	POTS	0837.9	0838 1	DCIM		1	200U	300	
	0702	1200	IZMI	0838.0	0838.1	III	B	1	185	270x	
			POTS	1136	1302	I	S,N	2	110U	340	
			SVTO	1242.0	1242.0	III		1	73U	147U	
			POTS	1242.5	1242 7	III	B	2	110U	400	
			SVTO	1254.0	1256.0	V		1	30U	149U	
			POTS	1254.2	1254 7	III	G	2	40X	300	
			POTS	1254.4	1255 6	V		2	40X	70	
			SGMR	1255.0	1255.0	V		1	30U	55U	
	0600	1650	BLEN	1255.9	1258.1	DCIM	P	1	140	900	
			SVTO	1259.0	1302.0	III		1	74U	175U	
			HOLL	1437.0	1442.0	III		1	25	162	
			SVTO	1440.0	1442.0	III		1	29U	60U	
			POTS	1440.7	1442 7	UNCLF		2	40X	150	
			SGMR	1441.0	1443.0	III		2	30	55	
	2020	2400	CULG								
	2030	2400	HIRA								
28	0000	0800	CULG								
	0000	0856	HIRA								
	0505	1735	POTS	0536 U	1655 U	I	S,N,C	1	110U	360	400-800MHz no data
	0600	1700	BLEN								
	0700	1200	IZMI	0700.0E	1200.0D	I	S	2	120	270X	
			LEAR	0821.0	0823.0	III		1	25	62	
			SVTO	0821.0	0823.0	III		1	28U	56U	
			IZMI	0821.8	0823.1	III	G,C	2	25 X	70	
			POTS	0822.5	0822.8	UNCLF		2	40X	60	
	0557	1618	ONDR	1137.4	1138.2	DCIM	W	1	2000X	4500X	
			HOLL	1450.0	1450.0	III		1	25	91	
	2020	2400	CULG								
	2028	2400	HIRA								
29	0000	0800	CULG	0045.0	0045.0	III	B	1	57X	180	
			CULG	0500.0	0605.0	I	S	1	110	170	
	0505	1740	POTS	0532 U	1710 U	I	S,N	2	110U	320	400-800MHz no data
	0555	1619	ONDR								
			POTS	0651.9	0653.3	III	G	2	40X	300	
			CULG	0652.0	0653.0	III	G	1	57X	180	
			LEAR	0652.0	0653.0	III		1	30	180	
			SVTO	0652.0	0653.0	III		1	35U	75U	
	0704	1200	IZMI	0704.0E	1200.0D	I	N	1	140	270X	
			SVTO	0802.0	0937.0	III	N	1	25	180	
			LEAR	0833.0	0834.0	III		1	30	180	
	0000	0857	HIRA	0833.5	0834.0	III	B	1	50	200	
			POTS	0833.7	0834.0	III	B	2	40X	320	
			IZMI	0833.8	0834.1	III	G	2	30	180	
			IZMI	0952.0	1034.0	I	S	2	160	270X	
			SVTO	1018.0	1018.0	III		1	33U	41U	
			IZMI	1149.3	1149.5	III	B	1	30	90	
			POTS	1149.3	1149.5	III	B	1	40X	150	
	0600	1700	BLEN	1241.7	1250.7	DCIM	P	1	140	4000X	
			SVTO	1242.0	1258.0	III	N	1	25	180	
			POTS	1242.8	1247.6	III	GG	3	40X	320	
			SGMR	1244.0	1246.0	III		1	30	80	
			POTS	1257.2	1257.4	III	B	2	40X	220	
			PALE	1929.0	1930.0	III		1	25	54	
			HOLL	1930.0	1930.0	III		1	25	84	
			SGMR	1930.0	1930.0	III		1	30	60	
			LEAR	2234.0	0020.0	CONT		1	131	180	
			HOLL	2259.0	2300.0	III		1	25	85	
			HOLL	2259.0	2314.0	III	N	1	25	180	
			LEAR	2259.0	2300.0	III		1	32	102	

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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	2020	2400	CULG	2259.0	2300.0	III	G	1	57X	100	
	2027	2400	HIRA	2259.5	2300.0	III	B	1	40	70	
			CULG	2312.0	2314.0	III	G	1	57X	260	
			HIRA	2312.0	2313.5	III	G	1	100	320	
			LEAR	2312.0	2313.0	III		1	39	180	
			LEAR	2312.0	2313.0	III		1	91	180	
			PALE	2313.0	2314.0	III		1	25	180	
30			LEAR	0114.0	1010.0	CONT		1	103	180	
	0000	0800	CULG	0114.0	0114.0	III	B	1	130	200	
			CULG	0215.0	0218.0	III	G	1	57X	90	
			LEAR	0217.0	0218.0	III		1	25	88	
	0000	0858	HIRA	0217.5	0218.0	III	B	1	40	70	
			CULG	0241.0	0241.0	III	B	1	57X	90	
			LEAR	0247.0	0253.0	III		1	25	180	
			PALE	0247.0	0249.0	III		1	25	87	
			CULG	0248.0	0250.0	III	G	1	57X	200	
			HIRA	0248.0	0249.5	III	G	1	25X	340	
			CULG	0253.0	0253.0	III	B	1	70	100	
			CULG	0410.0	0800.0D	I	S	1	110	170	
	0500	1740	POTS	0548 U	0956 U	I	S,N,DC,C	2	110U	300	400-800MHz no data
			CULG	0552.0	0553.0	III	G	1	57X	130	
			POTS	0552.0	0552.2	III	B	2	40X	250	
	0553	1621	ONDR	0649.3	0650.2	DCIM	GG,SP	2	959	1831	
	0652	1200	IZMI	0652.0E	0935.0U	I	N	2	120	270X	
			CULG	0726.0	0729.0	III	G	1	57X	130	
			LEAR	0726.0	0728.0	III		1	25	75	
			SVTO	0726.0	0728.0	III		1	40U	65U	
			HIRA	0726.5	0729.0	III	G	1	50	200	
			IZMI	0726.5	0728.6	III	G	2	35	80	
			POTS	0726.5	0728.6	III	G,W	1	40X	150	
			IZMI	0904.0	0904.1	III	B	1	45	75	
			ONDR	1157.4	1159.2	DCIM	GG	2	1180	1948	
			ONDR	1256.5	1259.0	DCIM		1	2000X	4500X	
	0600	1700	BLEN	1256.9	1259.1	DCIM	C	2	1600	4000X	
			POTS	1321.5	1403.7	I	S,N	1	200U	280	
			BLEN	1440.2	1442.6	III	GG	2	190	500	
			POTS	1442.2	1442.5	DCIM		1	200U	400X	
			BLEN	1538.3	1540.6	III	GG	2	190	500	
			POTS	1538.3	1540.6	DCIM		2	140	400X	
			ONDR	1548.1	1548.3	DCIM	G	2	800X	912	
			POTS	1648.1	1648.2	DCIM		1	220	320	
			HOLL	1823.0	1824.0	III		1	25	150	
			PALE	1823.0	1823.0	III		1	25	146	
			SGMR	1823.0	1823.0	III		1	30	60	
			HOLL	1930.0	1931.0	III		1	25	160	
	2020	2400	CULG	2105.0	2105.0	III	B	1	57X	80	
			CULG	2159.0	2200.0	III	G	1	100	150	
			CULG	2206.0	2207.0	III	G	1	60	90	
			CULG	2235.0	2235.0	III	B	1	57X	170	
			HOLL	2331.0	2332.0	III		1	25	82	
			LEAR	2331.0	2335.0	III		1	25	85	
	2025	2400	HIRA	2332.0	2332.5	III	B	1	25X	50	
31			LEAR	0214.0	0215.0	III		1	53	152	
	0000	0800	CULG	0215.0	0215.0	III	G	1	57X	140	
	0000	0859	HIRA	0215.0	0215.5	III	B	1	50	200	
	0455	1745	POTS	0458 E	1656 U	I	S,N	1	200U	360	400-800MHz no data
			CULG	0540.0	0540.0	III	B	1	57X	160	
	0600	0830	BLEN								
			CULG	0631.0	0632.0	III	G	1	57X	180	
	0600	1200	IZMI	0631.1	0631.7	III	G	1	50	210	
			IZMI	0636.9	0637.1	III	G	1	185	270X	
			POTS	0713.8	0714.3	DCIM		2	200U	380	
			IZMI	0714.0	0714.1	III	G	2	180	270X	
			IZMI	1137.0	1200.0D	I	N	1	230	270X	
			POTS	1211.9	1212.2	UNCLF		2	40X	70	
			SVTO	1212.0	1213.0	III		1	25U	50U	
			SVTO	1253.0	1253.0	III		1	25	30	

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

MARCH 2002

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
31			ONDR	1450.3	1500.3	DCIM	GG	2	800X	2000X	
	0551	1622	ONDR	1450.3	1454.1	DCIM	G	1	2000X	4500X	
			HOLL	1627.0	1627.0	III		1	25	88	
			SVTO	1627.0	1627.0	III		1	25	87	
	2024	2400	HIRA								
	2020	2400	CULG	2259.0	2259.0	III	G	1	57X	180	

Event Remarks:

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

Frequency qualifiers:

X = Extends beyond instrument range
U = Uncertain frequency

Remarks:

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

Stations Reporting:

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

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