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

OCTOBER 2000

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
01			LEAR	0100.0	0100.0	III		1	25	53	
	0000	0750	CULG	0140.0	0200.0	III	N	1	30	100	
			LEAR	0149.0	0150.0	III		1	25	126	
			LEAR	0156.0	0159.0	III		1	25	121	
			LEAR	0246.0	0250.0	III		1	25	47	
			CULG	0411.0	0416.0	III	GG	2	18	150	
			LEAR	0412.0	0418.0	III		2	25	172	
	0000	0822	HIRA	0412.5	0413.5	III	B	2	25X	200	
			IZMI	0609.0E	1200.0D	III	N	1	45	95	
	0609	1200	IZMI	0609.0E	1200.0D	I	S	2	160	270X	
			IZMI	0628.6	0628.9	III	G,U	2	50	95	
			IZMI	0659.6	0659.9	III	G	2	25	95	
			CULG	0700.0	0700.0	III	B	1	23	90	
			IZMI	0702.2	0702.3	III	B	2	45	95	
			CULG	0709.0	0709.0	III	B	2	50	300	
			HIRA	0709.0	0709.5	III	B	3	50	320	
			LEAR	0709.0	0709.0	III		2	46	180	
			SVTO	0709.0	0709.0	III		2	49	180	
			SVTO	0709.0	0709.0	III		2	141	180	
			IZMI	0709.2	0709.6	III	GG,FS	2	45	270X	
			LEAR	0717.0	0719.0	III		1	41	180	
			SVTO	0717.0	0719.0	III		1	62	167	
			IZMI	0717.4	0719.9	III	GG	2	45	270X	
			HIRA	0717.5	0719.5	III	G	3	50	200	
	0625	1605	BLEN	0717.7	0720.5	III	GG,RS	3	220X	420	
			CULG	0718.0	0720.0	III	G	1	50	160	
			CULG	0728.0	0728.0	III	B	1	50	90	
			IZMI	0728.2	0728.5	III	B	2	50	95	
			BLEN	0737.6	0738.1	III	GG,S	3	290	420	
			SVTO	0806.0	1610.0	CONT		1	25	180	
			LEAR	0917.0	0917.0	III		1	25U	180U	
			IZMI	0917.2	0917.5	III	G	2	35	250	
			IZMI	1022.2	1022.8	III	GG,FS	2	45	225	
			BLEN	1124.5	1124.8	III	GG,RS	2	220X	350	
			BLEN	1255.9	1302.9	III	GG,S,RS	1	220X	450	
			SGMR	1256.0	1301.0	V		3	30	80	
			SVTO	1256.0	1301.0	V		3	25	180	
			ONDR	1256.3	1303.2	DCIM	GG	2	800X	2000X	
	0610	1529	ONDR	1256.4	1303.0	DCIM	G	1	2000X	4500X	
			SGMR	1305.0	1306.0	III		1	30	70	
			SGMR	1312.0	1314.0	II		1	33	53	ESS 1100
			BLEN	1313.9	1314.8	III	GG,RS	2	220X	350	
			BLEN	1349.2	1349.9	III	G,RS	3	220X	470	
			ONDR	1358.5	1406.0	DCIM	G	1	2840	4500X	
			CULG	2000.0E	2108.0	I	S	1	100	170	
	2000	2400	CULG	2000.0E	2124.0	III	N	1	30	90	
	2033	2400	HIRA								
			HOLL	2036.0	2038.0	III		1	25	180	
			PALE	2036.0	2039.0	III		1	25	75	
			CULG	2038.0	2038.0	III	B	2	28	90	
			HOLL	2051.0	2052.0	III		1	25	85	
			PALE	2051.0	2124.0	III	N	1	25	75	
			CULG	2205.0	2205.0	III	B	1	40	90	
			LEAR	2220.0	1005.0	CONT		1	40	180	
			CULG	2222.0	2222.0	III	B	1	40	75	
			CULG	2323.0	2333.0	III	GG	1	30	170	
			CULG	2341.0	2343.0	III	G	1	40	90	
02	0000	0750	CULG	0012.0	0035.0	III	N	1	30	150	
			LEAR	0023.0	0027.0	III		1	25	180	
			PALE	0023.0	0024.0	III		1	25	140	
			CULG	0024.0	0024.0	III	B	2	18	150	
			LEAR	0247.0	0300.0	III		2	25	180	
	0000	0820	HIRA	0247.0	0301.0	III	G	3	25X	290	
			CULG	0248.0	0302.0	III	GG	3	18X	700	
			CULG	0306.0	0307.0	III	G	1	30	65	
			CULG	0543.0	0543.0	III	B	1	30	250	
	0550	1200	IZMI	0550.0E	1200.0D	I	S,C	2	45	270X	
			IZMI	0607.0U	1200.0D	III	N	1	45	95	

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02	0612	1527	ONDR								
			LEAR	0644.0	0646.0	III		1	25	180	
			IZMI	0644.9	0647.2	III	GG,C	2	30	130	
			CULG	0645.0	0647.0	III	G	1	23	180	
			SVTO	0645.0	0645.0	III		1	25	84	
			HIRA	0645.5	0646.0	III	B	2	50	190	
			SVTO	0652.0	0737.0	III	N	2	25	180	
			IZMI	0752.6	0752.8	III	G	2	35	65	
			IZMI	0754.3	0754.5	III	B	2	35	70	
			SVTO	0815.0	1003.0	III	N	1	25	74	
	0625	1605	BLEN	0852.0	1530 X	I	C	2	220X	500	
			IZMI	0936.6	0938.6	III	GG	1	45	270X	
			BLEN	0945.9	1004.1	III	GG	2	220X	330	
			IZMI	0958.3	0958.9	CONT		2	40	60	
			IZMI	1002.0	1003.9	III	G	1	40	60	
			SVTO	1038.0	1214.0	III	N	1	25	180	
			IZMI	1044.0	1044.5	III	G	2	45	100	
			BLEN	1252.0	1252.5	III	GG	3	220X	550X	
			SVTO	1320.0	1329.0	III		1	25	180	
			BLEN	1407.7	1408.3	III	GG	2	230	420	
			PALE	1957.0	2006.0	III		3	25	180	
			HOLL	1958.0	2006.0	V		2	25	180	
			SGMR	1958.0	2006.0	V		3	30	80	
	2000	2400	CULG	2000.0E	2006.0	III	GG	3	23	150	
			CULG	2008.0	2117.0	III	N	1	23	90	
	2034	2400	HIRA								
			LEAR	2207.0	0000.0	CONT		1	40	180	
			CULG	2317.0	2318.0	III	G	1	18X	150	
			HOLL	2317.0	2318.0	III		1	34	130	
			LEAR	2317.0	2319.0	III		1	25	141	
			PALE	2317.0	2319.0	III		1	25U	84U	
			CULG	2322.0	2322.0	III	B	1	30	90	
03			LEAR	0014.0	0014.0	III		1	25	129	
	0000	0755	CULG	0014.0	0014.0	III	B	1	28	90	
			CULG	0025.0	0025.0	III	B	1	30	50	
			CULG	0038.0U	0346.0	I	S	1	60	170	
			CULG	0039.0	0342.0D	III	N	1	30	180	
			PALE	0103.0	0108.0	III		1	25	180	
			CULG	0105.0	0108.0	III	G	2	18	180	
			LEAR	0105.0	0109.0	III		1	25	180	
	0000	0818	HIRA	0105.5	0108.0	III	G	2	40	200	
			LEAR	0146.0	0202.0	CONT		1	69	180	
			LEAR	0146.0	1006.0	CONT		1	40	180	
			IZMI	0601.0E	1215.0D	III	N	1	25	90	
	0550	1215	IZMI	0601.0E	1215.0D	I	S	2	45	270X	
			IZMI	0603.8	0606.5	III	GG,C	2	25X	270X	
			CULG	0604.0	0606.0	III	G	3	18X	180	
			HIRA	0604.0	0605.0	III	B	3	30	380	
			LEAR	0604.0	0604.0	V		3	25	180	
			SVTO	0604.0	0605.0	V		2	21	180	
			IZMI	0604.2	0605.6	V		2	25	95	
	0630	1210	BLEN	0630 X	1210 X	I	DC,C	3	220X	450	
			CULG	0636.0	0637.0	III	G	1	23	180	
			LEAR	0636.0	0636.0	III		1	30	180	
			IZMI	0636.2	0637.2	III	G,C	2	30	260	
			CULG	0643.0	0744.0	III	N	1	25	150	
			SVTO	0715.0	1013.0	III	N	2	25	82	
			IZMI	0737.6	0743.9	III	GG	2	25	270X	
			BLEN	0743.0	0743.4	III	GG	3	220X	550X	
			LEAR	0748.0	0818.0	II		1	37	80	ESS 0400
			CULG	0749.0	0755.0D	II	SH	1	50	80	
			SVTO	0749.0	0753.0	II		1	27U	39U	ESS 0638
			IZMI	0749.1	0759.2	II	HARM	2	25X	70	
			CULG	0750.0	0753.0	II	FN	1	25	35	
			IZMI	0751.8	0754.1	III	GG	2	25X	160	
			IZMI	0800.7	1002.0U	III	S	2	25X	95	
	0614	1525	ONDR	0803.3	0815.4	DCIM	GG	2	800X	1367	
			ONDR	0829.0	0831.3	DCIM	G	1	1466	1902	

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03			IZMI	1011.2	1011.6	III	G	2	65	170	
			IZMI	1107.3	1107.5	III	B	1	25	45	
			HOLL	1442.0	1447.0	II		1	25U	110U	ESS 0390
			SVTO	1442.0	1446.0	II		1	75	83	ESS 0375
			SGMR	1444.0	1506.0	III	N	1	30	55	
			HOLL	1506.0	1508.0	III		1	25	180	
	2000	2400	CULG	2052.0	2052.0	III	B	1	23	60	
			CULG	2109.0	2109.0	III	B	1	30	50	
			CULG	2132.0	2134.0	III	G	2	23	160	
			HOLL	2132.0	2134.0	III		1	25	146	
	2034	2400	HIRA	2133.0	2133.5	III	B	2	50	110	
			CULG	2208.0	2208.0	III	B	1	60	170	
			LEAR	2221.0	2223.0	III		1	65	180	
			CULG	2222.0	2223.0	III	G	1	35	180	
			CULG	2255.0	2258.0	III	G	1	35	180	
			LEAR	2255.0	2258.0	III		1	25	180	
			PALE	2255.0	2256.0	III		1	50	180	
			HIRA	2256.0	2257.0	III	B	2	80	200	
			LEAR	2356.0	0000.0	III		1	25	180	
			PALE	2356.0	0012.0	III	N	1	25	180	
			CULG	2357.0	2359.0	III	G	2	18	180	
			HIRA	2357.0	2357.5	III	B	2	30	200	
04	0000	0755	CULG	0001.0	0001.0	III	B	1	35	180	
			LEAR	0005.0	0013.0	III		1	25	180	
			CULG	0006.0	0006.0	III	B	1	18	180	
			CULG	0010.0	0013.0	III	G	1	18	180	
			CULG	0049.0	0052.0	III	G	2	18X	180	
			LEAR	0049.0	0122.0	III	N	2	25	180	
			PALE	0049.0	0146.0	III	N	1	25	180	
	0000	0817	HIRA	0050.0	0051.0	III	B	2	30	140	
			CULG	0055.0	0103.0	III	G	1	20	160	
			CULG	0122.0	0122.0	III	B	1	30	70	
			LEAR	0341.0	0356.0	III	N	1	25	180	
			CULG	0342.0	0344.0	III	G	2	18X	160	
			HIRA	0342.0	0343.0	III	B	2	30	170	
			HIRA	0354.5	0355.0	III	B	2	30	230	
			CULG	0355.0	0356.0	III	G	2	18	180	
			CULG	0530.0	0531.0	III	G	1	20	160	
			CULG	0535.0	0537.0	III	G	1	28	170	
			LEAR	0535.0	0605.0	III	N	1	25	180	
			CULG	0600.0	0605.0	III	G	2	20	170	
			SVTO	0600.0	0602.0	III		1	33	180	
			HIRA	0600.5	0603.0	III	G	2	60	150	
			CULG	0613.0	0615.0	III	G	3	18	200	
			LEAR	0613.0	0615.0	V		3	25	180	
			HIRA	0614.0	0615.0	III	B	3	30	210	
			SVTO	0614.0	0615.0	III		2	25	180	
	0630	1630	BLEN	0630 X	1530 X	I	DC	3	220X	420	
	0618	1200	IZMI	0636.7	0636.9	III	B	2	45	90	
			CULG	0637.0	0637.0	III	B	1	30	70	
			IZMI	0728.0	0728.8	III	G	1	45	100	
			IZMI	0811.0	1200.0D	I	N	2	45	260	
			IZMI	0811.0U	1200.0	III	N	1	45	95	
			IZMI	0842.0	0842.1	III	B	2	35	80	
			IZMI	0921.7	0922.2	III	G	2	40	95	
			SVTO	0927.0	0945.0	III	N	1	25	46	
			IZMI	0932.9	0933.0	III	B	2	35	125	
			IZMI	0937.0	0937.7	III	G	1	40	120	
			IZMI	1113.0	1114.6	III	GG	2	25X	270	
			SVTO	1113.0	1114.0	III		1	25	180	
	1240	1523	ONDR								
			SGMR	1308.0	1309.0	III		1	30	55	
			SVTO	1308.0	1316.0	III		1	25U	180U	
			SGMR	1336.0	1749.0	III	N	1	30	60	
			SVTO	1336.0	1336.0	III		1	25U	180U	
			BLEN	1336.6	1337.4	III	GG,S	3	220X	500	
			PALE	1737.0	1746.0	III		1	25	140	
			HOLL	1738.0	1740.0	III		1	25	168	

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04			HOLL	1745.0	1746.0	III		1	25	134	
			PALE	1747.0	1751.0	III		1	25U	75U	
			HOLL	1748.0	1750.0	III		1	25	180	
			SGMR	1844.0	1846.0	III		1	30	70	
			HOLL	1845.0	1846.0	III		1	25	109	
			PALE	1845.0	1846.0	III		1	25	75	
			HOLL	1911.0	1913.0	III		1	25	144	
	2000	2400	CULG	2040.0	2119.0	III	N	1	20	140	
			CULG	2102.0	2103.0	III	G	2	18X	110	
			HOLL	2102.0	2111.0	III		1	25	138	
			PALE	2102.0	2111.0	III		1	25U	86U	
	2035	2400	HIRA	2102.5	2103.0	III	B	2	30	90	
			HIRA	2109.5	2112.0	III	G	1	30	200	
			CULG	2110.0	2112.0	III	G	2	18	180	
			HOLL	2154.0	2311.0	III	N	1	25	110	
			CULG	2156.0	2217.0	III	N	1	18	90	
05	0000	0755	CULG	0042.0	0042.0	III	B	1	20	75	
			CULG	0143.0	0144.0	III	G	1	20	90	
			LEAR	0256.0	0300.0	III		1	25	180	
			CULG	0257.0	0300.0	III	G	2	18X	180	
			CULG	0405.0	0418.0	III	G	1	18	170	
			LEAR	0409.0	0418.0	III		1	25	180	
			CULG	0500.0	0508.0	III	G	1	30	90	
	0602	1200	IZMI	0559.0E	0727.0U	III	N	1	45	95	
			CULG	0601.0	0602.0	III	G	1	20	40	
	0000	0816	HIRA	0602.0	0603.5	III	G	2	600	1100	
	0617	1520	ONDR								
			IZMI	0619.8	0620.0	III	B	1	35	90	
			CULG	0620.0	0624.0	III	G	1	20	90	
			IZMI	0623.4	0623.6	III	B	1	40	65	
			LEAR	0648.0	0649.0	III		1	25	180	
			SVTO	0648.0	0649.0	III		1	25	82	
			IZMI	0648.6	0649.0	III	G	2	25X	170	
			CULG	0649.0	0649.0	III	B	2	18	170	
			IZMI	0650.6	0651.2	III	G	1	45	65	
	0635	1555	BLEN	0702.0	1530 X	I	DC,N	2	220X	400	
			CULG	0717.0	0717.0	III	B	1	23	70	
			LEAR	0809.0	0818.0	III		1	38	163	
			SVTO	0809.0	0818.0	III		1	25	150	
			IZMI	0809.1	0810.0	III	G	2	60	270X	
			IZMI	0817.5	0820.0	III	GG	2	30	170	
			BLEN	0833.6	0834.2	III	GG	2	220X	360	
			LEAR	0906.0	0918.0	III	N	3	25	180	
			SVTO	0906.0	0917.0	III	N	2	25	180	
			BLEN	0906.2	0920.0	III	GG,S	3	220X	550X	
			IZMI	0906.2	0918.5	III	GG,C	2	25X	270X	
			IZMI	0957.0	0957.3	III	G	1	30	65	
			IZMI	1002.1	1002.5	III	G	2	25X	85	
			SVTO	1047.0	1307.0	III	N	1	25	153	
			IZMI	1148.6	1150.0	III	GG	2	40	245	
			SGMR	1245.0	1246.0	III		1	30	72	
			SGMR	1407.0	1412.0	III		1	30	80	
			BLEN	1407.8	1415.9	III	GG,S	3	220X	450	
			HOLL	1408.0	1417.0	III		1	25	180	
			SVTO	1408.0	1417.0	III	N	1	25	180	
			BLEN	1507.9	1508.5	III	GG,S	3	220X	420	
			HOLL	1601.0	1606.0	III		1	25	144	
			SGMR	1603.0	1606.0	III		1	30	50	
			HOLL	1814.0	1815.0	III		1	25	84	
			SGMR	1815.0	2156.0	CONT		1	30	55	
			HOLL	1830.0	1839.0	III		1	25	85	
			PALE	1830.0	1839.0	III		1	25	75	
			HOLL	1914.0	1918.0	III		1	25	165	
			PALE	1914.0	1918.0	III		2	25	180	
			HOLL	1924.0	1924.0	III		1	49	136	
	2036	2400	HIRA								
	2000	2400	CULG	2355.0	2355.0	III	B	1	30	90	

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06			LEAR	0042.0	0050.0	III		1	25	180	
	0000	0755	CULG	0042.0	0043.0	III	G	1	25	140	
			CULG	0050.0	0051.0	III	G	1	20	180	
	0000	0815	HIRA	0050.5	0051.0	III	B	2	40	170	
	0635	1550	BLEN	0635 X	1530 X	I	DC,C	3	220X	420	
	0550	1200	IZMI	0905.2	0905.5	III	B	2	225	260	
			IZMI	1037.1	1037.8	III	G	2	80	180	
			IZMI	1045.4	1045.5	III	B	2	40	175	
			IZMI	1117.0	1119.3	III	G	2	50	165	
			BLEN	1322.8	1324.2	III	GG,S	3	220X	540	
			HOLL	1323.0	1324.0	III		1	25	180	
			SGMR	1323.0	1324.0	III		2	30	80	
			SVTO	1323.0	1324.0	III		2	25U	178U	
	0619	1518	ONDR	1323.2	1323.3	DCIM	G	2	1184	2000X	
			HOLL	1901.0	1905.0	III		1	25	180	
			PALE	1901.0	1905.0	III		1	25	180	
			SGMR	1902.0	1905.0	III		1	30	80	
			HOLL	1940.0	1940.0	III		1	25	180	
			PALE	1940.0	1940.0	III		1	25	180	
			SGMR	1940.0	1955.0	III	N	1	30	80	
	2000	2400	CULG								
	2037	2400	HIRA								
			LEAR	2355.0	2355.0	III		1	25	101	
07	0600	1200	IZMI	0601.7	0602.9	III	GG	2	145	270X	
			LEAR	0602.0	0602.0	III		1	142	180	
	0000	0755	CULG	0602.0	0603.0	III	G	1	140	500	
	0000	0813	HIRA	0602.0	0602.5	III	B	2	130	500	
			IZMI	0619.9	0620.9	III	GG,C	2	65	270X	
	0620	1515	ONDR								
			CULG	0620.0	0621.0	III	G	1	80	550	
			HIRA	0620.0	0620.5	III	B	2	70	600	
			LEAR	0620.0	0620.0	III		1	77	180	
			SVTO	0620.0	0620.0	III		1	76	180	
	0635	1545	BLEN	0635 X	1530 X	I	DC,C	3	220X	450	
			IZMI	0741.3	0741.5	III	G	1	200	270X	
			IZMI	0744.7	0745.2	III	GG	2	190	270X	
			BLEN	0800.3	0800.6	III	G	3	220X	550X	
			IZMI	0800.3	0800.5	III	G,C	2	165	279X	
			BLEN	1430.6	1431.3	III	GG	2	220X	380	
	2038	2400	HIRA								
			HOLL	2136.0	0000.0	CONT		1	25	173	
	2000	2400	CULG	2248.0	2248.0	III	B	1	30	50	
08			LEAR	0211.0	0212.0	III		1	97	180	
			PALE	0212.0	0212.0	III		1	108U	180U	
	0000	0755	CULG	0212.0	0213.0	III	G	2	100	420	
	0000	0812	HIRA	0212.0	0212.5	III	B	3	90	400	
	0550	1200	IZMI	0552.0U	1200.0U	I	N	1	200	270X	
			IZMI	0606.1	0606.7	III	G	1	45	95	
	0622	1513	ONDR								
			CULG	0631.0	0631.0	III	B	1	23	90	
			IZMI	0631.0	0631.3	III	B	1	45	95	
	0635	1545	BLEN	0635 X	1545 X	I	DC	3	220X	450	
			IZMI	0736.8	0737.6	III	GG	1	45	270	
			IZMI	0742.6	0742.8	III	B	1	55	90	
			IZMI	0917.4	0917.6	III	B	1	45	90	
			IZMI	1023.2	1024.8	I	GG	1	40	135	
			HOLL	2010.0	2024.0	III		1	25	151	
	2039	2400	HIRA								
	2000	2400	CULG	2041.0	2041.0	III	B	1	50	80	
			HOLL	2136.0	0033.0	CONT		1	25	180	
			HOLL	2247.0	2255.0	III		1	25	163	
09	0000	0755	CULG	0313.0	0314.0	III	G	1	30	90	
			CULG	0402.0	0402.0	III	B	1	30	280	
			LEAR	0402.0	0405.0	III		1	25	180	
			CULG	0404.0	0405.0	III	G	2	18	180	
	0000	0810	HIRA	0404.0	0405.0	III	G	3	30	210	

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09			LEAR	0413.0	0413.0	III		1	75	138	
			CULG	0414.0	0414.0	III	G	2	70	150	
			CULG	0510.0	0510.0	III	G	1	30	250	
			HIRA	0510.0	0510.5	III	B	3	25X	350	
	0603	1200	IZMI	0643.0	0643.2	III	B	1	45	95	
			IZMI	0724.3	0724.4	III	B	1	45	90	
			IZMI	0729.7	0729.8	III	B	2	30	95	
			SVTO	0748.0	0830.0	III	N	1	25	170	
			IZMI	0748.7	0749.4	III	GG,HARM	2	30	270X	
			HIRA	0752.5	0753.5	III	B	2	100	260	
			IZMI	0752.6	0754.2	III	GG,FS	2	30	270	
			LEAR	0753.0	0830.0	III	N	1	25	180	
			IZMI	0756.9	0800.4	III	GG,FS	2	30	270X	
			IZMI	0801.5	0804.9	III	GG,FS	2	25	270X	
			IZMI	0806.6	0809.4	III	GG	2	30	270	
			IZMI	0829.7	0830.6	III	GG	2	30	160	
			IZMI	0835.3	0835.5	III	B	1	45	95	
			IZMI	0904.1	0904.2	III	B	1	45	160	
			IZMI	0910.7	0910.8	III	B	1	45	135	
			IZMI	0927.0	1010.0U	I	N	1	200	270	
			IZMI	0948.0	0948.3	III	G	2	40	135	
			IZMI	1058.6	1059.3	III	G	1	45	90	
			IZMI	1114.9	1115.5	III	G	1	55	95	
			IZMI	1134.6	1136.0	III	G	1	45	130	
			SGMR	1312.0	1317.0	V		3	30	80	
			SVTO	1312.0	1318.0	III		3	25	180	
			HOLL	1313.0	1317.0	III		1	25	118	
	0624	1511	ONDR	1313.0	1314.3	DCIM	G	1	2000X	4500X	
			ONDR	1313.2	1314.0	DCIM	G	2	800X	2000X	
			HOLL	1341.0	1345.0	III		1	25	180	
			SGMR	1341.0	1343.0	III		2	30	80	
			SVTO	1341.0	1343.0	III		2	25	180	
			ONDR	1341.5	1342.2	DCIM	GG	2	800X	2000X	
			ONDR	1342.0	1343.3	DCIM	G	1	2215	4500X	
			SVTO	1408.0	1516.0	III	N	1	30U	180U	
			HOLL	1409.0	1413.0	III		1	25	180	
			SGMR	1413.0	1844.0	III	N	3	30	80	
			HOLL	1427.0	1524.0	III	N	1	25	180	
			HOLL	1604.0	1612.0	III		1	25	180	
			HOLL	1657.0	1659.0	V		2	25	180	
			PALE	1657.0	1658.0	III		3	25	180	
			HOLL	1917.0	1921.0	III		1	25	180	
			PALE	1917.0	1922.0	III		2	25	140	
			SGMR	1917.0	1953.0	III	N	2	30	80	
			HOLL	1932.0	1934.0	III		1	25	180	
			PALE	1932.0	1934.0	III		1	25	180	
			HOLL	1951.0	1953.0	III		1	25	140	
			PALE	1951.0	1953.0	III		1	25U	85U	
	2000	2400	CULG	2000.0E	2105.0	III	N	1	30	180	
			CULG	2049.0	2050.0	III	G	2	28	180	
			CULG	2150.0	2150.0	III	B	1	23	60	
			CULG	2223.0	2224.0	III	G	1	30	70	
			CULG	2238.0	2238.0	III	B	1	35	75	
			HOLL	2245.0	2251.0	III		2	25	180	
			LEAR	2245.0	2251.0	III		3	25	180	
			CULG	2246.0	2248.0	III	G	3	18X	300	
			PALE	2246.0	2251.0	III		3	25	180	
	2040	2400	HIRA	2246.0	2247.5	III	B	3	30	210	
			CULG	2249.0	2255.0	III	G	1	30	250	
			LEAR	2249.0	2355.0	CONT		1	72	180	
			CULG	2321.0	2330.0	III	GG	1	20	280	
			HOLL	2321.0	2329.0	III		1	25	180	
			LEAR	2321.0	2330.0	III		2	25	180	
			PALE	2325.0	0015.0	III	N	1	25	180	
			HIRA	2325.5	2326.0	III	B	2	50	500	
			HIRA	2327.5	2328.0	III	B	2	50	380	
			CULG	2333.0	2400.0D	III	N	1	18	180	
			HIRA	2336.0	2354.0	II	.	2	30	600	
			CULG	2337.0	2338.0	III	G	1	25	700	

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09			CULG	2337.0	2343.0	II	FN	1	18	35	
			CULG	2337.0	2345.0	II	SH	2	25	70	ESS 1000
			HOLL	2337.0	2351.0	IV		1	25	66	
			LEAR	2337.0	2355.0	II		2	25	67	ESS 0852
			PALE	2338.0	2354.0	II		1	25	65	ESS 0850
			CULG	2343.0	2355.0	II	SH	2	25	70	ESS 700
			CULG	2344.0	2349.0	II	FN	1	18	35	
			LEAR	2355.0	0600.0	IV		1	25	180	
10	0000	0755	CULG	0000.0E	0244.0	III	S,C	2	25	180	
			PALE	0015.0	0356.0	CONT		1	25	180	
			LEAR	0200.0	0201.0	III		2	25	180	
			PALE	0223.0	0224.0	III		2	25	170	
	0000	0809	HIRA	0243.5	0244.0	III	B	1	30	100	
			CULG	0244.0	0604.0	III	S,C	1	28	160	
			HIRA	0352.5	0353.5	III	B	1	25X	180	
			CULG	0353.0	0353.0	III	G	2	20	180	
			HIRA	0406.0	0412.0	III	G	2	50	160	
			CULG	0407.0	0414.0	III	GG	2	25	180	
			IZMI	0551.0E	1200.0D	III	N	1	40	120	
	0551	1200	IZMI	0551.0E	1200.0D	I	S	1	45	270	
			IZMI	0603.2	0603.5	III	G	2	40	120	
	0626	1509	ONDR								
			IZMI	0635.4	0639.5	III	GG	2	30	90	
			CULG	0636.0	0638.0	III	G	1	23	80	
			LEAR	0636.0	0656.0	III	N	2	25	180	
			SVTO	0636.0	0714.0	III	N	2	25	180	
			IZMI	0642.6	0644.5	III	G	2	35	90	
			CULG	0643.0	0644.0	III	G	1	30	90	
			IZMI	0646.6	0657.2	III	S,FS	2	25X	270X	
			CULG	0647.0	0657.0	III	GG	3	23	180	
			HIRA	0647.0	0655.0	III	G	3	30	220	
			CULG	0711.0	0715.0	III	G	1	28	140	
			IZMI	0711.0	0715.6	III	GG	2	30	160	
			LEAR	0711.0	0714.0	III		1	25	135	
			IZMI	0753.1	0758.3	III	N	2	40	270X	
			SVTO	0756.0	0904.0	III	N	1	25	160	
			IZMI	0756.3	0756.7	III	G,FS	2	30	90	
			IZMI	0806.6	0809.4	III	GG	2	25	100	
			LEAR	0847.0	0911.0	III	N	1	25	180	
			IZMI	0847.6	0847.8	III	G,FS	2	30	170	
			IZMI	0902.6	0904.2	III	GG,FS	2	25	250	
			IZMI	0945.7	0946.4	III	G	2	40	215	
			IZMI	1002.5	1003.5	III	G	1	50	240	
			IZMI	1004.7	1006.2	III	GG	2	35	270X	
			SVTO	1005.0	1005.0	III		1	65	169	
			SGMR	1417.0	1418.0	III		1	30	50	
			SVTO	1417.0	1418.0	III		1	25	82	
			HOLL	1509.0	1515.0	III		2	25	180	
			SGMR	1509.0	1557.0	III	N	3	30	80	
			SVTO	1509.0	1555.0	III	N	3	25	180	
	2000	2400	CULG	2026.0	2026.0	III	B	1	23	90	
			CULG	2035.0	2036.0	III	G	1	25	90	
	2041	2400	HIRA								
			CULG	2208.0	2208.0	III	B	1	20	150	
			CULG	2305.0	2306.0	III	G	1	23	140	
11	0000	0755	CULG	0150.0	0153.0	III	G	1	30	160	
			LEAR	0157.0	0228.0	III	N	1	25	180	
			CULG	0158.0	0158.0	III	B	2	60	180	
	0000	0808	HIRA	0159.0	0159.5	III	B	1	60	190	
			CULG	0217.0	0219.0	III	G	1	18	160	
			HIRA	0222.0	0223.0	III	B	1	30	190	
			CULG	0228.0	0228.0	III	B	1	18	90	
			CULG	0554.0	0604.0	III	GG	1	500	800	
			CULG	0600.0	0755.0D	III	N	1	20	170	
	0603	1141	IZMI	0603.0E	1141.0D	III	N	2	40	95	
			IZMI	0604.1	0606.1	III	GG	2	40	240	
			LEAR	0608.0	0609.0	III		1	25	180	

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11			IZMI	0619.0	0619.4	III	G,C	2	40	165	
	0628	1506	ONDR								
			CULG	0656.0	0703.0	UNCLF		1	30	50	
			LEAR	0657.0	0943.0	CONT		1	25	180	
			IZMI	0658.0U	1141.0D	I	S	2	40	265	
			CULG	0701.0	0755.0D	I	S	1	60	170	
			IZMI	0709.8	0710.0	III	B	2	40	95	
			IZMI	0723.0U	0753.0U	III	S	2	40	100	
			IZMI	0734.2	0736.9	III	GG	2	30	135	
			IZMI	0745.6	0749.3	III	GG	2	40	100	
			SVTO	0801.0	1554.0	CONT		1	25	180	
			IZMI	1129.5	1130.1	III	G	2	30	110	
			HOLL	1353.0	1353.0	III		1	25	158	
			HOLL	1637.0	1638.0	III		1	25	180	
			SGMR	1637.0	1638.0	III		1	30	80	
			HOLL	1647.0	1648.0	III		1	25	180	
			HOLL	1804.0	1808.0	III		2	25	180	
			PALE	1806.0	1808.0	III		1	25	180	
			HOLL	1933.0	1933.0	III		1	25	160	
			PALE	1933.0	2131.0	III	N	1	25	180	
			HOLL	1943.0	1944.0	III		1	25	180	
	2000	2400	CULG	2002.0	2002.0	III	B	1	25	90	
	2041	2400	HIRA								
12	0000	0755	CULG	0120.0	0120.0	III	B	1	23	60	
			LEAR	0141.0	0144.0	III		1	25	180	
			CULG	0142.0	0145.0	III	G	1	18	180	
	0000	0807	HIRA	0142.0	0144.5	III	G	1	25X	300	
			CULG	0158.0	0159.0	III	G	1	18	80	
			CULG	0317.0	0317.0	III	B	1	30	60	
			SVTO	0524.0	0525.0	III		1	29	71	
	0559	1159	IZMI	0559.0E	1012.0U	I	N	1	200	270X	
	0629	1504	ONDR								
			IZMI	0654.1	0654.2	III	B	1	45	95	
			IZMI	0701.5	0701.8	I	G	1	40	90	
			CULG	0728.0	0728.0	III	B	1	28	70	
			IZMI	0728.1	0728.3	III	B	1	45	160	
			IZMI	0730.3	0730.4	III	B	1	45	90	
			LEAR	0732.0	0733.0	III		1	25	107	
			SVTO	0732.0	0733.0	III		1	25U	83U	
			IZMI	0732.7	0733.0	III	G	2	35	150	
			CULG	0733.0	0733.0	III	G	1	30	90	
			IZMI	0734.6	0734.8	III	B	1	45	95	
			IZMI	0745.0	0745.1	III	B	1	45	95	
			IZMI	0757.0	0758.0	III	G	1	45	160	
			IZMI	0808.3	0808.4	III	B	1	45	65	
			LEAR	0827.0	0827.0	III		1	25	115	
			IZMI	0953.2	0953.3	III	B	2	75	120	
			SVTO	1024.0	1024.0	III		1	28U	160U	
			IZMI	1024.1	1024.8	III	G	2	35	180	
			SVTO	1116.0	1133.0	CONT		1	25U	180U	
			SVTO	1116.0	1552.0	CONT		1	25	180	
	2000	2400	CULG	2040.0	2101.0	I	S	1	100	180	
			CULG	2115.0	2328.0	III	S,C	1	25	160	
			CULG	2118.0	2118.0	III	B	2	18	140	
			HOLL	2118.0	2118.0	III		1	25	84	
			PALE	2118.0	2118.0	V		1	25	75	
	2042	2400	HIRA	2118.5	2119.0	III	B	1	25X	130	
13	0000	0805	HIRA								
	0000	0755	CULG	0003.0	0004.0	III	G	1	30	90	
			CULG	0056.0	0056.0	III	B	1	30	130	
			CULG	0144.0	0232.0	III	N	1	35	90	
	0631	1501	ONDR								
	0557	1200	IZMI	0752.2	0752.3	III	B	2	25X	95	
			IZMI	1008.5	1008.7	III	B	1	50	90	
			IZMI	1058.4	1058.5	III	B	1	40	95	
	2000	2400	CULG								
	2043	2400	HIRA								

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14			LEAR	0038.0	0040.0	III		1	25	180	
			PALE	0039.0	0040.0	III		1	25	145	
	0000	0755	CULG	0039.0	0041.0	III	G	2	20	180	
	0000	0804	HIRA	0039.5	0040.0	III	B	1	30	230	
			CULG	0043.0	0043.0	III	B	1	140	350	
			LEAR	0116.0	0117.0	III		1	25	115	
			CULG	0117.0	0118.0	III	G	1	25	90	
			LEAR	0130.0	0130.0	III		1	32	114	
	0557	1200	IZMI	0607.3	0607.6	III	G	1	45	95	
			IZMI	0612.1	0612.2	III	B	1	45	95	
			IZMI	0646.7	0646.8	III	B	1	45	95	
			IZMI	0657.3	0657.4	III	B	1	40	95	
			IZMI	0815.3	0815.4	III	B	1	45	95	
			IZMI	0819.8	0820.1	III	G,FS	1	45	160	
			IZMI	0830.6	0830.7	III	B	1	45	95	
			IZMI	0852.1	0852.2	III	B	1	45	95	
			IZMI	0920.1	0920.3	III	B	1	30	95	
	0633	1459	ONDR	0926.3	0927.0	DCIM	GG,SP	2	1728	2000X	
			IZMI	0935.3	0936.1	III	G,FS	2	30	95	
			IZMI	0938.6	0938.8	III	B	1	35	45	
			IZMI	0953.6	0953.9	III	B	1	30	95	
			ONDR	1050.3	1054.0	DCIM	G	2	1194	2000X	
			IZMI	1054.1	1054.3	III	B	2	30	180	
	2000	2400	CULG								
	2044	2400	HIRA								
15			LEAR	0126.0	0127.0	III		1	25	69	
	0000	0755	CULG	0127.0	0148.0	III	N	1	18	170	
			CULG	0220.0	0225.0	III	GG	2	18X	300	
			LEAR	0220.0	0225.0	III		3	25	180	
	0000	0802	HIRA	0220.0	0224.5	III	G	2	30	600	
			CULG	0225.0	0310.0	III	N	1	28	160	
			LEAR	0310.0	0310.0	III		1	28	94	
			CULG	0455.0	0455.0	III	B	1	30	80	
	0547	1200	IZMI	0548.9	0549.0	III	B	1	45	95	
	0635	1457	ONDR								
			IZMI	0706.8	0709.1	III	GG,FS	2	35	215	
			CULG	0707.0	0709.0	III	G	1	30	140	
			LEAR	0707.0	0709.0	III		1	30	142	
			SVTO	0707.0	0708.0	III		1	25U	82U	
			IZMI	0713.8	0713.9	III	B	1	45	95	
			IZMI	0733.2	0733.3	III	B	1	45	90	
			IZMI	0739.7	0739.8	III	B	1	45	90	
			IZMI	0825.4	0826.3	III	G	1	45	95	
			IZMI	0829.6	0831.3	III	GG	2	35	160	
			IZMI	0846.1	0854.1	III	N	1	45	95	
			IZMI	0900.3	0900.7	III	G	1	40	95	
			IZMI	0907.3	0920.9	III	N	1	40	95	
			LEAR	0924.0	0924.0	III		1	25	118	
			SVTO	0924.0	0925.0	III		1	25	81	
			IZMI	0924.7	0924.9	III	B	2	30	145	
			IZMI	0925.9	0926.0	III	B	1	40	95	
			IZMI	0936.8	0938.8	III	G	1	45	100	
			IZMI	1027.3	1027.4	III	B	1	45	95	
			IZMI	1033.5	1033.7	III	B	1	45	90	
			IZMI	1041.7	1042.4	III	G	1	40	270X	
			IZMI	1146.9	1147.0	III	B	1	45	65	
	2045	2400	HIRA								
	2000	2400	CULG	2342.0	2342.0	III	B	1	60	90	
16			LEAR	0010.0	0010.0	III		1	25	180	
			PALE	0010.0	0010.0	III		1	25	180	
	0000	0755	CULG	0010.0	0010.0	III	B	2	18	150	
	0000	0800	HIRA	0010.0	0010.5	III	B	1	30	190	
			CULG	0325.0	0328.0	III	G	1	70	170	
			IZMI	0558.1	0558.2	III	B	1	200	215	
			CULG	0647.0	0755.0D	IV	FS	1	30	180	
			IZMI	0647.5	0648.8	III	GG	1	120	270X	
			IZMI	0654.9	0658.5	II		2	45	65	

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16			CULG	0656.0	0700.0	III	G	1	30	80	
			SVTO	0656.0	0658.0	III		1	25U	64U	
			IZMI	0656.9	0657.2	III	B	2	40	80	
			IZMI	0657.2	0840.0U	IV		2	45	135	
			LEAR	0658.0	0702.0	II		1	25	68	ESS 0808
			LEAR	0704.0	0820.0	IV		1	25	146	
			IZMI	0704.2	0709.9	II		2	40	60	
			CULG	0705.0	0718.0	II	UE	2	20	60	
			SVTO	0708.0	0719.0	II		1	25	56	ESS 0806
			IZMI	0718.1	0916.0U	III	N	1	45	95	
	0637	1455	ONDR	0722.2	0741.5	CONT		1	800X	2000X	
			SVTO	0742.0	0742.0	III		1	25U	180U	
			SVTO	0754.0	0755.0	III		1	25U	75U	
			IZMI	1017.8	1018.5	III	G	1	45	65	
			HOLL	1411.0	1413.0	III		1	25	180	
			SVTO	1411.0	1419.0	III		1	25U	180U	
			HOLL	1417.0	1419.0	III		1	25	180	
			HOLL	1748.0	1748.0	III		1	25	180	
			PALE	1748.0	1748.0	III		1	40U	150U	
	2000	2400	CULG	2009.0	2009.0	III	B	1	30	90	
	2045	2400	HIRA								
			CULG	2318.0	2318.0	III	B	1	30	150	
			LEAR	2318.0	2318.0	III		1	25	180	
			CULG	2354.0	2354.0	III	B	1	28	75	
			LEAR	2354.0	2354.0	III		1	25	103	
17			LEAR	0137.0	0138.0	III		1	25	73	
	0000	0800	CULG	0137.0	0138.0	III	G	1	28	80	
			CULG	0249.0	0251.0	III	G	1	30	130	
			LEAR	0249.0	0251.0	III		1	31	145	
	0000	0800	HIRA	0249.0	0250.0	III	B	1	50	300	
			CULG	0351.0	0357.0	III	G	1	28	90	
			LEAR	0355.0	0357.0	III		1	25	103	
			CULG	0556.0	0556.0	III	G	1	40	90	
	0600	1200	IZMI	0600.3	0600.6	III	G	2	45	135	
	0639	1453	ONDR								
			IZMI	0719.9	0720.2	III	B	2	25	150	
			CULG	0720.0	0720.0	III	B	2	28	160	
			LEAR	0720.0	0720.0	III		1	25	142	
			SVTO	0720.0	0720.0	III		1	25	83	
			IZMI	0741.5	0741.9	III	B	1	40	90	
			IZMI	0947.8	0948.0	III	B	1	40	135	
			IZMI	1058.6	1059.3	III	G	2	40	95	
			IZMI	1118.0	1119.6	III	G	1	40	140	
			IZMI	1157.6	1159.5	III	G	1	45	175	
			HOLL	1357.0	1400.0	III		1	25	180	
			SVTO	1357.0	1358.0	III		2	25U	147U	
			SGMR	1358.0	1358.0	III		1	30	80	
			SGMR	1515.0	1518.0	III		2	30	80	
			HOLL	1516.0	1519.0	III		1	25	167	
			SVTO	1516.0	1518.0	III		2	25U	180U	
			HOLL	1541.0	1545.0	III		1	25	144	
			SGMR	1543.0	1545.0	III		1	30	60	
			HOLL	1634.0	1636.0	III		1	25	56	
			HOLL	1655.0	1656.0	III		1	25	84	
			HOLL	1826.0	1826.0	III		1	25	149	
			PALE	1826.0	1826.0	III		1	25	75	
			SGMR	1826.0	1826.0	III		1	30	70	
	2000	2400	CULG	2048.0	2049.0	III	G	1	30	80	
			CULG	2127.0	2129.0	III	G	1	25	120	
			CULG	2152.0	2152.0	III	B	1	60	120	
			CULG	2217.0	2217.0	III	B	1	30	120	
			CULG	2231.0	2234.0	III	G	1	30	90	
			CULG	2250.0	2253.0	III	G	2	18	180	
			HOLL	2250.0	2250.0	III		1	25	180	
			LEAR	2250.0	2252.0	III		1	25	180	
			PALE	2250.0	2250.0	III		1	25	75	
	2046	2400	HIRA	2250.5	2251.0	III	B	2	30	180	
			CULG	2314.0	2316.0	III	G	1	20	90	

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17			LEAR	2314.0	2314.0	III		1	25	115	
18			LEAR	0014.0	0016.0	III		1	25	180	
			PALE	0014.0	0014.0	III		1	25	80	
	0000	0758	HIRA	0014.5	0015.0	III	B	2	25X	140	
	0000	0800	CULG	0015.0	0016.0	III	G	2	20	180	
			LEAR	0206.0	0207.0	III		1	25	180	
			CULG	0207.0	0207.0	III	G	1	18	160	
	0553	1200	IZMI								
	0641	1451	ONDR								
			SVTO	1205.0	1209.0	III		1	25U	180U	
			SVTO	1504.0	1505.0	III		1	70U	180U	
	2048	2400	HIRA								
	2000	2400	CULG	2115.0	2116.0	III	G	1	30	90	
19	0000	0757	HIRA								
	0000	0800	CULG								
	0559	1200	IZMI								
	0642	1447	ONDR								
	2048	2400	HIRA								
	2000	2400	CULG	2127.0	2133.0	III	GG	1	23	130	
			CULG	2317.0	2321.0	III	GG	1	18	90	
20			LEAR	0018.0	0023.0	III		1	25	180	
	0000	0800	CULG	0018.0	0021.0	III	G	3	18X	260	
			PALE	0019.0	0019.0	III		1	25	180	
	0000	0756	HIRA	0019.0	0019.5	III	B	2	30	160	
			LEAR	0101.0	0110.0	III		1	25	90	
			CULG	0102.0	0105.0	III	G	1	20	160	
			PALE	0102.0	0105.0	III		1	25U	50U	
	0600	1200	IZMI	0610.0	0610.1	III	B	1	45	65	
	0644	1445	ONDR								
			IZMI	0651.0	0817.0U	I	N	1	200	250	
			CULG	0653.0	0657.0	III	G	1	28	90	
			IZMI	0653.0	0657.2	III	GG,FS	2	35	100	
			LEAR	0653.0	0656.0	III		1	25	98	
			SVTO	0653.0	0655.0	III		1	40U	82U	
			IZMI	0701.9	0705.2	III	G	1	45	95	
			IZMI	0728.2	0736.0	III	GG,FS	2	25X	270X	
			LEAR	0729.0	0736.0	III		1	25	151	
			CULG	0730.0	0734.0	III	G	1	23	160	
			SVTO	0730.0	0733.0	III		1	34U	82U	
			IZMI	0750.8	0751.0	III	B	1	45	80	
			IZMI	0856.3	0857.2	III	G	1	45	95	
			IZMI	0912.1	0912.3	III	G	1	45	95	
	2000	2400	CULG								
	2049	2400	HIRA								
21	0000	0755	HIRA								
	0000	0800	CULG								
	0646	1443	ONDR								
	0559	1200	IZMI	0758.1	0758.2	III	B	1	45	75	
			IZMI	0828.7	0832.1	III	GG	2	25	260	
			LEAR	0830.0	0831.0	III		2	25	180	
			SVTO	0830.0	0831.0	III		2	31U	142U	
			IZMI	1056.3	1056.7	III	B,C	2	30	95	
	2000	2400	CULG								
	2050	2400	HIRA								
22	0000	0753	HIRA								
			LEAR	0228.0	0231.0	III		1	26	105	
	0000	0800	CULG	0228.0	0229.0	III	G	1	30	60	
	0552	1200	IZMI								
	0648	1441	ONDR								
			HOLL	2031.0	2033.0	III		1	25	146	
			PALE	2031.0	2033.0	III		2	25U	143U	
			SGMR	2031.0	2031.0	III		1	30	80	
	2000	2400	CULG	2031.0	2033.0	III	G	3	20	180	
	2051	2400	HIRA								

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22			CULG	2053.0	2053.0	III	B	1	20	90	
23	0000	0752	HIRA								
	0000	0800	CULG	0138.0	0138.0	III	B	1	25	70	
			LEAR	0322.0	0323.0	III		1	37	76	
	0650	1439	ONDR								
			CULG	0705.0	0705.0	III	B	1	30	80	
	0557	1200	IZMI	0705.2	0705.5	III	B	2	40	140	
	0700	1510	BLEN	1250.0	1500.0	I		1	220	350	
	2000	2400	CULG								
	2052	2400	HIRA								
24	0000	0751	HIRA								
	0000	0800	CULG								
	0652	1437	ONDR								
	0554	1200	IZMI	0815.4	0816.0	III	G,C	2	45	90	
			IZMI	0838.9	0930.0U	III	N	2	40	260	
			IZMI	0840.6	0930.0U	I	N	2	45	270X	
	0705	1510	BLEN	0846.9	0915.9	III	GG,C	2	230	450	
			IZMI	0852.0	0854.0	III	GG	2	40	135	
			IZMI	0909.2	0913.8	III	GG	2	40	90	
			IZMI	0936.8	0937.3	III	G	1	45	65	
			HOLL	1558.0	1604.0	III		1	25	167	
			HOLL	1609.0	1610.0	III		1	25	115	
			HOLL	1623.0	1627.0	III		1	25	131	
	2000	2400	CULG	2038.0	2038.0	III	B	1	70	230	
	2052	2400	HIRA								
25	0000	0750	HIRA								
	0000	0800	CULG	0000.0	0000.0	III	B	1	110	180	
			CULG	0323.0	0538.0	III	N	1	30	120	
			CULG	0608.0	0613.0	III	G	2	25	130	
			SVTO	0608.0	0612.0	III		1	29U	150U	
	0600	1200	IZMI	0608.5	0609.7	III	G,FS	2	45	100	
			IZMI	0609.6	0609.9	V		2	45	65	
			IZMI	0610.0	0610.3	III	G	2	40	170	
			IZMI	0610.1	0611.0	V		2	45	90	
			IZMI	0611.8	0612.8	III	G,FS	2	40	270X	
			IZMI	0644.1	0647.3	III	GG	2	45	170	
			CULG	0645.0	0647.0	III	G	1	60	100	
	0654	1434	ONDR								
			IZMI	0702.0U	0846.0	I	N	2	45	230	
	0710	1510	BLEN								
			IZMI	0846.0U	1200.0D	I	S	2	45	230	
			SVTO	0931.0	1532.0	CONT		1	25U	138U	
			IZMI	0933.9	0934.9	III	GG	2	35	95	
	0550	1200	IZMI	1025.0U	1100.0U	III	N	2	45	95	
			HOLL	1935.0	1937.0	III		1	25	180	
			SGMR	1936.0	1937.0	III		1	30	80	
	2000	2400	CULG	2007.0	2007.0	III	B	1	20	90	
			CULG	2156.0	2159.0	III	G	1	25	80	
			HOLL	2157.0	2157.0	III		1	25	87	
	2053	2400	HIRA	2315.0	2316.0	III	B	3	80	260	
			CULG	2331.0	2331.0	III	B	1	25	75	
26	0000	0749	HIRA								
			LEAR	0106.0	0128.0	III	N	1	25	64	
	0000	0135	CULG	0111.0	0111.0	III	B	1	20	45	
			LEAR	0314.0	0314.0	III		1	25	83	
			LEAR	0341.0	0347.0	III		1	25	107	
			LEAR	0506.0	0508.0	III		1	25	116	
			LEAR	0620.0	0621.0	III		1	75	160	
			SVTO	0620.0	0621.0	III		1	112U	162U	
			IZMI	0620.7	0621.1	III	G	2	80	160	
			LEAR	0736.0	0744.0	III		1	32	140	
			IZMI	0737.1	0739.2	III	GG	2	45	145	
			IZMI	0742.0	0744.3	III	G	1	45	90	
			IZMI	0836.6	0837.1	III	G,C,FS	2	75	270X	
	0710	1510	BLEN	0836.7	0837.0	III	B	2	220X	310	

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26			LEAR	0953.0	0955.0	III		1	30	171	
			IZMI	0953.8	0955.0	III	GG	2	35	245	
			SVTO	0954.0	0954.0	III		1	25U	162U	
			BLEN	1051.3	1111.7	III	GG,S	3	220X	500	
			ONDR	1128.4	1140.5	CONT	W	1	1062	2000X	
			IZMI	1132.4	1133.4	III	G	1	45	145	
	0656	1432	ONDR	1134.1	1135.4	DCIM	G,W	1	2000X	4500X	
			IZMI	1134.7	1135.3	III	G	1	40	135	
			IZMI	1140.1	1140.7	III	G	2	45	65	
			IZMI	1143.4	1143.6	III	B	2	40	95	
			BLEN	1236.7	1238.5	III	III	3	220X	430	
	2055	2400	HIRA								
27	0000	0748	HIRA								
	0020	0800	CULG								
	0715	1510	BLEN	0915.6	0915.9	III	GG,S	3	280	460	
	0603	1200	IZMI	1115.9	1117.0	III	G	2	40	120	
	0658	1430	ONDR	1116.0	1121.2	CONT	W	1	973	2000X	
			IZMI	1118.4	1118.6	III	B	2	35	100	
			IZMI	1131.6	1132.4	III	G	2	40	260	
			IZMI	1157.6	1158.3	III	G	2	40	120	
			SGMR	1212.0	1212.0	III		1	30	60	
			BLEN	1348.7	1406.7	III	GG,S	3	280	550X	
			BLEN	1434.2	1459.3	III	GG,S	3	280	500	
			SVTO	1458.0	1459.0	III		1	112U	161U	
	2000	2400	CULG	2028.0	2030.0	III	G	1	20	80	
	2056	2400	HIRA								
28	0000	0747	HIRA								
	0000	0430	CULG	0127.0	0128.0	III	G	1	20	80	
			CULG	0155.0	0155.0	III	B	1	23	70	
			CULG	0305.0	0305.0	III	B	1	20	75	
			LEAR	0417.0	0438.0	III	N	1	25	180	
			CULG	0420.0	0430.0D	III	N	1	20	60	
	0600	1200	IZMI	0638.1	0638.3	III	B	1	45	95	
			LEAR	0702.0	0704.0	III		1	25	142	
			SVTO	0702.0	0703.0	III		1	25	140	
			IZMI	0702.7	0704.0	III	GG,FS	2	40	180	
			IZMI	0732.6	0732.8	III	G,FS	1	45	95	
			LEAR	0749.0	0749.0	III		1	25	180	
			SVTO	0749.0	0749.0	III		1	58	158	
			IZMI	0749.5	0749.7	III	G,FS,HARM	2	40	270X	
	0715	1510	BLEN	0749.5	0749.7	III	G,S	3	220X	330	
			IZMI	0822.5	0822.7	UNCLF		1	70	95	
			IZMI	0840.3	0840.5	III	G,FS	2	40	95	
	0700	1428	ONDR	0945.3	1000.2	DCIM	G	1	2000X	4500X	
			IZMI	1012.7	1013.6	III	G,U,FS	2	40	245	
			IZMI	1038.3	1038.7	III	B	1	45	95	
			IZMI	1058.0	1058.1	III	B	1	40	95	
			IZMI	1144.1	1145.4	III	G	1	45	120	
			BLEN	1215.2	1216.0	DCIM	S	2	220X	550X	
			SVTO	1226.0	1227.0	III		2	75U	152U	
			HOLL	1401.0	1402.0	III		1	25	109	
			HOLL	1406.0	1411.0	III		1	25	120	
			HOLL	1423.0	1427.0	III		1	25	60	
			HOLL	1431.0	1435.0	III		1	25	116	
			HOLL	2326.0	2327.0	III		1	25	150	
			LEAR	2327.0	2328.0	III		2	25	180	
			PALE	2327.0	2327.0	III		1	25	180	
	2057	2400	HIRA	2327.0	2328.0	III	B	2	30	500	
29			LEAR	0008.0	0009.0	III		1	25	102	
			LEAR	0144.0	0148.0	III		1	75	180	
			LEAR	0148.0	0209.0	II		3	25	180	ESS 1200
			PALE	0148.0	0153.0	II		2	33	145	ESS 1100
	0000	0745	HIRA	0148.5	0311.0	IV		3	25X	2000	
			LEAR	0210.0	1016.0	IV		1	25	180	
			IZMI	0700.0E	1136.0U	I	S	2	45	180	
	0700	1200	IZMI	0700.0E	1136.0U	III	N	1	45	135	

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

OCTOBER 2000

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
29	0702	1425	ONDR								
			IZMI	1007.7	1007.9	III	B	2	40	90	
			SVTO	1142.0	1146.0	III		1	25U	158U	
			IZMI	1142.8	1143.1	III	G	2	40	270X	
			IZMI	1145.5	1146.6	III	G	2	35	260	
			IZMI	1147.9	1148.1	III	B	2	45	135	
	0715	1510	BLEN	1217.8	1218.0	III		2	290	540	
	2058	2400	HIRA								
	2147	2400	CULG	2147.0E	2227.0	I	S	1	100	160	
			CULG	2329.0	2331.0	III	G	1	20	90	
30	0000	0744	HIRA	0148.0	0148.5	III	B	2	40	120	
	0212	0417	CULG	0254.0	0255.0	III	G	2	30	100	
			CULG	0312.0	0318.0	III	G	1	40	150	
	0650	1200	IZMI	0842.2	0842.5	III	B	1	45	170	
			IZMI	1003.3	1004.1	III	G	1	40	90	
	0704	1424	ONDR	1347.4	1348.1	DCIM	G	2	2713	4500X	
	0715	1510	BLEN	1347.5	1348.1	III	S	2	300	500	
			HOLL	1945.0	1945.0	III		1	25	144	
	2155	2400	CULG	2204.0	2204.0	III	B	1	40	100	
			CULG	2237.0	2237.0	III	B	1	470	700	
	2059	2400	HIRA	2237.0	2237.5	III	B	1	310	700	
31	0000	0125	CULG								
	0000	0743	HIRA								
	0707	1422	ONDR								
			LEAR	0729.0	0747.0	III	N	1	40	130	
	0657	1200	IZMI	0730.0	0734.3	III	GG	2	40	170	
			SVTO	0747.0	0747.0	III		1	59U	83U	
			IZMI	0747.2	0748.2	III	G	2	40	240	
	0715	1510	BLEN	0747.3	0747.7	III	G,S	2	220X	400	
	2100	2400	HIRA								
			HOLL	2220.0	2223.0	III		1	25	180	
			HOLL	2228.0	2231.0	III		1	25	180	
			HOLL	2234.0	2238.0	III		1	25	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