S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

DECEMBER 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
01	127	TORN	44	NS	0720.0E		360.0D		8.0		V=0
	235	CUBA	44	NS	1315.0E		515.0D		4.0		
	280	CUBA	44	NS	1315.0E		515.0D		18.0		
	2804	VORO	21	GRF	0010.0	0049.4	70.0	8.7			
	2804	VORO	3	S	0043.4	0045.4	3.0	6.9			
	245	LEAR	8	S	0044.0	0044.0	1.0	58.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0044.0	0044.0	U	180.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0155.0	0156.0	2.0	190.0			QL=4 ST=2 TYP=3
	8800	PALE	48	C	0155.0	0156.0	1.0	190.0			QL=4 ST=2 TYP=8
	4995	LEAR	8	S	0156.0	0156.0	U	37.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0156.0	0156.0	1.0	230.0			QL=4 ST=2 TYP=3
	15400	PALE	48	C	0156.0	0156.0	U	190.0			QL=4 ST=2 TYP=8
	245	LEAR	8	S	0633.0	0633.0	U	51.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0644.0	0645.0	1.0	52.0			QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0647.0	0649.3	10.0	223.1			
	2800	HIRA	8	S	0648.0	0649.0	2.0	140.0			0
	2695	LEAR	4	S/F	0648.0	0649.0	6.0	180.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0648.0	0649.0	6.0	350.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0648.0	0649.0	6.0	490.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0648.0	0649.0	6.0	350.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0648.0	0649.0	7.0	350.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0648.0	0649.0	9.0	330.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0649.0	0649.0	1.0	81.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0649.0	0650.0	5.0	87.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0649.0	0650.0	2.0	100.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0649.0	0649.0	5.0	160.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0649.0	0649.0	5.0	450.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0650.0	0650.0	1.0	135.0			0
	610	SVTO	8	S	0650.0	0650.0	U	24.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0706.0	0707.0	3.0	81.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0912.9	0913.0	1.1	53.0			
	9500	CUBA	21	GRF	1545.0	1754.0	196.0	29.0	14.0		
	9500	CUBA	40	F	1728.6	1729.6	4.6	42.0	21.0		
	245	SGMR	8	S	1824.0	1824.0	U	74.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1824.0	1824.0	U	61.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1847.0	1847.0	U	460.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1847.0	1847.0	U	64.0			QL=4 ST=2 TYP=3
02	127	TORN	44	NS	0720.0E	1208.9	420.0D	20.0	5.0		V=0
	204	IZMI	43	NS	1116.0		44.0D		5.0		
	280	CUBA	44	NS	1300.0E		420.0D		18.0		
	235	CUBA	44	NS	1310.0E		520.0D		7.0		
	2800	HIRA	1	S	0329.0	0331.0	3.0	30.0			0
	500	HIRA	4	S/F	0329.0	0331.0	4.0	145.0			0
	200	HIRA	7	C	0329.0	0331.0	5.0	170.0			0
	2840	PEKG	5	S	0329.0	0331.7	7.0	24.6			
	245	LEAR	8	S	0330.0	0331.0	2.0	260.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0330.0	0331.0	2.0	140.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0421.0	0422.0	1.0	20.0			0
	2840	PEKG	5	S	0617.0	0620.8	8.0	11.9			
	9100	GORK	1	S	0931.0	0931.4	1.1	10.0			
	245	SVTO	48	C	1208.0	1208.0	2.0	77.0			QL=4 ST=2 TYP=8
	4995	SVTO	8	S	1218.0	1219.0	1.0	57.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1218.0	1219.0	1.0	72.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1219.0	1219.0	U	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1300.0	1300.0	U	75.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1300.0	1300.0	U	82.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1346.0	1346.0	U	64.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1535.0	1535.0	U	48.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1535.0	1535.0	U	54.0			QL=4 ST=2 TYP=3
	9500	CUBA	20	GRF	1548.0	1634.0	46.0	20.0	10.0		
	410	SGMR	8	S	1610.0	1610.0	U	57.0			QL=4 ST=2 TYP=3
	2800	PENT	40	F	1833.0	1855.0	59.0U	10.0			
03	235	CUBA	44	NS	1315.0E		515.0D		4.0		
	280	CUBA	44	NS	1315.0E		515.0D		17.0		
	127	TORN	44	NS	1326.0E		56.0D		13.0		V=1
	2804	VORO	2	S/F	0014.7	0015.8	1.6	5.1			
	2840	PEKG	5	S	0026.0	0028.4	5.0	10.2			

SOLAR RADIO EMISSION
Outstanding Occurrences

DECEMBER 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
03	2804	VORO	1	S	0027.5	0028.2	1.2	5.8			
	245	LEAR	8	S	0654.0	0654.0	U	120.0			QL=4 ST=2 TYP=3
	3000	IZMI	22	GRF	0704.2	0707.4	9.3	21.0			
	2840	PEKG	5	S	0705.0	0707.6	7.0	12.6			
	4995	LEAR	8	S	0709.0	0710.0	2.0	35.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0710.0	0710.0	U	54.0			QL=4 ST=2 TYP=3
	3000	IZMI	7	C	1050.8	1051.2	2.6	17.0			
	2800	PENT	29	PBI	1828.0	1831.0	59.0	32.0			
	9500	CUBA	21	GRF	1829.5	1852.8	54.2	13.0	6.0		
	9500	CUBA	2	S/F	1830.8	1831.2	1.8	40.0	20.0		
	4995	SGMR	8	S	1831.0	1831.0	U	64.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1831.0	1831.0	U	60.0			QL=2 ST=2 TYP=3
	9500	CUBA	1	S	1847.4	1847.8	0.6	21.0	10.0		
04	235	CUBA	44	NS	1300.0E		420.0D		4.0		
	280	CUBA	44	NS	1300.0E		420.0D		19.0		
	2840	PEKG	3	S	0036.0	0040.7	16.0	16.6			
	2800	HIRA	1	S	0038.0	0041.0	8.0	30.0			0
	8800	PALE	48	C	0039.0	0040.0	2.0	52.0			QL=4 ST=2 TYP=8
	4995	PALE	8	S	0039.0	0040.0	1.0	47.0			QL=4 ST=2 TYP=3
	2804	VORO	46	C	0047.2	0050.7	5.3	24.2			
	2804	VORO	29	PBI	0052.5	0052.5	37.5	12.6			
	200	HIRA	8	S	0533.0	0533.0	1.0	25.0			0
	2840	PEKG	3	S	0537.0	0542.3	15.0	26.3			
	2695	LEAR	4	S/F	0540.0	0542.0	5.0	16.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0540.0	0542.0	6.0	30.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0541.0	0541.0	5.0	26.0			QL=4 ST=2 TYP=3
	9100	GORK	2	S/F	0727.3	0727.9	3.9	10.0			
	204	IZMI	41	F	0752.5	0752.7	0.3	12.0			
	204	IZMI	42	SER	0800.7	0800.9	2.1	67.0			
	2950	GORK	21	GRF	0839.0	0911.2	114.0	13.0			
	204	IZMI	42	SER	0849.8	0849.8	0.4	15.0			
	9100	GORK	21	GRF	0853.2	0904.9	106.8	14.0			
	4995	SVTO	4	S/F	0856.0	0858.0	6.0	37.0			QL=4 ST=3 TYP=3
	3000	IZMI	22	GRF	0856.2	0858.6	10.2	16.0	6.0		
	2950	GORK	1	S	0857.0	0858.7	3.1	7.8			
	9100	GORK	3	S	0857.5	0858.6	5.8	87.0			
	8800	LEAR	8	S	0858.0	0858.0	2.0	130.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0858.0	0858.0	1.0	93.0			QL=4 ST=3 TYP=3
	15400	SVTO	8	S	0858.0	0858.0	1.0	54.0			QL=4 ST=3 TYP=3
	1415	SVTO	8	S	0859.0	0859.0	U	29.0			QL=4 ST=3 TYP=3
	204	IZMI	42	SER	0900.2	0900.3	0.2	10.0			
	127	TORN	6	S	0943.9	0944.6	0.9	20.0	10.0		
	2800	PENT	29	PBI	1916.0	1923.0	16.0U	25.0			
05	127	TORN	43	NS	0810.0		310.0		7.0		V=0
	235	CUBA	44	NS	1305.0E		525.0D		3.0		
	280	CUBA	44	NS	1305.0E		525.0D		17.0		
	4995	PALE	8	S	0124.0	0126.0	2.0	610.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0133.0	0133.0	U	73.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	2036.3	2037.9	2.1	13.0	6.0		
	245	LEAR	8	S	2356.0	2356.0	U	340.0			QL=4 ST=2 TYP=3
06	235	CUBA	44	NS	1300.0E		530.0D		4.0		
	280	CUBA	44	NS	1300.0E		530.0D		11.0		
	410	LEAR	8	S	0254.0	0254.0	U	58.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0512.0	0514.5	5.0	9.1			
	2804	VORO	3	S	0513.3	0514.7	3.1	11.2			
	3000	IZMI	7	C	0807.4	0807.6	0.3	9.0	4.0		
	3000	IZMI	45	C	0811.8	0821.2	11.0	45.0	14.0		
	1415	LEAR	46	C	0814.0	0821.0	9.0	38.0			QL=4 ST=2 TYP=8
	1415	SVTO	48	C	0814.0	0821.0	8.0	66.0			QL=4 ST=2 TYP=8
	4995	SVTO	4	S/F	0814.0	0821.0	8.0	40.0			QL=4 ST=2 TYP=3
	2695	LEAR	48	C	0816.0	0819.0	9.0	77.0			QL=4 ST=2 TYP=8
	8800	SVTO	4	S/F	0816.0	0821.0	6.0	31.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0819.0	0821.0	6.0	25.0			QL=4 ST=2 TYP=3
	2695	SVTO	48	C	0819.0	0819.0	3.0	77.0			QL=4 ST=2 TYP=8
	8800	LEAR	46	C	0822.0	0827.0	5.0	24.0			QL=4 ST=2 TYP=8
	2800	PENT	29	PBI	1846.0	1904.0	46.0U	88.0			

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

DECEMBER 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
06	245	PALE	8	S	1903.0	1904.0	1.0	930.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1903.0	1904.0	1.0	89.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1903.0	1904.0	2.0	100.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1904.0	1904.0	1.0	46.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1904.0	1905.0	1.0	110.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1904.0	1905.0	1.0	52.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1904.0	1905.0	1.0	110.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1904.0	1904.0	U	26.0			QL=4 ST=2 TYP=3
07	235	CUBA	44	NS	1305.0E		115.0D		4.0		
	280	CUBA	44	NS	1305.0E		115.0D		18.0		
	200	HIRA	8	S	0140.0	0141.0	1.0	100.0			0
	245	LEAR	8	S	0140.0	0140.0	U	56.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0238.0	0239.0	1.0	200.0			0
	245	LEAR	8	S	0238.0	0238.0	U	52.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0436.0	0438.3	5.0	5.4			
	245	LEAR	49	GB	0437.0	0438.0	2.0	5900.0			QL=4 ST=2 TYP=6
	500	HIRA	8	S	0438.0	0438.0	1.0	30.0			0
	200	HIRA	47	GB	0438.0	0438.0	1.0	2365.0			0
	245	LEAR	8	S	0727.0	0727.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0727.0	0727.0	U	110.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0727.6	0727.7	0.4	434.0			
	204	IZMI	7	C	0731.7	0731.8	0.2	10.0			
	204	IZMI	42	SER	0738.4	0738.8	0.6	64.0			
	204	IZMI	42	SER	0744.8	0745.2	0.5	13.0			
	2840	PEKG	3	S	0800.0	0808.3	22.0	231.7			
	900	GORK	42	SER	0803.4	0858.0		84.0U			
	900	GORK	42	SER	0803.4	0806.3	55.1	74.0			
	3000	IZMI	45	C	0804.8	0808.4	12.9	332.0	42.5		
	2950	GORK	4	S/F	0805.1	0808.0U	10.1	120.0U			
	2695	LEAR	4	S/F	0806.0	0808.0	6.0	220.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0806.0	0808.0	5.0	240.0			QL=4 ST=2 TYP=3
	9100	GORK	3	S	0806.0	0808.1	6.0	68.0			
	8800	LEAR	4	S/F	0807.0	0808.0	3.0	74.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0807.0	0808.0	5.0	200.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0807.0	0808.0	5.0	220.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0807.0	0808.0	5.0	92.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0808.0	0808.0	1.0	30.0			QL=4 ST=2 TYP=3
	9100	GORK	29	PBI	0812.0	0812.0	24.0	18.0			
	600	GORK	42	SER	0826.2	0858.0		150.0			
	600	GORK	42	SER	0826.2	0855.0	32.1	28.0			
	204	IZMI	42	SER	0853.2	0853.5	0.4	20.0			
	245	LEAR	49	GB	0857.0	0858.0	1.0	510.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	0857.0	0858.0	1.0	240.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0857.0	0858.0	1.0	370.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0857.0	0858.0	1.0	300.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0857.0	0857.0	1.0	220.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0857.0	0858.0	1.0	69.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0857.9	0857.9	0.7	281.0			
	204	IZMI	42	SER	0900.9	0901.2	0.6	51.0			
	204	IZMI	7	C	0946.0	0946.1	0.1	8.0			
	900	GORK	42	SER	1005.5	1017.5		27.0			
	900	GORK	42	SER	1005.5	1005.8	50.5	6.8			
	600	GORK	42	SER	1005.7	1017.0	49.8	29.0			
	600	GORK	42	SER	1005.7	1017.5		150.0U			
	204	IZMI	42	SER	1006.3	1006.8	0.5	15.0			
	245	SVTO	8	S	1017.0	1019.0	2.0	240.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1017.0	1017.0	2.0	130.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1017.0	1017.0	U	87.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	1017.4	1017.5	0.4	660.0			
	204	IZMI	42	SER	1018.8	1019.2	0.6	353.0			
	245	SVTO	8	S	1041.0	1041.0	U	100.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	1041.3	1041.5	0.6	670.0			
	204	IZMI	7	C	1047.2	1047.2	0.2	63.0			
	204	IZMI	42	SER	1051.9	1052.2	4.0	76.0			
	204	IZMI	42	SER	1113.4	1113.5	0.9	58.0			
	204	IZMI	45	C	1126.8	1127.0	0.5	145.0			
	204	IZMI	7	C	1129.5	1129.7	0.3	67.0			
	204	IZMI	46	C	1142.9	1143.7	1.2	459.0			

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07	245	SVTO	8	S	1143.0	1143.0	1.0	97.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1511.0	1511.0	U	54.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1927.0	1928.0	1.0	380.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1928.0	1928.0	U	330.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1931.0	1931.0	1.0	940.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1932.0	1932.0	1.0	310.0			QL=4 ST=2 TYP=3
	200	HIRA	47	GB	2157.0	2157.0	1.0	3440.0			0
08	235	CUBA	44	NS	1325.0E		395.0D		5.0		
	280	CUBA	44	NS	1325.0E		395.0D		21.0		
	2804	VORO	3	S	0200.8	0217.9	17.1	32.7			
	2840	PEKG	3	S	0201.0	0207.7	16.0	23.3			
	2800	HIRA	1	S	0202.0	0208.0	10.0	35.0			0
	200	HIRA	8	S	0332.0	0332.0	1.0	70.0			0
	2840	PEKG	3	S	0603.0	0707.4	64.4	31.1			
	200	HIRA	8	S	0608.0	0608.0	1.0	25.0			0
	900	GORK	41	F	0719.2	0719.6	10.9	9.3			
	900	GORK	41	F	0719.2	0729.9		11.0			
	204	IZMI	41	F	0729.6	0729.7	0.3	38.0			
	900	GORK	46	C	0853.2	0854.2	3.3	67.0			
	900	GORK	46	C	0853.2	0855.4		12.0			
	245	LEAR	8	S	0854.0	0854.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0854.0	0854.0	U	120.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0854.0	0854.0	U	47.0			QL=4 ST=2 TYP=3
	600	GORK	46	C	0854.0	0854.2	2.5	110.0			
	204	IZMI	45	C	0854.0	0854.2	0.6	328.0			
	600	GORK	46	C	0854.0	0855.5		30.0			
	600	GORK	42	SER	0931.9	0944.2	56.1	32.0			
	600	GORK	42	SER	0931.9	1027.8		7.7			
	2800	PENT	1	S	1859.0	1902.0	6.0	14.0			
	2800	PENT	24	R	2117.0	2125.0	15.0U	14.0			
	500	HIRA	7	C	2215.0	2219.0	5.0	90.0			0
	410	LEAR	8	S	2215.0	2215.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2217.0	2218.0	2.0	300.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2218.0	2219.0	1.0	75.0			0
09	235	CUBA	44	NS	1305.0E		525.0D		6.0		
	280	CUBA	44	NS	1305.0E		525.0D		8.0		
	200	HIRA	8	S	0438.0	0438.0	1.0	10.0			
	245	LEAR	8	S	0659.0	0659.0	U	62.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0659.0	0659.0	U	25.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0659.0	0659.0	U	54.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0659.0	0659.0	U	59.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0659.2	0659.3	0.4	26.0			
	245	SVTO	8	S	1040.0	1041.0	1.0	91.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	1040.4	1041.2	1.0	168.0			
	9500	CUBA	20	GRF	1415.0	1547.0	160.0	21.0	10.0		
	9500	CUBA	2	S/F	1545.3	1546.5	4.7	12.0	6.0		
	2800	PENT	29	PBI	2027.0	2029.0	40.0	17.0			
10	127	TORN	43	NS	0937.0		263.0		1.0		V=1
	280	CUBA	44	NS	1300.0E		115.0D		19.0		
	235	CUBA	44	NS	1305.0E		115.0D		4.0		
	900	GORK	41	F	0719.2	0719.6	10.9	9.3			
	900	GORK	41	F	0719.2	0729.9		11.0			
	9100	GORK	4	S/F	0758.9	0759.2	0.6	50.0			
	600	GORK	3	S	0917.7	0917.8	0.3	24.0			
	245	LEAR	4	S/F	0932.0	0935.0	10.0	450.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	0932.4	0935.0	4.1	444.0			
	1415	LEAR	46	C	0933.0	0934.0	3.0	39.0			QL=4 ST=2 TYP=8
	4995	SVTO	48	C	0933.0	0935.0	8.0	530.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	0933.0	0935.0	6.0	1200.0			QL=4 ST=2 TYP=8
	1415	SVTO	8	S	0933.0	0935.0	2.0	45.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0933.0	0935.0	3.0	410.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0933.0	0935.0	10.0	490.0			QL=4 ST=2 TYP=3
	600	GORK	46	C	0933.0	0935.2	5.8	160.0			
	600	GORK	46	C	0933.0	0936.5		100.0			
	3000	IZMI	45	C	0933.2	0935.0	3.8	167.0	49.0		
	9100	GORK	4	S/F	0933.6	0935.7	16.1	550.0			

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

DECEMBER 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
10	900	GORK	46	C	0933.7	0934.2	3.6	26.0			
	900	GORK	46	C	0933.7	0935.3		36.0			
	127	TORN	4	S/F	0933.8	0935.5	4.2	140.0	50.0		
	610	LEAR	8	S	0934.0	0935.0	2.0	80.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0934.0	0935.0	5.0	89.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0934.0	0935.0	9.0	1100.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0934.0	0935.0	3.0	430.0			QL=4 ST=2 TYP=3
	15400	SVTO	49	GB	0934.0	0935.0	4.0	550.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	0934.0	0935.0	2.0	120.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0934.0	0935.0	2.0	120.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0934.0	0935.0	2.0	110.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0934.0	0935.0	866.0	110.0			QL=4 ST=1 TYP=3
	2695	LEAR	45	C	0941.0	0941.0	U				QL=4 ST=2 TYP=8
	127	TORN	5	S	0941.8	0942.8	1.3	100.0	50.0		
	900	GORK	41	F	0942.5	0947.0		5.8			
	900	GORK	41	F	0942.5	0943.1	5.3	13.0			
	2950	GORK	4	S/F	1033.0	1035.1	5.1	190.0			
	410	SGMR	8	S	1818.0	1818.0	U	63.0			QL=4 ST=2 TYP=3
	2800	PENT	21	GRF	1854.0	1858.0	15.0	5.0			
	245	SGMR	8	S	1920.0	1920.0	U	80.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1924.0	1924.0	U	56.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2020.0	2020.0	U	76.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	2238.0	2243.0	10.0	29.0			
	200	HIRA	8	S	2332.0	2332.0	1.0	50.0			0
11	127	TORN	43	NS	0900.0		300.0		6.0		V=1
	245	LEAR	43	NS	0939.0	0939.0	33.0	110.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1300.0E		180.0D		3.0		
	280	CUBA	44	NS	1305.0E		180.0D		20.0		
	410	PALE	8	S	0039.0	0040.0	1.0	390.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0040.0	0040.0	U	130.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0255.0	0256.0	2.0	160.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0255.0	0256.0	1.0	78.0			QL=4 ST=2 TYP=3
	500	HIRA	7	C	0327.0	0341.0	18.0	35.0			0
	200	HIRA	7	C	0328.0	0342.0	19.0	450.0			0
	245	LEAR	4	S/F	0339.0	0341.0	3.0	420.0			QL=4 ST=2 TYP=3
	410	LEAR	49	GB	0340.0	0341.0	1.0	520.0			QL=4 ST=2 TYP=6
	2840	PEKG	1	S	0340.0	0342.0	6.0	8.2			
	2804	VORO	3	S	0340.0	0342.0	4.2	12.2			
	4995	LEAR	8	S	0341.0	0342.0	2.0	71.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0341.0	0342.0	2.0	86.0			QL=4 ST=2 TYP=3
	9100	GORK	1	S	0732.2	0732.5	1.3	17.0			
	2840	PEKG	47	GB	0755.0	0804.8	30.0	2044.7			
	9100	GORK	47	GB	0759.6	0805.1	23.4	4650.0			
	4995	SVTO	49	GB	0800.0	0805.0	24.0	3000.0			QL=4 ST=2 TYP=6
	8800	SVTO	49	GB	0800.0	0805.0	25.0	5200.0			QL=4 ST=2 TYP=6
	33	UPIC	42	SER	0800.5	0801.0	21.0				
	2950	GORK	47	GB	0800.8	0805.3	18.2	3100.0			
	8800	LEAR	49	GB	0801.0	0805.0	20.0	4900.0			QL=4 ST=2 TYP=6
	3000	IZMI	45	C	0801.0	0805.2	36.1	1934.0U			
	33	UPIC	32	ABS	0801.5	0809.5	41.0U				
	900	GORK	46	C	0801.8	0805.5		1270.0			
	900	GORK	46	C	0801.8	0804.6	23.2	1300.0			
	245	LEAR	8	S	0802.0	0803.0	2.0	470.0			QL=4 ST=2 TYP=3
	410	LEAR	48	C	0802.0	0804.0	15.0	230.0			QL=4 ST=2 TYP=8
	2695	LEAR	49	GB	0802.0	0805.0	18.0	2600.0			QL=4 ST=2 TYP=6
	4995	LEAR	49	GB	0802.0	0805.0	19.0	2900.0			QL=4 ST=2 TYP=6
	15400	LEAR	49	GB	0802.0	0805.0	18.0	8100.0			QL=4 ST=2 TYP=6
	245	SVTO	48	C	0802.0	0821.0	19.0	450.0			QL=4 ST=2 TYP=8
	2695	SVTO	49	GB	0802.0	0805.0	22.0	2200.0			QL=4 ST=2 TYP=6
	15400	SVTO	49	GB	0802.0	0805.0	22.0	7000.0			QL=4 ST=2 TYP=6
	410	SVTO	48	C	0802.0	0802.0	958.0	200.0			QL=4 ST=1 TYP=8
	600	GORK	4	S/F	0802.0	0804.5	17.5	710.0			
	204	IZMI	46	C	0802.4	0803.2	4.0	1741.0			
	127	TORN	27	RF	0802.6		57.0		70.0		
	127	TORN	4	S/F	0802.6	0803.3	3.9	140.0	30.0		
	1415	LEAR	49	GB	0803.0	0804.0	12.0	1700.0			QL=4 ST=2 TYP=6
	610	SVTO	48	C	0803.0	0804.0	14.0	1400.0			QL=4 ST=2 TYP=8
	1415	SVTO	49	GB	0803.0	0819.0	16.0	1500.0			QL=4 ST=2 TYP=6

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

DECEMBER 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
11	610	LEAR	49	GB	0804.0	0804.0	7.0	760.0			QL=4 ST=2 TYP=6
	204	IZMI	41	F	0806.9	0808.2	2.8	130.0			
	410	SVTO	48	C	0807.0	0820.0	13.0	200.0			QL=4 ST=2 TYP=8
	204	IZMI	46	C	0809.7	0810.1	0.8	1118.0			
	127	TORN	4	S/F	0809.7	0811.9	2.2	420.0	220.0		
	204	IZMI	30	PBI	0810.5	0819.9	27.0	41.0			
	2950	GORK	29	PBI	0819.0	0819.0	22.4	38.0			
	9100	GORK	29	PBI	0823.0	0823.0	22.6	50.0			
	600	GORK	40	F	0830.9	0832.2	7.1	36.0			
	127	TORN	8	S	0830.9	0831.2	0.8	3300.0	1650.0		
	900	GORK	40	F	0831.6	0834.5	4.5	10.0			
	204	IZMI	7	C	0849.2	0849.4	0.4	16.0			
	9100	GORK	1	S	0900.5	0901.5	1.0	8.2			
	900	GORK	42	SER	0915.6	1024.2	97.0	50.0			
	204	IZMI	46	C	0929.1	0939.9	22.4	40.0			
	245	LEAR	48	C	0932.0	0936.0	5.0	80.0			QL=4 ST=2 TYP=8
	204	IZMI	42	SER	1017.7	1017.9	0.4	32.0			
	610	SGMR	49	GB	1443.0	1444.0	5.0	520.0			QL=4 ST=2 TYP=6
	610	SVTO	48	C	1444.0	1445.0	3.0	510.0			QL=4 ST=2 TYP=8
	245	SGMR	4	S/F	1445.0	1445.0	3.0	140.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1445.0	1445.0	3.0	190.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1445.0	1446.0	3.0	76.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1446.0	1446.0	2.0	50.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1446.0	1446.0	2.0	71.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1446.0	1446.0	1.0	440.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1450.0	1450.0	U	50.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1451.0	1451.0	U	1200.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	1451.0	1451.0	U	71.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1452.0	1452.0	U	1000.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	1652.0	1652.0	2.0	66.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1701.0	1701.0	U	49.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1713.0	1713.0	U	57.0			QL=4 ST=2 TYP=3
12	127	TORN	44	NS	0730.0E		330.0D		6.0		V=1
	235	CUBA	44	NS	1305.0E		115.0D		4.0		
	280	CUBA	44	NS	1305.0E		115.0D		18.0		
	200	HIRA	8	S	0132.0	0132.0	1.0	65.0			0
	200	HIRA	8	S	0350.0	0350.0	1.0	20.0			0
	2840	PEKG	5	S	0415.0	0417.7	7.0	19.8			
	2804	VORO	40	F	0416.6	0417.8	2.5	23.6			
	200	HIRA	8	S	0455.0	0455.0	1.0	110.0			0
	204	IZMI	42	SER	0744.9	0745.0	0.2	12.0			
	900	GORK	46	C	0846.2	0846.6	3.7	15.0			
	900	GORK	46	C	0846.2	0848.6		6.3			
	9100	GORK	2	S/F	0846.9	0848.9	3.1	13.0			
	2950	GORK	2	S/F	0848.7	0848.9	1.6	12.0			
	3000	IZMI	5	S	0848.9	0848.9	0.3	10.0	6.0		
	9100	GORK	1	S	0933.0	0933.5	0.9	9.8			
	127	TORN	4	S/F	1140.6	1143.0	4.4	180.0	70.0		
	204	IZMI	41	F	1141.1	1141.8	3.0	280.0			
	245	SVTO	8	S	1142.0	1142.0	U	59.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	1142.0	1142.8	2.0				
	204	IZMI	7	C	1146.4	1146.8	0.6	30.0			
	410	PALE	4	S/F	1400.0	2007.0	600.0	50.0			QL=4 ST=1 TYP=3
	410	SGMR	8	S	1521.0	1521.0	U	64.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1539.0	1539.0	U	48.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1539.0	1539.0	U	41.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1845.0	1845.0	1.0	320.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1846.0	1846.0	U	350.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1856.0	1905.0	36.0	427.0			
	4995	SGMR	49	GB	1903.0	1905.0	8.0	670.0			QL=4 ST=2 TYP=6
	8800	SGMR	49	GB	1903.0	1905.0	8.0	690.0			QL=4 ST=2 TYP=6
	410	SGMR	4	S/F	1903.0	1905.0	8.0	310.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1903.0	1905.0	8.0	420.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1903.0	1905.0	12.0	580.0			QL=4 ST=2 TYP=3
	8800	PALE	48	C	1904.0	1905.0	4.0	560.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	1904.0	1904.0	1.0	310.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1904.0	1905.0	1.0	290.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1904.0	1905.0	4.0	350.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

DECEMBER 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
12	15400	PALE	4	S/F	1904.0	1905.0	9.0	600.0			QL=4 ST=2 TYP=3
	15400	SGMR	49	GB	1904.0	1905.0	7.0	570.0			QL=4 ST=2 TYP=6
	245	SGMR	4	S/F	1904.0	1904.0	7.0	250.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1904.0	1905.0	7.0	120.0			QL=4 ST=2 TYP=3
	610	PALE	49	GB	1905.0	1905.0	1.0	2100.0			QL=4 ST=2 TYP=6
	1415	PALE	8	S	1905.0	1906.0	2.0	100.0			QL=4 ST=2 TYP=3
	610	SGMR	49	GB	1905.0	1905.0	6.0	700.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	1937.0	1937.0	U	58.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1938.0	1938.0	U	59.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1945.0	1949.0	11.0	590.0			QL=4 ST=2 TYP=8
	245	PALE	4	S/F	1946.0	1949.0	7.0	1500.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1948.0	1950.0	8.0	82.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1949.0	1950.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1956.0	1956.0	1.0	65.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2012.0	2012.0	U	53.0			QL=4 ST=3 TYP=3
	8800	PALE	48	C	2144.0	2202.0	136.0	68.0			QL=4 ST=2 TYP=8
	4995	PALE	48	C	2148.0	2202.0	132.0	57.0			QL=4 ST=2 TYP=8
	4995	LEAR	46	C	2151.0E	2219.0U	31.0D	37.0			QL=2 ST=2 TYP=8
	15400	PALE	48	C	2152.0	2159.0	20.0	66.0			QL=4 ST=2 TYP=8
	245	PALE	48	C	2206.0	2208.0	3.0	520.0			QL=2 ST=2 TYP=8
	8800	LEAR	8	S	2316.0	2317.0	2.0	120.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	2316.0	2317.0	2.0	130.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2317.0	2317.0	U	110.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2317.0	2317.0	U	140.0			QL=4 ST=2 TYP=3
13	127	TORN	44	NS	0730.0E		270.0D		5.0		V=2
	280	CUBA	44	NS	1300.0E		150.0D		16.0		
	200	HIRA	42	SER	0146.0	0146.0	5.0	55.0			0
	500	HIRA	7	C	0231.0	0232.0	6.0	65.0			0
	200	HIRA	8	S	0248.0	0248.0	1.0	865.0			0
	245	LEAR	8	S	0248.0	0248.0	U	220.0			QL=4 ST=2 TYP=3
	8800	LEAR	46	C	0635.0	0636.0	11.0	35.0			QL=4 ST=2 TYP=8
	15400	LEAR	46	C	0636.0	0640.0	10.0	25.0			QL=4 ST=2 TYP=8
	4995	LEAR	46	C	0637.0	0640.0	9.0	25.0			QL=4 ST=2 TYP=8
	204	IZMI	7	C	0725.1	0725.2	0.1	33.0			
	9100	GORK	1	S	0755.3	0755.9	3.0	6.5			
	204	IZMI	42	SER	0826.6	0834.2	41.3	236.0			
	9100	GORK	21	GRF	1007.5	1010.4	10.9	9.6			
	9100	GORK	1	S	1008.0	1008.3	0.6	11.0			
	8800	SVTO	4	S/F	1119.0	1123.0	761.0	29.0			QL=4 ST=1 TYP=3
	15400	SVTO	46	C	1219.0	1224.0	701.0	32.0			QL=4 ST=1 TYP=8
	33	UPIC	46	C	1300.0	1314.0	16.0				
	8800	SVTO	48	C	1423.0	1426.0	9.0	2200.0			QL=4 ST=2 TYP=8
	1415	SVTO	48	C	1423.0	1429.0	14.0	870.0			QL=4 ST=2 TYP=8
	4995	SVTO	49	GB	1423.0	1425.0	14.0	1800.0			QL=4 ST=2 TYP=6
	1415	SGMR	48	C	1423.0	1429.0	26.0	950.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1423.0	1425.0	26.0	1800.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1423.0	1425.0	25.0	1900.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1423.0	1426.0	26.0	3100.0			QL=4 ST=2 TYP=8
	2695	SVTO	49	GB	1423.0	1426.0	24.0	1600.0			QL=4 ST=2 TYP=6
	15400	SVTO	48	C	1424.0	1426.0	11.0	1600.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	1424.0	1443.0	23.0	1600.0			QL=4 ST=2 TYP=8
	280	CUBA	48	C	1424.6	1435.2	33.4	265.0	133.0		
	245	SGMR	48	C	1425.0	1432.0	24.0	8600.0			QL=4 ST=2 TYP=8
	410	SGMR	48	C	1425.0	1430.0	24.0	140.0			QL=4 ST=2 TYP=8
	245	SVTO	48	C	1425.0	1432.0	32.0	7900.0			QL=2 ST=2 TYP=8
	610	SGMR	48	C	1426.0	1428.0	23.0	200.0			QL=4 ST=2 TYP=8
	410	SVTO	48	C	1426.0	1443.0	22.0	140.0			QL=4 ST=2 TYP=8
	610	SVTO	4	S/F	1426.0	1428.0	20.0	180.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1449.0	1454.0	25.0	1000.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	1514.0	1515.0	7.0	280.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	1533.0	1533.0	1.0	60.0			QL=4 ST=2 TYP=8
14	127	TORN	44	NS	1200.0E		100.0D		4.0		V=1
	235	CUBA	44	NS	1305.0E		415.0D		5.0		
	280	CUBA	44	NS	1305.0E		415.0D		17.0		
	200	HIRA	8	S	0101.0	0101.0	1.0	90.0			0
	245	LEAR	8	S	0101.0	0101.0	U	160.0			QL=4 ST=2 TYP=3
	200	HIRA	7	C	0133.0	0134.0	4.0	25.0			0

SOLAR RADIO EMISSION
Outstanding Occurrences

DECEMBER 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
14	245	LEAR	8	S	0350.0	0350.0	U	62.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0351.0	0351.0	1.0	30.0			0
	2840	PEKG	1	S	0414.0	0416.4	5.0	7.2			
	200	HIRA	8	S	0541.0	0541.0	1.0	20.0			0
	245	LEAR	8	S	0638.0	0639.0	1.0	57.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0702.8	0705.3	3.8	7.0			
	204	IZMI	7	C	0715.7	0715.9	0.5	11.0			
	245	LEAR	8	S	0735.0	0735.0	U	67.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0735.0	0735.0	U	53.0			QL=4 ST=3 TYP=3
	204	IZMI	41	F	0735.4	0735.6	0.4	46.0			
	2950	GORK	46	C	0840.8	0907.2	85.0D	200.0			
	2950	GORK	46	C	0840.8	0919.8		90.0			
	900	GORK	46	C	0844.0	0923.4		58.0			
	900	GORK	46	C	0844.0	0916.5	64.0	68.0			
	600	GORK	21	GRF	0845.0	0916.1	58.9	24.0			
	600	GORK	1	S	0845.4	0845.6	0.4	3.4			
	33	UPIC	41	F	0846.0	0910.0	33.5				
	2695	LEAR	48	C	0846.0	0907.0	46.0	220.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	0846.0	0907.0	46.0	220.0			QL=4 ST=2 TYP=8
	2695	SVTO	4	S/F	0846.0	0907.0	46.0	220.0			QL=4 ST=2 TYP=3
	4995	LEAR	48	C	0847.0	0906.0	45.0	280.0			QL=4 ST=2 TYP=8
	4995	SVTO	48	C	0847.0	0906.0	45.0	280.0			QL=4 ST=2 TYP=8
	4995	SVTO	4	S/F	0847.0	0906.0	45.0	280.0			QL=4 ST=2 TYP=3
	3000	IZMI	46	C	0847.1	0907.2	52.0U	156.0	26.0		
	204	IZMI	42	SER	0847.8	0847.8	0.5	163.0			
	9100	GORK	21	GRF	0848.0	0929.3	96.0D	32.0			
	1415	LEAR	48	C	0850.0	0907.0	42.0	84.0			QL=4 ST=2 TYP=8
	1415	SVTO	48	C	0850.0	0907.0	42.0	76.0			QL=4 ST=2 TYP=8
	1415	SVTO	4	S/F	0850.0	0907.0	42.0	76.0			QL=4 ST=2 TYP=3
	600	GORK	46	C	0852.9	0855.5	8.8	47.0			
	600	GORK	46	C	0852.9	0856.6		49.0			
	9100	GORK	46	C	0853.1	0909.6		110.0			
	9100	GORK	46	C	0853.1	0855.7	23.2	24.0			
	204	IZMI	22	GRF	0853.7	0900.7	14.0	15.0			
	610	SVTO	4	S/F	0854.0	0856.0	906.0	30.0			QL=4 ST=1 TYP=3
	610	LEAR	46	C	0855.0	0855.0	33.0	22.0			QL=4 ST=2 TYP=8
	8800	LEAR	48	C	0855.0	0906.0	37.0	130.0			QL=4 ST=2 TYP=8
	610	SVTO	46	C	0855.0	0855.0	33.0	22.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	0855.0	0855.0	37.0	130.0			QL=4 ST=2 TYP=8
	610	SVTO	4	S/F	0855.0	0855.0	33.0	22.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0855.0	0855.0	37.0	130.0			QL=4 ST=2 TYP=3
	410	LEAR	46	C	0856.0	0857.0	36.0	38.0			QL=4 ST=2 TYP=8
	410	SVTO	46	C	0856.0	0857.0	36.0	38.0			QL=4 ST=2 TYP=8
	410	SVTO	4	S/F	0856.0	0857.0	36.0	38.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	0857.0	0926.0	35.0	420.0			QL=4 ST=2 TYP=8
	245	SVTO	48	C	0857.0	0858.0	35.0	50.0			QL=4 ST=2 TYP=8
	245	SVTO	4	S/F	0857.0	0858.0	35.0	50.0			QL=4 ST=2 TYP=3
	600	GORK	7	C	0903.0	0906.2		17.0			
	600	GORK	7	C	0903.0	0905.8	5.4	16.0			
	15400	LEAR	46	C	0905.0	0906.0	27.0	47.0			QL=4 ST=2 TYP=8
	15400	SVTO	4	S/F	0905.0	0906.0	27.0	47.0			QL=4 ST=2 TYP=3
	600	GORK	41	F	0910.6	0912.4		5.2			
	600	GORK	41	F	0910.6	0911.5	2.5	6.0			
	204	IZMI	41	F	0911.3	0911.5	0.4	40.0			
	204	IZMI	46	C	0912.2	0912.4	0.4	912.0			
	204	IZMI	41	F	0912.8	0912.9	0.4	28.0			
	204	IZMI	42	SER	0913.7	0913.7	0.2	61.0			
	600	GORK	4	S/F	0918.0	0924.0	12.4	18.0			
	204	IZMI	45	C	0923.0	0923.3	0.4	1692.0			
	204	IZMI	46	C	0926.2	0926.2	0.5	1958.0			
	245	LEAR	8	S	1005.0	1005.0	U	52.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	1005.5	1005.6	0.2	226.0			
	245	SVTO	8	S	1236.0	1236.0	U	77.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1237.0	1237.0	U	110.0			QL=4 ST=2 TYP=3
	127	TORN	45	C	1244.8	1248.4	3.9	70.0	30.0		UNCERTAIN
	245	SGMR	8	S	1453.0	1453.0	U	60.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1457.0	1458.0	1.0	130.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1946.0E	1949.0	8.0D	100.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1946.0E	1948.0	9.0D	190.0			QL=4 ST=2 TYP=3

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

Outstanding Occurrences

DECEMBER 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
14	1415	SGMR	4	S/F	1947.0E	1948.0	3.0D	65.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1948.0E	1949.0	7.0D	63.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	2228.0	2233.0	10.0	14.0			
	200	HIRA	8	S	2306.0	2307.0	2.0	65.0			0
	245	LEAR	8	S	2307.0	2307.0	U	94.0			QL=4 ST=2 TYP=3
15	235	CUBA	44	NS	1410.0E		425.0D		4.0		
	280	CUBA	44	NS	1410.0E		425.0D		13.0		
	2840	PEKG	5	S	0134.0	0137.3	7.0	11.3			
	2804	VORO	3	S	0135.0	0136.8	4.2	10.8			
	204	IZMI	42	SER	0706.5	0707.8	1.3	13.0			
	204	IZMI	7	C	0712.6	0712.6	0.1	29.0			
	900	GORK	41	F	0938.7	0939.8	2.5	22.0			
	900	GORK	41	F	0938.7	0940.9		9.9			
	33	UPIC	3	S	1007.0	1007.5	1.0				
	9100	GORK	1	S	1025.0	1025.7	4.4	8.3			
	9100	GORK	1	S	1043.8	1044.4	0.9	6.6			
	245	SVTO	8	S	1247.0	1248.0	1.0	62.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1248.0	1248.0	U	78.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1822.0	1823.0	1.0	53.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1822.0	1822.0	U	43.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1823.0	1823.0	U	72.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1823.0	1823.0	U	63.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1929.0	1929.0	U	53.0			QL=4 ST=2 TYP=3
16	127	TORN	44	NS	0730.0E		390.0D		6.0		V=0
	235	CUBA	44	NS	1305.0E		295.0D		3.0		
	280	CUBA	44	NS	1305.0E		295.0D		18.0		
	2840	PEKG	20	GRF	0115.0	0117.9	17.0	17.5			
	2804	VORO	46	C	0116.3	0118.3	4.7	19.9			
	2804	VORO	30	PBI	0121.0	0121.0	34.0	10.2			
	200	HIRA	8	S	0122.0	0123.0	1.0	145.0			0
	2840	PEKG	3	S	0140.0	0143.9	10.0	14.4			
	2804	VORO	41	F	0143.5	0144.0	1.8	12.4			
	2804	VORO	41	F	0143.5	0146.6	3.1	5.6			
	2840	PEKG	3	S	0320.0	0326.1	12.0	19.2			
	2804	VORO	3	S	0323.1	0325.9	5.3	21.1			
	2840	PEKG	5	S	0448.0	0450.2	5.0	13.2			
	2840	PEKG	5	S	0731.0	0736.5	9.0	10.3			
	3000	IZMI	42	SER	0734.0	0736.7	9.0	17.0			
	4995	LEAR	8	S	0736.0	0736.0	1.0	51.0			QL=4 ST=2 TYP=3
	9100	GORK	1	S	0736.1	0736.7	1.3	18.0			
	2840	PEKG	1	S	0741.0	0742.4	4.0	7.7			
	2950	GORK	1	S	0742.0	0742.7	1.5	9.3			
	900	GORK	42	SER	0815.5	0836.3		14.0			
	900	GORK	42	SER	0815.5	0821.3	21.5	7.9			
	204	IZMI	42	SER	0924.6	0927.2	7.4	76.0			
	245	SGMR	8	S	1850.0	1850.0	U	68.0			QL=4 ST=2 TYP=3
17	235	CUBA	44	NS	1305.0E		175.0D		2.0		
	280	CUBA	44	NS	1305.0E		175.0D		17.0		
	600	GORK	42	SER	0712.7	0713.1	10.6	7.3			
	600	GORK	42	SER	0712.7	0719.9		21.0			
	600	GORK	42	SER	0837.9	0844.0	12.2	4.8			
	600	GORK	42	SER	0837.9	0853.8		4.8			
18	280	CUBA	44	NS	1305.0E		525.0D		15.0		
	127	TORN	44	NS	1320.0E		40.0D		6.0		V=1
	2840	PEKG	5	S	0440.0	0442.5	6.0	15.0			
	4995	LEAR	4	S/F	0442.0	0442.0	3.0	27.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	0442.0	0442.0	3.0	22.0			QL=2 ST=2 TYP=3
	9100	GORK	1	S	0710.6	0710.9	0.5	13.0			
	2840	PEKG	3	S	0743.0	0753.0	14.0	19.7			
	2950	GORK	46	C	0748.6	0752.3		19.0			
	2950	GORK	46	C	0748.6	0749.7	12.4	12.0			
	3000	IZMI	45	C	0749.2	0753.2	15.2	23.0	6.4		
	9100	GORK	2	S/F	0751.4	0752.2	8.6	12.0			
	900	GORK	42	SER	0802.0	0902.1		7.6			
	900	GORK	42	SER	0802.0	0809.9	69.6	5.9			

SOLAR RADIO EMISSION
Outstanding Occurrences

DECEMBER 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
18	2800	PENT	29	PBI	1957.0	2001.0	4.0U	35.0			
	245	SGMR	8	S	2000.0	2001.0	1.0	270.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2001.0	2001.0	U	250.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2001.0	2001.0	U	76.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2001.0	2001.0	U	43.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2001.0	2001.0	U	44.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2001.0	2001.0	U	32.0			QL=4 ST=2 TYP=3
19	2840	PEKG	45	C	0229.0	0231.6	7.0	28.2			
	2800	HIRA	1	S	0230.0	0232.0	2.0	30.0			0
	500	HIRA	8	S	0230.0	0231.0	2.0	320.0			0
	200	HIRA	47	GB	0230.0	0231.0	2.0	1260.0			0
	245	LEAR	49	GB	0230.0	0230.0	1.0	590.0			QL=2 ST=2 TYP=6
	245	LEAR	8	S	0230.0	0230.0	1.0	590.0			QL=2 ST=2 TYP=3
	245	PALE	49	GB	0230.0	0230.0	1.0	770.0			QL=4 ST=2 TYP=6
	410	PALE	49	GB	0230.0	0231.0	1.0	730.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	0231.0	0231.0	1.0	230.0			QL=2 ST=2 TYP=3
	1415	LEAR	8	S	0231.0	0231.0	U	23.0			QL=2 ST=2 TYP=3
	2950	GORK	20	GRF	0822.2	0857.0	158.0D	25.0			
	900	GORK	2	S/F	1001.0	1001.5	1.6	11.0			
	900	GORK	4	S/F	1003.6	1003.9	0.6	25.0			
	204	IZMI	42	SER	1036.3	1037.0	1.2	299.0			
	33	UPIC	46	C	1037.0	1038.5	3.0				
	3000	IZMI	20	GRF	1037.8	1038.6	5.6	11.0	4.0		
	245	SVTO	8	S	1038.0	1038.0	U	130.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1038.0	1038.4	0.9	39.0			
	204	IZMI	42	SER	1039.5	1040.3	0.8	48.0			
	245	SGMR	4	S/F	1256.0	1256.0	3.0	53.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1258.0	1258.0	1.0	340.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1258.0	1258.0	1.0	33.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1258.0	1258.0	U	49.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1258.0	1258.0	U	310.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1258.0	1258.0	U	25.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1258.0	1258.0	U	59.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1258.0	1258.0	U	26.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1258.0	1258.0	U	34.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1258.0	1258.0	U	36.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1301.0	1301.0	U	62.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1301.0	1301.0	U	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1354.0	1354.0	1.0	160.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1354.0	1354.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1656.0	1656.0	U	310.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1656.0	1656.0	U	110.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1701.0	1704.0	6.0	26.0			
	610	SGMR	8	S	1704.0	1704.0	U	36.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1704.0	1704.0	1.0	62.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1708.0	1708.0	U	53.0			QL=4 ST=2 TYP=3
20	200	HIRA	8	S	0537.0	0537.0	1.0	100.0			0
	245	LEAR	8	S	0537.0	0537.0	U	50.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0943.9	0944.2	1.2	20.0			
	33	UPIC	3	S	1113.5	1114.0	1.0				
21	235	CUBA	44	NS	1500.0E		300.0D		6.0		
	280	CUBA	44	NS	1500.0E		410.0D		19.0		
	127	TORN	4	S/F	0806.0	0806.7	2.5	140.0	40.0		
	2950	GORK	1	S	0807.3	0808.1	1.9	6.2			
	2950	GORK	1	S	0916.6	0917.1	0.9	5.6			
	900	GORK	42	SER	0933.5	0943.1		17.0			
	900	GORK	42	SER	0933.5	0934.6	9.9	5.4			
	9100	GORK	1	S	0937.8	0938.2	0.7	22.0			
22	204	IZMI	43	NS	0950.0		130.0D		5.0		
	235	CUBA	44	NS	1400.0E		240.0D		5.0		
	280	CUBA	44	NS	1400.0E		240.0D		22.0		
	204	IZMI	7	C	0856.7	0856.7	0.1	19.0			
23	204	IZMI	44	NS	0700.0E		44.0D		15.0		
	127	TORN	43	NS	0740.0	0821.6	380.0	20.0	15.0		V=0

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

Outstanding Occurrences

DECEMBER 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
23	235	CUBA	44	NS	1305.0E		355.0D		3.0		
	280	CUBA	44	NS	1305.0E		355.0D		17.0		
	245	PALE	43	NS	1840.0	1843.0	320.0	150.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	1840.0	1928.0	320.0	380.0			QL=4 ST=1 TYP=1
	245	SGMR	43	NS	1840.0	1843.0	320.0	100.0			QL=4 ST=3 TYP=1
	33	UPIC	41	F	0958.0	1008.0	92.0				UNCERTN
	3000	IZMI	40	F	1042.3	1044.2	2.2	15.0			
	245	SVTO	4	S/F	1424.0	1426.0	3.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1426.0	1426.0	U	190.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1434.0	1435.0	1.0	56.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1842.0	1843.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	2312.0	2312.0	3.0	79.0			QL=4 ST=2 TYP=3
24	245	SGMR	43	NS	1548.0	1559.0	81.0	170.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1830.0E		200.0D		11.0		
	280	CUBA	44	NS	1830.0E		200.0D		24.0		
	245	SGMR	43	NS	1832.0	2025.0	121.0	110.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1832.0	2025.0	328.0	110.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	1840.0	1928.0	537.0	380.0			QL=4 ST=2 TYP=1
	200	HIRA	42	SER	0019.0	0020.0	14.0	40.0			0
	2840	PEKG	3	S	0024.0	0028.9	20.0	60.2			
	2800	HIRA	4	S/F	0026.0	0028.0	9.0	70.0			0
	500	HIRA	4	S/F	0026.0	0033.0	12.0	35.0			0
	245	LEAR	48	C	0027.0	0027.0	5.0	62.0			QL=4 ST=2 TYP=8
	610	LEAR	48	C	0027.0	0032.0	8.0	90.0			QL=4 ST=2 TYP=8
	8800	LEAR	48	C	0027.0	0031.0	8.0	200.0			QL=4 ST=2 TYP=8
	2804	VORO	40	F	0027.5	0031.8	8.1	62.0			
	1415	LEAR	48	C	0028.0	0032.0	5.0	110.0			QL=4 ST=2 TYP=8
	15400	LEAR	48	C	0028.0	0032.0	6.0	130.0			QL=4 ST=2 TYP=8
	4995	LEAR	4	S/F	0028.0	0031.0	4.0	95.0			QL=4 ST=2 TYP=3
	4995	PALE	48	C	0028.0	0031.0	6.0	110.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	0028.0	0032.0	7.0	180.0			QL=4 ST=2 TYP=8
	2695	PALE	48	C	0029.0	0032.0	3.0	71.0			QL=4 ST=2 TYP=8
	1415	PALE	8	S	0031.0	0033.0	2.0	110.0			QL=4 ST=2 TYP=3
	410	LEAR	46	C	0032.0	0032.0	U	21.0			QL=4 ST=2 TYP=8
	410	LEAR	8	S	0032.0	0032.0	U	21.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	0032.0	0032.0	1.0	89.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0033.0	0033.0	U	120.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0035.0	0035.0	U	23.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0044.0	0044.0	U	84.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0226.0	0226.0	1.0	53.0			QL=4 ST=2 TYP=3
	3000	IZMI	22	GRF	0745.5	0750.1	12.5	15.0	7.0		
	245	LEAR	8	S	0801.0	0801.0	1.0	120.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0801.0	0801.0	1.0	28.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0801.0	0801.0	U	100.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0801.0	0801.0	U	38.0			QL=4 ST=2 TYP=3
	127	TORN	27	RF	1312.0		30.0		60.0		
	2695	SGMR	48	C	1354.0	1355.0	11.0	100.0			QL=4 ST=2 TYP=8
	4995	SVTO	48	C	1354.0	1356.0	16.0	140.0			QL=4 ST=2 TYP=8
	2695	SVTO	4	S/F	1354.0	1355.0	16.0	98.0			QL=4 ST=2 TYP=3
	4995	SGMR	48	C	1355.0	1356.0	6.0	80.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1355.0	1356.0	6.0	150.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	1355.0	1356.0	6.0	240.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	1355.0	1355.0	U	82.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1355.0	1356.0	2.0	38.0			QL=4 ST=2 TYP=3
	15400	SVTO	48	C	1355.0	1356.0	15.0	180.0			QL=4 ST=2 TYP=8
	610	SGMR	8	S	1358.0	1358.0	1.0	40.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1358.0	1358.0	1.0	67.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1359.0	1359.0	U	98.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1359.0	1359.0	U	170.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1359.0	1359.0	U	270.0			QL=4 ST=2 TYP=3
	127	TORN	27	RF	1410.0		10.0D		140.0U		
	2695	SGMR	8	S	1411.0	1412.0	1.0	57.0			QL=4 ST=2 TYP=3
	4995	SGMR	20	GRF	1540.0	1645.0	109.0	45.0			QL=4 ST=2 TYP=2
	8800	SGMR	20	GRF	1540.0	1608.0	109.0	55.0			QL=4 ST=2 TYP=2
	15400	SGMR	20	GRF	1540.0	1555.0	108.0	43.0			QL=4 ST=2 TYP=2
	15400	SGMR	20	GRF	1728.0	1728.0	U	21.0			QL=4 ST=2 TYP=2
	2800	PENT	1	S	2233.0	2238.0	10.0	37.0			
	2695	LEAR	8	S	2238.0	2238.0	1.0	32.0			QL=2 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

DECEMBER 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
24	4995	LEAR	8	S	2238.0	2239.0	2.0	58.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	2356.0	2356.0	1.0	63.0			QL=4 ST=2 TYP=3
25	204	IZMI	43	NS	0600.0		220.0U		45.0		
	245	LEAR	43	NS	0719.0	0824.0	178.0	180.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1334.0	1551.0	224.0	170.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	1340.0E		380.0D		32.0		
	245	PALE	43	NS	1736.0	1736.0	384.0	85.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	1736.0	1915.0	384.0	190.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	1832.0	0115.0	509.0	180.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1904.0	1916.0	12.0	160.0			QL=4 ST=2 TYP=1
	410	PALE	43	NS	2058.0	2117.0	182.0	100.0			QL=4 ST=1 TYP=1
	245	LEAR	8	S	0159.0	0159.0	2.0	68.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0401.0	0401.0	U	75.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0434.0	0434.0	U	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0538.0	0538.0	U	90.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0659.0	0702.5	15.0	36.7			
	245	LEAR	46	C	0702.0	0702.0	U	44.0			QL=4 ST=2 TYP=8
	2695	LEAR	46	C	0703.0	0703.0	1.0	30.0			QL=4 ST=2 TYP=8
	4995	LEAR	46	C	0703.0	0703.0	U	21.0			QL=4 ST=2 TYP=8
	610	LEAR	8	S	0703.0	0703.0	U	420.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0703.0	0703.0	U	430.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0706.0	0707.0	3.0	55.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0706.0	0707.0	3.0	60.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0707.0	0707.0	2.0	31.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0707.0	0707.0	2.0	37.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0707.0	0707.0	U	57.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0707.0	0707.0	1.0	72.0			QL=4 ST=2 TYP=3
	900	GORK	46	C	0810.8	0811.2		4.8			
	900	GORK	46	C	0810.8	0810.9	0.8	11.0			
	2950	GORK	22	GRF	0819.0	0958.0		34.0			
	2950	GORK	22	GRF	0819.0	0936.0	125.0D	33.0			
	9100	GORK	20	GRF	0830.0	1024.0U	114.0D	18.0			
	204	IZMI	42	SER	1120.4	1121.0	1.6	7.0			
	33	UPIC	46	C	1140.0	1142.0	3.5				UNCERTN
	245	SVTO	8	S	1210.0	1210.0	2.0	82.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1334.0	1334.0	U	63.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1401.5	1404.5	4.0				
	245	SVTO	8	S	1446.0	1448.0	2.0	69.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1548.0	1548.0	U	57.0			QL=4 ST=2 TYP=3
	280	CUBA	27	RF	2026.0	2100.0	84.0	55.0U	27.0		SUNSET
	245	SGMR	8	S	2038.0	2038.0	U	83.0			QL=4 ST=2 TYP=3
	410	PALE	48	C	2310.0	2310.0	U	83.0			QL=4 ST=2 TYP=8
	610	PALE	8	S	2310.0	2310.0	1.0	200.0			QL=4 ST=2 TYP=3
	2800	HIRA	3	S	2311.0	2312.0	3.0	50.0			0
	610	LEAR	8	S	2311.0	2312.0	1.0	130.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	2311.0	2312.0	2.0	41.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	2311.0	2313.0	2.0	48.0			QL=4 ST=2 TYP=3
	4995	PALE	48	C	2311.0	2311.0	1.0	50.0			QL=4 ST=2 TYP=8
	8800	PALE	46	C	2311.0	2311.0	U	44.0			QL=4 ST=2 TYP=8
	500	HIRA	8	S	2312.0	2312.0	1.0	75.0			0
	245	LEAR	8	S	2312.0	2312.0	U	96.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	2312.0	2313.0	2.0	36.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	2313.0	2313.0	U	22.0			QL=4 ST=2 TYP=3
26	245	LEAR	43	NS	0016.0	0102.0	509.0	450.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0700.0E		300.0D		20.0		
	245	SVTO	43	NS	0707.0	0710.0	83.0	67.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0740.0E		380.0D		18.0		V=1
	235	CUBA	44	NS	1335.0E		495.0D		13.0		
	280	CUBA	44	NS	1335.0E		495.0D		25.0		
	245	PALE	43	NS	1736.0	1400.0	579.0	190.0			QL=4 ST=2 TYP=1
	410	PALE	43	NS	2058.0	1400.0	377.0	100.0			QL=4 ST=2 TYP=1
	2840	PEKG	47	GB	0427.0	0513.4	149.0	2606.2			
	2800	HIRA	47	GB	0430.0	0514.0	134.0	2630.0			0
	2804	VORO	47	GB	0430.0	0513.1	150.0D	23940.0			
	500	HIRA	7	C	0431.0	0624.0	139.0	170.0			0
	4995	LEAR	48	C	0435.0	0512.0	145.0	3900.0			QL=4 ST=2 TYP=8
	2695	LEAR	48	C	0438.0	0513.0	137.0	2600.0			QL=4 ST=2 TYP=8

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

DECEMBER 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
26	8800	LEAR	48	C	0439.0	0512.0	147.0	3800.0			QL=4 ST=2 TYP=8
	200	HIRA	7	C	0446.0	0453.0	133.0	105.0			0
	1415	LEAR	48	C	0447.0	0514.0	121.0	640.0			QL=4 ST=2 TYP=8
	15400	LEAR	48	C	0453.0	0507.0	109.0	1800.0			QL=4 ST=2 TYP=8
	410	LEAR	48	C	0455.0	0557.0	108.0	180.0			QL=4 ST=2 TYP=8
	610	LEAR	48	C	0501.0	0624.0	103.0	300.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	0638.0E	0703.0U	57.0D	280.0			QL=4 ST=2 TYP=8
	4995	SVTO	48	C	0640.0E	0644.0U	55.0D	240.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	0642.0E	0646.0U	53.0D	140.0			QL=4 ST=2 TYP=8
	1415	SVTO	48	C	0644.0E	0730.0U	50.0D	58.0			QL=4 ST=2 TYP=8
	15400	SVTO	48	C	0649.0E	0721.0U	46.0D	100.0			QL=4 ST=2 TYP=8
	3000	IZMI	20	GRF	0915.1	0915.4	0.6	15.0	8.0		
	410	SVTO	8	S	0947.0	0948.0	1.0	74.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1023.9	1025.7	2.5	184.0			
	245	SVTO	8	S	1025.0	1025.0	U	170.0			QL=4 ST=3 TYP=3
	204	IZMI	45	C	1027.2	1027.4	0.5	169.0			
	4995	SVTO	4	S/F	1224.0	1225.0	4.0	160.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1224.0	1225.0	4.0	290.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1224.0	1225.0	4.0	300.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1225.0	1225.0	2.0	71.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1402.0	1402.0	U	320.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1402.0	1402.0	U	240.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1410.0	1411.0	1.0	430.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1410.0	1410.0	1.0	41.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1411.0	1411.0	U	30.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1411.0	1411.0	U	310.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1411.0	1411.0	U	60.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1458.0	1458.0	U	300.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1458.0	1458.0	U	190.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1557.0	1557.0	U	66.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1606.0	1606.0	U	140.0			QL=4 ST=2 TYP=3
	2800	PENT	40	F	1711.0	1715.0	10.0	16.0			
	8800	SGMR	8	S	1716.0	1716.0	1.0	96.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1716.0	1716.0	U	100.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	2028.0	2028.0	U	62.0			QL=4 ST=2 TYP=8
	245	PALE	48	C	2031.0	2031.0	U	64.0			QL=4 ST=2 TYP=8
	2800	PENT	41	F	2031.0	2114.0	60.0	24.0			
	8800	PALE	8	S	2112.0	2113.0	1.0	67.0			QL=4 ST=3 TYP=3
	200	HIRA	8	S	2149.0	2150.0	3.0	250.0			WL
27	204	IZMI	44	NS	0700.0E		300.0D		10.0		
	127	TORN	44	NS	0740.0E		380.0D		17.0		V=2
	235	CUBA	44	NS	1305.0E		235.0D		8.0		
	280	CUBA	44	NS	1305.0E		235.0D		21.0		
	245	SGMR	43	NS	1733.0	1844.0	128.0	73.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0011.0	0011.0	U	76.0			QL=4 ST=2 TYP=3
	2804	VORO	40	F	0340.8	0342.0	3.2	18.0			
	8800	LEAR	8	S	0342.0	0342.0	U	30.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0343.0	0344.0	2.0	63.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0532.0	0535.9	9.0	14.4			
	2840	PEKG	3	S	0558.0	0603.4	14.0	30.7			
	2695	LEAR	8	S	0603.0	0603.0	U	26.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0603.0	0603.0	U	27.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0805.0	0805.0	U	110.0			QL=2 ST=2 TYP=3
	600	GORK	8	S	0805.0	0805.1	0.3	33.0			
	9100	GORK	1	S	0937.6	0937.9	0.6	9.6			
	3000	IZMI	1	S	0937.8	0937.9	0.3	11.0	5.0		
	245	LEAR	8	S	1017.0	1017.0	U	66.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	1017.0	1017.0	U	82.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1110.0	1110.0	U	59.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1128.0	1131.0	4.0	130.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1128.0	1131.0	5.0	190.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1129.0	1131.0	3.0	120.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1131.0	1131.0	U	45.0			QL=4 ST=3 TYP=3
	2695	SVTO	8	S	1131.0	1131.0	1.0	44.0			QL=4 ST=2 TYP=3
	127	TORN	48	C	1313.8	1314.5	4.7	410.0	50.0		
	245	SGMR	49	GB	1339.0	1340.0	1.0	680.0			QL=4 ST=2 TYP=6
	245	SVTO	8	S	1339.0	1340.0	1.0	470.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1406.0	1406.0	U	72.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

DECEMBER 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
27	245	SVTO	8	S	1406.0	1406.0	U	83.0			QL=4 ST=2 TYP=3
	4995	SGMR	48	C	1647.0	1650.0	41.0	470.0			QL=4 ST=2 TYP=8
	610	SGMR	48	C	1648.0	1650.0	21.0	150.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1648.0	1650.0	40.0	430.0			QL=4 ST=2 TYP=8
	1415	SGMR	48	C	1649.0	1652.0	20.0	110.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1649.0	1652.0	23.0	110.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	1649.0	1650.0	39.0	220.0			QL=4 ST=2 TYP=8
	410	SGMR	48	C	1650.0	1654.0	20.0	210.0			QL=4 ST=2 TYP=8
	280	CUBA	48	C	1656.3	1903.4	245.5	204.0	102.0		
	235	CUBA	48	C	1656.3	1905.8	245.0	47.0	24.0		
	4995	SGMR	4	S/F	1746.0	1750.0	6.0	120.0			QL=4 ST=2 TYP=3
	410	PALE	48	C	1747.0	1749.0	3.0	220.0			QL=4 ST=2 TYP=8
	410	SGMR	4	S/F	1747.0	1749.0	5.0	210.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1747.0	1749.0	5.0	44.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1748.0	1749.0	4.0	40.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1749.0	1750.0	3.0	30.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1749.0	1749.0	3.0	50.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1749.0	1749.0	3.0	22.0			QL=4 ST=2 TYP=3
	410	PALE	48	C	1752.0	1753.0	3.0	240.0			QL=4 ST=2 TYP=8
	410	SGMR	4	S/F	1752.0	1754.0	7.0	230.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1752.0	1754.0	8.0	100.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1752.0	1754.0	6.0	48.0			QL=4 ST=2 TYP=3
	610	PALE	48	C	1753.0	1753.0	2.0	68.0			QL=4 ST=2 TYP=8
	610	SGMR	4	S/F	1753.0	1755.0	5.0	110.0			QL=4 ST=2 TYP=3
	410	SGMR	48	C	1800.0	1802.0	6.0	100.0			QL=4 ST=2 TYP=8
	410	PALE	48	C	1801.0	1801.0	U	76.0			QL=4 ST=2 TYP=8
	410	PALE	4	S/F	1811.0	1812.0	3.0	460.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1833.0	1835.0	3.0	470.0			QL=4 ST=2 TYP=3
	410	SGMR	48	C	1840.0	1854.0	28.0	420.0			QL=4 ST=2 TYP=8
	410	PALE	48	C	1841.0	1853.0	22.0	460.0			QL=4 ST=2 TYP=8
	245	PALE	48	C	1859.0	1901.0	5.0	110.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	1859.0	1902.0	9.0	140.0			QL=4 ST=2 TYP=8
	610	PALE	8	S	2006.0	2006.0	U	270.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	2006.0	2006.0	U	82.0			QL=4 ST=2 TYP=3
28	127	TORN	44	NS	0740.0E		380.0D		18.0		V=1
	235	CUBA	44	NS	1305.0E		415.0D		7.0		
	280	CUBA	44	NS	1305.0E		415.0D		19.0		
	245	LEAR	8	S	0102.0	0103.0	1.0	77.0			QL=4 ST=2 TYP=3
	2840	PEKG	47	GB	0335.0	0347.2	45.0	420.7			
	4995	LEAR	49	GB	0344.0	0347.0	10.0	1200.0			QL=4 ST=2 TYP=6
	2804	VORO	46	C	0344.4	0347.0	16.6	371.0			
	8800	LEAR	49	GB	0345.0	0347.0	8.0	1100.0			QL=4 ST=2 TYP=6
	2695	LEAR	4	S/F	0345.0	0347.0	9.0	270.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0346.0	0346.0	3.0	230.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0427.0	0428.0	3.0	75.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0458.0	0500.0	4.0	5.6			
	2840	PEKG	3	S	0647.0	0650.4	12.0	16.6			
	900	GORK	4	S/F	0831.0	0835.9	7.3	18.0			
	2950	GORK	46	C	0835.0	0837.5		14.0			
	3000	IZMI	45	C	0835.0	0835.8	3.6	49.0	17.0		
	2950	GORK	46	C	0835.0	0835.9	3.6	40.0			
	9100	GORK	7	C	0835.2	0836.0	3.5	13.0			
	600	GORK	45	C	0835.2	0836.0		12.0			
	9100	GORK	7	C	0835.2	0837.6		13.0			
	600	GORK	45	C	0835.2	0835.7	1.2	31.0			
	204	IZMI	42	SER	0942.6	0943.4	2.0	44.0			
	3000	IZMI	5	S	0943.0	0944.2	2.5	11.0	5.0		
	204	IZMI	42	SER	0944.9	0946.4	2.1	44.0			
	204	IZMI	41	F	0951.7	0952.2	1.2	33.0			
	204	IZMI	42	SER	1022.4	1022.6	1.2	65.0			
	245	SGMR	8	S	1653.0	1653.0	1.0	110.0			QL=4 ST=2 TYP=3
	2800	PENT	47	GB	1903.0	2231.0U	208.0U	500.0U			
	410	PALE	48	C	1937.0	1938.0	5.0	160.0			QL=4 ST=2 TYP=8
	245	PALE	4	S/F	1937.0	1938.0	4.0	480.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1937.0	1938.0	4.0	130.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1938.0	1938.0	3.0	340.0			QL=4 ST=2 TYP=3
	2695	SGMR	48	C	1942.0	2005.0	42.0	760.0			QL=4 ST=2 TYP=8
	15400	PALE	48	C	1944.0	2017.0	81.0	1400.0			QL=4 ST=2 TYP=8

SOLAR RADIO EMISSION

Outstanding Occurrences

DECEMBER 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
28	4995	SGMR	48	C	1946.0	2004.0	38.0	2700.0			QL=4 ST=2 TYP=8
	2695	PALE	48	C	1946.0	2015.0	68.0	1600.0			QL=4 ST=2 TYP=8
	1415	SGMR	48	C	1946.0	1952.0	254.0	110.0			QL=4 ST=1 TYP=8
	1415	SGMR	4	S/F	1946.0	1952.0	254.0	110.0			QL=4 ST=1 TYP=3
	1415	PALE	48	C	1949.0	2023.0	56.0	380.0			QL=4 ST=2 TYP=8
	4995	PALE	48	C	1949.0	2015.0	76.0	2900.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1950.0	2004.0	31.0	1900.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	1957.0	2015.0	36.0	1100.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	1959.0	2000.0	1.0	700.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2003.0	2003.0	U	55.0			QL=4 ST=2 TYP=3
	610	PALE	46	C	2004.0	2006.0	3.0	40.0			QL=4 ST=2 TYP=8
	610	SGMR	46	C	2004.0	2006.0	3.0	27.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	2005.0	2009.0	4.0	58.0			QL=4 ST=2 TYP=8
	410	SGMR	46	C	2005.0	2006.0	2.0	22.0			QL=4 ST=2 TYP=8
	410	PALE	46	C	2006.0	2006.0	U	33.0			QL=4 ST=2 TYP=8
	1415	SGMR	48	C	2011.0	2012.0	4.0	58.0			QL=4 ST=2 TYP=8
	245	PALE	49	GB	2051.0	2053.0	2.0	820.0			QL=4 ST=2 TYP=6
	8800	PALE	48	C	2152.0	2155.0	5.0	140.0			QL=4 ST=2 TYP=8
	4995	PALE	48	C	2152.0	2155.0	11.0	190.0			QL=4 ST=2 TYP=8
	2695	LEAR	48	C	2158.0E	2158.0U	52.0D	61.0			QL=2 ST=2 TYP=8
	4995	LEAR	48	C	2158.0E	2204.0U	52.0D	87.0			QL=2 ST=2 TYP=8
	8800	LEAR	46	C	2158.0E	2219.0U	52.0D	48.0			QL=2 ST=2 TYP=8
	15400	LEAR	48	C	2158.0E	2223.0U	60.0D	81.0			QL=2 ST=2 TYP=8
	2695	PALE	8	S	2202.0	2202.0	1.0	34.0			QL=4 ST=2 TYP=3
29	127	TORN	43	NS	0820.0		310.0		7.0		V=0
	2840	PEKG	20	GRF	0219.0	0232.1	28.0	19.2			
	200	HIRA	8	S	0339.0	0340.0	1.0	15.0			0
	600	GORK	41	F	0717.3	0717.5	2.6	30.0			
	600	GORK	41	F	0717.3	0719.7		5.8			
	2950	GORK	21	GRF	0831.0	0954.0	140.0	20.0			
	600	GORK	40	F	0842.9	0843.3	1.0	4.9			
	900	GORK	4	S/F	0846.3	0847.1	1.2	21000.0			
	204	IZMI	42	SER	0912.9	0913.3	0.9	38.0			
	127	TORN	42	SER	0932.0U	0933.0U	18.8D	1100.0	130.0		
	245	LEAR	48	C	0939.0	0944.0	9.0	5700.0			QL=4 ST=2 TYP=8
	610	LEAR	46	C	0939.0	0941.0	9.0	49.0			QL=4 ST=2 TYP=8
	1415	LEAR	46	C	0939.0	0941.0	9.0	45.0			QL=4 ST=2 TYP=8
	2695	LEAR	48	C	0939.0	0939.0	9.0	98.0			QL=4 ST=2 TYP=8
	4995	LEAR	48	C	0939.0	0941.0	9.0	80.0			QL=4 ST=2 TYP=8
	8800	LEAR	48	C	0939.0	0943.0	9.0	130.0			QL=4 ST=2 TYP=8
	15400	LEAR	48	C	0939.0	0943.0	9.0	64.0			QL=4 ST=2 TYP=8
	245	SVTO	48	C	0939.0	0944.0	7.0	8000.0			QL=4 ST=2 TYP=8
	410	SVTO	4	S/F	0939.0	0942.0	4.0	350.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	0939.0	0941.0	3.0	59.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	0939.0	0940.0	4.0	57.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0939.0	0939.0	4.0	100.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0939.0	0939.0	6.0	75.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0939.0	0941.0	12.0	140.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0939.0	0943.0	12.0	220.0			QL=4 ST=2 TYP=3
	9100	GORK	21	GRF	0939.0	1056.4	77.4	50.0			
	204	IZMI	46	C	0939.0	0939.6	4.0	3535.0			
	9100	GORK	3	S	0939.0	0939.7	1.5	27.0			
	2950	GORK	45	C	0939.0	0941.9		80.0			
	2950	GORK	45	C	0939.0	0939.9U	6.0	100.0U			
	600	GORK	46	C	0939.2	0942.0		75.0			
	600	GORK	46	C	0939.2	0941.2	6.3	60.0			
	3000	IZMI	45	C	0939.2	0939.8	1.3	75.0	32.0		
	900	GORK	46	C	0939.3	0940.0	7.0	39.0			
	900	GORK	46	C	0939.3	0942.3		45.0			
	410	LEAR	4	S/F	0940.0	0942.0	8.0	360.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	0940.0	0940.5	4.0				
	9100	GORK	46	C	0941.5	0943.6		117.0			
	9100	GORK	46	C	0941.5	0941.8	3.5	80.0			
	204	IZMI	46	C	0943.2	0944.2	4.3	13020.0			
	33	UPIC	31	ABS	0944.0	0946.0	12.0U				
	204	IZMI	42	SER	0948.7	0949.4	0.9	20.0			
	9100	GORK	4	S/F	0949.8	0951.7	4.6	90.0			
	8800	LEAR	48	C	0950.0	0951.0	3.0	92.0			QL=4 ST=2 TYP=8

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

DECEMBER 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
29	15400	LEAR	46	C	0950.0	0950.0	U	36.0			QL=4 ST=2 TYP=8
	4995	LEAR	48	C	0950.0	0951.0	11.0	69.0			QL=4 ST=2 TYP=8
	15400	SVTO	8	S	0951.0	0951.0	2.0	34.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0951.0	0951.0	14.0	120.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0951.0	0951.0	14.0	160.0			QL=4 ST=2 TYP=3
	3000	IZMI	20	GRF	0951.8	0954.1	10.6	19.0	10.0		
	204	IZMI	7	C	1138.4	1138.5	0.1	25.0			
	204	IZMI	41	F	1141.4	1141.6	0.4	29.0			
	8800	SGMR	48	C	1635.0	1639.0	16.0	320.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	1637.0	1639.0	14.0	87.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	1834.0	1834.0	U	150.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1834.0	1834.0	U	100.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1835.0	1835.0	U	39.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1930.0	1930.0	4.0	63.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1930.0	1930.0	4.0	52.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	2007.0	2009.0	3.0	200.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2008.0	2009.0	2.0	150.0			QL=4 ST=2 TYP=3
30	235	CUBA	44	NS	1335.0E		495.0D		6.0		
	280	CUBA	44	NS	1335.0E		495.0D		16.0		
	235	CUBA	48	C	1429.1	1431.6	21.0	176.0	88.0		
	280	CUBA	48	C	1429.1	1431.6	21.0	304.0U	152.0		
	245	SGMR	8	S	1431.0	1431.0	1.0	100.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1431.0	1431.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1431.0	1431.0	1.0	91.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1431.0	1431.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1435.0	1436.0	2.0	880.0			QL=4 ST=2 TYP=6
	245	SVTO	8	S	1435.0	1436.0	2.0	420.0			QL=4 ST=2 TYP=3
	200	HIRA	7	C	2331.0	2331.0	8.0	50.0			0
31	127	TORN	43	NS	0828.0		320.0		8.0		V=0
	235	CUBA	44	NS	1400.0E		400.0D		8.0		
	280	CUBA	44	NS	1400.0E		400.0D		17.0		
	1415	LEAR	8	S	0015.0	0015.0	1.0	84.0			QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0415.0	0419.5	13.0	40.2			
	2804	VORO	46	C	0416.8	0419.6	13.2	43.7			
	2800	HIRA	1	S	0418.0	0420.0	4.0	45.0			0
	500	HIRA	8	S	0419.0	0419.0	1.0	370.0			0
	610	LEAR	8	S	0457.0	0457.0	1.0	250.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0515.0	0515.0	1.0	180.0			QL=4 ST=2 TYP=3
	9100	GORK	20	GRF	0835.5	0905.5	36.5D	18.0			
	2950	GORK	2	S/F	0859.3	0900.7	6.4	9.7			
	204	IZMI	7	C	0955.7	0955.8	0.4	40.0			
	204	IZMI	7	C	1012.3	1012.4	0.3	8.0			
	280	CUBA	7	C	1603.3	1605.0	2.2	15.0	8.0		
	245	SGMR	8	S	1611.0	1611.0	2.0	53.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1632.0	1633.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1642.0	1642.0	U	58.0			QL=4 ST=2 TYP=3
	235	CUBA	7	C	1654.0	1654.5	1.1	12.0U	6.0		
	280	CUBA	7	C	1654.0	1654.5	1.1	26.0U	13.0		
	245	SGMR	8	S	1655.0	1655.0	U	110.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1833.0	1843.0	59.0U	55.0			
	1415	SGMR	8	S	1843.0	1843.0	1.0	34.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1843.0	1843.0	1.0	49.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1843.0	1843.0	1.0	44.0			QL=4 ST=2 TYP=3