SOLAR RADIO EMISSION
Outstanding Occurrences

JUNE 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	280	CUBA	44	NS	1440.0E		140.0D		15.0		
	235	CUBA	44	NS	1440.0E		140.0D		6.0		
	204	IZMI	7	C	1144.7	1144.9	0.6	11.0			
	245	SVTO	8	S	1205.0	1206.0	2.0	62.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1206.0	1206.0	1.0	65.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1206.0	1206.0	1.0	15.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1206.0	1206.0	1.0	16.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1234.0	1234.0	1.0	320.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1234.0	1234.0	1.0	370.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1234.0	1234.0	686.0	370.0			QL=4 ST=1 TYP=3
	2800	PENT	1	S	1459.0	1500.0	2.0	13.0			
	245	SGMR	4	S/F	1459.0	1500.0	3.0	36.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1500.0	1500.0	U	53.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1500.0	1500.0	U	75.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1523.0	1524.0	2.0	6.0			
	245	SGMR	8	S	1622.0	1623.0	2.0	92.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1623.0	1623.0	1.0	44.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1623.0	1623.0	1.0	86.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1623.0	1623.0	1.0	68.0			QL=4 ST=2 TYP=3
02	204	IZMI	43	NS	0849.0		191.0D		15.0		
	280	CUBA	44	NS	1300.0E		105.0D		15.0		
	235	CUBA	44	NS	1300.0E		165.0D		6.0		
	200	HIRA	8	S	0157.0	0159.0	2.0	45.0			ML
	245	LEAR	8	S	0723.0	0723.0	1.0	280.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0723.0	0723.0	1.0	330.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0723.0	0723.0	997.0	280.0			QL=4 ST=1 TYP=3
	204	IZMI	46	C	0723.7	0723.9	1.5	505.0			
	200	HIRA	8	S	0724.0	0724.0	1.0	200.0			0
	204	IZMI	7	C	0734.0	0734.1	0.2	28.0			
	200	HIRA	8	S	2059.0	2059.0	1.0	5.0			0
	2800	PENT	29	PBI	2208.0	2212.0	24.0	3.0U			
	2804	VORO	32	ABS	2210.0	2346.0	400.0	8.6			
	2804	VORO	32	ABS	2210.0	2220.0	400.0	17.9			
	2840	PEKG	5	S	2242.0	2244.9	5.0	14.5			
	2804	VORO	2	S/F	2245.0	2246.0	3.0	7.1			
	200	HIRA	8	S	2256.0	2257.0	2.0	20.0			0
03	204	IZMI	44	NS	0500.0E		420.0D		20.0		
	200	HIRA	8	S	0156.0	0156.0	1.0	20.0			0
	2804	VORO	3	S	0313.0	0320.0	17.0	19.1			
	200	HIRA	7	C	0840.0	0841.0	4.0	35.0			0
	245	SVTO	8	S	0840.0	0841.0	1.0	59.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	0840.0	0842.0	4.0				
	204	IZMI	41	F	0840.2	0840.5	4.4	89.0			
	245	SGMR	8	S	1026.0	1027.0	2.0	210.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1026.0	1027.0	1.0	250.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1026.5	1027.0	1.5				
	204	IZMI	45	C	1026.7	1026.9	0.8	302.0			
	2800	PENT	29	PBI	1346.0	1353.0	75.0	6.0			
	245	SGMR	8	S	1746.0	1748.0	2.0	64.0			QL=4 ST=2 TYP=3
	2800	PENT	42	SER	2056.0	2101.0	30.0	66.0			
	2800	HIRA	3	S	2100.0	2101.0	3.0	60.0			0
	500	HIRA	4	S/F	2100.0	2101.0	7.0	10.0			0
	200	HIRA	8	S	2100.0	2101.0	3.0	60.0			0
	2695	PALE	8	S	2101.0	2101.0	U	49.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2101.0	2101.0	U	34.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	2101.0	2101.0	U	48.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	2101.0	2101.0	U	30.0			QL=4 ST=2 TYP=3
	200	HIRA	47	GB	2107.0	2115.0	17.0	1020.0			0
	500	HIRA	7	C	2109.0	2114.0	14.0	30.0			0
	245	SGMR	49	GB	2110.0	2115.0	6.0	730.0			QL=4 ST=2 TYP=6
	410	SGMR	4	S/F	2110.0	2115.0	5.0	120.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	2111.0	2115.0	9.0	1100.0			QL=4 ST=2 TYP=8
	410	PALE	48	C	2111.0	2115.0	4.0	180.0			QL=4 ST=2 TYP=8
	2800	HIRA	1	S	2117.0	2119.0	3.0	30.0			0
	4995	PALE	8	S	2118.0	2119.0	1.0	130.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2118.0	2119.0	1.0	94.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2118.0	2118.0	2.0	54.0			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

JUNE 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	4995	SGMR	8	S	2118.0	2119.0	2.0	130.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2118.0	2118.0	5.0	110.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	2118.0	2119.0	5.0	38.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2119.0	2119.0	U	32.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	2120.0	2120.0	3.0	99.0			QL=4 ST=2 TYP=3
04	245	SGMR	43	NS	1431.0	1433.0	14.0	75.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1431.0	1433.0	569.0	75.0			QL=4 ST=1 TYP=1
	245	SGMR	43	NS	1733.0	1858.0	132.0	100.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1733.0	1733.0	387.0	87.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	1804.0	1857.0	255.0	150.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1804.0	1809.0	356.0	110.0			QL=4 ST=1 TYP=1
	3000	IZMI	45	C	0757.2	0808.1	23.6	198.0	16.0		
	200	HIRA	8	S	0801.0	0802.0	1.0	65.0			0
	2840	PEKG	45	C	0801.0	0807.9	28.0	202.5			
	204	IZMI	42	SER	0801.7	0802.0	1.3	136.0			
	33	UPIC	48	C	0805.5	0809.0U	13.5				
	2950	GORK	45	C	0805.5	0808.2	5.8	550.0			
	2950	GORK	45	C	0805.5	0808.8		320.0			
	204	IZMI	46	C	0805.8	0807.4	5.2	894.0			
	2800	HIRA	3	S	0806.0	0808.0	5.0	170.0			0
	500	HIRA	4	S/F	0806.0	0812.0	9.0	25.0			0
	245	LEAR	8	S	0806.0	0807.0	2.0	110.0			QL=4 ST=2 TYP=3
	200	HIRA	7	C	0806.0	0807.0	13.0	320.0			0
	245	LEAR	4	S/F	0806.0	0807.0	954.0	110.0			QL=4 ST=1 TYP=3
	9100	GORK	45	C	0806.0	0808.3	3.4	14.0			
	9100	GORK	45	C	0806.0	0808.8		9.0			
	900	GORK	46	C	0806.0	0808.8		12.0			
	600	GORK	46	C	0806.0	0813.8		200.0			
	900	GORK	46	C	0806.0	0807.9	3.9	45.0			
	600	GORK	46	C	0806.0	0807.9	9.6	280.0			
	1415	LEAR	8	S	0807.0	0808.0	2.0	74.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0807.0	0808.0	2.0	210.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0807.0	0808.0	2.0	220.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0807.0	0808.0	3.0	160.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0807.0	0808.0	953.0	74.0			QL=4 ST=1 TYP=3
	2695	LEAR	4	S/F	0807.0	0808.0	953.0	210.0			QL=4 ST=1 TYP=3
	4995	LEAR	4	S/F	0807.0	0808.0	953.0	220.0			QL=4 ST=1 TYP=3
	8800	LEAR	4	S/F	0807.0	0808.0	953.0	160.0			QL=4 ST=1 TYP=3
	15400	LEAR	8	S	0808.0	0808.0	U	48.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0808.0	0808.0	1.0	61.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0808.0	0808.0	952.0	48.0			QL=4 ST=1 TYP=3
	9100	GORK	29	PBI	0809.5	0809.5	34.5	30.0			
	900	GORK	30	PBI	0809.9	0809.9	14.4	11.0			
	204	IZMI	41	F	0811.0	0813.2	5.0	47.0			
	900	GORK	42	SER	0811.0	0811.3	3.0	4.0			
	900	GORK	42	SER	0811.0	0813.8	3.0	4.0			
	33	UPIC	42	SER	1208.0		270.0				
	2800	PENT	1	S	1356.0	1359.0	5.0	6.0			
	2800	PENT	29	PBI	1507.0	1513.0	85.0U	20.0			
	9500	CUBA	1	S	1512.0	1513.8	5.0	16.0	8.0		
	6700	CUBA	1	S	1512.3	1513.6	2.7	11.0	5.0		47R
	245	SGMR	8	S	1530.0	1531.0	1.0	69.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1639.0	1640.0	1.0	77.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1639.0	1640.0	1.0	77.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1655.0	1655.0	1.0	220.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1656.0	1656.0	U	150.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1701.0	1701.0	U	88.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1701.0	1702.0	1.0	69.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1732.0	1732.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1735.0	1735.0	2.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1858.0	1858.0	1.0	480.0			QL=2 ST=2 TYP=3
	2800	PENT	1	S	1909.0	1912.0	6.0	13.0			
	200	HIRA	8	S	2016.0	2016.0	1.0	40.0			WR
	245	SGMR	8	S	2144.0	2145.0	1.0	64.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2221.0	2222.0	2.0	55.0			MR
	2804	VORO	22	GRF	2229.0	2257.5	81.0	8.7			
	2840	PEKG	20	GRF	2249.0	2254.6	16.0	4.9			
	2804	VORO	2	S/F	2253.1	2255.0	4.4	7.2			

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

JUNE 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
04	200	HIRA	8	S	2308.0	2309.0	1.0	20.0			0
	245	SGMR	8	S	2309.0	2309.0	1.0	110.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	2309.0	2309.0	1.0	46.0			QL=2 ST=2 TYP=3
05	204	IZMI	43	NS	0500.0		420.0D		10.0		
	280	CUBA	44	NS	1300.0E		420.0D		8.0		
	235	CUBA	44	NS	1300.0E		420.0D		7.0		
	2800	PENT	1	S	0028.0	0035.0	15.0	10.0			
	2840	PEKG	1	S	0033.0	0035.7	6.0	7.4			
	2804	VORO	2	S/F	0034.7	0035.5	1.8	8.7			
	200	HIRA	8	S	0036.0	0036.0	1.0	25.0			0
	245	LEAR	8	S	0105.0	0105.0	U	64.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0126.0	0126.0	U	52.0			QL=4 ST=2 TYP=3
	2840	PEKG	47	GB	0441.0	0447.0	33.0	970.1			
	600	GORK	47	GB	0442.4	0447.8	14.3	700.0			
	900	GORK	4	S/F	0442.7	0446.8	4.1	200.0U			
	2950	GORK	47	GB	0442.8	0448.3	10.2	690.0			
	4995	SVTO	4	S/F	0443.0	0445.0	8.0	490.0			QL=4 ST=2 TYP=3
	2800	HIRA	47	GB	0443.0	0447.0	11.0	835.0			WL
	500	HIRA	4	S/F	0443.0	0447.0	10.0	235.0			0
	200	HIRA	47	GB	0443.0	0446.0	13.0	2510.0			0
	4995	SVTO	4	S/F	0443.0	0445.0	1157.0	490.0			QL=4 ST=1 TYP=3
	245	LEAR	49	GB	0444.0	0446.0	8.0	3900.0			QL=4 ST=2 TYP=6
	1415	LEAR	49	GB	0444.0	0446.0	4.0	570.0			QL=4 ST=2 TYP=6
	2695	LEAR	49	GB	0444.0	0446.0	5.0	1000.0			QL=4 ST=2 TYP=6
	4995	LEAR	49	GB	0444.0	0446.0	5.0	530.0			QL=4 ST=2 TYP=6
	2695	PALE	49	GB	0444.0	0446.0	4.0	650.0			QL=4 ST=2 TYP=6
	4995	PALE	49	GB	0444.0	0446.0	4.0	580.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	0444.0	0446.0	6.0	4400.0			QL=4 ST=2 TYP=6
	1415	SVTO	49	GB	0444.0	0446.0	4.0	540.0			QL=4 ST=2 TYP=6
	2695	SVTO	49	GB	0444.0	0446.0	5.0	900.0			QL=4 ST=2 TYP=6
	8800	SVTO	4	S/F	0444.0	0445.0	4.0	260.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0444.0	0446.0	1156.0	3900.0			QL=4 ST=1 TYP=6
	1415	LEAR	49	GB	0444.0	0446.0	1156.0	570.0			QL=4 ST=1 TYP=6
	2695	LEAR	49	GB	0444.0	0446.0	1156.0	1000.0			QL=4 ST=1 TYP=6
	4995	LEAR	49	GB	0444.0	0446.0	1156.0	530.0			QL=4 ST=1 TYP=6
	2695	PALE	49	GB	0444.0	0446.0	1156.0	650.0			QL=4 ST=1 TYP=6
	4995	PALE	49	GB	0444.0	0446.0	1156.0	580.0			QL=4 ST=1 TYP=6
	245	SVTO	49	GB	0444.0	0446.0	1156.0	4400.0			QL=4 ST=1 TYP=6
	1415	SVTO	49	GB	0444.0	0446.0	1156.0	540.0			QL=4 ST=1 TYP=6
	2695	SVTO	49	GB	0444.0	0446.0	1156.0	900.0			QL=4 ST=1 TYP=6
	8800	SVTO	4	S/F	0444.0	0445.0	1156.0	260.0			QL=4 ST=1 TYP=3
	33	UPIC	48	C	0444.5	0447.0	13.0				
	410	LEAR	4	S/F	0445.0	0446.0	5.0	200.0			QL=4 ST=2 TYP=3
	610	LEAR	49	GB	0445.0	0446.0	3.0	580.0			QL=4 ST=2 TYP=6
	8800	LEAR	4	S/F	0445.0	0445.0	3.0	270.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0445.0	0445.0	2.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	0445.0	0446.0	2.0	2300.0			QL=4 ST=2 TYP=6
	1415	PALE	49	GB	0445.0	0446.0	3.0	610.0			QL=4 ST=2 TYP=6
	8800	PALE	8	S	0445.0	0446.0	2.0	260.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	0445.0	0446.0	5.0	310.0			QL=4 ST=2 TYP=3
	610	SVTO	49	GB	0445.0	0446.0	3.0	510.0			QL=4 ST=2 TYP=6
	15400	SVTO	8	S	0445.0	0445.0	2.0	85.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0445.0	0446.0	1155.0	200.0			QL=4 ST=1 TYP=3
	610	LEAR	49	GB	0445.0	0446.0	1155.0	580.0			QL=4 ST=1 TYP=6
	8800	LEAR	4	S/F	0445.0	0445.0	1155.0	270.0			QL=4 ST=1 TYP=3
	15400	LEAR	4	S/F	0445.0	0445.0	1155.0	100.0			QL=4 ST=1 TYP=3
	245	PALE	49	GB	0445.0	0446.0	1155.0	2300.0			QL=4 ST=1 TYP=6
	1415	PALE	49	GB	0445.0	0446.0	1155.0	610.0			QL=4 ST=1 TYP=6
	8800	PALE	4	S/F	0445.0	0446.0	1155.0	260.0			QL=4 ST=1 TYP=3
	410	SVTO	4	S/F	0445.0	0446.0	1155.0	310.0			QL=4 ST=1 TYP=3
	610	SVTO	49	GB	0445.0	0446.0	1155.0	510.0			QL=4 ST=1 TYP=6
	15400	SVTO	4	S/F	0445.0	0445.0	1155.0	85.0			QL=4 ST=1 TYP=3
	204	IZMI	42	SER	0501.4	0501.4	0.7	9.0			
	204	IZMI	42	SER	0508.7	0508.7	0.3	18.0			
	200	HIRA	8	S	0509.0	0509.0	1.0	10.0			0
	245	LEAR	8	S	0510.0	0510.0	U	64.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0510.0	0510.0	U	53.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0610.0	0610.0	2.0	93.0			QL=4 ST=2 TYP=3

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Outstanding Occurrences

JUNE 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
05	245	SVTO	8	S	0610.0	0610.0	2.0	100.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	0610.0	0610.0	U	100.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	0610.0	0610.0	2.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0610.0	0610.0	U	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0611.0	0612.0	1.0	65.0			QL=4 ST=4 TYP=3
	245	SVTO	8	S	0611.0	0612.0	1.0	65.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0618.0	0618.0	1.0	55.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0618.0	0618.0	U	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0920.0	0920.0	1.0	66.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0943.8	0945.5	3.8	88.0			
	2800	PENT	29	PBI	1409.0	1419.0	143.0U	23.0			
	6700	CUBA	21	GRF	1411.0	1427.0	70.0	7.0	3.0		00L
	9500	CUBA	21	GRF	1418.0	1422.0	70.0	9.0	4.0		
	6700	CUBA	1	S	1418.7	1419.5	2.3	22.0	11.0		18L
	9500	CUBA	1	S	1419.0	1419.5	1.0	12.0	6.0		
	2800	PENT	1	S	2036.0	2039.0	6.0	3.0			
06	245	LEAR	43	NS	0116.0	0117.0	434.0	54.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0116.0	0117.0	1364.0	54.0			QL=4 ST=1 TYP=1
	204	IZMI	44	NS	0500.0E		420.0D		60.0		
	127	TORN	44	NS	1150.0E		190.0D		20.0		V=1
	235	CUBA	44	NS	1500.0E		240.0D		8.0		
	280	CUBA	44	NS	1500.0E		250.0D		17.0		
	245	LEAR	8	S	0044.0	0045.0	1.0	55.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0545.6	0545.8	0.4	52.0			
	245	SVTO	8	S	0704.0	0704.0	2.0	55.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	0704.0	0704.0	2.0	55.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0821.0	0822.0	3.0	68.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0927.0	0928.0	1.0	77.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0941.0	0941.0	U	56.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	1003.0	1003.1	0.2	116.0			
	33	UPIC	42	SER	1028.0	1304.0	284.0				
	410	SVTO	8	S	1208.0	1208.0	1.0	60.0			QL=4 ST=3 TYP=3
	410	SVTO	8	S	1208.0	1208.0	1.0	60.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1210.0	1210.0	U	57.0			QL=4 ST=3 TYP=3
	610	SVTO	8	S	1210.0	1210.0	U	57.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1236.0	1237.0	2.0	140.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1236.0	1236.0	2.0	49.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1236.0	1236.0	2.0	80.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1236.0	1237.0	2.0	130.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	1236.0	1237.0	3.0	21.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1236.0	1236.0	U	61.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1303.0	1304.0	2.0	360.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1304.0	1304.0	2.0	370.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1304.0	1304.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1343.0	1344.0	2.0	190.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1431.0	1431.0	U	76.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1431.0	1431.0	U	71.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1431.0	1431.0	U	33.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1432.0	1432.0	U	51.0			QL=4 ST=3 TYP=3
	610	SGMR	8	S	1432.0	1432.0	U	45.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1705.0	1705.0	1.0	41.0			QL=4 ST=4 TYP=3
	410	PALE	8	S	1705.0	1705.0	1.0	41.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1713.0	1714.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1713.0	1713.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1713.0	1713.0	1.0	92.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1750.0	1751.0	2.0	47.0			QL=4 ST=2 TYP=3
	2800	PENT	32	ABS	1828.0	1855.0	55.0	2.0			
	245	PALE	8	S	1835.0	1836.0	1.0	60.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	1845.0	1846.0	2.0	830.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	1845.0	1846.0	2.0	120.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1845.0	1847.0	4.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1846.0	1846.0	3.0	560.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	1849.0	1850.0	1.0	40.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1849.0	1850.0	1.0	88.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1915.0	1915.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1915.0	1915.0	1.0	66.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	1933.0	1934.0	2.0	10.0			0
	245	PALE	8	S	1933.0	1934.0	2.0	330.0			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

JUNE 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	410	PALE	49	GB	1933.0	1933.0	2.0	630.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	1933.0	1934.0	1.0	250.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1933.0	1933.0	2.0	470.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1937.0	1938.0	3.0	270.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	1937.0	1937.0	3.0	400.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1937.0	1938.0	5.0	220.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1937.0	1938.0	5.0	330.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	2110.0	2122.0	82.0U	20.0			
	245	PALE	48	C	2124.0	2130.0	6.0	1400.0			QL=4 ST=2 TYP=8
	245	PALE	49	GB	2124.0	2126.0	156.0	680.0			QL=4 ST=1 TYP=6
	500	HIRA	7	C	2125.0	2126.0	6.0	350.0			MR
	410	PALE	49	GB	2125.0	2126.0	5.0	1600.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	2125.0	2126.0	6.0	1600.0			QL=4 ST=2 TYP=6
	410	PALE	49	GB	2125.0	2126.0	155.0	1600.0			QL=4 ST=1 TYP=6
	410	SGMR	49	GB	2125.0	2126.0	155.0	1600.0			QL=4 ST=1 TYP=6
	610	PALE	8	S	2126.0	2126.0	U	29.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	2126.0	2128.0	5.0	200.0			QL=4 ST=2 TYP=3
	610	SGMR	46	C	2126.0	2130.0	5.0	25.0			QL=4 ST=2 TYP=8
	245	SGMR	4	S/F	2126.0	2128.0	154.0	200.0			QL=4 ST=1 TYP=3
	610	SGMR	4	S/F	2126.0	2127.0	154.0	17.0			QL=4 ST=1 TYP=3
	245	SGMR	8	S	2139.0	2139.0	1.0	170.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2139.0	2139.0	1.0	100.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	2140.0	2140.0	1.0	30.0			0
	245	PALE	8	S	2200.0	2201.0	1.0	65.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2200.0	2201.0	2.0	50.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	2207.0	2208.0	1.0	20.0			0
	410	PALE	8	S	2207.0	2207.0	U	66.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2207.0	2207.0	1.0	63.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2313.0	2314.0	3.0	55.0			WR
	500	HIRA	8	S	2314.0	2315.0	1.0	170.0			MR
	410	LEAR	49	GB	2314.0	2315.0	1.0	520.0			QL=4 ST=2 TYP=6
	8800	PALE	4	S/F	2314.0	2314.0	5.0	75.0			QL=4 ST=2 TYP=3
	410	LEAR	49	GB	2314.0	2315.0	46.0	520.0			QL=4 ST=1 TYP=6
	245	LEAR	8	S	2315.0	2315.0	U	270.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2315.0	2315.0	U	250.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	2315.0	2315.0	U	1000.0			QL=4 ST=2 TYP=6
	610	PALE	8	S	2315.0	2315.0	U	55.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2315.0	2315.0	1.0	130.0			QL=2 ST=2 TYP=3
	410	SGMR	49	GB	2315.0	2315.0	1.0	510.0			QL=2 ST=2 TYP=6
	245	LEAR	4	S/F	2315.0	2315.0	45.0	270.0			QL=4 ST=1 TYP=3
	500	HIRA	8	S	2317.0	2318.0	4.0	250.0			MR
	410	LEAR	49	GB	2317.0	2318.0	3.0	800.0			QL=4 ST=2 TYP=6
	245	PALE	8	S	2317.0	2318.0	2.0	460.0			QL=4 ST=3 TYP=3
	245	PALE	8	S	2317.0	2318.0	2.0	460.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	2317.0	2318.0	3.0	1600.0			QL=4 ST=3 TYP=6
	410	PALE	49	GB	2317.0	2318.0	3.0	1600.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	2317.0	2318.0	3.0	700.0			QL=2 ST=2 TYP=6
	200	HIRA	8	S	2318.0	2318.0	2.0	50.0			0
	245	LEAR	4	S/F	2318.0	2318.0	4.0	260.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	2318.0	2318.0	4.0	31.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2318.0	2318.0	2.0	200.0			QL=2 ST=2 TYP=3
	500	HIRA	8	S	2338.0	2338.0	1.0	150.0			MR
	200	HIRA	8	S	2338.0	2338.0	1.0	30.0			0
	245	PALE	8	S	2338.0	2340.0	2.0	320.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	2338.0	2338.0	1.0	810.0			QL=4 ST=2 TYP=6
07	204	IZMI	44	NS	0500.0E		420.0D		10.0		
	280	CUBA	44	NS	1317.0E		389.0D		14.0		
	235	CUBA	44	NS	1317.0E		389.0D		6.0		
	200	HIRA	8	S	0042.0	0043.0	1.0	15.0			0
	200	HIRA	7	C	0106.0	0109.0	3.0	15.0			WR
	500	HIRA	8	S	0109.0	0110.0	1.0	70.0			WR
	410	LEAR	8	S	0109.0	0109.0	1.0	170.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0109.0	0110.0	1.0	280.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0143.0	0144.0	1.0	25.0			0
	200	HIRA	8	S	0143.0	0143.0	1.0	20.0			WR
	500	HIRA	7	C	0247.0	0248.0	7.0	175.0			WR
	410	PALE	48	C	0247.0	0252.0	6.0	130.0			QL=4 ST=2 TYP=8
	200	HIRA	8	S	0248.0	0250.0	2.0	40.0			WR

S O L A R R A D I O E M I S S I O N
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JUNE 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
07	245	LEAR	8	S	0248.0	0249.0	2.0	220.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0248.0	0249.0	2.0	250.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0249.0	0249.0	1.0	39.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0252.0	0252.0	1.0	56.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0252.0	0252.0	1.0	82.0			QL=4 ST=2 TYP=3
	2804	VORO	2	S/F	0258.5	0259.4	2.0	5.5			
	200	HIRA	7	C	0355.0	0358.0	3.0	40.0			0
	500	HIRA	7	C	0356.0	0356.0	7.0	60.0			WR
	410	LEAR	8	S	0356.0	0356.0	U	64.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0357.0	0357.0	1.0	86.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0359.0	0359.0	2.0	110.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0359.0	0400.0	2.0	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0400.0	0401.0	1.0	37.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0455.0	0455.0	1.0	86.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0455.0	0455.0	U	62.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0455.5	0455.7	0.4	156.0			
	204	IZMI	42	SER	0501.9	0505.2	4.3	281.0			
	2840	PEKG	5	S	0503.0	0505.3	4.0	30.5			
	200	HIRA	8	S	0504.0	0505.0	2.0	90.0			WR
	245	LEAR	8	S	0504.0	0505.0	2.0	200.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0504.0	0505.0	2.0	150.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0505.0	0505.0	1.0	120.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0505.0	0505.0	1.0	170.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0506.0	0506.0	1.0	10.0			0
	3000	IZMI	5	S	0506.2	0506.3	0.2	39.0	17.0		
	245	LEAR	8	S	0510.0	0511.0	1.0	52.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0510.0	0510.0	1.0	39.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0510.0	0511.0	4.0	36.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0510.0	0510.0	2.0	73.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0625.0	0626.0	1.0	52.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	0625.6	0626.4	1.1	120.0			
	200	HIRA	8	S	0626.0	0626.0	1.0	50.0			0
	204	IZMI	42	SER	0628.2	0629.5	3.7	38.0			
	600	GORK	3	S	0700.8	0701.2	0.4	25.0			
	204	IZMI	42	SER	0701.0	0702.4	4.9	52.0			
	245	SVTO	8	S	0703.0	0703.0	1.0	52.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0703.0	0704.0	1.0	39.0			QL=4 ST=2 TYP=3
	500	HIRA	3	S	0707.0	0708.0	5.0	75.0			WR
	200	HIRA	3	S	0707.0	0710.0	5.0	480.0			MR
	410	LEAR	49	GB	0707.0	0709.0	4.0	1300.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	0707.0	0709.0	4.0	2700.0			QL=4 ST=2 TYP=6
	410	LEAR	49	GB	0707.0	0709.0	1013.0	1300.0			QL=4 ST=1 TYP=6
	410	SVTO	49	GB	0707.0	0709.0	1013.0	2700.0			QL=4 ST=1 TYP=6
	600	GORK	4	S/F	0707.7	0708.4	4.1	33.0			
	204	IZMI	46	C	0707.9	0709.9	3.9	2889.3			
	245	LEAR	49	GB	0708.0	0709.0	3.0	3600.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	0708.0	0709.0	3.0	2600.0			QL=4 ST=2 TYP=6
	245	LEAR	49	GB	0708.0	0709.0	1012.0	3600.0			QL=4 ST=1 TYP=6
	245	SVTO	49	GB	0708.0	0709.0	1012.0	2600.0			QL=4 ST=1 TYP=6
	245	SGMR	8	S	1347.0	1347.0	2.0	70.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1347.0	1347.0	1.0	58.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1601.0	1613.0	31.0U	14.0			
	410	SGMR	49	GB	1612.0	1613.0	1.0	700.0			QL=4 ST=2 TYP=6
	1415	SGMR	8	S	1612.0	1613.0	1.0	45.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	1612.0	1612.0	1.0	800.0			QL=4 ST=3 TYP=6
	410	SVTO	8	S	1612.0	1612.0	1.0	380.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1612.0	1613.0	1.0	35.0			QL=4 ST=2 TYP=3
	6700	CUBA	22	GRF	1642.0	1655.0	26.0	7.0	3.0		13L
	245	SGMR	8	S	1711.0	1711.0	1.0	95.0			QL=4 ST=4 TYP=3
	245	SGMR	8	S	1711.0	1711.0	1.0	95.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1711.0	1711.0	1.0	95.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1712.0	1712.0	U	100.0			QL=2 ST=2 TYP=3
	2800	PENT	29	PBI	1858.0	1908.0	34.0U	20.0			
	245	SGMR	49	GB	1908.0	1908.0	3.0	530.0			QL=4 ST=4 TYP=6
	245	SGMR	49	GB	1908.0	1908.0	3.0	530.0			QL=4 ST=2 TYP=6
	410	SGMR	4	S/F	1908.0	1908.0	3.0	87.0			QL=4 ST=4 TYP=3
	410	SGMR	4	S/F	1908.0	1908.0	3.0	87.0			QL=4 ST=2 TYP=3
	2800	PENT	24	R	2055.0	2231.0	97.0U	10.0			

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

JUNE 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
08	204	IZMI	44	NS	0508.0E		412.0D		30.0		
	245	LEAR	43	NS	0826.0	0843.0	42.0	82.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0826.0	0828.0	934.0	71.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	0826.0	0843.0	934.0	82.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	0843.0	0843.0	43.0	60.0			QL=2 ST=2 TYP=1
	245	SVTO	43	NS	0843.0	0843.0	917.0	60.0			QL=2 ST=1 TYP=1
	127	TORN	44	NS	1000.0E		300.0D		50.0		V=1
	280	CUBA	44	NS	1300.0E		530.0D		19.0		
	235	CUBA	44	NS	1300.0E		530.0D		10.0		
	200	HIRA	8	S	0005.0	0005.0	1.0	35.0			WR
	200	HIRA	8	S	0024.0	0024.0	1.0	30.0			WR
	245	LEAR	8	S	0024.0	0024.0	U	160.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0114.0	0115.0	1.0	66.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0214.0	0227.0	26.0	57.8			
	2804	VORO	28	PRE	0216.5	0225.0	9.0	13.6			
	200	HIRA	8	S	0222.0	0224.0	5.0	290.0			0
	245	LEAR	4	S/F	0222.0	0224.0	3.0	330.0			QL=4 ST=2 TYP=3
	410	LEAR	48	C	0222.0	0225.0	4.0	62.0			QL=4 ST=2 TYP=8
	245	PALE	4	S/F	0222.0	0224.0	5.0	250.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	0222.0	0223.0	8.0	64.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0222.0	0224.0	1298.0	330.0			QL=4 ST=1 TYP=3
	410	LEAR	4	S/F	0222.0	0222.0	1298.0	53.0			QL=4 ST=1 TYP=3
	410	LEAR	48	C	0222.0	0225.0	1298.0	62.0			QL=4 ST=1 TYP=8
	500	HIRA	4	S/F	0223.0	0225.0	7.0	40.0			0
	2695	LEAR	8	S	0223.0	0224.0	1.0	25.0			QL=4 ST=2 TYP=3
	2804	VORO	2	S/F	0225.5	0226.8	4.5	37.8			
	2800	HIRA	8	S	0226.0	0227.0	4.0	35.0			0
	1415	LEAR	8	S	0226.0	0227.0	1.0	28.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0226.0	0226.0	2.0	35.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0226.0	0227.0	1294.0	28.0			QL=4 ST=1 TYP=3
	4995	LEAR	4	S/F	0226.0	0226.0	1294.0	35.0			QL=4 ST=1 TYP=3
	8800	LEAR	8	S	0227.0	0227.0	U	22.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0511.8	0511.9	0.1	70.0			
	410	LEAR	8	S	0732.0	0732.0	U	150.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0732.0	0732.0	U	390.0			QL=4 ST=2 TYP=3
	204	IZMI	25	R	0754.0		61.0		50.0		
	245	SVTO	8	S	0828.0	0828.0	U	54.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1018.5	1018.9	0.6	47.0			
	3000	IZMI	7	C	1048.6	1048.9	1.0	15.0	7.0		
	33	UPIC	46	C	1115.0	1115.5	3.0				
	33	UPIC	46	C	1314.0	1314.5	1.5				
	245	SGMR	8	S	1711.0	1711.0	1.0	95.0			QL=4 ST=4 TYP=3
	245	SGMR	8	S	1711.0	1711.0	1.0	95.0			QL=4 ST=3 TYP=3
	2800	PENT	1	S	1755.0	1801.0	11.0	6.0			
	245	PALE	8	S	1850.0	1850.0	1.0	130.0			QL=4 ST=4 TYP=3
	245	PALE	8	S	1850.0	1850.0	1.0	130.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1911.0	1922.0	21.0U	28.0			
	6700	CUBA	21	GRF	1919.0	1927.0	151.0D	18.0	9.0		9R DOWN
	9500	CUBA	21	GRF	1920.0	1930.0	24.0	11.0	5.0		
	6700	CUBA	1	S	1920.4	1922.5	3.1	21.0	10.0		29R
	245	PALE	8	S	1921.0	1922.0	1.0	67.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1921.0	1922.0	1.0	38.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1921.0	1921.0	1.0	59.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1921.4	1922.4	1.7	12.0	6.0		
	4995	PALE	8	S	1922.0	1922.0	U	24.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1922.0	1922.0	U	35.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1922.0	1922.0	U	35.0			QL=4 ST=2 TYP=3
	2804	VORO	22	GRF	2247.0	2405.0	203.0	10.2			
	2840	PEKG	5	S	2309.0	2312.0	8.0	13.7			
	2804	VORO	3	S	2310.6	2312.5	4.4	10.2			
09	410	SVTO	43	NS	0441.0	0606.0	122.0	73.0			QL=4 ST=2 TYP=1
	410	SVTO	43	NS	0441.0	0451.0	1159.0	65.0			QL=4 ST=1 TYP=1
	410	SVTO	43	NS	0441.0	0606.0	1159.0	73.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	0446.0	0655.0	228.0	170.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0446.0	0505.0	1154.0	73.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	0446.0	0559.0	1154.0	94.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	0446.0	0655.0	1154.0	170.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	0457.0	0655.0	248.0	140.0			QL=4 ST=2 TYP=1

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

JUNE 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
09	245	LEAR	43	NS	0457.0	0533.0	1143.0	110.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	0457.0	0655.0	1143.0	140.0			QL=4 ST=1 TYP=1
	204	IZMI	44	NS	0500.0E		420.0D		56.0		
	245	LEAR	43	NS	0557.0	0457.0	1083.0	85.0			QL=4 ST=1 TYP=1
	127	TORN	44	NS	0630.0E		510.0D		80.0		V=1
	245	SVTO	43	NS	0948.0	1025.0	192.0	160.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0948.0	0952.0	852.0	130.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	0948.0	1025.0	852.0	160.0			QL=4 ST=1 TYP=1
	245	SGMR	43	NS	0952.0	1613.0	799.0	230.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	0952.0	1613.0	848.0	230.0			QL=4 ST=1 TYP=1
	245	SGMR	43	NS	0952.0	0952.0	848.0	90.0			QL=4 ST=1 TYP=1
	245	SGMR	43	NS	0952.0	1015.0	848.0	140.0			QL=4 ST=1 TYP=1
	245	SGMR	43	NS	0952.0	1213.0	848.0	190.0			QL=4 ST=1 TYP=1
	410	SVTO	43	NS	0954.0	1020.0	143.0	100.0			QL=4 ST=2 TYP=1
	410	SVTO	43	NS	0954.0	1020.0	846.0	100.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	1827.0	2032.0	315.0	160.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1827.0	1827.0	333.0	52.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	1827.0	1932.0	333.0	140.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	1827.0	2032.0	333.0	160.0			QL=4 ST=1 TYP=1
	245	LEAR	8	S	0020.0	0020.0	1.0	90.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0020.0	0020.0	1.0	85.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	0024.0	0025.0	2.0	600.0			QL=4 ST=2 TYP=6
	245	LEAR	8	S	0047.0	0047.0	U	97.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0047.0	0047.0	U	140.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	0047.0	0047.0	1393.0	140.0			QL=4 ST=1 TYP=3
	245	PALE	8	S	0107.0	0108.0	1.0	69.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0108.0	0108.0	U	64.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0118.0	0119.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0118.0	0119.0	2.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	0146.0	0148.0	4.0	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0147.0	0147.0	1.0	96.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0149.0	0149.0	1.0	85.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0159.0	0159.0	U	98.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0159.0	0159.0	U	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0222.0	0223.0	1.0	62.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0222.0	0223.0	1.0	66.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0229.0	0229.0	1.0	71.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0321.0	0321.0	1.0	91.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0457.0	0457.0	U	85.0			QL=4 ST=4 TYP=3
	245	LEAR	8	S	0457.0	0457.0	U	85.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0530.0	0533.5	6.0	5.3			
	3000	IZMI	7	C	0531.3	0533.4	5.2	17.0	7.0		
	2950	GORK	2	S/F	0532.4	0533.0	2.4	7.5			
	9100	GORK	2	S/F	0532.4	0533.7	3.0	18.0			
	204	IZMI	42	SER	0532.5	0532.9	0.8	74.0			
	200	HIRA	8	S	0533.0	0533.0	1.0	30.0			0
	410	SGMR	8	S	1020.0	1020.0	U	54.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1020.0	1020.0	U	180.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1020.0	1020.0	U	100.0			QL=2 ST=2 TYP=3
	204	IZMI	46	C	1020.2	1020.4	1.3	224.0			
	245	SVTO	8	S	1531.0	1531.0	U	160.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1613.0	1613.0	U	220.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	1636.0	1636.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1636.0	1636.0	U	120.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	1740.0	1741.0	1.0	61.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1751.0	1751.0	U	65.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1838.0	1840.0	2.0	45.0			QL=4 ST=2 TYP=3
	610	PALE	49	GB	1838.0	1841.0	34.0	520.0			QL=4 ST=2 TYP=6
	610	SGMR	4	S/F	1838.0	1841.0	34.0	440.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1841.0	1841.0	U	69.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1841.0	1841.0	U	61.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	2143.0	2148.0	11.0	13.0			
10	245	LEAR	43	NS	0030.0	0225.0	379.0	230.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0030.0	0046.0	1410.0	130.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	0030.0	0119.0	1410.0	180.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	0030.0	0225.0	1410.0	230.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	0222.0	0225.0	136.0	280.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	0222.0	0225.0	1298.0	280.0			QL=4 ST=1 TYP=1

SOLAR RADIO EMISSION
Outstanding Occurrences

JUNE 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	245	SVTO	43	NS	0441.0	0622.0	152.0	100.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0441.0	0442.0	1159.0	65.0			QL=4 ST=1 TYP=1
	204	IZMI	44	NS	0528.0E		388.0D		20.0		
	127	TORN	44	NS	0630.0E		510.0D		100.0		V=1
	245	SGMR	43	NS	1023.0	1154.0	150.0	130.0			QL=2 ST=2 TYP=1
	245	SGMR	43	NS	1023.0	1035.0	817.0	59.0			QL=4 ST=1 TYP=1
	245	SGMR	43	NS	1023.0	1059.0	817.0	120.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	1033.0	1154.0	140.0	160.0			QL=4 ST=3 TYP=1
	245	SVTO	43	NS	1033.0	1154.0	200.0	160.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1033.0	1035.0	807.0	66.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	1033.0	1140.0	807.0	150.0			QL=4 ST=1 TYP=1
	245	SGMR	43	NS	1546.0	1546.0	7.0	70.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1546.0	1546.0	494.0	70.0			QL=4 ST=1 TYP=1
	2840	PEKG	45	C	0057.0	0101.9	10.0	20.8			
	8800	LEAR	4	S/F	0101.0	0102.0	12.0	54.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0101.0	0102.0	1379.0	54.0			QL=4 ST=1 TYP=3
	2804	VORO	40	F	0101.1	0103.0	5.0	10.4			
	4995	LEAR	4	S/F	0102.0	0102.0	11.0	26.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0102.0	0102.0	1378.0	26.0			QL=4 ST=1 TYP=3
	410	LEAR	8	S	0638.0	0638.0	1.0	120.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0638.0	0638.0	U	200.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0644.1	0644.3	3.1	150.0			
	200	HIRA	8	S	0645.0	0645.0	1.0	50.0			WL
	410	LEAR	8	S	0656.0	0656.0	U	160.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0656.0	0656.0	U	190.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0852.0	0852.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0852.0	0852.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0942.0	0942.0	U	50.0			QL=4 ST=3 TYP=3
	610	SVTO	4	S/F	1150.0	1154.0	6.0	100.0			QL=2 ST=2 TYP=3
	410	SVTO	48	C	1151.0	1154.0	4.0	93.0			QL=2 ST=2 TYP=8
	245	SGMR	8	S	1153.0	1154.0	1.0	250.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	1153.0	1154.0	1.0	42.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1153.0	1154.0	1.0	24.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1153.0	1154.0	2.0	23.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	1153.3	1154.4	2.7	645.0			
	3000	IZMI	20	GRF	1153.4	1154.3	1.6	32.0	13.0		
	245	SVTO	8	S	1154.0	1154.0	U	270.0			QL=2 ST=2 TYP=3
	2695	SVTO	8	S	1154.0	1156.0	2.0	37.0			QL=2 ST=2 TYP=3
	4995	SVTO	8	S	1154.0	1154.0	U	30.0			QL=2 ST=2 TYP=3
	127	TORN	47	GB	1154.0U	1154.8	1.2U	5800.0U	580.0U		DISTURBED
	245	SVTO	8	S	1546.0	1547.0	1.0	63.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1630.0	1631.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1631.0	1631.0	U	150.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1631.0	1631.0	U	120.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1631.0	1631.0	449.0	120.0			QL=4 ST=1 TYP=3
	245	SGMR	8	S	1807.0	1809.0	2.0	200.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1809.0	1809.0	U	240.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1946.0	1946.0	U	79.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1946.0	1946.0	U	89.0			QL=4 ST=2 TYP=3
11	204	IZMI	44	NS	0500.0E		420.0D		10.0		
	127	TORN	44	NS	0700.0E		480.0D		40.0		V=1
	280	CUBA	44	NS	1300.0E		240.0D		17.0		
	235	CUBA	44	NS	1300.0E		240.0D		6.0		
	245	SGMR	43	NS	1625.0	1633.0	215.0	95.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1625.0	1633.0	455.0	95.0			QL=4 ST=1 TYP=1
	245	LEAR	8	S	0002.0	0002.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0002.0	0002.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0027.0	0027.0	U	140.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0027.0	0027.0	U	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0105.0	0105.0	U	150.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0105.0	0105.0	2.0	160.0			QL=2 ST=2 TYP=3
	245	LEAR	4	S/F	0428.0	0429.0	3.0	54.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0428.0	0430.0	2.0	55.0			QL=4 ST=2 TYP=3
	900	GORK	4	S/F	0520.3	0520.6	0.7	40.0			
	9100	GORK	1	S	0520.3	0520.8	1.1	14.0			
	600	GORK	46	C	0533.1	0534.8	4.6	92.0			
	900	GORK	41	F	0533.3	0533.9	5.3	32.0			
	204	IZMI	42	SER	0540.7	0540.9	4.1	58.0			

SOLAR RADIO EMISSION
Outstanding Occurrences

JUNE 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	9100	GORK	1	S	1035.4	1035.8	1.2	7.4			
	2950	GORK	1	S	1035.5	1036.0	0.9	3.9			
	410	SGMR	8	S	1154.0	1154.0	U	57.0			QL=4 ST=2 TYP=3
	2800	PENT	20	GRF	1520.0	1555.0	46.0	11.0			
	245	SGMR	8	S	1638.0	1638.0	U	67.0			QL=4 ST=2 TYP=3
	245	SVTO	48	C	1638.0	1642.0	4.0	69.0			QL=4 ST=3 TYP=8
	245	SVTO	48	C	1638.0	1642.0	4.0	69.0			QL=4 ST=2 TYP=8
12	127	TORN	43	NS	0739.0		441.0D		40.0		V=1
	280	CUBA	44	NS	1333.0E		497.0D		16.0		
	235	CUBA	44	NS	1333.0E		497.0D		6.0		
	2800	PENT	1	S	0029.0	0035.0	13.0	6.0			
	245	LEAR	8	S	0133.0	0134.0	1.0	34.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0133.0	0134.0	1.0	190.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	0133.0	0134.0	8.0	39.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	0133.0	0134.0	8.0	200.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0134.0	0134.0	1.0	80.0			0
	204	IZMI	7	C	0631.6	0631.8	0.4	34.0			
	2840	PEKG	3	S	0706.0	0714.0	25.0	74.1			
	900	GORK	3	S	0712.5	0715.0	5.5	20.0			
	2950	GORK	2	S/F	0712.5	0714.2	9.5	58.0			
	3000	IZMI	22	GRF	0712.8	0714.4	3.6	75.0	33.0		
	204	IZMI	45	C	0712.9	0714.6	7.0	95.0			
	2800	HIRA	4	S/F	0713.0	0714.0	4.0	70.0			0
	500	HIRA	4	S/F	0713.0	0714.0	5.0	30.0			0
	200	HIRA	7	C	0713.0	0719.0	7.0	140.0			0
	245	LEAR	49	GB	0713.0	0714.0	2.0	910.0			QL=4 ST=2 TYP=6
	1415	LEAR	8	S	0713.0	0714.0	2.0	29.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0713.0	0714.0	2.0	62.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0713.0	0714.0	2.0	36.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0713.0	0714.0	2.0	31.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0713.0	0714.0	2.0	63.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0713.0	0714.0	3.0	47.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0713.0	0714.0	2.0	27.0			QL=4 ST=2 TYP=3
	9100	GORK	21	GRF	0713.0	0716.0	16.2	9.4			
	245	LEAR	49	GB	0713.0	0714.0	1007.0	910.0			QL=4 ST=1 TYP=6
	1415	LEAR	4	S/F	0713.0	0714.0	1007.0	29.0			QL=4 ST=1 TYP=3
	2695	LEAR	4	S/F	0713.0	0714.0	1007.0	62.0			QL=4 ST=1 TYP=3
	4995	LEAR	4	S/F	0713.0	0714.0	1007.0	36.0			QL=4 ST=1 TYP=3
	9100	GORK	1	S	0713.2	0715.8	2.7	15.0			
	410	LEAR	8	S	0714.0	0714.0	1.0	70.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0714.0	0714.0	1006.0	70.0			QL=4 ST=1 TYP=3
	245	LEAR	8	S	0718.0	0718.0	U	95.0			QL=4 ST=2 TYP=3
	127	TORN	4	S/F	0720.0	0721.5	4.7	2600.0	400.0		
	204	IZMI	42	SER	0935.0	0948.6	48.0U	95.0			
	8800	SGMR	49	GB	1424.0	1424.0	3.0	6000.0			QL=4 ST=4 TYP=6
	8800	SGMR	49	GB	1424.0	1424.0	3.0	6000.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	1712.0	1712.0	1.0	160.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2318.0	2318.0	1.0	15.0			0
13	127	TORN	44	NS	0630.0E		430.0D		50.0		V=1
	280	CUBA	44	NS	1315.0E		515.0D		16.0		
	235	CUBA	44	NS	1315.0E		515.0D		7.0		
	2840	PEKG	3	S	0423.0	0431.9	26.0	119.1			
	15400	SVTO	4	S/F	0424.0	0431.0	21.0	100.0			QL=4 ST=2 TYP=3
	9100	GORK	46	C	0424.3	0431.8	22.0	160.0			
	9100	GORK	46	C	0424.3	0432.9		100.0			
	2804	VORO	46	C	0424.4	0431.8	20.6	157.0			
	2800	HIRA	4	S/F	0425.0	0432.0	18.0	75.0			0
	4995	LEAR	4	S/F	0425.0	0431.0	15.0	190.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0425.0	0431.0	14.0	180.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0425.0	0431.0	14.0	160.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0425.0	0431.0	11.0	150.0			QL=4 ST=2 TYP=3
	2950	GORK	46	C	0425.2	0433.0		62.0			
	2950	GORK	46	C	0425.2	0431.8	21.3	83.0			
	600	GORK	46	C	0425.4	0431.4		105.0			
	600	GORK	46	C	0425.4	0429.9	11.1	120.0			
	200	HIRA	8	S	0426.0	0428.0	2.0	10.0			0
	500	HIRA	4	S/F	0426.0	0428.0	17.0	30.0			0

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

JUNE 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
13	4995	PALE	4	S/F	0426.0	0431.0	10.0	200.0			QL=2 ST=2 TYP=3
	2695	SVTO	4	S/F	0427.0	0431.0	9.0	80.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0427.0	0431.0	10.0	85.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0427.0	0431.0	12.0	94.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0428.0	0428.0	U	110.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0428.0	0428.0	U	96.0			QL=2 ST=2 TYP=3
	200	HIRA	4	S/F	0428.0	0434.0	15.0	5.0			0
	900	GORK	46	C	0428.2	0429.6	6.1	38.0			
	900	GORK	46	C	0428.2	0430.7		21.0			
	610	LEAR	8	S	0429.0	0429.0	2.0	67.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0429.0	0430.0	1.0	70.0			QL=2 ST=2 TYP=3
	1415	PALE	8	S	0431.0	0431.0	1.0	26.0			QL=2 ST=2 TYP=3
	8800	PALE	8	S	0431.0	0431.0	2.0	140.0			QL=2 ST=2 TYP=3
	1415	LEAR	8	S	0432.0	0433.0	2.0	18.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0548.1	0554.8	6.9	150.0			
	2840	PEKG	5	S	0740.0	0744.8	8.0	13.4			
	2840	PEKG	3	S	0823.0	0827.5	14.0	26.6			
	900	GORK	46	C	0824.8	0825.0	9.9	25.0			
	900	GORK	46	C	0824.8	0826.7		20.0			
	900	GORK	46	C	0824.8	0827.7		26.0			
	600	GORK	46	C	0825.0	0827.0	7.6	19.0			
	2800	HIRA	1	S	0825.0	0828.0	7.0	20.0			0
	500	HIRA	1	S	0825.0	0828.0	7.0	10.0			0
	245	LEAR	4	S/F	0825.0	0826.0	4.0	200.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0825.0	0826.0	3.0	150.0			QL=4 ST=2 TYP=3
	200	HIRA	7	C	0825.0	0827.0	12.0	180.0			0
	600	GORK	46	C	0825.0	0828.8		29.0			
	3000	IZMI	22	GRF	0825.2	0827.5	5.8	36.0	14.0		
	204	IZMI	46	C	0825.4	0827.1	11.5	350.0			
	2950	GORK	4	S/F	0825.4	0827.5	4.8	21.0			
	9100	GORK	2	S/F	0826.6	0829.4	4.4	14.0			
	2695	LEAR	8	S	0827.0	0827.0	U	22.0			QL=4 ST=2 TYP=3
	9100	GORK	1	S	0844.4	0844.6	0.4	12.0			
	204	IZMI	42	SER	0939.3	0939.5	0.5	30.0			
	204	IZMI	41	F	0944.3	0944.5	0.4	56.0			
	204	IZMI	41	F	1030.9	1031.1	0.3	148.0			
	204	IZMI	41	F	1041.1	1041.7	1.5	47.0			
	245	SGMR	8	S	1042.0	1042.0	1.0	140.0			QL=4 ST=4 TYP=3
	245	SGMR	8	S	1042.0	1042.0	1.0	140.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1042.0	1042.0	1.0	140.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1042.0	1042.0	U	280.0			QL=4 ST=4 TYP=3
	410	SGMR	8	S	1042.0	1042.0	U	280.0			QL=4 ST=3 TYP=3
	410	SGMR	8	S	1042.0	1042.0	U	280.0			QL=4 ST=2 TYP=3
	600	GORK	4	S/F	1042.3	1043.2	2.3	18.0			
	204	IZMI	46	C	1042.4	1042.5	3.4	1756.0			
	900	GORK	3	S	1042.5	1043.3	4.6	15.0			
	33	UPIC	42	SER	1042.5	1255.5	133.5				
	2950	GORK	1	S	1042.9	1043.4	0.5	4.9			
	204	IZMI	7	C	1123.8	1123.9	0.2	152.0			
	3000	IZMI	46	C	1133.9	1138.8	18.0	122.0	32.0		
	1415	SVTO	4	S/F	1134.0	1137.0	8.0	110.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1134.0	1137.0	8.0	120.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1134.0	1139.0	8.0	230.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1134.0	1139.0	8.0	430.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	1134.0	1142.0	10.0	270.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1135.0	1140.0	7.0	490.0			QL=4 ST=2 TYP=3
	15400	SVTO	49	GB	1135.0	1139.0	7.0	600.0			QL=4 ST=2 TYP=6
	1415	SGMR	4	S/F	1135.0	1137.0	13.0	120.0			QL=4 ST=2 TYP=3
	2695	SGMR	48	C	1135.0	1137.0	15.0	110.0			QL=4 ST=2 TYP=8
	610	SGMR	48	C	1135.0	1142.0	21.0	400.0			QL=4 ST=2 TYP=8
	4995	SGMR	4	S/F	1135.0	1139.0	21.0	260.0			QL=4 ST=2 TYP=3
	8800	SGMR	49	GB	1135.0	1139.0	21.0	500.0			QL=4 ST=2 TYP=6
	15400	SGMR	49	GB	1135.0	1139.0	21.0	640.0			QL=4 ST=2 TYP=6
	610	SGMR	48	C	1135.0	1142.0	745.0	400.0			QL=4 ST=1 TYP=8
	1415	SGMR	4	S/F	1135.0	1137.0	745.0	120.0			QL=4 ST=1 TYP=3
	2695	SGMR	48	C	1135.0	1139.0	745.0	99.0			QL=4 ST=1 TYP=8
	4995	SGMR	4	S/F	1135.0	1139.0	745.0	260.0			QL=4 ST=1 TYP=3
	15400	SGMR	49	GB	1135.0	1139.0	745.0	640.0			QL=4 ST=1 TYP=6
	410	SVTO	49	GB	1136.0	1137.0	6.0	1100.0			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

JUNE 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
13	410	SGMR	48	C	1136.0	1137.0	20.0	530.0			QL=4 ST=2 TYP=8
	410	SGMR	20	GRF	1136.0	1142.0	744.0	170.0			QL=4 ST=1 TYP=2
	204	IZMI	46	C	1136.9	1141.6	18.4	1755.0			
	245	SGMR	48	C	1137.0	1140.0	19.0	540.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	1137.0	1140.0	743.0	540.0			QL=4 ST=1 TYP=8
	127	TORN	27	RF	1138.0U		50.0U		3200.0		DISTURBED
	33	UPIC	31	ABS	1138.0	1144.0U	60.0				
	245	SVTO	4	S/F	1155.0	1156.0	8.0	410.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	1155.0	1201.0	8.0	750.0			QL=4 ST=2 TYP=6
	610	SVTO	4	S/F	1155.0	1202.0	8.0	260.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1155.0	1156.0	8.0	200.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1155.0	1156.0	8.0	310.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1155.0	1156.0	8.0	230.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1155.0	1205.0	10.0	69.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1155.0	1204.0	10.0	110.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	1155.3	1156.7	19.2	389.0			
	3000	IZMI	46	C	1155.4	1204.8	16.2	103.0	41.0		
	610	SGMR	48	C	1156.0	1205.0	18.0	420.0			QL=4 ST=2 TYP=8
	1415	SGMR	48	C	1156.0	1205.0	16.0	83.0			QL=4 ST=2 TYP=8
	245	SGMR	20	GRF	1156.0	1156.0	20.0	470.0			QL=4 ST=2 TYP=2
	410	SGMR	48	C	1156.0	1209.0	20.0	980.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1156.0	1204.0	20.0	100.0			QL=4 ST=2 TYP=8
	4995	SGMR	20	GRF	1156.0	1156.0	20.0	230.0			QL=4 ST=2 TYP=2
	8800	SGMR	20	GRF	1156.0	1156.0	20.0	380.0			QL=4 ST=2 TYP=2
	15400	SGMR	20	GRF	1156.0	1156.0	20.0	280.0			QL=4 ST=2 TYP=2
	245	SGMR	4	S/F	1156.0	1156.0	724.0	470.0			QL=4 ST=1 TYP=3
	410	SGMR	48	C	1156.0	1201.0	724.0	860.0			QL=4 ST=1 TYP=8
	410	SGMR	48	C	1156.0	1209.0	724.0	980.0			QL=4 ST=1 TYP=8
	610	SGMR	4	S/F	1156.0	1156.0	724.0	210.0			QL=4 ST=1 TYP=3
	610	SGMR	20	GRF	1156.0	1209.0	724.0	220.0			QL=4 ST=1 TYP=2
	1415	SGMR	4	S/F	1156.0	1156.0	724.0	67.0			QL=4 ST=1 TYP=3
	1415	SGMR	48	C	1156.0	1205.0	724.0	83.0			QL=4 ST=1 TYP=8
	2695	SGMR	4	S/F	1156.0	1156.0	724.0	89.0			QL=4 ST=1 TYP=3
	2695	SGMR	48	C	1156.0	1204.0	724.0	100.0			QL=4 ST=1 TYP=8
	4995	SGMR	4	S/F	1156.0	1156.0	724.0	230.0			QL=4 ST=1 TYP=3
	8800	SGMR	4	S/F	1156.0	1156.0	724.0	380.0			QL=4 ST=1 TYP=3
	15400	SGMR	4	S/F	1156.0	1156.0	724.0	280.0			QL=4 ST=1 TYP=3
	2800	PENT	24	R	1351.0	1626.0	155.0U	48.0			
	245	SGMR	8	S	1538.0	1538.0	U	160.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1538.0	1538.0	U	130.0			QL=4 ST=2 TYP=3
	6700	CUBA	21	GRF	1622.0	1633.0	47.0	7.0	3.0		11R
	1415	SGMR	4	S/F	1623.0	1624.0	5.0	42.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1623.0	1624.0	2.0	32.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1623.0	1624.0	457.0	42.0			QL=4 ST=1 TYP=3
	6700	CUBA	2	S/F	1623.5	1626.5	5.9	15.0	7.0		16R
	245	SGMR	4	S/F	1624.0	1625.0	4.0	22.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1624.0	1626.0	4.0	150.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1624.0	1624.0	4.0	28.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1624.0	1627.0	8.0	51.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1624.0	1627.0	4.0	67.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1624.0	1625.0	456.0	22.0			QL=4 ST=1 TYP=3
	410	SGMR	4	S/F	1624.0	1626.0	456.0	150.0			QL=4 ST=1 TYP=3
	610	SGMR	4	S/F	1624.0	1624.0	456.0	28.0			QL=4 ST=1 TYP=3
	9500	CUBA	2	S/F	1624.0	1624.5	2.8	8.0	4.0		
	4995	SGMR	4	S/F	1626.0	1626.0	6.0	31.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1626.0	1626.0	U	27.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1626.0	1626.0	454.0	31.0			QL=4 ST=1 TYP=3
	6700	CUBA	21	GRF	1842.0	1925.0	228.0D	15.0	7.0		00L SUNSET
	6700	CUBA	2	S/F	1843.0E	1844.0	3.0D	19.0	9.0		6L
	200	HIRA	8	S	1954.0	1954.0	1.0	65.0			0
	8800	SGMR	8	S	1955.0	1955.0	U	41.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1955.0	1955.4	1.8	32.0	16.0		
	6700	CUBA	1	S	1955.0	1955.4	1.4	31.0	15.0		6R
14	204	IZMI	43	NS	0500.0		420.0D		20.0		
	127	TORN	44	NS	0630.0E		510.0D		120.0		V=1
	245	SGMR	43	NS	0955.0	0957.0	9.0	110.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0955.0	0957.0	10.0	110.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	0955.0	0957.0	845.0	110.0			QL=4 ST=1 TYP=1

SOLAR RADIO EMISSION
Outstanding Occurrences

JUNE 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	SVTO	43	NS	0955.0	0957.0	845.0	110.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	1055.0	0957.0	785.0	110.0			QL=4 ST=1 TYP=1
	280	CUBA	44	NS	1300.0E		530.0D		25.0		
	235	CUBA	44	NS	1300.0E		530.0D		12.0		
	200	HIRA	8	S	0628.0	0629.0	1.0	10.0			0
	204	IZMI	41	F	0629.2	0629.4	0.3	30.0			
	245	LEAR	8	S	0631.0	0631.0	2.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0631.0	0631.0	1.0	98.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0631.6	0631.7	0.1	72.0	3.0		
	200	HIRA	8	S	0717.0	0718.0	1.0	25.0			0
	204	IZMI	42	SER	0717.2	0717.4	1.0	103.0			
	245	SVTO	8	S	0729.0	0730.0	1.0	58.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0820.0	0821.0	3.0	58.0			QL=4 ST=2 TYP=3
	600	GORK	2	S/F	0909.5	0911.6	2.9	18.0			
	2950	GORK	21	GRF	0911.6	0955.2	49.1D	10.0			
	2840	PEKG	45	C	0930.0	0938.2	14.0	33.2			
	9100	GORK	21	GRF	0933.3	0955.0	26.2	15.0			
	900	GORK	4	S/F	0933.6	0938.4	4.8	15.0			
	610	SVTO	4	S/F	0935.0	0936.0	3.0	46.0			QL=2 ST=2 TYP=3
	9100	GORK	45	C	0936.0	0938.0		36.0			
	410	SVTO	4	S/F	0936.0	0936.0	3.0	38.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0936.0	0938.0	3.0	59.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0936.0	0938.0	3.0	43.0			QL=4 ST=2 TYP=3
	9100	GORK	45	C	0936.0	0936.8	3.8	26.0			
	2950	GORK	4	S/F	0936.0	0936.9	3.7	10.0			
	3000	IZMI	7	C	0936.2	0938.1	3.4	21.0	12.0		
	600	GORK	46	C	0936.5	0938.3		6.0			
	600	GORK	46	C	0936.5	0936.9	2.1	19.0			
	245	SVTO	8	S	0944.0	0944.0	1.0	120.0			QL=4 ST=2 TYP=3
	204	IZMI	25	R	0946.1		28.9		30.0		
	3000	IZMI	20	GRF	0950.2	1011.6	129.8D	16.0	6.0		
	245	SGMR	8	S	1231.0	1231.0	U	94.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1231.0	1231.0	U	76.0			QL=4 ST=2 TYP=3
	9500	CUBA	20	GRF	1258.0E	1258.0	105.0D	22.0	11.0		
	6700	CUBA	20	GRF	1341.0E	1341.0	52.0D	17.0	8.0		OOL
	245	SGMR	8	S	1529.0	1529.0	U	56.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1700.0	1702.0	4.0	12.0			
	2695	SGMR	8	S	1700.0	1700.0	U	34.0			QL=4 ST=3 TYP=3
	2695	SGMR	46	C	1700.0	1700.0	U	34.0			QL=4 ST=2 TYP=8
	1415	SGMR	8	S	1701.0	1702.0	1.0	69.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1701.0	1702.0	1.0	65.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1701.0	1702.0	1.0	35.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	1702.0	1702.0	U	64.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	1702.0	1702.0	1.0	36.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1702.0	1702.0	U	25.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1738.0	1739.0	3.0	5.0			
15	204	IZMI	44	NS	0500.0E		420.0D		28.0		
	127	TORN	44	NS	0630.0E		510.0D		400.0		V=2
	245	SGMR	43	NS	1039.0	1046.0	43.0	180.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1039.0	1044.0	801.0	150.0			QL=4 ST=1 TYP=1
	280	CUBA	44	NS	1330.0E		500.0D		24.0		
	235	CUBA	44	NS	1330.0E		500.0D		14.0		
	245	LEAR	8	S	0153.0	0153.0	U	42.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0337.0	0338.0	1.0	54.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0436.0	0437.0	1.0	68.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0452.8	0453.3	2.1	66.0			
	245	LEAR	8	S	0506.0	0506.0	U	58.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0506.0	0506.0	U	65.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0533.0	0534.0	1.0	59.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0534.0	0534.0	U	79.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0534.0	0534.0	1106.0	79.0			QL=4 ST=1 TYP=3
	245	LEAR	8	S	0557.0	0557.0	U	63.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0705.0	0707.2	5.0	10.8			
	245	SVTO	8	S	0948.0	0948.0	U	210.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0955.0	0955.0	1.0	110.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0956.0	1049.1	76.0	308.8			
	4995	SVTO	48	C	1004.0	1007.0	33.0	170.0			QL=4 ST=2 TYP=8
	127	TORN	27	RF	1004.0	1026.0	73.0	5700.0	5300.0		

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

JUNE 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
15	4995	SVTO	4	S/F	1004.0	1007.0	836.0	170.0			QL=4 ST=1 TYP=3
	4995	SVTO	48	C	1004.0	1007.0	836.0	170.0			QL=4 ST=1 TYP=8
	4995	SVTO	4	S/F	1004.0	1007.0	836.0	170.0			QL=4 ST=1 TYP=3
	4995	SVTO	48	C	1004.0	1007.0	836.0	170.0			QL=4 ST=1 TYP=8
	3000	IZMI	46	C	1004.2	1013.1	35.6	118.0	29.0		
	2695	SGMR	48	C	1005.0	1011.0	18.0	130.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1005.0	1007.0	10.0	160.0			QL=4 ST=2 TYP=8
	1415	SVTO	48	C	1005.0	1007.0	31.0	130.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	1005.0	1011.0	31.0	130.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	1005.0	1007.0	37.0	150.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1005.0	1011.0	835.0	130.0			QL=4 ST=1 TYP=8
	2695	SGMR	4	S/F	1005.0	1007.0	835.0	88.0			QL=4 ST=1 TYP=3
	2695	SGMR	48	C	1005.0	1011.0	835.0	130.0			QL=4 ST=1 TYP=8
	4995	SGMR	48	C	1005.0	1011.0	835.0	85.0			QL=4 ST=1 TYP=8
	4995	SGMR	4	S/F	1005.0	1007.0	835.0	160.0			QL=4 ST=1 TYP=3
	4995	SGMR	48	C	1005.0	1011.0	835.0	85.0			QL=4 ST=1 TYP=8
	1415	SVTO	48	C	1005.0	1007.0	835.0	130.0			QL=4 ST=1 TYP=8
	1415	SVTO	4	S/F	1005.0	1007.0	835.0	130.0			QL=4 ST=1 TYP=3
	1415	SVTO	48	C	1005.0	1007.0	835.0	130.0			QL=4 ST=1 TYP=8
	2695	SVTO	48	C	1005.0	1011.0	835.0	130.0			QL=4 ST=1 TYP=8
	2695	SVTO	4	S/F	1005.0	1007.0	835.0	88.0			QL=4 ST=1 TYP=3
	2695	SVTO	48	C	1005.0	1011.0	835.0	130.0			QL=4 ST=1 TYP=8
	8800	SVTO	4	S/F	1005.0	1007.0	835.0	150.0			QL=4 ST=1 TYP=3
	8800	SGMR	4	S/F	1006.0	1007.0	8.0	150.0			QL=4 ST=2 TYP=3
	1415	SGMR	48	C	1006.0	1012.0	17.0	210.0			QL=4 ST=2 TYP=8
	15400	SVTO	48	C	1006.0	1007.0	29.0	76.0			QL=4 ST=2 TYP=8
	410	SVTO	48	C	1006.0	1035.0	30.0	110.0			QL=4 ST=2 TYP=8
	33	UPIC	42	SER	1006.0	1008.0	51.0				
	245	SVTO	48	C	1006.0	1048.0	76.0	5800.0			QL=4 ST=2 TYP=8
	1415	SGMR	4	S/F	1006.0	1007.0	834.0	140.0			QL=4 ST=1 TYP=3
	8800	SGMR	4	S/F	1006.0	1007.0	834.0	150.0			QL=4 ST=1 TYP=3
	245	SVTO	48	C	1006.0	1048.0	834.0	5800.0			QL=4 ST=1 TYP=8
	245	SVTO	49	GB	1006.0	1007.0	834.0	1900.0			QL=4 ST=1 TYP=6
	245	SVTO	48	C	1006.0	1048.0	834.0	5800.0			QL=4 ST=1 TYP=8
	245	SVTO	48	C	1006.0	1013.0	834.0	4500.0			QL=4 ST=1 TYP=8
	410	SVTO	49	GB	1006.0	1012.0	834.0	1900.0			QL=4 ST=1 TYP=6
	410	SVTO	48	C	1006.0	1035.0	834.0	110.0			QL=4 ST=1 TYP=8
	410	SVTO	49	GB	1006.0	1012.0	834.0	1900.0			QL=4 ST=1 TYP=6
	410	SVTO	48	C	1006.0	1035.0	834.0	110.0			QL=4 ST=1 TYP=8
	15400	SVTO	48	C	1006.0	1007.0	834.0	76.0			QL=4 ST=1 TYP=8
	15400	SVTO	4	S/F	1006.0	1007.0	834.0	76.0			QL=4 ST=1 TYP=3
	15400	SVTO	48	C	1006.0	1007.0	834.0	76.0			QL=4 ST=1 TYP=8
	15400	SVTO	4	S/F	1006.0	1007.0	834.0	76.0			QL=4 ST=1 TYP=3
	245	SGMR	48	C	1007.0	1013.0	22.0	3400.0			QL=4 ST=2 TYP=8
	410	SGMR	49	GB	1007.0	1012.0	22.0	1900.0			QL=4 ST=2 TYP=6
	610	SVTO	48	C	1007.0	1009.0	28.0	1300.0			QL=2 ST=2 TYP=8
	245	SGMR	48	C	1007.0	1013.0	833.0	3400.0			QL=4 ST=1 TYP=8
	245	SGMR	49	GB	1007.0	1007.0	833.0	1200.0			QL=4 ST=1 TYP=6
	410	SGMR	49	GB	1007.0	1012.0	833.0	1900.0			QL=4 ST=1 TYP=6
	610	SVTO	49	GB	1007.0	1009.0	833.0	1300.0			QL=4 ST=1 TYP=6
	610	SVTO	48	C	1007.0	1009.0	833.0	1300.0			QL=2 ST=1 TYP=8
	610	SVTO	49	GB	1007.0	1009.0	833.0	1300.0			QL=4 ST=1 TYP=6
	610	SVTO	48	C	1007.0	1009.0	833.0	1300.0			QL=2 ST=1 TYP=8
	204	IZMI	46	C	1007.2	1008.2	34.2	20464.0			
	610	SGMR	49	GB	1008.0	1010.0	21.0	1500.0			QL=4 ST=2 TYP=6
	610	SGMR	49	GB	1008.0	1010.0	832.0	1500.0			QL=4 ST=1 TYP=6
	15400	SGMR	48	C	1013.0	1027.0	14.0	55.0			QL=4 ST=2 TYP=8
	15400	SGMR	4	S/F	1013.0	1013.0	827.0	32.0			QL=4 ST=1 TYP=3
	245	SGMR	48	C	1031.0	1035.0	7.0	450.0			QL=4 ST=2 TYP=8
	410	SGMR	4	S/F	1033.0	1034.0	4.0	120.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1034.0	1035.0	4.0	77.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1034.0	1035.0	4.0	64.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1035.0	1035.0	3.0	34.0			QL=4 ST=2 TYP=3
	8800	SVTO	46	C	1035.0	1035.0	805.0	33.0			QL=4 ST=1 TYP=8
	204	IZMI	46	C	1041.9	1048.5	47.3	4287.0			
	245	SGMR	49	GB	1046.0	1048.0	34.0	5000.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1046.0	1048.0	794.0	5000.0			QL=4 ST=1 TYP=6
	410	SGMR	48	C	1047.0	1101.0	33.0	750.0			QL=4 ST=2 TYP=8
	610	SGMR	48	C	1047.0	1101.0	33.0	200.0			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

JUNE 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
15	1415	SGMR	20	GRF	1047.0	1048.0	33.0	360.0			QL=4 ST=2 TYP=2
	2695	SGMR	4	S/F	1047.0	1049.0	33.0	260.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1047.0	1049.0	33.0	190.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1047.0	1049.0	793.0	670.0			QL=4 ST=1 TYP=6
	410	SGMR	48	C	1047.0	1101.0	793.0	750.0			QL=4 ST=1 TYP=8
	610	SGMR	4	S/F	1047.0	1048.0	793.0	140.0			QL=4 ST=1 TYP=3
	610	SGMR	48	C	1047.0	1101.0	793.0	200.0			QL=4 ST=1 TYP=8
	1415	SGMR	4	S/F	1047.0	1048.0	793.0	360.0			QL=4 ST=1 TYP=3
	2695	SGMR	4	S/F	1047.0	1049.0	793.0	260.0			QL=4 ST=1 TYP=3
	4995	SGMR	4	S/F	1047.0	1049.0	793.0	190.0			QL=4 ST=1 TYP=3
	3000	IZMI	45	C	1047.1	1048.9	32.0	261.0	41.0		
	8800	SGMR	4	S/F	1048.0	1049.0	32.0	100.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1048.0	1049.0	32.0	49.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1048.0	1049.0	792.0	100.0			QL=4 ST=1 TYP=3
	15400	SGMR	4	S/F	1048.0	1049.0	792.0	49.0			QL=4 ST=1 TYP=3
	410	SVTO	8	S	1253.0	1253.0	U	83.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1522.0	1545.0	70.0U	48.0			
	33	UPIC	46	C	1535.0	1536.0	5.0				
	2695	SVTO	20	GRF	1537.0	1544.0	18.0	49.0			QL=4 ST=2 TYP=2
	1415	SVTO	20	GRF	1538.0	1550.0	15.0	50.0			QL=4 ST=2 TYP=2
	2695	SGMR	20	GRF	1539.0	1546.0	19.0	39.0			QL=4 ST=2 TYP=2
	1415	SGMR	20	GRF	1540.0	1550.0	18.0	53.0			QL=4 ST=2 TYP=2
	610	SGMR	4	S/F	1626.0	1627.0	3.0	82.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1626.0	1627.0	1.0	63.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2028.0	2028.0	1.0	10.0			0
	2840	PEKG	3	S	2206.0	2220.4	23.0	57.5			
	6700	CUBA	21	GRF	2208.0	2227.0	22.0D	13.0	6.0		5L SUNSET
	9500	CUBA	21	GRF	2209.0	2224.0	21.0D	11.0	5.0		SUNSET
	2800	PENT	29	PBI	2211.0	2220.0	21.0	32.0			
	2800	HIRA	4	S/F	2215.0	2220.0	8.0	30.0			0
	1415	PALE	4	S/F	2216.0	2217.0	4.0	150.0			QL=4 ST=2 TYP=3
	4995	PALE	48	C	2216.0	2220.0	6.0	81.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	2216.0	2220.0	6.0	86.0			QL=4 ST=2 TYP=8
	1415	SGMR	4	S/F	2216.0	2217.0	6.0	140.0			QL=4 ST=2 TYP=3
	4995	SGMR	48	C	2216.0	2220.0	10.0	84.0			QL=4 ST=2 TYP=8
	6700	CUBA	45	C	2216.2	2220.5	6.6	51.0			2L
	9500	CUBA	45	C	2216.5	2220.2	5.5	48.0			
	500	HIRA	7	C	2217.0	2218.0	4.0	10.0			0
	2695	PALE	8	S	2217.0	2217.0	1.0	33.0			QL=4 ST=2 TYP=3
	8800	SGMR	48	C	2217.0	2220.0	9.0	72.0			QL=4 ST=2 TYP=8
	2695	SGMR	4	S/F	2219.0	2220.0	7.0	41.0			QL=4 ST=2 TYP=3
	200	HIRA	7	C	2229.0	2230.0	17.0	10.0			0
16	280	CUBA	44	NS	1300.0E		420.0D		19.0		
	235	CUBA	44	NS	1300.0E		420.0D		8.0		
	500	HIRA	8	S	0048.0	0048.0	1.0	10.0			0
	200	HIRA	8	S	0048.0	0048.0	1.0	10.0			0
	2840	PEKG	20	GRF	0426.0	0434.3	19.0	10.5			
	204	IZMI	42	SER	0509.4	0509.5	2.0	20.0			
	204	IZMI	41	F	0603.9	0604.1	0.7	23.0			
	204	IZMI	42	SER	0608.7	0612.4	5.4	18.0			
	204	IZMI	41	F	0949.2	0949.3	0.5	14.0			
	6700	CUBA	20	GRF	1244.0E	1244.0	151.0D	10.0	5.0		15R
	9500	CUBA	20	GRF	1247.0E	1247.0	132.0D	18.0	9.0		
	245	SGMR	8	S	1635.0	1635.0	U	48.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1705.0	1706.0	2.0	81.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1705.0	1706.0	1.0	82.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1829.0	1855.0	63.0U	10.0			
	6700	CUBA	20	GRF	1843.0	1859.0	131.0	15.0	7.0		5L
	9500	CUBA	20	GRF	1853.0	1916.0	62.0	7.0	3.0		
	2804	VORO	2	S/F	2202.5	2202.7	2.5	24.2			
	2840	PEKG	3	S	2228.0	2237.3	21.0	72.4			
	500	HIRA	4	S/F	2233.0	2236.0	6.0	10.0			0
	2800	HIRA	3	S	2233.0	2237.0	11.0	60.0			0
	200	HIRA	42	SER	2234.0	2235.0	4.0	15.0			0
	1415	PALE	4	S/F	2235.0	2236.0	3.0	51.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2235.0	2237.0	3.0	49.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	2235.0	2237.0	4.0	50.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	2251.0	2252.7	9.0	31.7			

SOLAR RADIO EMISSION
Outstanding Occurrences

JUNE 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
17	127	TORN	44	NS	0630.0E		510.0D		20.0		V=1
	127	TORN	44	NS	1300.0E		120.0D		30.0		V=1
	280	CUBA	44	NS	1310.0E		520.0D		16.0		
	235	CUBA	44	NS	1310.0E		520.0D		10.0		
	2840	PEKG	45	C	0304.0	0312.3	20.0	27.9			
	2800	HIRA	1	S	0307.0	0310.0	7.0	20.0			0
	500	HIRA	8	S	0309.0	0309.0	1.0	5.0			0
	2804	VORO	3	S	0310.0	0312.3	10.0	17.8			
	3000	IZMI	20	GRF	0518.6	0520.5	5.8	15.0	7.0		
	2840	PEKG	20	GRF	0954.0	1003.2	21.0	16.8			
	6700	CUBA	8	S	1454.5	1455.0	0.7	26.0	13.0		00L
	6700	CUBA	1	S	1723.0	1724.0	2.0	10.0	5.0		44L
	2800	PENT	29	PBI	2225.0	2229.0	7.0U	7.0			
	2840	PEKG	3	S	2226.0	2229.0	14.0	12.6			
	6700	CUBA	2	S/F	2228.5	2229.6	2.5	79.0	39.0		10L
	9500	CUBA	2	S/F	2228.6	2229.5	2.4	57.0	28.0		
	4995	PALE	8	S	2229.0	2229.0	1.0	69.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2229.0	2229.0	1.0	77.0			QL=4 ST=2 TYP=3
18	204	IZMI	43	NS	0500.0		420.0D		20.0		
	127	TORN	44	NS	0630.0E		510.0D		70.0		V=1
	280	CUBA	44	NS	1300.0E		530.0D		20.0		
	235	CUBA	44	NS	1300.0E		530.0D		10.0		
	204	IZMI	41	F	0548.2	0548.4	0.4	30.0			
	200	HIRA	7	C	0833.0	0834.0	8.0	35.0			WL
	245	LEAR	8	S	0927.0E	0928.0	2.0D	68.0			QL=2 ST=2 TYP=3
	2800	PENT	1	S	1451.0	1454.0	7.0	9.0			
	9500	CUBA	8	S	1454.8	1454.9	0.2	24.0	12.0		
	6700	CUBA	21	GRF	2000.0	2020.0	151.0D	47.0	23.0		6L SUNSET
	4995	SGMR	4	S/F	2001.0	2003.0	10.0	87.0			QL=4 ST=2 TYP=3
	9500	CUBA	21	GRF	2001.0	2018.0	149.0D	31.0	15.0		SUNSET
	9500	CUBA	2	S/F	2001.8	2003.3	3.0	32.0	16.0		
	2695	PALE	4	S/F	2002.0	2003.0	5.0	72.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2002.0	2003.0	238.0	72.0			QL=4 ST=1 TYP=3
	6700	CUBA	2	S/F	2002.1	2003.5	2.7	27.0	13.0		36R
	1415	PALE	4	S/F	2003.0	2003.0	3.0	48.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	2003.0	2003.0	5.0	50.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	2003.0	2003.0	3.0	60.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	2003.0	2004.0	1.0	46.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2003.0	2003.0	U	34.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	2003.0	2003.0	237.0	48.0			QL=4 ST=1 TYP=3
	4995	PALE	4	S/F	2003.0	2003.0	237.0	50.0			QL=4 ST=1 TYP=3
	8800	PALE	4	S/F	2005.0	2008.0	4.0	35.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2005.0	2008.0	235.0	35.0			QL=4 ST=1 TYP=3
	2695	PALE	4	S/F	2020.0	2020.0	8.0	33.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2020.0	2021.0	1.0	2.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2020.0	2021.0	1.0	5.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2020.0	2022.0	2.0	14.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	2354.0	2412.0	43.0	12.0			
	2840	PEKG	1	S	2357.0	2359.4	7.0	6.9			
19	204	IZMI	44	NS	0500.0E		120.0D		5.0		
	127	TORN	44	NS	0630.0E		510.0D		60.0		V=2
	280	CUBA	44	NS	1325.0E		395.0D		17.0		
	235	CUBA	44	NS	1325.0E		395.0D		6.0		
	245	LEAR	43	NS	2340.0	2340.0	20.0	64.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	2340.0	2340.0	47.0	64.0			QL=4 ST=2 TYP=1
	2840	PEKG	1	S	0217.0	0220.2	7.0	9.7			
	2804	VORO	3	S	0217.5	0220.0	4.5	6.2			
	500	HIRA	3	S	0333.0	0336.0	8.0	60.0			0
	410	LEAR	8	S	0335.0	0336.0	2.0	85.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0335.0	0335.0	U	36.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0335.0	0336.0	2.0	96.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0335.0	0335.0	U	33.0			QL=4 ST=2 TYP=3
	200	HIRA	7	C	0335.0	0337.0	14.0	90.0			0
	245	LEAR	48	C	0336.0	0339.0	4.0	58.0			QL=4 ST=2 TYP=8
	3000	IZMI	20	GRF	0502.6	0504.7	2.5	17.0	8.0		
	3000	IZMI	20	GRF	0601.6	0602.5	7.1	14.0	5.0		
	200	HIRA	8	S	0806.0	0807.0	3.0	60.0			-

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

JUNE 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
19	2800	PENT	29	PBI	1816.0	1821.0	71.0	19.0			
	6700	CUBA	21	GRF	1820.0	1828.0	146.0	8.0	4.0		9L
	6700	CUBA	1	S	1820.6	1821.5	1.4	18.0	9.0		11L
	9500	CUBA	21	GRF	1821.0	1822.0	28.0	4.0	2.0		
	9500	CUBA	1	S	1821.0	1821.5	1.0	14.0	7.0		
	2840	PEKG	45	C	2307.0	2314.3	16.0	21.2			
	2804	VORO	46	C	2311.0	2314.0	10.8	17.8			
	1415	PALE	8	S	2312.0	2314.0	2.0	320.0			QL=4 ST=2 TYP=3
	2804	VORO	30	PBI	2321.8	2321.8	18.0	6.8			
	245	LEAR	8	S	2322.0	2323.0	1.0	66.0			QL=2 ST=2 TYP=3
20	127	TORN	44	NS	0630.0E		450.0D		8.0		V=0,DISTURBED
	280	CUBA	44	NS	1500.0E		410.0D		16.0		
	235	CUBA	44	NS	1500.0E		410.0D		6.0		
	200	HIRA	42	SER	0117.0	0121.0	10.0	30.0			0
	500	HIRA	4	S/F	0340.0	0342.0	10.0	25.0			0
	610	PALE	4	S/F	0341.0	0341.0	7.0	35.0			QL=4 ST=2 TYP=3
	200	HIRA	7	C	0341.0	0342.0	10.0	30.0			0
	410	PALE	8	S	0342.0	0343.0	2.0	51.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0344.0	0344.0	2.0	38.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0651.0	0706.5	20.7	41.0			
	2950	GORK	1	S	1036.6	1036.7	0.4	6.0			
	33	UPIC	42	SER	1437.5	1438.0	14.5				
	2800	PENT	20	GRF	1851.0	1855.0	41.0U	10.0			
	245	SGMR	4	S/F	1925.0	1932.0	8.0	38.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1925.0	1930.0	8.0	130.0			QL=4 ST=2 TYP=3
	410	PALE	48	C	1926.0	1930.0	7.0	170.0			QL=4 ST=2 TYP=8
	410	SGMR	48	C	1926.0	1930.0	6.0	130.0			QL=4 ST=2 TYP=8
	410	PALE	48	C	1926.0	1930.0	274.0	170.0			QL=4 ST=1 TYP=8
	245	SGMR	8	S	1931.0	1932.0	2.0	36.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1932.0	1932.0	U	42.0			QL=4 ST=2 TYP=3
	6700	CUBA	21	GRF	2015.0	2047.0	135.0D	19.0	9.0		5R SUNSET
	610	PALE	49	GB	2016.0	2019.0	4.0	1000.0			QL=4 ST=2 TYP=6
	610	SGMR	4	S/F	2016.0	2019.0	3.0	870.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	2035.0	2058.0	49.0	11.0			
	6700	CUBA	2	S/F	2038.2	2039.1	4.3	14.0	7.0		7R
	2804	VORO	3	S	2252.0	2253.7	3.3	5.1			
	2804	VORO	8	S	2327.3	2327.4	0.2	15.3			
21	127	TORN	43	NS	0720.0		370.0		4.0		V=0,DISTURBED
	280	CUBA	44	NS	1330.0E		455.0D		16.0		
	235	CUBA	44	NS	1330.0E		455.0D		6.0		
	2840	PEKG	45	C	0127.0	0130.3	5.0	49.0			
	2800	HIRA	8	S	0130.0	0130.0	1.0	40.0			0
	500	HIRA	8	S	0130.0	0130.0	1.0	20.0			0
	200	HIRA	8	S	0130.0	0130.0	1.0	80.0			0
	2804	VORO	40	F	0138.0	0140.3	2.7	27.1			
	245	LEAR	49	GB	0259.0	0259.0	1.0	800.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	0259.0	0259.0	1.0	920.0			QL=4 ST=2 TYP=6
	200	HIRA	47	GB	0259.0	0308.0	20.0	500.0			0
	245	LEAR	8	S	0302.0	0303.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0303.0	0303.0	U	110.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	0303.0	0308.0	16.0	35.0			0
	245	LEAR	8	S	0307.0	0308.0	2.0	310.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	0307.0	0308.0	3.0	350.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0308.0	0308.0	1.0	74.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0308.0	0308.0	1.0	83.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0318.0	0318.0	U	350.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0318.0	0318.0	U	400.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0436.0	0437.0	1.0	10.0			0
	200	HIRA	8	S	0437.0	0437.0	1.0	5.0			ML
	245	LEAR	4	S/F	0501.0	0502.0	3.0	62.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0501.0	0502.0	3.0	50.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0505.2	0505.6	0.6	26.0			
	204	IZMI	42	SER	0507.4	0507.5	0.7	26.0			
	204	IZMI	42	SER	0629.2	0632.5	3.4	66.0			
	204	IZMI	42	SER	0636.3	0637.0	1.7	65.0			
	204	IZMI	42	SER	0703.5	0706.5	16.3	75.0			
	245	SVTO	8	S	0829.0	0829.0	U	110.0			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

JUNE 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
21	410	SVTO	8	S	0829.0	0829.0	U	87.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0829.3	0829.9	1.3	125.0			
	200	HIRA	8	S	0830.0	0830.0	1.0	25.0			0
	204	IZMI	42	SER	0832.2	0833.1	1.4	26.0			
	200	HIRA	8	S	0903.0	0903.0	1.0	60.0			SL
	3000	IZMI	22	GRF	1102.2	1108.1	8.8	19.0	11.0		
	33	UPIC	46	C	1136.5	1137.0	2.0				
	245	SGMR	8	S	1259.0	1259.0	1.0	210.0			QL=4 ST=4 TYP=3
	245	SGMR	8	S	1259.0	1259.0	1.0	210.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1259.0	1259.0	1.0	210.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1508.0	1508.0	U	62.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1552.0	1600.0	40.0U	22.0			
	245	SVTO	8	S	1607.0	1607.0	U	57.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1718.0	1719.0	1.0	150.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1718.0	1719.0	1.0	97.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1718.0	1719.0	1.0	95.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1818.0	1818.0	U	65.0			QL=4 ST=2 TYP=3
	2800	PENT	20	GRF	2102.0	2106.0	59.0	13.0			
22	127	TORN	44	NS	0740.0E		440.0D		7.0		V=1
	204	IZMI	43	NS	0955.0		125.0D		15.0		
	280	CUBA	44	NS	1300.0E		530.0D		19.0		
	235	CUBA	44	NS	1300.0E		530.0D		8.0		
	410	SGMR	43	NS	1832.0	1846.0	16.0	54.0			QL=4 ST=2 TYP=1
	410	SGMR	43	NS	1832.0	1833.0	328.0	53.0			QL=4 ST=1 TYP=1
	2804	VORO	1	S	0318.2	0318.6	1.0	4.7			
	245	LEAR	4	S/F	0459.0	0502.0	5.0	100.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0459.0	0500.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0459.0	0500.0	1.0	73.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0459.0	0500.0	1.0	69.0			QL=4 ST=2 TYP=3
	600	GORK	46	C	0459.5	0501.7	4.0	40.0			
	900	GORK	42	SER	0459.8	0501.2	2.1	14.0			
	204	IZMI	42	SER	0459.8	0500.5	3.1	117.0			
	500	HIRA	8	S	0500.0	0500.0	2.0	80.0			0
	200	HIRA	8	S	0500.0	0500.0	1.0	30.0			0
	2950	GORK	8	S	0501.0	0501.2	0.6	11.4			
	2840	PEKG	5	S	0629.0	0632.4	8.0	16.3			
	3000	IZMI	7	C	0631.4	0632.3	3.9	23.0	7.0		
	2950	GORK	4	S/F	0631.8	0632.4	1.7	16.0			
	204	IZMI	7	C	0648.6	0648.7	0.3	67.0			
	3000	IZMI	45	C	0915.9	0928.2	17.8	27.0	11.0		
	2840	PEKG	20	GRF	0920.0	0927.7	27.0	26.8			
	2950	GORK	22	GRF	0921.2	0928.2		16.0			
	2950	GORK	22	GRF	0921.2	0922.6	33.8	10.0			
	9100	GORK	22	GRF	0921.5	0929.1	17.5	18.0			
	9100	GORK	45	C	0926.3	0928.2	3.0	32.0			
	2800	PENT	20	GRF	1408.0	1441.0	63.0	13.0			
	245	PALE	4	S/F	1715.0	1719.0	4.0	71.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1715.0	1715.0	U	63.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1814.0	1815.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1814.0	1814.0	U	82.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1821.0	1825.0	9.0	13.0			
	410	SGMR	46	C	1824.0	1825.0	3.0	45.0			QL=4 ST=3 TYP=8
	410	SGMR	46	C	1824.0	1825.0	3.0	45.0			QL=4 ST=2 TYP=8
	6700	CUBA	2	S/F	1824.1	1826.1	5.7	43.0	21.0		6R
	9500	CUBA	2	S/F	1824.2	1825.9	4.8	67.0	33.0		
	8800	SGMR	8	S	1825.0	1825.0	2.0	39.0			QL=4 ST=3 TYP=3
	8800	SGMR	8	S	1825.0	1825.0	2.0	39.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1825.0	1825.0	2.0	66.0			QL=4 ST=3 TYP=3
	15400	SGMR	8	S	1825.0	1825.0	2.0	66.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1826.0	1826.0	1.0	11.0			QL=4 ST=3 TYP=3
	4995	SGMR	8	S	1826.0	1826.0	1.0	11.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1830.0	1830.0	U	39.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1830.0	1830.0	1.0	110.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	2009.0	2217.0	143.0U	110.0			
	280	CUBA	48	C	2020.0	2046.0	31.5	293.0			
	235	CUBA	48	C	2020.0	2026.0	31.5D	147.0			
	200	HIRA	7	C	2022.0	2034.0	31.0	75.0			0
	410	PALE	8	S	2023.0	2023.0	1.0	34.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

JUNE 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
22	245	SGMR	48	C	2023.0	2045.0	27.0	310.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	2023.0	2027.0	217.0	120.0			QL=4 ST=1 TYP=8
	245	SGMR	48	C	2023.0	2045.0	217.0	310.0			QL=4 ST=1 TYP=8
	245	PALE	49	GB	2024.0	2028.0	26.0	1800.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	2024.0	2028.0	216.0	1800.0			QL=4 ST=1 TYP=6
	410	SGMR	48	C	2025.0	2038.0	25.0	280.0			QL=4 ST=2 TYP=8
	410	SGMR	48	C	2025.0	2034.0	215.0	96.0			QL=4 ST=1 TYP=8
	410	SGMR	48	C	2025.0	2038.0	215.0	280.0			QL=4 ST=1 TYP=8
	610	SGMR	48	C	2026.0	2030.0	24.0	130.0			QL=4 ST=2 TYP=8
	610	SGMR	48	C	2026.0	2030.0	214.0	130.0			QL=4 ST=1 TYP=8
	610	PALE	4	S/F	2027.0	2031.0	9.0	150.0			QL=4 ST=2 TYP=3
	500	HIRA	7	C	2027.0	2034.0	24.0	180.0			0
	610	PALE	4	S/F	2027.0	2031.0	213.0	150.0			QL=4 ST=1 TYP=3
	2800	PENT	32	ABS	2114.0E	2119.0	18.0U	3.0			
	6700	CUBA	22	GRF	2115.0	2120.0	37.0	10.0	5.0		9L
	2840	PEKG	3	S	2208.0	2217.3	33.0	152.4			
	2800	HIRA	3	S	2215.0	2217.0	9.0	105.0			0
	2695	SGMR	48	C	2215.0	2217.0	22.0	110.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	2215.0	2216.0	22.0	130.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	2215.0	2217.0	105.0	110.0			QL=4 ST=1 TYP=8
	4995	SGMR	48	C	2215.0	2216.0	105.0	130.0			QL=4 ST=1 TYP=8
	6700	CUBA	45	C	2215.3	2219.5	5.1	122.0	61.0		19R
	500	HIRA	8	S	2216.0	2217.0	3.0	50.0			0
	410	PALE	8	S	2216.0	2216.0	U	420.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2216.0	2217.0	4.0	120.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	2216.0	2217.0	8.0	150.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2216.0	2219.0	18.0	200.0			QL=4 ST=2 TYP=3
	1415	SGMR	48	C	2216.0	2217.0	21.0	66.0			QL=4 ST=2 TYP=8
	410	PALE	4	S/F	2216.0	2216.0	104.0	420.0			QL=4 ST=1 TYP=3
	2695	PALE	4	S/F	2216.0	2217.0	104.0	120.0			QL=4 ST=1 TYP=3
	4995	PALE	4	S/F	2216.0	2217.0	104.0	150.0			QL=4 ST=1 TYP=3
	1415	SGMR	48	C	2216.0	2217.0	104.0	66.0			QL=4 ST=1 TYP=8
	9500	CUBA	45	C	2216.2	2218.9	4.0	129.0			
	1415	PALE	8	S	2217.0	2218.0	2.0	59.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	2217.0	2218.0	103.0	59.0			QL=4 ST=1 TYP=3
	15400	PALE	4	S/F	2218.0	2219.0	10.0	130.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	2218.0	2219.0	102.0	130.0			QL=4 ST=1 TYP=3
	9500	CUBA	29	PBI	2220.0	2220.0	30.0	37.0	18.0		
	8800	SGMR	46	C	2223.0	2224.0	14.0	28.0			QL=4 ST=2 TYP=8
	8800	SGMR	4	S/F	2223.0	2224.0	97.0	120.0			QL=4 ST=1 TYP=3
	2800	PENT	41	F	2356.0	2413.0	24.0	23.0			
	2840	PEKG	1	S	2359.0	2400.7	5.0	5.7			
23	127	TORN	44	NS	0630.0E	1035.3	510.0D	380.0	8.0		V=2
	204	IZMI	43	NS	1006.0		114.0D		25.0		
	200	HIRA	8	S	0000.0	0001.0	1.0	20.0			0
	2840	PEKG	45	C	0010.0	0013.0	6.0	44.9			
	2804	VORO	46	C	0011.0	0012.8	4.0	28.7			
	2800	HIRA	1	S	0012.0	0013.0	3.0	35.0			0
	2840	PEKG	20	GRF	0154.0	0207.9	20.0	11.3			
	2804	VORO	1	S	0202.5	0203.1	1.9	4.6			
	500	HIRA	8	S	0208.0	0209.0	2.0	70.0			0
	200	HIRA	8	S	0208.0	0208.0	1.0	20.0			0
	2840	PEKG	45	C	0404.0	0407.7	10.0	54.3			
	8800	SVTO	4	S/F	0405.0	0407.0	4.0	110.0			QL=4 ST=2 TYP=3
	2804	VORO	46	C	0405.3	0407.7	5.0	45.1			
	2800	HIRA	3	S	0406.0	0408.0	4.0	45.0			0
	4995	LEAR	8	S	0407.0	0407.0	1.0	100.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0407.0	0407.0	1.0	92.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0407.0	0407.0	5.0	78.0			QL=4 ST=3 TYP=3
	4995	PALE	4	S/F	0407.0	0407.0	5.0	78.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0407.0	0407.0	5.0	74.0			QL=4 ST=3 TYP=3
	8800	PALE	4	S/F	0407.0	0407.0	5.0	74.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0407.0	0407.0	1.0	45.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0407.0	0407.0	1.0	90.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0407.0	0407.0	1193.0	100.0			QL=4 ST=1 TYP=3
	8800	LEAR	4	S/F	0407.0	0407.0	1193.0	92.0			QL=4 ST=1 TYP=3
	2950	GORK	46	C	0407.0	0407.2	2.0	26.0			
	2950	GORK	46	C	0407.0	0407.8		41.0			

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

JUNE 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	900	GORK	3	S	0407.5	0407.7	0.8	15.0			
	610	SVTO	49	GB	0501.0	0507.0	7.0	1900.0			QL=4 ST=2 TYP=6
	610	SVTO	48	C	0501.0	0507.0	1139.0	1900.0			QL=4 ST=1 TYP=8
	204	IZMI	42	SER	0503.4	0503.4	0.8	26.0			
	9100	GORK	3	S	0506.8	0507.8	1.1	18.0			
	500	HIRA	8	S	0507.0	0507.0	1.0	140.0			0
	610	LEAR	49	GB	0507.0	0507.0	1.0	1600.0			QL=4 ST=2 TYP=6
	610	LEAR	49	GB	0507.0	0507.0	1133.0	1600.0			QL=4 ST=1 TYP=6
	9100	GORK	1	S	0508.5	0509.2	1.2	7.9			
	204	IZMI	41	F	0509.8	0510.2	0.6	39.0			
	204	IZMI	7	C	0518.4	0518.5	0.2	26.0			
	500	HIRA	8	S	0519.0	0519.0	1.0	60.0			0
	2840	PEKG	20	GRF	0617.0	0624.1	12.0	6.1			
	900	GORK	41	F	0622.8	0623.8		18.0			
	3000	IZMI	42	SER	0622.8	0623.8	15.9	12.0	5.0		
	900	GORK	41	F	0622.8	0622.9	1.2	6.0			
	2950	GORK	45	C	0623.0	0623.5	1.4	6.3			
	2950	GORK	45	C	0623.0	0625.5		8.0			
	9100	GORK	20	GRF	0623.2	0635.5	35.0	24.0			
	600	GORK	42	SER	0634.0	0637.4	5.1	170.0U			
	600	GORK	42	SER	0634.0	0638.8		30.0			
	500	HIRA	8	S	0637.0	0637.0	1.0	190.0			0
	410	LEAR	8	S	0637.0	0637.0	U	100.0			QL=4 ST=2 TYP=3
	610	LEAR	49	GB	0637.0	0637.0	U	670.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	0637.0	0637.0	U	75.0			QL=4 ST=2 TYP=3
	610	SVTO	49	GB	0637.0	0637.0	U	640.0			QL=4 ST=2 TYP=6
	900	GORK	41	F	0637.2	0637.3	2.0	53.0			
	900	GORK	41	F	0637.2	0638.7		50.0			
	204	IZMI	41	F	0637.4	0637.6	0.8	31.0			
	2950	GORK	1	S	0637.4	0637.7	0.4	8.0			
	200	HIRA	8	S	0638.0	0638.0	1.0	20.0			0
	2840	PEKG	45	C	0803.0	0834.0	31.0	47.3			
	500	HIRA	7	C	0832.0	0835.0	4.0	145.0			0
	200	HIRA	8	S	0832.0	0833.0	2.0	100.0			0
	245	LEAR	8	S	0832.0	0833.0	1.0	94.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0832.0	0833.0	1.0	160.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0832.0	0833.0	2.0	60.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0832.0	0833.0	2.0	88.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0832.0	0833.0	1.0	120.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0832.0	0833.0	2.0	150.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	0832.0	0833.0	4.0				
	204	IZMI	46	C	0832.1	0833.2	3.1	224.0			
	3000	IZMI	7	C	0833.1	0834.1	1.3	57.0	14.0		
	2950	GORK	45	C	0833.5	0834.1		38.0			
	2950	GORK	45	C	0833.5	0833.7	0.9	11.0			
	500	HIRA	8	S	0849.0	0849.0	1.0	85.0			0
	200	HIRA	7	C	0853.0	0856.0	3.0	45.0			0
	204	IZMI	46	C	0853.4	0855.3	2.8	107.0			
	204	IZMI	42	SER	1035.1	1035.1	1.6	91.0			
	245	SGMR	8	S	1039.0	1039.0	U	140.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1039.9	1040.1	0.4	64.0			
	204	IZMI	7	C	1053.0	1053.2	0.4	37.0			
	127	TORN	7	C	1057.0	1057.7	2.1	130.0	30.0		
	127	TORN	48	C	1126.3	1127.6	4.6	500.0	60.0		
	245	SGMR	8	S	1230.0	1230.0	U	75.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1230.0	1230.0	U	77.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1324.0	1325.0	1.0	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1325.0	1325.0	U	60.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1332.0	1334.5	6.5				
	610	SGMR	8	S	1504.0	1504.0	U	58.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	1927.0	1927.0	1.0	25.0			0
	245	PALE	8	S	1927.0	1927.0	1.0	92.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1927.0	1927.0	U	74.0			QL=4 ST=2 TYP=3
	6700	CUBA	20	GRF	1948.0	1958.0	19.0	7.0	3.0		00L
	200	HIRA	8	S	2257.0	2259.0	3.0	15.0			0
24	245	LEAR	43	NS	0433.0	0434.0	1167.0	52.0			QL=4 ST=1 TYP=1
	204	IZMI	44	NS	0500.0E		420.0D		20.0		
	127	TORN	44	NS	0630.0E		510.0D		20.0		V=2

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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	245	SGMR	43	NS	1810.0	1814.0	8.0	210.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1810.0	1814.0	350.0	210.0			QL=4 ST=1 TYP=1
	245	SGMR	43	NS	2029.0	2104.0	160.0	160.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2029.0	2105.0	183.0	210.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2029.0	2029.0	211.0	83.0			QL=4 ST=1 TYP=1
	245	SGMR	43	NS	2029.0	2057.0	211.0	80.0			QL=4 ST=1 TYP=1
	200	HIRA	8	S	0045.0	0046.0	3.0	25.0			0
	245	LEAR	8	S	0133.0	0134.0	2.0	75.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0228.0	0228.0	1.0	98.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0229.0	0229.0	1.0	90.0			0
	2840	PEKG	3	S	0311.0E	0313.9	9.0U	114.6			
	2800	HIRA	8	S	0313.0	0314.0	3.0	90.0			0
	500	HIRA	47	GB	0313.0	0313.0	3.0	510.0			0
	200	HIRA	8	S	0313.0	0313.0	4.0	380.0			0
	245	LEAR	49	GB	0313.0	0313.0	3.0	510.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	0313.0	0313.0	1.0	230.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0313.0	0313.0	1.0	430.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0313.0	0313.0	2.0	110.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0313.0	0313.0	1.0	110.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0313.0	0313.0	1.0	170.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0313.0	0313.0	1.0	230.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0313.0	0313.0	1.0	200.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	0313.0	0313.0	1.0	750.0			QL=4 ST=2 TYP=6
	610	PALE	8	S	0313.0	0313.0	1.0	480.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0313.0	0313.0	2.0	130.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0313.0	0313.0	1.0	73.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0313.0	0313.0	1247.0	510.0			QL=4 ST=1 TYP=6
	410	LEAR	4	S/F	0313.0	0313.0	1247.0	230.0			QL=4 ST=1 TYP=3
	610	LEAR	4	S/F	0313.0	0313.0	1247.0	430.0			QL=4 ST=1 TYP=3
	1415	LEAR	4	S/F	0313.0	0313.0	1247.0	110.0			QL=4 ST=1 TYP=3
	2695	LEAR	4	S/F	0313.0	0313.0	1247.0	110.0			QL=4 ST=1 TYP=3
	4995	LEAR	4	S/F	0313.0	0313.0	1247.0	170.0			QL=4 ST=1 TYP=3
	8800	LEAR	4	S/F	0313.0	0313.0	1247.0	230.0			QL=4 ST=1 TYP=3
	15400	LEAR	4	S/F	0313.0	0313.0	1247.0	200.0			QL=4 ST=1 TYP=3
	245	PALE	49	GB	0313.0	0313.0	1247.0	750.0			QL=4 ST=1 TYP=6
	610	PALE	4	S/F	0313.0	0313.0	1247.0	480.0			QL=4 ST=1 TYP=3
	1415	PALE	4	S/F	0313.0	0313.0	1247.0	130.0			QL=4 ST=1 TYP=3
	2695	PALE	4	S/F	0313.0	0313.0	1247.0	73.0			QL=4 ST=1 TYP=3
	2804	VORO	3	S	0337.5	0340.8	5.2	11.4			
	245	LEAR	4	S/F	0446.0	0448.0	3.0	190.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0446.0	0448.0	3.0	450.0			QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0446.0	0451.1	16.0	58.3			
	610	LEAR	4	S/F	0447.0	0448.0	3.0	120.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0447.0	0449.0	6.0	61.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0447.0	0449.0	6.0	23.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0447.0	0451.0	6.0	35.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0447.0	0451.0	4.0	19.0			QL=4 ST=2 TYP=3
	500	HIRA	47	GB	0448.0	0448.0	2.0	790.0			MR
	200	HIRA	8	S	0448.0	0450.0	2.0	15.0			WR
	610	LEAR	8	S	0521.0	0522.0	2.0	110.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0530.0	0531.0	2.0	90.0			0
	245	LEAR	8	S	0530.0	0531.0	1.0	56.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0530.0	0531.0	1.0	56.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	0530.2	0531.0	16.0	211.0			
	2840	PEKG	45	C	0630.0	0633.3	6.0	20.2			
	410	LEAR	4	S/F	0632.0	0633.0	4.0	110.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0632.0	0633.0	4.0	91.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0632.0	0633.0	4.0	56.0			QL=4 ST=2 TYP=3
	600	GORK	46	C	0632.4	0633.4	4.1	220.0			
	600	GORK	46	C	0632.4	0633.9		210.0			
	2950	GORK	46	C	0632.5	0633.9		15.0			
	204	IZMI	42	SER	0632.6	0632.7	3.6	119.0			
	900	GORK	46	C	0632.7	0634.0		94.0			
	900	GORK	46	C	0632.7	0633.2	3.7	16.0			
	3000	IZMI	7	C	0632.8	0633.9	3.3	24.0	10.0		
	2950	GORK	46	C	0632.9	0633.2	1.7	15.0			
	500	HIRA	7	C	0633.0	0633.0	3.0	160.0			0
	245	LEAR	8	S	0633.0	0633.0	1.0	92.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0633.0	0633.0	U	98.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
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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	410	SVTO	8	S	0633.0	0633.0	U	110.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0633.0	0633.0	1.0	93.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0633.0	0633.0	1.0	55.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0635.0	0635.0	1.0	82.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0635.0	0635.0	1.0	63.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0635.0	0635.0	1.0	23.0			QL=4 ST=2 TYP=3
	9100	GORK	2	S/F	0635.5	0636.2	2.0	9.0			
	2950	GORK	1	S	0635.5	0635.8	0.9	2.7			
	2840	PEKG	1	S	0726.0	0729.0	8.0	8.1			
	600	GORK	46	C	0727.6	0729.0	2.2	92.0			
	900	GORK	46	C	0727.6	0729.1	2.4	70.0			
	204	IZMI	42	SER	0727.6	0728.1	2.5	80.0			
	600	GORK	46	C	0727.6	0729.3		40.0			
	33	UPIC	42	SER	0728.0		503.0				
	500	HIRA	8	S	0728.0	0729.0	2.0	25.0			0
	200	HIRA	8	S	0728.0	0729.0	1.0	20.0			0
	245	LEAR	8	S	0728.0	0728.0	1.0	220.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0728.0	0728.0	1.0	140.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0728.0	0729.0	1.0	77.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0728.0	0729.0	1.0	63.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0728.0	0729.0	1.0	110.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0728.0	0728.0	1.0	270.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0728.0	0729.0	1.0	92.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0728.0	0729.0	1.0	63.0			QL=4 ST=2 TYP=3
	2950	GORK	1	S	0728.7	0729.1	0.7	5.4			
	204	IZMI	7	C	0813.9	0814.0	0.3	21.0			
	200	HIRA	8	S	0814.0	0814.0	1.0	20.0			MR
	204	IZMI	42	SER	0823.9	0824.8	1.7	112.0			
	204	IZMI	46	C	0908.2	0908.3	0.4	99.0			
	2840	PEKG	1	S	1035.0	1038.8	7.0	9.4			
	204	IZMI	45	C	1129.1	1129.2	0.2	103.0			
	204	IZMI	45	C	1152.1	1152.2	0.2	113.0			
	245	SGMR	8	S	1221.0	1221.0	1.0	200.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1221.0	1221.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1221.0	1221.0	1.0	150.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1221.0	1221.0	U	150.0			QL=2 ST=2 TYP=3
	245	SGMR	49	GB	1313.0	1313.0	1.0	1000.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	1313.0	1313.0	2.0	940.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1424.0	1424.0	1.0	620.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	1424.0	1424.0	1.0	620.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	1424.0	1424.0	U	70.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1430.0	1430.0	2.0	120.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	1430.0	1430.0	1.0	130.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1518.0	1538.0	68.0	12.0			
	245	SGMR	8	S	1612.0	1612.0	U	55.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1612.0	1612.0	U	53.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1639.0	1639.0	U	55.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1639.0	1639.0	U	60.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1702.0	1702.0	U	31.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1702.0	1702.0	2.0	71.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1712.0	1712.0	1.0	120.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	1712.0	1712.0	1.0	71.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1716.0	1716.0	U	72.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1716.0	1716.0	U	59.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	1716.0	1716.0	U	51.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1752.0	1753.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1752.0	1753.0	1.0	89.0			QL=4 ST=2 TYP=8
	245	PALE	48	C	1810.0	1814.0	5.0	330.0			QL=4 ST=3 TYP=8
	245	PALE	48	C	1810.0	1814.0	5.0	330.0			QL=4 ST=2 TYP=8
	2800	PENT	1	S	1901.0	1903.0	4.0	6.0			
	245	PALE	4	S/F	1903.0	1904.0	3.0	51.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	1903.0	1906.0	3.0	120.0			QL=4 ST=2 TYP=3
	610	PALE	4	S/F	1903.0	1903.0	5.0	36.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2020.0	2020.0	U	65.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	2047.0	2050.0	6.0	4.0			
	2804	VORO	32	ABS	2305.0	2415.0	170.0	22.8			
25	127	TORN	44	NS	0630.0E		510.0D		10.0		V=1,DISTURBED
	280	CUBA	44	NS	1330.0E		430.0D		16.0		

SOLAR RADIO EMISSION
Outstanding Occurrences

JUNE 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
25	235	CUBA	44	NS	1330.0E		430.0D		6.0		
	245	LEAR	8	S	0316.0	0316.0	U	63.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0516.0	0518.6	5.0	10.8			
	9100	GORK	1	S	0518.3	0518.5	0.4	7.8			
	2950	GORK	1	S	0518.3	0518.6	1.4	9.5			
	3000	IZMI	5	S	0518.3	0518.6	0.5	16.0	8.0		
	204	IZMI	42	SER	0529.4	0529.5	0.6	30.0			
	204	IZMI	42	SER	0543.4	0545.1	3.2	148.0			
	200	HIRA	8	S	0545.0	0545.0	1.0	40.0			0
	204	IZMI	45	C	0545.1	0545.2	0.1	148.0			
	410	SVTO	8	S	0611.0	0611.0	1.0	67.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0815.5	0815.5	0.1	19.0			
	245	SVTO	8	S	0830.0	0830.0	1.0	160.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	0854.5	0857.5	8.0				
	245	LEAR	8	S	0857.0	0858.0	1.0	120.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0857.0	0857.0	1.0	32.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0857.0	0858.0	1.0	97.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0857.0	0857.0	1.0	30.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1041.0	1041.0	U	86.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1041.4	1041.5	0.3	69.0			
	610	SGMR	8	S	1230.0	1230.0	U	160.0			QL=4 ST=3 TYP=3
	610	SGMR	8	S	1230.0	1230.0	U	160.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1230.0	1230.0	U	130.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	1652.0	1652.0	U	73.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1652.0	1652.0	U	56.0			QL=4 ST=2 TYP=3
26	127	TORN	44	NS	0810.0E		410.0D		30.0		V=0,DISTURBED
	280	CUBA	44	NS	1330.0E		490.0D		15.0		
	235	CUBA	44	NS	1330.0E		490.0D		5.0		
	200	HIRA	8	S	0307.0	0307.0	1.0	40.0			0
	2840	PEKG	1	S	0517.0	0520.0	5.0	5.3			
	204	IZMI	7	C	0537.8	0538.0	0.3	102.0			
	245	SVTO	8	S	0621.0	0622.0	1.0	93.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0621.7	0621.9	0.5	175.0			
	200	HIRA	8	S	0622.0	0622.0	1.0	70.0			0
	9500	CUBA	20	GRF	1316.0	1316.0	158.0	19.0	9.0		
	6700	CUBA	20	GRF	1317.0	1317.0	157.0	28.0	14.0		OOL
	33	UPIC	45	C	1527.5	1529.5	3.0				
	410	SGMR	8	S	1608.0	1608.0	U	31.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1609.0	1609.0	U	130.0			QL=4 ST=2 TYP=3
27	127	TORN	44	NS	0800.0E		330.0D		30.0		V=0
	280	CUBA	44	NS	1300.0E		240.0D		16.0		
	235	CUBA	44	NS	1300.0E		240.0D		5.0		
	245	LEAR	4	S/F	0112.0	0113.0	6.0	150.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0113.0	0114.0	1.0	160.0			QL=2 ST=2 TYP=3
	200	HIRA	7	C	0115.0	0116.0	4.0	275.0			0
	245	PALE	8	S	0115.0	0117.0	2.0	440.0			QL=2 ST=2 TYP=3
	200	HIRA	8	S	0741.0	0741.0	1.0	15.0			0
	245	SGMR	8	S	1238.0	1238.0	1.0	290.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1626.0	1626.0	U	51.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1957.0	1957.0	U	140.0			QL=4 ST=4 TYP=3
	2695	SGMR	8	S	1957.0	1957.0	U	140.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2105.0	2105.0	1.0	30.0			0
	2840	PEKG	5	S	2244.0	2247.7	6.0	22.1			
	2804	VORO	1	S	2246.4	2247.5	1.5	14.4			
	200	HIRA	8	S	2252.0	2252.0	1.0	10.0			0
28	127	TORN	44	NS	0630.0E		450.0D		30.0		V=0
	280	CUBA	44	NS	1340.0E		320.0D		15.0		
	235	CUBA	44	NS	1340.0E		320.0D		5.0		
	200	HIRA	8	S	0323.0	0325.0	3.0	15.0			WL
	245	SVTO	8	S	0454.0	0455.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0945.0	0945.0	1.0	140.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1038.4	1038.8	0.5	18.0			
29	127	TORN	44	NS	0630.0E		510.0D		5.0		V=0
	280	CUBA	44	NS	1330.0E		390.0D		14.0		
	280	CUBA	44	NS	1330.0E		390.0D		5.0		

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

JUNE 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
30	127	TORN	44 NS	0700.0E		440.0D		40.0		V=0
	280	CUBA	44 NS	1300.0E		360.0D		14.0		
	280	CUBA	44 NS	1300.0E		360.0D		4.0		

Reports are received routinely from the following observatories:

BERN = Berne	HUMN = Humain	ONDR = Ondrejov	SVTO = San Vito
CRIM = Crimea	IZMI = IZMIRAN	PEKG = Peking	TORN = Torun
CUBA = Havana	KISV = Kislovodsk	PALE = Palehua	TRST = Trieste
GORK = Gorky	KRAK = Krakow	PENT = Penticton	TYKW = Toyokawa
HIRA = Hiraiso	LEAR = Learmonth	POTS = Potsdam	UPIC = Upice
HUAN = Huancayo	NOBE = Nobeyama	SGMR = Sagamore Hill	

Explanation of Type Code:

1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm in Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 3F	28 Precusor	41 Group of Bursts	47 Great Burst
6 Minor	23 Simple 3AF	29 Post Burst Increase	42 Series of Bursts	48 Major

1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F
3A Simple 2A	4O Rise Only	16A Fall A	27AF Rise and Fall AF
21A Simple 3A GRF	4OF Rise Only F	26O Fall Only	31A Post Burst Decrease A
2A Simple 1AF	4P Post Rise	26F Fall F	32A Absorption A

RSTN Site Information: Beginning in April 1986, the RSTN sites LEAR, PALE, SGMR, and SVTO fixed frequency solar radio data are periodically adjusted to several world standard stations. These world standard stations include: Kislovodsk, USSR 15,500 MHz; Penticton, Canada 2800 MHz; and Hiraiso, Japan 500 and 200 MHz.