SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 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	245	SVTO	43	NS	0453.0	1443.0	718.0	240.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		390.0D		70.0		
	127	TORN	44	NS	0630.0E		510.0D		190.0		V=1
	245	SGMR	43	NS	1102.0	2129.0	686.0	260.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1300.0E		530.0D		35.0		
	280	CUBA	44	NS	1300.0E		530.0D		38.0		
	410	SGMR	43	NS	1454.0	1457.0	27.0	280.0			QL=4 ST=2 TYP=1
	410	SVTO	43	NS	1515.0	1527.0	42.0	130.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1642.0	2313.0	556.0	360.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2247.0	2303.0U	186.0	330.0			QL=2 ST=3 TYP=1
	9100	GORK	46	C	0512.8	0521.5		155.0			
	9100	GORK	46	C	0512.8	0514.7	10.1	29.0			
	2950	GORK	46	C	0515.9	0517.1	14.8	20.0			
	2950	GORK	46	C	0515.9	0524.7		70.0			
	8800	LEAR	46	C	0516.0	0517.0	2.0	45.0			QL=2 ST=2 TYP=8
	15400	LEAR	46	C	0516.0	0517.0	2.0	43.0			QL=2 ST=2 TYP=8
	4995	LEAR	48	C	0516.0	0524.0	19.0	170.0			QL=2 ST=2 TYP=8
	900	GORK	46	C	0517.4	0524.3		18.0			
	900	GORK	46	C	0517.4	0519.4	10.8	60.0			
	900	GORK	46	C	0517.4	0522.9		17.0			
	15400	SVTO	4	S/F	0520.0	0524.0	9.0	130.0			QL=4 ST=2 TYP=3
	9100	GORK	29	PBI	0522.9	0522.9	11.7	48.0			
	2800	HIRA	3	S	0523.0	0525.0	8.0	50.0			0
	500	HIRA	7	C	0523.0	0523.0	4.0	20.0			0
	2695	LEAR	48	C	0523.0	0524.0	4.0	73.0			QL=2 ST=2 TYP=8
	410	LEAR	8	S	0523.0	0523.0	U	150.0			QL=2 ST=2 TYP=3
	8800	SVTO	4	S/F	0523.0	0524.0	3.0	150.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0524.0	0524.0	1.0	50.0			0
	2695	SVTO	8	S	0524.0	0524.0	2.0	58.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0524.0	0524.0	2.0	120.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0633.0	0633.0	1.0	20.0			0
	200	HIRA	8	S	0633.0	0633.0	1.0	50.0			MR
	204	IZMI	42	SER	0633.2	0633.2	0.4	128.0			
	3000	IZMI	7	C	0729.1	0730.6	2.4	25.0	9.0		
	2950	GORK	2	S/F	0729.7	0730.5	2.0	19.0			
	9100	GORK	2	S/F	0730.2	0730.5	1.1	12.0			
	9100	GORK	1	S	0858.9	0859.2	1.4	10.0			
	204	IZMI	25	R	1034.0		178.0D		90.0		
	3000	IZMI	45	C	1052.4	1138.3	84.5	1021.0	199.0		
	4995	SVTO	48	C	1055.0	1135.0	77.0	2900.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	1058.0	1138.0	72.0	1200.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	1058.0	1135.0	73.0	2800.0			QL=4 ST=2 TYP=8
	15400	SVTO	48	C	1059.0	1135.0	71.0	1600.0			QL=4 ST=2 TYP=8
	33	UPIC	27	RF	1106.0	1132.5	91.0				
	1415	SVTO	4	S/F	1117.0	1118.0	763.0	54.0			QL=4 ST=1 TYP=3
	4995	SGMR	48	C	1118.0	1135.0	50.0	3000.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1118.0	1135.0	50.0	3300.0			QL=4 ST=2 TYP=8
	2695	SGMR	49	GB	1130.0	1138.0	38.0	1100.0			QL=4 ST=2 TYP=6
	15400	SGMR	49	GB	1130.0	1135.0	38.0	2100.0			QL=4 ST=2 TYP=6
	1415	SGMR	20	GRF	1131.0	1138.0	37.0	300.0			QL=4 ST=2 TYP=2
	1415	SVTO	20	GRF	1131.0	1138.0	33.0	320.0			QL=4 ST=2 TYP=2
	9500	CUBA	20	GRF	1258.0E	1258.0	46.0D	28.0	14.0		
	6700	CUBA	20	GRF	1303.0E		34.0D	22.0	10.0		00RSUNRISE
	9500	CUBA	21	GRF	1442.0	1458.0	36.0	14.0	7.0		
	6700	CUBA	20	GRF	1443.0	1545.0	85.0	11.0	5.0		4R
	9500	CUBA	1	S	1443.2	1444.2	2.2	7.0	3.0		
	410	SVTO	48	C	1454.0	1457.0	12.0	790.0			QL=2 ST=2 TYP=8
	6700	CUBA	20	GRF	1651.0	1653.0	15.0	12.0	6.0		2R
	410	SGMR	8	S	1706.0	1707.0	2.0	120.0			QL=4 ST=2 TYP=3
	6700	CUBA	21	GRF	1733.0	1738.0	26.0	28.0	14.0		5R
	9500	CUBA	21	GRF	1733.0	2008.0	164.0	63.0	31.0		
	6700	CUBA	2	S/F	1742.8	1743.2	1.4	17.0	8.0		00R
	9500	CUBA	1	S	1742.8	1743.2	1.4	14.0	7.0		
	6700	CUBA	2	S/F	1747.2	1748.8	6.3	33.0	16.0		4R
	2800	PENT	8	S	1800.0	1802.0	4.0	9.0			
	15400	PALE	4	S/F	1801.0	1802.0	9.0	61.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1818.0	1818.0	1.0	58.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1900.2	1902.0	2.8	31.0	15.0		00R
	15400	SGMR	4	S/F	1901.0	1901.0	3.0	98.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 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	9500	CUBA	1	S	1901.0	1901.8	2.3	28.0	14.0		
	410	SGMR	8	S	1903.0	1904.0	1.0	97.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1908.0	1909.0	2.0	110.0			QL=4 ST=2 TYP=3
	6700	CUBA	21	GRF	1930.0	2009.0	175.0D	83.0	41.0		8L SUNSET
	8800	SGMR	4	S/F	1946.0	1948.0	10.0	83.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	1947.0	1947.0	6.0	94.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1947.0	1948.0	9.0	56.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1947.0	1947.0	9.0	80.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1947.1	1948.8	6.7	27.0	13.0		
	2800	PENT	29	PBI	1959.0	2001.0	5.0	23.0			
	15400	PALE	49	GB	2000.0	2002.0	17.0	530.0			QL=4 ST=2 TYP=6
	4995	SGMR	4	S/F	2000.0	2002.0	29.0	93.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2000.0	2002.0	29.0	380.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	2000.0	2002.0	29.0	460.0			QL=4 ST=2 TYP=3
	6700	CUBA	4	S/F	2000.0	2002.2	8.5	183.0	91.0		4L
	9500	CUBA	4	S/F	2000.2	2002.1	7.8	214.0	107.0		
	8800	PALE	8	S	2001.0	2002.0	2.0	170.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	2028.0	2028.0	1.0	220.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2055.0	2055.0	U	66.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2105.0	2106.0	2.0	77.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2110.0	2110.0	2.0	56.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	2157.0	2159.0	5.0	8.0			
	410	SGMR	8	S	2210.0	2210.0	1.0	160.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2259.0	2300.0	1.0	75.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2301.0	2303.0	2.0	650.0			QL=4 ST=2 TYP=6
02	204	IZMI	44	NS	0600.0E		395.0D		30.0		
	127	TORN	44	NS	0730.0E		450.0D		60.0		V=1
	245	SVTO	43	NS	1234.0	1351.0	185.0	130.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1251.0	1355.0	171.0	130.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1300.0E		300.0D		19.0		
	280	CUBA	44	NS	1300.0E		300.0D		30.0		
	410	SGMR	43	NS	1548.0	1550.0	3.0	110.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1855.0	1902.0	305.0	61.0			QL=4 ST=1 TYP=1
	245	SGMR	43	NS	1900.0	2146.0	227.0	140.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1955.0	2100.0	277.0	110.0			QL=4 ST=2 TYP=1
	410	PALE	43	NS	2011.0	2050.0	185.0	100.0			QL=4 ST=2 TYP=1
	410	SGMR	43	NS	2012.0	2050.0	80.0	85.0			QL=4 ST=2 TYP=1
	2800	PENT	41	F	0011.0	0018.0	31.0	213.0			
	8800	LEAR	49	GB	0015.0	0018.0	14.0	860.0			QL=4 ST=2 TYP=6
	2800	HIRA	3	S	0016.0	0019.0	8.0	185.0			0
	15400	LEAR	49	GB	0016.0	0017.0	9.0	940.0			QL=4 ST=2 TYP=6
	2695	LEAR	4	S/F	0016.0	0018.0	8.0	230.0			QL=2 ST=2 TYP=3
	8800	PALE	49	GB	0016.0	0019.0	5.0	800.0			QL=4 ST=2 TYP=6
	15400	PALE	49	GB	0016.0	0017.0	5.0	970.0			QL=4 ST=2 TYP=6
	4995	PALE	4	S/F	0016.0	0019.0	5.0	500.0			QL=4 ST=2 TYP=3
	4995	LEAR	49	GB	0016.0	0019.0	13.0	520.0			QL=2 ST=2 TYP=6
	1415	LEAR	4	S/F	0017.0	0018.0	4.0	63.0			QL=2 ST=2 TYP=3
	2695	PALE	4	S/F	0017.0	0019.0	4.0	190.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0018.0	0018.0	2.0	105.0			0
	1415	PALE	8	S	0018.0	0018.0	2.0	79.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0031.0	0033.0	2.0	26.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0033.0	0035.0	2.0	53.0			QL=2 ST=2 TYP=3
	4995	LEAR	4	S/F	0033.0	0034.0	3.0	93.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	0033.0	0034.0	4.0	110.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0034.0	0034.0	1.0	94.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0034.0	0034.0	1.0	97.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0130.0	0130.0	1.0	20.0			WL
	245	LEAR	8	S	0501.0	0501.0	U	180.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0501.0	0501.0	U	190.0			QL=2 ST=2 TYP=3
	9100	GORK	3	S	0506.7	0507.8	4.5	100.0			
	8800	LEAR	4	S/F	0507.0	0507.0	3.0	96.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0507.0	0507.0	3.0	92.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0507.0	0507.0	3.0	91.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0507.0	0507.0	3.0	95.0			QL=2 ST=2 TYP=3
	900	GORK	8	S	0507.2	0507.3	0.2	14.0			
	8800	SVTO	20	GRF	0527.0	0533.0	12.0	69.0			QL=4 ST=2 TYP=2
	15400	SVTO	20	GRF	0528.0	0533.0	13.0	52.0			QL=4 ST=2 TYP=2
	9100	GORK	4	S/F	0528.6	0533.8	9.4	40.0			

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

APRIL 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
02	8800	LEAR	4	S/F	0529.0	0533.0	8.0	60.0			QL=4 ST=2 TYP=3
	4995	SVTO	20	GRF	0529.0	0534.0	9.0	66.0			QL=4 ST=2 TYP=2
	4995	LEAR	4	S/F	0529.0	0533.0	14.0	65.0			QL=2 ST=2 TYP=3
	15400	LEAR	4	S/F	0529.0	0533.0	14.0	49.0			QL=4 ST=2 TYP=3
	2950	GORK	4	S/F	0529.2	0534.0	7.5	28.0			
	2695	LEAR	4	S/F	0531.0	0533.0	4.0	41.0			QL=2 ST=2 TYP=3
	2695	SVTO	4	S/F	0531.0	0533.0	4.0	42.0			QL=4 ST=2 TYP=3
	900	GORK	46	C	0532.7	0533.2	1.9	16.0			
	900	GORK	46	C	0532.7	0534.3		3.4			
	1415	LEAR	8	S	0533.0	0533.0	1.0	150.0			QL=2 ST=2 TYP=3
	1415	SVTO	8	S	0533.0	0533.0	1.0	180.0			QL=4 ST=2 TYP=3
	2950	GORK	2	S/F	0624.0	0627.1	6.0	8.0			
	2950	GORK	28	PRE	0632.4	0643.4	14.3	20.0			
	9100	GORK	46	C	0635.8	0647.0		36.0			
	9100	GORK	46	C	0635.8	0636.5	16.4	110.0			
	8800	LEAR	8	S	0636.0	0636.0	1.0	100.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0636.0	0636.0	1.0	90.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0636.0	0636.0	1.0	110.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0636.0	0636.0	1.0	100.0			QL=4 ST=2 TYP=3
	3000	IZMI	7	C	0639.5	0647.4	10.7	59.0	24.4		
	2695	LEAR	8	S	0646.0	0647.0	2.0	48.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0646.0	0647.0	1.0	33.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0646.0	0647.0	3.0	75.0			QL=2 ST=2 TYP=3
	1415	SVTO	8	S	0646.0	0647.0	1.0	28.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0646.0	0647.0	2.0	41.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0646.0	0647.0	2.0	43.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0646.0	0647.0	1.0	25.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0646.0	0647.0	3.0	57.0			QL=4 ST=2 TYP=3
	2950	GORK	3	S	0646.7	0647.4	5.8	42.0			
	9100	GORK	1	S	0711.2	0711.6	1.8	9.7			
	9100	GORK	1	S	0727.7	0728.5	1.4	11.0			
	2950	GORK	1	S	0740.2	0742.0	3.3	9.0			
	200	HIRA	8	S	0741.0	0742.0	1.0	30.0			WR
	204	IZMI	7	C	0741.5	0741.5	0.1	84.0			
	9100	GORK	1	S	0800.6	0801.0	2.0	10.0			
	9100	GORK	4	S/F	0821.8	0822.0	0.3	28.0			
	245	LEAR	4	S/F	0822.0	0824.0	3.0	190.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0824.0	0824.0	1.0	300.0			QL=4 ST=2 TYP=3
	9100	GORK	1	S	0851.4	0852.3	1.5	8.0			
	204	IZMI	7	C	0911.9	0911.9	0.1	37.0			
	204	IZMI	25	R	0919.0		202.0D		50.0		
	9100	GORK	22	GRF	0920.4	0926.2	16.2	19.0			
	9100	GORK	22	GRF	0920.4	0930.7		22.0			
	245	LEAR	4	S/F	0923.0	0927.0	4.0	140.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0926.0	0927.0	1.0	170.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0944.6	0946.2	3.0	90.0			
	9100	GORK	1	S	0947.8	0948.2	0.8	21.0			
	8800	SVTO	8	S	0959.0	0959.0	1.0	32.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0959.0	0959.0	1.0	110.0			QL=4 ST=2 TYP=3
	9100	GORK	3	S	0959.0	0959.7	2.4	54.0			
	8800	SVTO	49	GB	1005.0	1007.0	14.0	1000.0			QL=4 ST=2 TYP=6
	15400	SVTO	49	GB	1005.0	1007.0	19.0	1200.0			QL=4 ST=2 TYP=6
	9100	GORK	46	C	1005.4	1012.1		220.0			
	9100	GORK	46	C	1005.4	1007.5	12.6	1100.0			
	9100	GORK	46	C	1005.4	1015.7		125.0			
	2950	GORK	4	S/F	1005.9	1008.0	5.2	165.0			
	3000	IZMI	45	C	1005.9	1007.9	5.5	229.0	70.0		
	15400	LEAR	49	GB	1006.0	1007.0	3.0	590.0			QL=4 ST=2 TYP=6
	4995	SVTO	49	GB	1006.0	1007.0	5.0	690.0			QL=4 ST=2 TYP=6
	33	UPIC	32	ABS	1006.0	1012.0	20.0				
	4995	LEAR	8	S	1007.0	1007.0	2.0	380.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	1007.0	1007.0	2.0	370.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1007.0	1008.0	1.0	110.0			QL=2 ST=2 TYP=3
	2695	SVTO	8	S	1007.0	1008.0	2.0	140.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	1008.0	1008.0	1.0	37.0			QL=2 ST=2 TYP=3
	33	UPIC	45	C	1015.5	1017.0	2.5				
	204	IZMI	42	SER	1015.8	1016.2	0.9	340.0			
	9100	GORK	30	PBI	1018.0	1018.0	19.8	45.0			
	9100	GORK	1	S	1021.2	1021.8	1.1	10.0			

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Outstanding Occurrences

APRIL 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
02	3000	IZMI	46	C	1052.6	1126.9	72.1	795.0	86.0		
	4995	SVTO	48	C	1056.0	1126.0	72.0	630.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	1056.0	1126.0	72.0	1000.0			QL=4 ST=2 TYP=8
	1415	SVTO	20	GRF	1059.0	1110.0	61.0	130.0			QL=4 ST=2 TYP=2
	33	UPIC	47	GB	1059.0	1100.0	115.5				
	127	TORN	48	C	1059.0	1100.5	10.3	200.0	50.0		
	204	IZMI	42	SER	1059.4	1107.8	14.8	186.0			
	2695	SVTO	48	C	1100.0	1126.0	61.0	670.0			QL=4 ST=2 TYP=8
	410	SVTO	48	C	1102.0	1110.0	33.0	620.0			QL=4 ST=2 TYP=8
	15400	SVTO	48	C	1102.0	1126.0	87.0	710.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1103.0	1126.0	61.0	990.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	1103.0	1126.0	61.0	660.0			QL=4 ST=2 TYP=8
	1415	SGMR	20	GRF	1104.0	1110.0	11.0	68.0			QL=4 ST=2 TYP=2
	2695	SGMR	48	C	1104.0	1126.0	60.0	630.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1104.0	1126.0	60.0	600.0			QL=4 ST=2 TYP=8
	410	SGMR	4	S/F	1105.0	1110.0	59.0	280.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	1106.5	1124.5	60.0	364.0			
	245	SVTO	48	C	1110.0	1125.0	33.0	280.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	1116.0	1125.0	48.0	240.0			QL=4 ST=2 TYP=8
	6700	CUBA	22	GRF	1221.0E	1512.0	262.0D	90.0	45.0		7R SUNRISE
	9500	CUBA	21	GRF	1240.0E	1240.0	206.0D	53.0	26.0		SUNRISE
	245	SGMR	8	S	1248.0	1249.0	1.0	71.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1344.0	1344.0	1.0	210.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1344.0	1344.0	U	150.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1410.0	1412.0	10.0	46.0			QL=4 ST=2 TYP=3
	1415	SVTO	20	GRF	1410.0	1415.0	13.0	77.0			QL=4 ST=2 TYP=2
	1415	SGMR	4	S/F	1411.0	1415.0	9.0	70.0			QL=4 ST=2 TYP=3
	2695	SVTO	46	C	1411.0	1414.0	3.0	42.0			QL=4 ST=2 TYP=8
	410	SVTO	4	S/F	1411.0	1413.0	5.0	46.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1459.0	1513.0	58.0	142.0			
	9500	CUBA	1	S	1837.0	1838.5	9.0	40.0	20.0		
	6700	CUBA	1	S	1837.2	1838.2	3.8	20.0	10.0		4L
	15400	PALE	8	S	1838.0	1838.0	1.0	75.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1838.0	1838.0	1.0	38.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1838.0	1838.0	3.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1856.0	1857.0	2.0	53.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2120.0	2120.0	U	260.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	2128.0	2131.0	1434.0	34.0			QL=4 ST=2 TYP=3
	2800	PENT	47	GB	2130.0	2130.0U	1.0U				
	15400	PALE	48	C	2132.0	2149.0	104.0	14000.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	2133.0	2149.0	41.0	12000.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	2135.0	2147.0	35.0	5500.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	2135.0	2147.0	35.0	7100.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	2135.0	2147.0	106.0	7600.0			QL=4 ST=2 TYP=8
	4995	PALE	48	C	2135.0	2147.0	112.0	5500.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	2139.0	2139.0	U	360.0			QL=4 ST=2 TYP=3
	2695	SGMR	49	GB	2143.0	2148.0	29.0	3600.0			QL=4 ST=2 TYP=6
	1415	SGMR	48	C	2144.0	2148.0	26.0	4200.0			QL=4 ST=2 TYP=8
	1415	PALE	48	C	2144.0	2148.0	99.0	4400.0			QL=4 ST=2 TYP=8
	2695	PALE	48	C	2144.0	2253.0	97.0	10000.0			QL=4 ST=2 TYP=8
	500	HIRA	47	GB	2146.0	2150.0	17.0	510.0			0
	610	PALE	49	GB	2146.0	2150.0	19.0	940.0			QL=4 ST=2 TYP=6
	610	SGMR	49	GB	2146.0	2149.0	19.0	920.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	2146.0	2152.0	28.0	45000.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	2147.0	2149.0	27.0	530.0			QL=4 ST=2 TYP=6
	410	PALE	49	GB	2148.0	2149.0	13.0	710.0			QL=4 ST=2 TYP=6
	200	HIRA	47	GB	2149.0	2152.0	18.0	4460.0			0
	500	HIRA	47	GB	2205.0	2205.0	1.0	985.0			0
	1415	SGMR	4	S/F	2214.0	2217.0	5.0	190.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2216.0	2216.0	3.0	180.0			QL=4 ST=2 TYP=3
	1415	SGMR	20	GRF	2224.0	2229.0	19.0	440.0			QL=2 ST=2 TYP=2
	2695	SGMR	4	S/F	2225.0	2228.0	4.0	410.0			QL=2 ST=2 TYP=3
	610	LEAR	8	S	2248.0	2248.0U	1.0	52.0			QL=2 ST=2 TYP=3
	15400	LEAR	4	S/F	2248.0	2255.0U	7.0	66.0			QL=4 ST=2 TYP=3
	8800	LEAR	20	GRF	2248.0	2256.0U	18.0	260.0			QL=4 ST=2 TYP=2
	1415	LEAR	49	GB	2248.0	2253.0U	26.0	3100.0			QL=2 ST=2 TYP=6
	4995	LEAR	20	GRF	2248.0	2255.0U	33.0	400.0			QL=2 ST=2 TYP=2
	2695	LEAR	49	GB	2248.0	2253.0U	41.0	11000.0			QL=2 ST=2 TYP=6
	2800	PENT	40	F	2335.0	0010.0	45.0	130.0			

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

APRIL 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
02	2695	LEAR	4	S/F	2340.0	2345.0	23.0	84.0			QL=2 ST=2 TYP=3
	1415	LEAR	4	S/F	2345.0	2346.0	3.0	230.0			QL=2 ST=2 TYP=3
	4995	LEAR	4	S/F	2345.0	2350.0	7.0	31.0			QL=2 ST=2 TYP=3
	610	LEAR	8	S	2348.0	2349.0	1.0	25.0			QL=2 ST=2 TYP=3
03	280	CUBA	44	NS	1400.0E		180.0D		16.0		
	235	CUBA	44	NS	1400.0E		390.0D		6.0		
	245	PALE	43	NS	1954.0	2005.0	12.0	120.0			QL=4 ST=2 TYP=1
	2695	LEAR	4	S/F	0003.0	0010.0	17.0	190.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	0006.0	0011.0	7.0	39.0			QL=4 ST=2 TYP=3
	1415	LEAR	20	GRF	0006.0	0012.0	13.0	87.0			QL=2 ST=2 TYP=2
	4995	LEAR	20	GRF	0006.0	0011.0	12.0	43.0			QL=2 ST=2 TYP=2
	1415	PALE	8	S	0008.0	0008.0	1.0	59.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0009.0	0010.0	4.0	150.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0017.0	0017.0	1.0	62.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0017.0	0017.0	U	46.0			QL=4 ST=2 TYP=3
	2695	LEAR	20	GRF	0150.0	0156.0	11.0	74.0			QL=2 ST=2 TYP=2
	1415	PALE	4	S/F	0151.0	0154.0	9.0	190.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0151.0	0154.0	10.0	150.0			QL=2 ST=2 TYP=3
	4995	LEAR	4	S/F	0152.0	0156.0	8.0	65.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	0153.0	0156.0	5.0	36.0			QL=4 ST=2 TYP=3
	2695	PALE	48	C	0153.0	0157.0	6.0	65.0			QL=4 ST=2 TYP=8
	500	HIRA	46	C	0316.0	0340.0	43.0	255.0			0
	200	HIRA	46	C	0317.0	0321.0	31.0	170.0			0
	4995	LEAR	48	C	0317.0	0340.0	113.0	7300.0			QL=2 ST=2 TYP=8
	245	LEAR	48	C	0318.0	0323.0	23.0	370.0			QL=2 ST=2 TYP=8
	610	PALE	49	GB	0318.0	0340.0	72.0	590.0			QL=4 ST=2 TYP=6
	245	PALE	4	S/F	0318.0	0323.0	72.0	470.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	0318.0	0319.0	72.0	97.0			QL=4 ST=2 TYP=3
	8800	LEAR	48	C	0318.0	0340.0	112.0	11000.0			QL=4 ST=2 TYP=8
	610	LEAR	48	C	0318.0	0340.0	1242.0	420.0			QL=2 ST=1 TYP=8
	15400	LEAR	48	C	0318.0	0326.0	1242.0	5400.0			QL=4 ST=1 TYP=8
	15400	LEAR	48	C	0318.0	0329.0	1242.0	7300.0			QL=4 ST=1 TYP=8
	15400	LEAR	48	C	0318.0	0340.0	1242.0	8400.0			QL=4 ST=1 TYP=8
	410	LEAR	4	S/F	0318.0	0318.0	1242.0	37.0			QL=2 ST=1 TYP=3
	610	LEAR	4	S/F	0318.0	0320.0	1242.0	150.0			QL=2 ST=1 TYP=3
	15400	PALE	49	GB	0320.0	0329.0	10.0	6300.0			QL=4 ST=2 TYP=6
	610	LEAR	48	C	0320.0	0340.0	34.0	420.0			QL=2 ST=2 TYP=8
	4995	PALE	49	GB	0320.0	0340.0	70.0	6600.0			QL=4 ST=2 TYP=6
	2695	LEAR	48	C	0320.0	0341.0	110.0	3900.0			QL=2 ST=2 TYP=8
	1415	PALE	49	GB	0321.0	0340.0	69.0	1300.0			QL=4 ST=2 TYP=6
	2695	PALE	49	GB	0321.0	0340.0	69.0	3300.0			QL=4 ST=2 TYP=6
	8800	PALE	49	GB	0321.0	0340.0	69.0	7900.0			QL=4 ST=2 TYP=6
	1415	LEAR	48	C	0321.0	0341.0	87.0	1000.0			QL=2 ST=2 TYP=8
	15400	LEAR	48	C	0321.0	0340.0	87.0	8400.0			QL=4 ST=2 TYP=8
	410	LEAR	4	S/F	0326.0	0327.0	5.0	68.0			QL=2 ST=2 TYP=3
	8800	SVTO	4	S/F	0456.0E	0458.0U	3.0D	73.0			QL=2 ST=2 TYP=3
	4995	SVTO	4	S/F	0458.0E	0459.0U	4.0D	81.0			QL=2 ST=2 TYP=3
	15400	SVTO	4	S/F	0458.0E	0459.0U	5.0D	150.0			QL=2 ST=2 TYP=3
	2695	SVTO	4	S/F	0500.0E	0502.0U	4.0D	63.0			QL=2 ST=2 TYP=3
	1415	SVTO	4	S/F	0504.0E	0505.0U	4.0D	29.0			QL=2 ST=2 TYP=3
	2950	GORK	20	GRF	0603.0	0916.3	283.6D	21.0			
	9100	GORK	4	S/F	0620.0	0620.5	21.3	23.0			
	610	SVTO	8	S	0642.0	0643.0	1.0	290.0			QL=4 ST=2 TYP=3
	9100	GORK	1	S	0652.0	0652.9	1.6	6.5			
	900	GORK	21	GRF	0657.0	0706.0	9.0	8.0			
	9100	GORK	20	GRF	0657.0	0705.0	14.5	16.2			
	3000	IZMI	20	GRF	0657.4	0659.8	14.2	11.0	3.0		
	900	GORK	8	S	0659.7	0659.8	0.2	5.0			
	900	GORK	45	C	0726.0	0739.0		60.0			
	900	GORK	45	C	0726.0	0731.5		18.0			
	900	GORK	45	C	0726.0	0728.6	24.2	13.0			
	3000	IZMI	22	GRF	0734.2	0736.6	11.0	15.0	4.0		
	610	SVTO	8	S	0929.0	0929.0	U	56.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1231.0	1232.0	4.0	58.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1231.0	1232.0	4.0	51.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1232.0	1232.0	U	31.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1232.0	1232.0	U	55.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1232.0	1232.0	U	55.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 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	8800	SGMR	4	S/F	1303.0	1304.0	5.0	58.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1304.0	1304.0	2.0	15.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1641.0	1641.0	2.0	67.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1647.0	1648.0	18.0	75.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1647.6	1648.6	3.4	22.0	11.0		
	8800	SGMR	4	S/F	1648.0	1648.0	17.0	38.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1648.0	1648.5	2.0	11.0	5.0		00L
	2800	PENT	29	PBI	1732.0	1739.0	46.0	16.0			
	6700	CUBA	2	S/F	1738.0	1740.0	4.0	77.0	38.0		3L
	610	PALE	8	S	1738.0	1738.0	1.0	100.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1738.2	1740.0	3.8	63.0	31.0		
	6700	CUBA	1	S	1847.0	1847.8	3.0	17.0	8.0		00L
	235	CUBA	48	C	1945.0	2004.5	32.6	192.0			
	280	CUBA	48	C	1945.0	2006.8	32.6	196.0			
	245	SGMR	4	S/F	1952.0	1955.0	5.0	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2004.0	2005.0	2.0	110.0			QL=4 ST=2 TYP=3
04	245	LEAR	43	NS	0330.0	0416.0	130.0	300.0			QL=2 ST=2 TYP=1
	410	LEAR	43	NS	0330.0	0339.0	130.0	73.0			QL=2 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		10.0		
	127	TORN	44	NS	0850.0E		170.0D		210.0		V=1,DISTURBED
	410	SVTO	43	NS	0909.0	0945.0	891.0	280.0			QL=2 ST=1 TYP=1
	245	LEAR	43	NS	0921.0	0935.0	44.0	130.0			QL=2 ST=2 TYP=1
	235	CUBA	44	NS	1300.0E		180.0D		9.0		
	280	CUBA	44	NS	1300.0E		180.0D		8.0		
	245	SGMR	43	NS	1745.0	1813.0	55.0	73.0			QL=4 ST=2 TYP=1
	410	LEAR	4	S/F	0131.0	0136.0	7.0	180.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0218.0	0219.0	2.0	49.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0218.0	0219.0	2.0	130.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0218.0	0219.0	2.0	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0258.0	0259.0	2.0	63.0			QL=2 ST=2 TYP=3
	410	LEAR	48	C	0329.0	0338.0	14.0	72.0			QL=2 ST=2 TYP=8
	245	LEAR	48	C	0330.0	0338.0	12.0	80.0			QL=2 ST=2 TYP=8
	610	LEAR	20	GRF	0330.0	0340.0	12.0	59.0			QL=2 ST=2 TYP=2
	410	PALE	20	GRF	0330.0	0338.0	13.0	140.0			QL=4 ST=2 TYP=2
	245	PALE	4	S/F	0331.0	0338.0	13.0	160.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0337.0	0338.0	1.0	26.0			QL=2 ST=2 TYP=3
	410	PALE	20	GRF	0344.0	0412.0	43.0	160.0			QL=4 ST=2 TYP=2
	245	PALE	48	C	0345.0	0415.0	47.0	500.0			QL=4 ST=2 TYP=8
	8800	LEAR	8	S	0346.0	0347.0	2.0	18.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0346.0	0347.0	2.0	74.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0523.0	0527.0	4.0	90.0			WL
	200	HIRA	8	S	0523.0	0523.0	3.0	80.0			0
	610	LEAR	8	S	0523.0	0524.0	2.0	120.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0524.0	0524.0	U	24.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0524.0	0524.0	U	87.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0547.0	0548.0	3.0	71.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	0547.0	0548.0	6.0	110.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0547.0	0548.0	3.0	40.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0547.0	0548.0	4.0	70.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0547.0	0548.0	4.0	110.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0547.0	0549.0	4.0	48.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0548.0	0549.0	1.0	27.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0600.0	0600.0	3.0	120.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0700.0	0700.0	U	84.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0700.0	0700.0	1.0	150.0			QL=4 ST=2 TYP=3
	9100	GORK	21	GRF	0743.0	0754.0	46.2	17.0			
	9100	GORK	1	S	0750.6	0751.3	0.9	15.0			
	9100	GORK	4	S/F	0815.4	0815.7	0.5	110.0			
	9100	GORK	8	S	0821.2	0821.4	0.2	40.0			
	204	IZMI	7	C	0842.7	0842.9	0.3	31.0			
	4995	SVTO	8	S	0853.0	0854.0	1.0	35.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0853.0	0854.0	1.0	58.0			QL=4 ST=2 TYP=3
	9100	GORK	3	S	0853.6	0855.2	1.6	55.0			
	900	GORK	49	GB	0900.0	0945.0	63.0	180.0			
	900	GORK	49	GB	0900.0	0954.2		180.0			
	900	GORK	49	GB	0900.0	0959.2U		300.0U			
	204	IZMI	46	C	0908.6	0940.4	115.9	176.0			
	2950	GORK	28	PRE	0912.8	0932.0	19.2	22.0			

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

APRIL 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	3000	IZMI	46	C	0913.1	0956.8	155.4	233.0	45.0		
	4995	SVTO	4	S/F	0915.0	0917.0	3.0	58.0			QL=4 ST=2 TYP=3
	9100	GORK	3	S	0915.8	0917.1	3.1	36.0			
	8800	SVTO	8	S	0916.0	0917.0	1.0	43.0			QL=4 ST=2 TYP=3
	127	TORN	27	RF	0920.0		47.0		710.0		
	245	SVTO	4	S/F	0923.0E	0927.0	98.0D	130.0			QL=2 ST=2 TYP=3
	9100	GORK	49	GB	0924.6	0959.4		300.0			
	9100	GORK	49	GB	0924.6	0943.7	70.4	180.0			
	4995	SVTO	4	S/F	0925.0E	0937.0	96.0D	210.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0925.0E	0925.0	96.0D	57.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0926.0	0927.0	39.0	26.0			QL=2 ST=2 TYP=3
	410	SVTO	48	C	0926.0E	0933.0	95.0D	110.0			QL=2 ST=2 TYP=8
	2695	LEAR	48	C	0932.0	0956.0	33.0	360.0			QL=2 ST=2 TYP=8
	4995	LEAR	48	C	0932.0	0956.0	33.0	370.0			QL=2 ST=2 TYP=8
	2695	SVTO	48	C	0932.0E	0941.0	89.0D	180.0			QL=4 ST=2 TYP=8
	2950	GORK	49	GB	0932.0	0934.2U	63.0	115.0U			
	2950	GORK	49	GB	0932.0	0957.7		1200.0			
	2950	GORK	49	GB	0932.0	1031.9		620.0			
	15400	SVTO	4	S/F	0933.0E	0937.0	88.0D	51.0			QL=4 ST=2 TYP=3
	8800	LEAR	48	C	0936.0	0959.0	29.0	190.0			QL=4 ST=2 TYP=8
	1415	LEAR	4	S/F	0936.0	0939.0	29.0	34.0			QL=2 ST=2 TYP=3
	33	UPIC	27	RF	0940.0	1012.5	76.0				
	15400	LEAR	4	S/F	0941.0	0942.0	24.0	44.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	0942.0E	0942.0	79.0D	150.0			QL=2 ST=2 TYP=3
	410	LEAR	48	C	0956.0	0959.0	9.0	120.0			QL=2 ST=2 TYP=8
	900	GORK	30	PBI	1003.8	1003.8	56.2	150.0			
	900	GORK	46	C	1013.0	1026.0		37.0			
	900	GORK	46	C	1013.0	1016.0	33.7	10.0			
	900	GORK	46	C	1013.0	1029.7		56.0			
	900	GORK	46	C	1013.0	1037.8		9.0			
	9100	GORK	29	PBI	1035.0	1035.0	22.0D	90.0			
	204	IZMI	42	SER	1110.1	1111.4	2.5	141.0			
	204	IZMI	41	F	1123.0	1123.1	0.1	145.0			
	204	IZMI	41	F	1131.4	1131.5	0.6	127.0			
	410	SVTO	4	S/F	1152.0	1154.0	8.0	320.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	1152.0	1154.0	8.0	220.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1153.0	1154.0	2.0	370.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1154.0	1154.0	1.0	240.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1154.0	1154.0	1.0	44.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1154.0	1154.0	6.0	48.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1212.0	1213.0	3.0	61.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1213.0	1213.0	2.0	15.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1215.0	1217.0	8.0	88.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1215.0	1217.0	4.0	65.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1216.0	1217.0	2.0	56.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1216.0	1218.0	3.0	15.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1217.0	1217.0	1.0	50.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1217.0	1218.0	3.0	20.0			QL=4 ST=2 TYP=3
	9500	CUBA	20	GRF	1246.0E	1246.0	116.0D	18.0	9.0		
	6700	CUBA	1	S	1415.6	1417.5	4.0	9.0	4.0		00L
	245	SGMR	4	S/F	1523.0	1524.0	5.0	74.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1614.0	1621.0	18.0U	3.0			
	610	SGMR	4	S/F	1928.0	1929.0	5.0	59.0			QL=4 ST=2 TYP=3
05	245	LEAR	43	NS	0851.0	0919.0	909.0	110.0			QL=2 ST=3 TYP=1
	204	IZMI	43	NS	1007.0		113.0D		10.0		
	280	CUBA	44	NS	1300.0E		320.4D		17.0		
	235	CUBA	44	NS	1300.0E		530.0D		7.0		
	8800	LEAR	8	S	0206.0	0207.0	2.0	54.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0206.0	0207.0	8.0	59.0			QL=2 ST=2 TYP=3
	500	HIRA	8	S	0456.0	0457.0	2.0	10.0			0
	245	LEAR	49	GB	0457.0	0457.0	1.0	520.0			QL=2 ST=2 TYP=6
	4995	LEAR	8	S	0457.0	0457.0	U	41.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0457.0	0457.0U	U	410.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0630.8	0633.5	3.7	19.0			
	410	LEAR	8	S	0731.0	0732.0	2.0	52.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	0731.0	0731.0	2.0	110.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0732.0	0733.0	2.0	20.0			0
	204	IZMI	42	SER	0741.4	0742.7	4.9	122.0			

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

APRIL 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	204	IZMI	42	SER	0750.4	0752.6	2.4	94.0			
	204	IZMI	25	R	0758.0		129.0		30.0		
	245	SVTO	46	C	0820.0	0823.0	4.0	45.0			QL=4 ST=2 TYP=8
	410	SVTO	4	S/F	0820.0	0821.0	3.0	77.0			QL=4 ST=2 TYP=3
	2950	GORK	49	GB	0831.7	0918.2		1500.0			
	2950	GORK	49	GB	0831.7	0839.3	42.1	60.0			
	2950	GORK	49	GB	0831.7	0850.8		77.0U			
	8800	SVTO	8	S	0832.0	0833.0	2.0	53.0			QL=4 ST=3 TYP=3
	15400	SVTO	8	S	0832.0	0833.0	2.0	40.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0832.0	0839.0	8.0	58.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0832.0	0839.0	8.0	53.0			QL=4 ST=2 TYP=3
	9100	GORK	46	C	0832.2	0833.2	2.8	46.0			
	9100	GORK	46	C	0832.2	0833.6		42.0			
	3000	IZMI	46	C	0832.5	0918.2	109.7	1294.0	195.0		
	2695	LEAR	8	S	0833.0	0833.0	1.0	33.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0833.0	0833.0	1.0	29.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0833.0	0833.0	U	42.0			QL=4 ST=2 TYP=3
	900	GORK	23	GRF	0837.0	0855.0		50.0			
	2695	LEAR	4	S/F	0837.0	0839.0	6.0	68.0			QL=2 ST=2 TYP=3
	1415	SVTO	4	S/F	0837.0	0839.0	7.0	36.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0837.0	0839.0	7.0	53.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0837.0	0839.0	3.0	55.0			QL=4 ST=3 TYP=3
	8800	SVTO	4	S/F	0837.0	0839.0	5.0	19.0			QL=4 ST=2 TYP=3
	900	GORK	23	GRF	0837.0	0916.5		80.0			
	900	GORK	23	GRF	0837.0	0850.9	116.0	48.0			
	9100	GORK	2	S/F	0837.3	0839.2	5.5	19.0			
	4995	LEAR	8	S	0838.0	0839.0	2.0	40.0			QL=2 ST=2 TYP=3
	1415	LEAR	4	S/F	0838.0	0839.0	3.0	32.0			QL=2 ST=2 TYP=3
	9100	GORK	49	GB	0845.0	0917.0	45.0	3300.0			
	410	SVTO	4	S/F	0846.0	0847.0	9.0	79.0			QL=4 ST=2 TYP=3
	8800	SVTO	49	GB	0846.0	0917.0	57.0	3200.0			QL=4 ST=2 TYP=6
	2695	LEAR	48	C	0846.0	0918.0	68.0	1200.0			QL=2 ST=2 TYP=8
	4995	LEAR	48	C	0846.0	0916.0	67.0	4200.0			QL=2 ST=2 TYP=8
	4995	SVTO	49	GB	0846.0	0917.0	67.0	5100.0			QL=4 ST=2 TYP=6
	245	SVTO	4	S/F	0847.0	0847.0	33.0	42.0			QL=4 ST=2 TYP=3
	8800	LEAR	48	C	0848.0	0916.0	55.0	4100.0			QL=4 ST=2 TYP=8
	15400	LEAR	48	C	0848.0	0917.0	55.0	1700.0			QL=4 ST=2 TYP=8
	15400	SVTO	49	GB	0848.0	0917.0	55.0	1700.0			QL=4 ST=2 TYP=6
	2695	SVTO	49	GB	0848.0	0918.0	66.0	980.0			QL=4 ST=2 TYP=6
	900	GORK	8	S	0848.6	0848.7	0.2	60.0			
	1415	LEAR	48	C	0849.0	0915.0	55.0	460.0			QL=2 ST=2 TYP=8
	1415	SVTO	49	GB	0849.0	0915.0	55.0	570.0			QL=4 ST=2 TYP=6
	410	LEAR	4	S/F	0850.0	0854.0	5.0	39.0			QL=2 ST=2 TYP=3
	610	LEAR	4	S/F	0850.0	0852.0	5.0	33.0			QL=2 ST=2 TYP=3
	610	SVTO	4	S/F	0850.0	0852.0	5.0	36.0			QL=4 ST=2 TYP=3
	127	TORN	27	RF	0857.0		13.0		20.0		
	127	TORN	4	S/F	0857.8	0858.8	2.5	150.0	70.0		
	204	IZMI	41	F	0912.7	0913.6	2.5	94.0			
	33	UPIC	46	C	0913.5	0915.0	3.5				
	245	LEAR	8	S	0919.0	0919.0	1.0	45.0			QL=2 ST=2 TYP=3
	204	IZMI	46	C	0924.2	0929.7	30.3	114.0			
	9100	GORK	30	PBI	0930.0	0930.0	90.0D	700.0			
	245	SVTO	8	S	0944.0	0944.0	U	75.0			QL=4 ST=2 TYP=3
	2950	GORK	29	PBI	1013.8	1013.8	46.2D	100.0			
	9100	GORK	40	F	1054.1	1054.7	0.7	70.0			
	2800	PENT	47	GB	1628.0		64.0U				
	235	CUBA	49	GB	1629.6	1700.0	84.9	487.0			
	280	CUBA	49	GB	1629.6	1702.2	84.9				
	6700	CUBA	21	GRF	1631.0	2125.0	358.0D	136.0	68.0		13R SUNSET
	245	SGMR	48	C	1635.0E	1705.0	86.0D	1000.0			QL=4 ST=2 TYP=8
	1415	SGMR	48	C	1635.0	1701.0	86.0	1200.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1635.0	1700.0	86.0	2800.0			QL=4 ST=2 TYP=8
	410	SGMR	49	GB	1635.0E	1701.0	87.0D	4000.0			QL=4 ST=2 TYP=6
	8800	SGMR	48	C	1635.0	1700.0	90.0	6600.0			QL=4 ST=2 TYP=8
	15400	SGMR	49	GB	1635.0E	1700.0	90.0D	4600.0			QL=4 ST=2 TYP=6
	9500	CUBA	21	GRF	1635.0	2127.0	355.0D	116.0	58.0		SUNSET
	610	SGMR	48	C	1636.0	1702.0	85.0	2000.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1636.0	1700.0	89.0	5900.0			QL=4 ST=2 TYP=8
	6700	CUBA	47	GB	1636.2	1700.0	78.8	6570.0	3285.0		5R

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 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	9500	CUBA	47	GB	1636.2	1700.0	71.8	3101.0	1550.0		
	4995	PALE	49	GB	1645.0	1700.0	46.0	5300.0			QL=4 ST=2 TYP=6
	1415	PALE	48	C	1646.0	1703.0	71.0	2000.0			QL=4 ST=2 TYP=8
	2695	PALE	48	C	1647.0	1701.0	84.0	2900.0			QL=4 ST=2 TYP=8
	8800	PALE	49	GB	1648.0	1700.0	27.0	2500.0			QL=4 ST=2 TYP=6
	15400	PALE	49	GB	1649.0	1700.0	33.0	4200.0			QL=4 ST=2 TYP=6
	245	PALE	48	C	1649.0	1705.0	52.0	770.0			QL=4 ST=2 TYP=8
	610	PALE	48	C	1649.0	1702.0	61.0	1500.0			QL=4 ST=2 TYP=8
	410	PALE	48	C	1651.0	1701.0	62.0	2200.0			QL=4 ST=2 TYP=8
	6700	CUBA	47	GB	2015.0	2022.0	53.0	518.0	259.0		27R
	9500	CUBA	46	C	2015.0	2022.0	59.0	284.0	142.0		
	610	PALE	48	C	2016.0	2021.0	17.0	96.0			QL=4 ST=2 TYP=8
	610	SGMR	48	C	2016.0	2021.0	40.0	100.0			QL=4 ST=2 TYP=8
	2695	PALE	49	GB	2016.0	2024.0	107.0	700.0			QL=4 ST=2 TYP=6
	2695	SGMR	49	GB	2016.0	2023.0	108.0	660.0			QL=4 ST=2 TYP=6
	4995	SGMR	49	GB	2016.0	2022.0	108.0	690.0			QL=4 ST=2 TYP=6
	1415	PALE	20	GRF	2016.0	2025.0	119.0	480.0			QL=4 ST=2 TYP=2
	1415	SGMR	20	GRF	2016.0	2025.0	111.0	490.0			QL=4 ST=2 TYP=2
	410	SGMR	20	GRF	2017.0	2022.0	33.0	48.0			QL=4 ST=2 TYP=2
	8800	SGMR	20	GRF	2017.0	2022.0	107.0	380.0			QL=4 ST=2 TYP=2
	15400	SGMR	4	S/F	2017.0	2022.0	107.0	230.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	2018.0	2022.0	35.0	350.0			QL=4 ST=2 TYP=3
	15400	PALE	20	GRF	2019.0	2022.0	17.0	120.0			QL=4 ST=2 TYP=2
	8800	PALE	4	S/F	2021.0	2023.0	4.0	66.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2026.0	2026.0	U	42.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	2112.0	2134.0	56.0	110.0			QL=4 ST=3 TYP=3
	610	SGMR	4	S/F	2114.0	2134.0	53.0	110.0			QL=4 ST=3 TYP=3
	2800	PENT	47	GB	2232.0E	2232.0U	1.0U				
	200	HIRA	8	S	2316.0	2316.0	1.0	25.0			0
06	8800	LEAR	43	NS	0059.0	0109.0	149.0	40.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1300.0E		530.0D		11.0		
	280	CUBA	44	NS	1300.0E		530.0D		11.0		
	410	PALE	43	NS	1723.0	1757.0	57.0	310.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1723.0	1759.0	200.0	500.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1738.0	1757.0	170.0	360.0			QL=4 ST=2 TYP=1
	410	SGMR	43	NS	1743.0	1800.0	35.0	370.0			QL=4 ST=2 TYP=1
	610	SGMR	43	NS	1756.0	1758.0	3.0	72.0			QL=4 ST=2 TYP=1
	410	LEAR	43	NS	2249.0	2311.0U	92.0	360.0			QL=2 ST=2 TYP=1
	245	LEAR	43	NS	2249.0	2306.0U	195.0	620.0			QL=2 ST=2 TYP=1
	410	PALE	43	NS	2250.0	2259.0	70.0	910.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2250.0	2250.0	117.0	1000.0			QL=4 ST=2 TYP=1
	610	PALE	43	NS	2306.0	2305.0	54.0	70.0			QL=4 ST=2 TYP=1
	610	LEAR	43	NS	2355.0	2307.0	14.0	130.0			QL=2 ST=2 TYP=1
	4995	LEAR	8	S	0147.0	0147.0	1.0	87.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0147.0	0147.0	1.0	160.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0147.0	0147.0	1.0	290.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	0147.0	0147.0	2.0	320.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0147.0	0147.0	4.0	80.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0147.0	0147.0	4.0	150.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0323.0	0323.0	2.0	95.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0717.2	0718.3	1.3	51.0			
	204	IZMI	7	C	0910.3	0910.4	0.2	11.0			
	6700	CUBA	21	GRF	1709.0	2013.0	261.0	72.0	36.0		5L
	9500	CUBA	21	GRF	1712.0	1734.0	308.0D	41.0	20.0		SUNSET
	235	CUBA	49	GB	1719.0	1935.0U	271.0	6350.0			
	280	CUBA	49	GB	1719.0	1935.0U	271.0	2375.0			
	245	PALE	8	S	1723.0	1723.0	1.0	89.0			QL=4 ST=2 TYP=3
	2800	PENT	40	F	1729.0	1802.0	82.0	16.0			
	245	SGMR	4	S/F	1733.0	1734.0	5.0	150.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1733.0	1733.0	5.0	120.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1734.0	1734.0	4.0	57.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1735.0	1735.0	U	53.0			QL=4 ST=2 TYP=3
	610	SGMR	48	C	1757.0	1802.0	11.0	170.0			QL=4 ST=2 TYP=8
	245	PALE	48	C	1759.0	1803.0	9.0	2600.0			QL=4 ST=2 TYP=8
	610	PALE	48	C	1759.0	1802.0	5.0	150.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	1759.0	1802.0	9.0	2700.0			QL=4 ST=2 TYP=8
	1415	SGMR	4	S/F	1759.0	1759.0	9.0	59.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	1800.0	1802.0	4.0	1100.0			QL=4 ST=2 TYP=6

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 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	SGMR	49	GB	1800.0	1802.0	8.0	980.0			QL=4 ST=2 TYP=6
	6700	CUBA	31	ABS	1828.0	1855.2	44.0		9.0		5L
	9500	CUBA	31	ABS	1859.0	1859.0	47.0	23.0	6.0		
	2800	PENT	47	GB	1909.0		203.0U				
	9500	CUBA	47	GB	1912.0	1919.0	65.4	2522.0	1261.0		
	9500	CUBA	47	GB	1912.0	1935.0	65.4	2064.0	1032.0		
	6700	CUBA	47	GB	1912.0	1919.1	61.5	3675.0	1837.0		4R COMPLEXPOL
	8800	PALE	49	GB	1913.0	1919.0	55.0	3900.0			QL=4 ST=2 TYP=6
	15400	PALE	49	GB	1913.0	1919.0	55.0	7500.0			QL=4 ST=2 TYP=6
	4995	PALE	49	GB	1913.0	1935.0	62.0	3300.0			QL=4 ST=2 TYP=6
	410	PALE	48	C	1913.0	1936.0	75.0	38000.0			QL=4 ST=2 TYP=8
	610	PALE	48	C	1913.0	1932.0	75.0	45000.0			QL=4 ST=2 TYP=8
	1415	PALE	48	C	1913.0	1932.0	70.0	5600.0			QL=4 ST=2 TYP=8
	2695	PALE	49	GB	1913.0	1922.0	71.0	4100.0			QL=4 ST=2 TYP=6
	410	SGMR	48	C	1913.0	1936.0	76.0	61000.0			QL=4 ST=2 TYP=8
	610	SGMR	48	C	1913.0	1931.0	76.0	44000.0			QL=4 ST=2 TYP=8
	1415	SGMR	48	C	1913.0	1932.0	76.0	6000.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1913.0	1922.0	76.0	3300.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1913.0	1935.0	76.0	3500.0			QL=4 ST=2 TYP=8
	8800	SGMR	49	GB	1913.0	1918.0	72.0	3600.0			QL=4 ST=2 TYP=6
	15400	SGMR	49	GB	1913.0	1918.0	76.0	6700.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	1914.0	1915.0	12.0				QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1914.0	1915.0	75.0				QL=4 ST=2 TYP=6
	9500	CUBA	29	PBI	2017.2		72.8	55.0	27.0		
	410	PALE	8	S	2047.0	2047.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	2047.0	2048.0	5.0	210.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	2047.0	2047.0	5.0	100.0			QL=4 ST=2 TYP=3
	410	PALE	48	C	2110.0	2113.0	10.0	360.0			QL=4 ST=2 TYP=8
	245	PALE	4	S/F	2111.0	2112.0	10.0	270.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	2111.0	2112.0	14.0	230.0			QL=4 ST=2 TYP=8
	410	SGMR	48	C	2111.0	2113.0	14.0	340.0			QL=4 ST=2 TYP=8
	610	PALE	4	S/F	2113.0	2115.0	3.0	100.0			QL=4 ST=2 TYP=3
	610	SGMR	48	C	2113.0	2120.0	12.0	310.0			QL=4 ST=2 TYP=8
	610	PALE	4	S/F	2123.0	2125.0	3.0	260.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2125.0	2125.0	1.0	91.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	2125.0	2125.0	4.0	90.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	2125.0	2125.0	4.0	220.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2135.0	2135.0	U	70.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	2142.0	2145.0	11.0	170.0			QL=4 ST=2 TYP=3
	410	SGMR	48	C	2144.0	2147.0	9.0	140.0			QL=4 ST=2 TYP=8
	410	SGMR	48	C	2156.0	2210.0	38.0	27000.0			QL=2 ST=2 TYP=8
	410	PALE	48	C	2156.0	2210.0	46.0	26000.0			QL=4 ST=2 TYP=8
	245	PALE	48	C	2157.0	2213.0	39.0	1100.0			QL=4 ST=2 TYP=8
	610	PALE	48	C	2157.0	2207.0	30.0	3200.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	2157.0	2216.0	37.0	1200.0			QL=2 ST=2 TYP=8
	610	SGMR	48	C	2157.0	2207.0	37.0	2300.0			QL=2 ST=2 TYP=8
	4995	PALE	8	S	2228.0	2228.0	U	63.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2228.0	2228.0	1.0	62.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2241.0	2242.0	2.0	110.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	2242.0	2242.0	1.0	250.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2242.0	2242.0	2.0	77.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2242.0	2242.0	2.0	64.0			QL=4 ST=2 TYP=3
07	204	IZMI	44	NS	0600.0E		360.0D		15.0		
	127	TORN	44	NS	0900.0E		150.0D		7.0		V=2
	245	SVTO	43	NS	0951.0	1041.0	87.0	120.0			QL=4 ST=2 TYP=1
	245	SGMR	44	NS	1037.0E	1053.0U	38.0D	66.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1300.0E		530.0D		9.0		
	280	CUBA	44	NS	1300.0E		530.0D		16.0		
	200	HIRA	8	S	0304.0	0304.0	1.0	30.0			0
	900	GORK	1	S	0551.4	0553.1	3.4	5.0			
	2950	GORK	42	SER	0554.1	0555.4	9.6	7.6			
	2950	GORK	42	SER	0554.1	0602.5		3.8			
	9100	GORK	1	S	0632.8	0633.5	1.5	11.0			
	204	IZMI	25	R	0921.0		119.0		70.0		
	3000	IZMI	20	GRF	0926.9	0937.2	10.3	9.0	5.0		
	3000	IZMI	1	S	1114.3	1114.4	0.2	11.0	4.0		
	204	IZMI	42	SER	1126.0	1126.4	0.8	64.0			
	245	SGMR	8	S	1239.0	1239.0	U	58.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
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APRIL 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	SVTO	8	S	1239.0	1239.0	U	50.0			QL=2 ST=2 TYP=3
08	410	LEAR	43	NS	0405.0	0411.0	1195.0	85.0			QL=2 ST=1 TYP=1
	204	IZMI	43	NS	0600.0		360.0D		20.0		
	127	TORN	43	NS	0820.0		320.0		7.0		V=1
	235	CUBA	44	NS	1400.0E		470.0D		7.0		
	280	CUBA	44	NS	1400.0E		470.0D		11.0		
	245	LEAR	43	NS	2336.0	0427.0	625.0	1100.0			QL=2 ST=2 TYP=1
	200	HIRA	8	S	0128.0	0128.0	1.0	10.0			0
	200	HIRA	8	S	0247.0	0248.0	2.0	20.0			0
	204	IZMI	25	R	0820.0		68.0		40.0		
	204	IZMI	42	SER	0837.9	0838.4	1.5	121.0			
	245	LEAR	8	S	0838.0	0838.0	1.0	170.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0838.0	0838.0	1.0	150.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0848.5	0849.8	1.6	102.0			
	2800	PENT	1	S	1657.0	1659.0	4.0	4.0			
	2800	PENT	29	PBI	2329.0	2335.0	76.0	15.0			
	245	PALE	8	S	2335.0	2336.0	1.0	190.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2339.0	2340.0	1.0	560.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	2339.0	2340.0	1.0	190.0			QL=4 ST=2 TYP=3
09	245	PALE	43	NS	0006.0	0007.0	1434.0	90.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	0006.0	0403.0	1434.0	950.0			QL=4 ST=1 TYP=1
	410	LEAR	43	NS	0405.0	0411.0	137.0	85.0			QL=2 ST=2 TYP=1
	410	SVTO	43	NS	0441.0	0457.0U	247.0	290.0			QL=2 ST=2 TYP=1
	245	SVTO	43	NS	0441.0	0446.0U	1159.0	690.0			QL=2 ST=1 TYP=1
	245	SVTO	43	NS	0441.0	0455.0U	1159.0	960.0			QL=2 ST=1 TYP=1
	204	IZMI	44	NS	0614.0E		136.0D		680.0		
	127	TORN	44	NS	0630.0E		510.0D		1300.0		V=1
	204	IZMI	44	NS	0830.0E		210.0D		340.0		
	245	SGMR	43	NS	1046.0	1400.0	653.0	880.0			QL=4 ST=2 TYP=1
	410	SVTO	43	NS	1121.0	1121.0	7.0	120.0			QL=2 ST=2 TYP=1
	235	CUBA	44	NS	1300.0E		530.0D				
	280	CUBA	44	NS	1300.0E		530.0D		33.0		
	410	SVTO	43	NS	1452.0	1352.0	1403.0	130.0			QL=2 ST=2 TYP=1
	245	PALE	43	NS	1650.0	1735.0	312.0	120.0			QL=4 ST=2 TYP=1
	6700	CUBA	47	GB		1530.5		5068.0	2534.0		12R
	410	LEAR	4	S/F	0021.0	0023.0	4.0	110.0			QL=2 ST=2 TYP=3
	610	LEAR	4	S/F	0022.0	0024.0	3.0	94.0			QL=2 ST=2 TYP=3
	410	PALE	8	S	0022.0	0023.0	2.0	140.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0023.0	0024.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0026.0	0027.0	1.0	1.0			QL=2 ST=2 TYP=3
	610	LEAR	4	S/F	0101.0	0104.0	5.0	76.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0102.0	0103.0	1.0	64.0			QL=2 ST=2 TYP=3
	1415	LEAR	8	S	0102.0	0102.0	1.0	29.0			QL=2 ST=2 TYP=3
	410	PALE	45	C	0107.0	0238.0	178.0				QL=2 ST=2 TYP=8
	610	LEAR	48	C	0108.0	0230.0	139.0	51000.0			QL=2 ST=2 TYP=8
	500	HIRA	47	GB	0109.0	0246.0	113.0	1200.0			0
	610	PALE	48	C	0110.0	0230.0	140.0	82000.0			QL=2 ST=2 TYP=8
	410	LEAR	48	C	0111.0	0246.0	174.0	87000.0			QL=2 ST=2 TYP=8
	200	HIRA	46	C	0113.0	0213.0	150.0	85.0			WL
	245	LEAR	45	C	0113.0	0246.0	172.0				QL=2 ST=2 TYP=8
	245	PALE	49	GB	0113.0	0113.0	172.0				QL=2 ST=2 TYP=6
	1415	LEAR	48	C	0117.0	0238.0	110.0	27000.0			QL=2 ST=2 TYP=8
	1415	PALE	4	S/F	0118.0	0120.0	109.0	20000.0			QL=2 ST=2 TYP=3
	2800	HIRA	46	C	0129.0	0219.0	131.0	285.0			0
	2695	LEAR	48	C	0142.0	0218.0	83.0	350.0			QL=2 ST=2 TYP=8
	2695	PALE	48	C	0145.0	0218.0	81.0	310.0			QL=2 ST=2 TYP=8
	4995	LEAR	48	C	0145.0	0215.0	94.0	200.0			QL=2 ST=2 TYP=8
	8800	LEAR	48	C	0146.0	0215.0	84.0	110.0			QL=4 ST=2 TYP=8
	2800	HIRA	8	S	0148.0	0149.0	1.0	305.0			SR
	4995	PALE	48	C	0151.0	0215.0	89.0	210.0			QL=2 ST=2 TYP=8
	15400	LEAR	4	S/F	0159.0	0200.0	1321.0	28.0			QL=4 ST=1 TYP=3
	900	GORK	46	C	0611.0	0611.3	0.9	34.0			
	900	GORK	46	C	0611.0	0611.6		45.0			
	9100	GORK	21	GRF	0643.0	0656.4	22.5	22.0			
	2950	GORK	45	C	0643.7	0647.3	8.5	6.1			
	2950	GORK	45	C	0643.7	0651.4		11.0			
	2950	GORK	45	C	0643.7	0649.8		4.9			

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 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	3000	IZMI	22	GRF	0646.4	0651.4	12.0	24.0	10.0		
	900	GORK	46	C	0650.6	0651.3	1.4	80.0			
	9100	GORK	3	S	0650.6	0651.4	3.0	50.0			
	4995	LEAR	8	S	0651.0	0651.0	1.0	39.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0651.0	0651.0	1.0	59.0			QL=4 ST=2 TYP=3
	9100	GORK	1	S	0654.3	0655.0	1.9	14.0			
	204	IZMI	41	F	0904.4	0904.9	0.6	546.0			
	9100	GORK	21	GRF	0915.0	0926.2	33.0	27.0			
	9100	GORK	1	S	0916.4	0916.7	1.0	9.6			
	2950	GORK	20	GRF	0921.5	0927.8	29.5	5.0			
	9100	GORK	3	S	0922.6	0923.4	2.6	56.0			
	900	GORK	42	SER	0948.3	0949.2	8.6	42.0			
	900	GORK	42	SER	0948.3	0956.2		34.0			
	410	SGMR	8	S	1112.0	1113.0	2.0	110.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1112.0	1113.0	1.0	240.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1126.0	1126.0	2.0	880.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	1126.0	1126.0	2.0	140.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1126.0	1126.0	1.0	700.0			QL=2 ST=2 TYP=6
	410	SVTO	8	S	1126.0	1126.0	1.0	200.0			QL=2 ST=2 TYP=3
	610	SVTO	8	S	1126.0	1126.0	1.0	40.0			QL=2 ST=2 TYP=3
	204	IZMI	46	C	1126.0	1126.7	1.6	1152.0			
	3000	IZMI	7	C	1126.0	1126.9	1.7	51.0	8.0		
	410	SGMR	48	C	1352.0	1358.0	7.0	330.0			QL=4 ST=2 TYP=8
	245	SGMR	49	GB	1352.0	1353.0	7.0	770.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	1356.0	1358.0	2.0	530.0			QL=4 ST=3 TYP=6
	610	SVTO	8	S	1356.0	1357.0	2.0	70.0			QL=4 ST=3 TYP=3
	2695	SVTO	8	S	1356.0	1357.0	2.0	51.0			QL=4 ST=3 TYP=3
	610	SGMR	8	S	1357.0	1357.0	2.0	89.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1357.0	1357.0	2.0	55.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1357.0	1400.0	3.0	560.0			QL=4 ST=3 TYP=6
	6700	CUBA	2	S/F	1357.2	1358.2	2.0	20.0	10.0		29R
	2800	PENT	47	GB	1517.0	1536.0	19.0	1528.0			
	9500	CUBA	21	GRF	1521.0	1544.0	89.0	99.0	49.0		
	6700	CUBA	21	GRF	1521.0	1545.0	153.0	465.0	232.0		00L
	4995	SVTO	48	C	1522.0	1535.0	47.0	3600.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	1522.0	1530.0	47.0	5400.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1522.0	1535.0	52.0	3800.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1522.0	1530.0	52.0	5300.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	1522.0	1526.0	52.0	5900.0			QL=4 ST=2 TYP=8
	235	CUBA	49	GB	1522.5	1529.0	30.5	5358.0			
	280	CUBA	49	GB	1522.5	1529.0	30.5	1553.0			
	6700	CUBA	47	GB	1522.8	1536.2	41.0	5657.0	2828.0		12R
	2695	SVTO	48	C	1523.0	1537.0	46.0	1600.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1523.0	1537.0	51.0	1600.0			QL=4 ST=2 TYP=8
	15400	SVTO	48	C	1523.0	1526.0	51.0	5700.0			QL=4 ST=2 TYP=8
	9500	CUBA	47	GB	1523.3	1530.4	19.7	3137.0	1568.0		
	33	UPIC	32	ABS	1524.0		62.0				
	245	SVTO	48	C	1524.0	1529.0	29.0	6400.0			QL=2 ST=2 TYP=8
	410	SVTO	48	C	1524.0	1547.0	42.0	4800.0			QL=4 ST=2 TYP=8
	610	SVTO	49	GB	1524.0	1528.0	44.0	30000.0			QL=4 ST=2 TYP=6
	1415	SVTO	49	GB	1524.0	1526.0	42.0	4400.0			QL=4 ST=2 TYP=6
	245	SGMR	48	C	1524.0	1529.0	50.0	6700.0			QL=2 ST=3 TYP=8
	410	SGMR	48	C	1524.0	1547.0	50.0	5100.0			QL=4 ST=2 TYP=8
	610	SGMR	49	GB	1524.0	1530.0	50.0	39000.0			QL=4 ST=2 TYP=6
	1415	SGMR	49	GB	1524.0	1526.0	50.0	4500.0			QL=4 ST=2 TYP=6
	33	UPIC	48	C	1528.5		18.5				
	2800	PENT	1	S	1823.0	1826.0	6.0	7.0			
	6700	CUBA	1	S	1826.2	1826.5	0.8	18.0	9.0		11R
10	204	IZMI	44	NS	0600.0E		223.0D		280.0		
	410	LEAR	43	NS	0743.0	0922.0	137.0	150.0			QL=2 ST=2 TYP=1
	245	SVTO	43	NS	0743.0	0755.0	265.0	720.0			QL=4 ST=2 TYP=1
	410	SVTO	43	NS	0743.0	0916.0	265.0	500.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0800.0E		150.0D		30.0		V=1
	610	SVTO	43	NS	0914.0	1050.0	174.0	170.0			QL=4 ST=2 TYP=1
	610	LEAR	43	NS	0919.0	0919.0	41.0	56.0			QL=2 ST=2 TYP=1
	204	IZMI	44	NS	0943.0E		137.0D		60.0		
	245	SGMR	43	NS	1050.0	1351.0	271.0	120.0			QL=4 ST=2 TYP=1
	410	SGMR	43	NS	1056.0	1357.0	271.0	150.0			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

APRIL 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	235	CUBA	44	NS	1300.0E		530.0D		12.0		
	280	CUBA	44	NS	1300.0E		530.0D		31.0		
	610	SGMR	43	NS	1448.0	1449.0	25.0	220.0			QL=4 ST=2 TYP=1
	610	SGMR	43	NS	1843.0	1905.0	43.0	180.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1843.0	1935.0	71.0	270.0			QL=4 ST=2 TYP=1
	410	SGMR	43	NS	1843.0	1935.0	71.0	210.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0053.0	0053.0	1.0	60.0			QL=2 ST=2 TYP=3
	200	HIRA	8	S	0136.0	0136.0	1.0	15.0			0
	245	LEAR	4	S/F	0258.0	0258.0	3.0	150.0			QL=2 ST=2 TYP=3
	245	SVTO	48	C	0451.0	0648.0	172.0	10000.0			QL=4 ST=2 TYP=8
	410	SVTO	45	C	0503.0	0612.0	160.0				QL=4 ST=2 TYP=8
	200	HIRA	47	GB	0504.0	0526.0		460.0			ML
	33	UPIC	46	C	0504.0	0516.0	30.5				
	500	HIRA	47	GB	0504.0	0539.0	116.0	2850.0			0
	410	LEAR	4	S/F	0504.0	0505.0	1136.0	82.0			QL=2 ST=1 TYP=3
	610	LEAR	4	S/F	0504.0	0505.0	1136.0	49.0			QL=2 ST=1 TYP=3
	1415	LEAR	4	S/F	0504.0	0505.0	1136.0	61.0			QL=2 ST=1 TYP=3
	2695	LEAR	4	S/F	0504.0	0505.0	1136.0	30.0			QL=2 ST=1 TYP=3
	610	SVTO	4	S/F	0504.0	0505.0	1136.0	44.0			QL=4 ST=1 TYP=3
	1415	SVTO	4	S/F	0504.0	0505.0	1136.0	61.0			QL=4 ST=1 TYP=3
	900	GORK	47	GB	0504.2E	0613.0	73.7D	5100.0			
	2950	GORK	49	GB	0504.4	0525.8	36.7	5400.0			
	1415	SVTO	48	C	0506.0	0509.0	112.0	2500.0			QL=4 ST=2 TYP=8
	2800	HIRA	47	GB	0508.0	0526.0	58.0	3310.0			0
	8800	LEAR	48	C	0509.0	0522.0	118.0	6900.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	0509.0	0510.0	118.0	4000.0			QL=4 ST=2 TYP=8
	4995	SVTO	48	C	0509.0	0523.0	117.0	5400.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	0509.0	0523.0	118.0	6000.0			QL=4 ST=2 TYP=8
	9100	GORK	47	GB	0509.3	0523.1	40.9	4800.0			
	15400	LEAR	48	C	0510.0	0523.0	101.0	5000.0			QL=2 ST=2 TYP=8
	15400	LEAR	48	C	0510.0	0523.0	101.0	5000.0			QL=4 ST=2 TYP=8
	15400	SVTO	48	C	0511.0	0523.0	98.0	3600.0			QL=4 ST=2 TYP=8
	610	SVTO	48	C	0524.0	0612.0	102.0	11000.0			QL=2 ST=2 TYP=8
	410	LEAR	48	C	0524.0	0612.0	139.0	55000.0			QL=2 ST=2 TYP=8
	2950	GORK	30	PBI	0541.1	0541.1	78.9	480.0			
	9100	GORK	30	PBI	0550.2	0550.2	39.8	200.0			
	3000	IZMI	45	C	0602.1	0608.7	14.3	47.0	16.0		
	204	IZMI	45	C	0606.0	0612.3	8.2	4173.0			
	2950	GORK	4	S/F	0606.4	0608.8	16.4	33.0			
	9100	GORK	3	S	0607.2	0608.5	5.3	18.0			
	900	GORK	30	PBI	0617.9	0617.9	34.6	430.0			
	204	IZMI	46	C	0629.4	0657.9	37.7	4294.0			
	2950	GORK	1	S	0634.5	0638.3	7.5	67.0			
	3000	IZMI	20	GRF	0636.6	0638.5	4.6	10.0	5.0		
	900	GORK	46	C	0637.7	0639.4		36.0			
	900	GORK	46	C	0637.7	0637.8	3.6	37.0			
	900	GORK	46	C	0645.1	0646.6	7.0	36.0			
	900	GORK	46	C	0645.1	0648.6		45.0			
	900	GORK	46	C	0645.1	0648.8		100.0			
	33	UPIC	42	SER	0648.0	0657.5	29.0				
	900	GORK	40	F	0652.5	1057.0		29.0			
	900	GORK	40	F	0652.5	1043.3		20.0			
	900	GORK	40	F	0652.5	1057.4		20.0			
	900	GORK	40	F	0652.5	1053.8		12.0			
	900	GORK	40	F	0652.5	1042.9	247.0D	16.0			
	9100	GORK	46	C	0656.9	0657.4	1.0	15.0			
	2950	GORK	2	S/F	0657.0	0657.4	1.8	9.1			
	3000	IZMI	7	C	0657.0	0657.4	0.7	15.0	7.0		
	204	IZMI	45	C	0712.4	0720.1	13.2	1082.0			
	204	IZMI	42	SER	0747.2	0747.4	2.7	1036.0			
	204	IZMI	42	SER	0947.6	0951.7	7.6	90.0			
	204	IZMI	42	SER	1115.4	1134.5	19.8	115.0			
	204	IZMI	41	F	1144.6	1144.7	0.3	87.0			
	610	SGMR	8	S	1350.0	1350.0	U	59.0			QL=4 ST=2 TYP=3
	2800	PENT	40	F	1437.0	1448.0	24.0	33.0			
	6700	CUBA	22	GRF	1442.0	1453.0	59.0	20.0	10.0		16L
	9500	CUBA	1	S	1444.5	1445.2	3.0	6.0	3.0		
	610	SGMR	8	S	1752.0	1753.0	1.0	120.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1811.0	1837.0	81.0U	23.0			

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 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	235	CUBA	27	RF	1815.0	1935.0	161.0	103.0			
	280	CUBA	27	RF	1815.0	1935.0	161.0D	228.0			
	6700	CUBA	22	GRF	1824.0	1911.0	80.0	14.0	7.0		63R
	9500	CUBA	21	GRF	1825.0	1911.0	113.0	12.0	6.0		
	410	PALE	8	S	1826.0	1826.0	2.0	100.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1826.0	1827.0	5.0	91.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1826.0	1827.0	5.0	60.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1827.0	1828.0	3.0	3.0	1.0		
	610	PALE	8	S	1827.0	1827.0	U	63.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1835.2	1836.4	4.0	2.0	1.0		
	610	PALE	8	S	1836.0	1836.0	1.0	66.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1836.0	1836.0	5.0	64.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1842.0	1843.0	2.0	51.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1843.0	1843.0	1.0	57.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	2100.0	2103.0	29.0	6.0			
11	127	TORN	44	NS	0820.0E		400.0D		40.0		V=1,DISTURBED
	245	SGMR	43	NS	1354.0	1357.0	47.0	270.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1600.0E		350.0D		10.0		
	280	CUBA	44	NS	1600.0E		350.0D		16.0		
	2800	PENT	1	S	0024.0	0028.0	7.0	7.0			
	200	HIRA	8	S	0026.0	0027.0	1.0	30.0			0
	245	PALE	49	GB	0027.0	0027.0	1.0	100.0			QL=2 ST=3 TYP=6
	245	LEAR	8	S	0028.0	0028.0	U	52.0			QL=2 ST=2 TYP=3
	9100	GORK	1	S	0636.0	0637.1	3.0	16.0			
	204	IZMI	42	SER	0748.9	0749.2	1.4	32.0			
	900	GORK	46	C	0801.8	0805.1	5.9	36.0			
	900	GORK	46	C	0801.8	0805.6		33.0			
	9100	GORK	1	S	0844.8	0845.2	1.2	8.0			
	204	IZMI	7	C	0906.8	0906.9	0.6	24.0			
	9100	GORK	1	S	0919.1	0919.5	0.8	6.4			
	33	UPIC	3	S	1012.0	1012.5	1.0				
	33	UPIC	45	C	1022.0	1024.0	3.0				
	9500	CUBA	47	GB	1257.0	1317.4	27.0	2664.0	832.0		
	127	TORN	4	S/F	1258.4	1258.9	2.1	16500.0	1000.0		
	8800	SVTO	48	C	1259.0	1317.0	36.0	1900.0			QL=4 ST=2 TYP=8
	4995	SVTO	48	C	1259.0	1317.0	41.0	1600.0			QL=4 ST=2 TYP=8
	410	SGMR	48	C	1259.0	1318.0	55.0	12000.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1259.0	1317.0	55.0	1700.0			QL=4 ST=2 TYP=8
	15400	SVTO	48	C	1259.0	1317.0	62.0	1200.0			QL=4 ST=2 TYP=8
	410	SVTO	48	C	1259.0	1318.0	72.0	12000.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	1300.0	1318.0	54.0	3100.0			QL=4 ST=2 TYP=8
	610	SVTO	48	C	1300.0	1323.0	62.0	6400.0			QL=2 ST=2 TYP=8
	1415	SVTO	48	C	1300.0	1316.0	62.0	740.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	1300.0	1317.0	64.0	540.0			QL=4 ST=2 TYP=8
	245	SVTO	48	C	1300.0	1317.0	72.0	2900.0			QL=4 ST=2 TYP=8
	33	UPIC	49	GB	1300.0	1301.0	100.0				
	127	TORN	27	RF	1300.5		65.5		1520.0D		
	2695	SGMR	48	C	1301.0	1317.0	53.0	530.0			QL=4 ST=2 TYP=8
	1415	SGMR	48	C	1303.0	1316.0	51.0	670.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	1303.0	1317.0	51.0	1300.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1303.0	1311.0	657.0	190.0			QL=4 ST=1 TYP=8
	610	SGMR	48	C	1305.0	1323.0	49.0	7800.0			QL=4 ST=2 TYP=8
	6700	CUBA	47	GB	1310.0	1318.0	20.8	2100.0	1050.0		5R
	9500	CUBA	29	PBI	1324.0		80.0	247.0	123.0		
	6700	CUBA	29	PBI	1330.8		57.2	514.0	257.0		2R
	410	SGMR	4	S/F	1354.0	1358.0	14.0	240.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1354.0	1357.0	14.0	79.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1355.0	1358.0	11.0	110.0			QL=4 ST=2 TYP=3
	33	UPIC	29	PBI	1440.0	1445.5	79.0				
	6700	CUBA	20	GRF	1529.0	1554.0	96.0	21.0	10.0		00L
	2800	PENT	29	PBI	2346.0	2359.0	93.0U	15.0			
12	204	IZMI	43	NS	0906.0		149.0		15.0		
	127	TORN	44	NS	0930.0E		330.0D		80.0		V=1,DISTURBED
	245	SVTO	43	NS	1210.0	1215.0	20.0	130.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1300.0E		530.0D		8.0		
	280	CUBA	44	NS	1300.0E		530.0D		14.0		
	15400	LEAR	49	GB	0259.0	0301.0	9.0	640.0			QL=4 ST=2 TYP=6

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 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	8800	LEAR	49	GB	0300.0	0301.0	5.0	560.0			QL=4 ST=2 TYP=6
	4995	LEAR	4	S/F	0300.0	0301.0	7.0	210.0			QL=2 ST=2 TYP=3
	8800	PALE	49	GB	0300.0	0301.0	4.0	500.0			QL=4 ST=2 TYP=6
	15400	PALE	49	GB	0300.0	0301.0	4.0	650.0			QL=4 ST=2 TYP=6
	4995	PALE	4	S/F	0300.0	0301.0	5.0	220.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0840.0	0841.0	1.0	120.0			QL=4 ST=2 TYP=3
	3000	IZMI	20	GRF	0940.1	0944.3	9.3	12.0	5.0		
	3000	IZMI	46	C	1001.2	1017.3	41.7	995.0	226.0		
	9100	GORK	48	C	1009.0	1020.5		4800.0			
	9100	GORK	48	C	1009.0	1017.7	30.0	4300.0			
	900	GORK	48	C	1013.6	1018.2	56.4	2400.0			
	900	GORK	48	C	1013.6	1046.5		9700.0			
	900	GORK	48	C	1013.6	1036.7		1100.0			
	2950	GORK	48	C	1013.8	1032.3		400.0			
	2950	GORK	48	C	1013.8	1017.4	25.2	1200.0			
	2950	GORK	48	C	1013.8	1021.6		1000.0			
	1415	SVTO	48	C	1014.0	1036.0	38.0	1400.0			QL=4 ST=2 TYP=8
	4995	SVTO	48	C	1014.0	1020.0	38.0	2600.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	1014.0	1020.0	36.0	3800.0			QL=4 ST=2 TYP=8
	15400	SVTO	48	C	1014.0	1017.0	36.0	6200.0			QL=4 ST=2 TYP=8
	2695	SVTO	49	GB	1014.0	1017.0	38.0	1200.0			QL=4 ST=2 TYP=6
	610	SVTO	48	C	1014.0	1020.0	46.0	20000.0			QL=4 ST=2 TYP=8
	204	IZMI	46	C	1014.8	1018.5	7.3	63346.0			
	127	TORN	47	GB	1014.9	1022.5U	7.6	7700.0D	3300.0		
	410	SVTO	48	C	1015.0	1036.0	46.0	8100.0			QL=4 ST=2 TYP=8
	245	SVTO	49	GB	1016.0	1017.0	44.0	8200.0			QL=4 ST=2 TYP=6
	33	UPIC	49	GB	1016.5	1032.0	31.5				
	204	IZMI	45	C	1022.9	1033.6	31.6	616.0			
	245	SGMR	48	C	1028.0	1033.0	812.0	600.0			QL=2 ST=1 TYP=8
	4995	SGMR	48	C	1029.0E	1047.0U	27.0D	270.0			QL=2 ST=2 TYP=8
	245	SGMR	48	C	1029.0E	1033.0U	31.0D	600.0			QL=2 ST=2 TYP=8
	1415	SGMR	48	C	1029.0E	1036.0U	30.0D	1400.0			QL=2 ST=2 TYP=8
	2695	SGMR	48	C	1029.0E	1032.0U	33.0D	270.0			QL=2 ST=2 TYP=8
	8800	SGMR	48	C	1029.0E	1047.0U	33.0D	240.0			QL=2 ST=2 TYP=8
	410	SGMR	49	GB	1029.0E	1036.0U	33.0D	2900.0			QL=2 ST=2 TYP=6
	610	SGMR	49	GB	1029.0E	1036.0U	31.0D	3300.0			QL=2 ST=2 TYP=6
	9100	GORK	30	PBI	1039.0	1039.0	31.0D	100.0			
	2950	GORK	30	PBI	1039.0	1039.0	31.0D	130.0			
	9100	GORK	45	C	1045.5	1050.1		65.0			
	9100	GORK	45	C	1045.5	1047.3	6.9	230.0			
	3000	IZMI	45	C	1045.8	1047.3	72.8	286.0			
	15400	SGMR	48	C	1046.0E	1101.0U	16.0D	75.0			QL=2 ST=2 TYP=8
	2950	GORK	4	S/F	1046.5	1047.4	9.5	250.0			
	33	UPIC	29	PBI	1048.0	1204.5	229.0				
	610	SGMR	4	S/F	1104.0	1111.0	8.0	170.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1111.0	1111.0	U	94.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1126.0	1127.0	1.0	91.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	1144.5	1153.3	15.1	93.0			
	1415	SVTO	20	GRF	1145.0	1150.0	8.0	78.0			QL=4 ST=2 TYP=2
	245	SVTO	4	S/F	1145.0	1146.0	14.0	130.0			QL=4 ST=2 TYP=3
	245	SGMR	20	GRF	1146.0	1153.0	13.0	110.0			QL=4 ST=2 TYP=2
	410	SGMR	20	GRF	1146.0	1153.0	13.0	88.0			QL=4 ST=2 TYP=2
	1415	SGMR	4	S/F	1146.0	1150.0	11.0	78.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	1146.0	1153.0	12.0	150.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	1148.0	1150.0	11.0	50.0			QL=2 ST=2 TYP=3
	610	SGMR	4	S/F	1149.0	1150.0	10.0	42.0			QL=4 ST=2 TYP=3
	204	IZMI	25	R	1202.4		27.6D		75.0		
	245	SGMR	4	S/F	1210.0	1216.0	22.0	100.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1211.0	1215.0	9.0	92.0			QL=4 ST=2 TYP=3
	410	SGMR	20	GRF	1214.0	1222.0	14.0	76.0			QL=4 ST=2 TYP=2
	410	SVTO	4	S/F	1214.0	1222.0	14.0	98.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	1408.0	1409.5	3.0	13.0	6.0		25L
	6700	CUBA	20	GRF	1457.0	1549.0	103.0	26.0	13.0		5R
	245	SGMR	8	S	1956.0	1956.0	1.0	160.0			QL=4 ST=2 TYP=3
13	204	IZMI	43	NS	0600.0		360.0D		20.0		
	127	TORN	44	NS	1240.0E		80.0D		8.0		V=1
	235	CUBA	44	NS	1300.0E		530.0D		8.0		
	280	CUBA	44	NS	1300.0E		530.0D		17.0		

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 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	200	HIRA	8	S	0130.0	0131.0	1.0	20.0			ML
	204	IZMI	41	F	0601.4	0601.6	0.3	57.0			
	204	IZMI	42	SER	0726.8	0727.9	3.0	30.0			
	200	HIRA	8	S	0727.0	0728.0	1.0	10.0			WR
	204	IZMI	41	F	0849.8	0850.6	1.6	24.0			
	204	IZMI	41	F	0856.2	0856.7	1.2	23.0			
	8800	SGMR	8	S	2141.0	2141.0	2.0	45.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	2141.0	2141.0	2.0	110.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	2141.5	2142.0	1.4	22.0	11.0		
14	127	TORN	44	NS	0630.0E		510.0D		40.0		V=1
	204	IZMI	43	NS	0937.0		143.0D		5.0		
	235	CUBA	44	NS	1300.0E		530.0D		8.0		
	280	CUBA	44	NS	1300.0E		530.0D		13.0		
	2800	PENT	1	S	0004.0	0007.0	6.0	5.0			
	4995	LEAR	8	S	0007.0	0007.0	1.0	25.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0007.0	0007.0	1.0	82.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0007.0	0007.0	1.0	62.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0007.0	0008.0	5.0	76.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0053.0	0054.0	2.0	45.0			0
	200	HIRA	7	C	0157.0	0157.0	2.0	105.0			WR
	245	LEAR	8	S	0450.0	0450.0	U	72.0			QL=2 ST=2 TYP=3
	2950	GORK	20	GRF	0500.6	0502.8	12.5	8.3			
	15400	LEAR	8	S	0501.0	0503.0	2.0	60.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0501.0	0503.0	3.0	76.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0501.0	0503.0	3.0	70.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0501.0	0503.0	3.0	57.0			QL=4 ST=2 TYP=3
	9100	GORK	46	C	0501.4	0502.2	3.8	38.0			
	9100	GORK	46	C	0501.4	0503.2		50.0			
	4995	LEAR	8	S	0502.0	0503.0	1.0	24.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0717.0	0718.0	1.0	81.0			QL=4 ST=2 TYP=3
	9100	GORK	3	S	0719.5	0720.5	1.8	21.0			
	900	GORK	42	SER	0812.0	0821.3		16.0			
	900	GORK	42	SER	0812.0	0819.6		11.0			
	900	GORK	42	SER	0812.0	0818.8	13.9	8.0			
	900	GORK	42	SER	0812.0	0824.9		34.0			
	9100	GORK	21	GRF	0812.9	0832.5	30.3	24.0			
	2950	GORK	21	GRF	0813.0	0835.6	25.7	8.4			
	9100	GORK	1	S	0813.3	0813.7	0.6	10.0			
	3000	IZMI	22	GRF	0813.3	0835.7	24.3	18.0	3.0		
	2950	GORK	8	S	0813.5	0813.7	0.4	22.0			
	3000	IZMI	5	S	0813.6	0813.7	0.2	20.0	7.0		
	3000	IZMI	7	C	0820.8	0821.8	1.3	11.0	6.0		
	2950	GORK	45	C	0821.0	0821.4	1.5	6.0			
	2950	GORK	45	C	0821.0	0821.9		7.2			
	204	IZMI	22	GRF	0835.5	0853.5	55.1	11.0			
	33	UPIC	4	S/F	1154.5	1155.0	1.0				
	245	SGMR	4	S/F	1406.0	1408.0	3.0	69.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1511.0	1511.0	1.0	69.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1511.0	1511.0	1.0	29.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1511.0	1511.0	1.0	57.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1511.0	1511.0	1.0	120.0			QL=4 ST=2 TYP=3
	33	UPIC	4	S/F	1512.0	1512.5	1.5				
	6700	CUBA	21	GRF	1717.0	1744.0	81.0	16.0	8.0		11L
	9500	CUBA	21	GRF	1717.0	1800.0	84.0	18.0	9.0		
	410	PALE	4	S/F	1727.0	1729.0	3.0	370.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1727.0	1728.0	6.0	210.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1727.0	1729.0	6.0	310.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1727.0	1729.0	6.0	170.0			QL=4 ST=2 TYP=3
	6700	CUBA	42	SER	1727.2	1744.7	27.2	255.0	127.0		7R
	280	CUBA	48	C	1727.3	1743.0	52.7	275.0			
	235	CUBA	49	GB	1727.3	1743.3	52.7	130.0			
	9500	CUBA	42	SER	1727.4	1744.8	27.1	10.0	5.0		
	245	PALE	8	S	1728.0	1729.0	2.0	250.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1728.0	1730.0	2.0	170.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	1728.0	1728.0	2.0	280.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1728.0	1728.0	1.0	47.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	1728.0	1730.0	2.0	63.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1728.0	1728.0	2.0	270.0			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

APRIL 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	2695	SGMR	8	S	1728.0	1728.0	2.0	31.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1728.0	1729.0	5.0	56.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1728.0	1729.0	5.0	50.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1728.0	1729.0	5.0	39.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	1732.0	1740.0	14.0	290.0			QL=4 ST=2 TYP=8
	2695	PALE	48	C	1734.0	1737.0	8.0	150.0			QL=4 ST=2 TYP=8
	410	PALE	20	GRF	1734.0	1740.0	7.0	82.0			QL=4 ST=2 TYP=2
	610	PALE	8	S	1734.0	1735.0	1.0	31.0			QL=4 ST=2 TYP=3
	2695	SGMR	48	C	1734.0	1737.0	15.0	110.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1734.0	1737.0	15.0	120.0			QL=4 ST=2 TYP=8
	410	SGMR	4	S/F	1734.0	1737.0	15.0	73.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1735.0	1737.0	7.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1735.0	1740.0	14.0	250.0			QL=4 ST=2 TYP=8
	1415	PALE	8	S	1736.0	1737.0	2.0	49.0			QL=4 ST=2 TYP=3
	8800	SGMR	48	C	1736.0	1744.0	13.0	470.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	1736.0	1744.0	13.0	800.0			QL=4 ST=2 TYP=8
	1415	SGMR	4	S/F	1736.0	1736.0	10.0	48.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1737.0	1737.0	12.0	20.0			QL=4 ST=2 TYP=3
	2800	PENT	40	F	1737.0E	1737.0	49.0U				
	15400	PALE	49	GB	1744.0	1744.0	2.0	710.0			QL=4 ST=2 TYP=6
	8800	PALE	8	S	1744.0	1744.0	2.0	350.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	1751.0	1752.0	1.0	48.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1751.0	1751.0	3.0	52.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1751.0	1752.0	3.0	78.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1751.0	1752.0	4.0	52.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1751.0	1752.0	4.0	51.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1752.0	1752.0	3.0	55.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1801.0	1802.0	2.0	70.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1810.0	1811.0	3.0	48.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1810.0	1810.0	3.0	54.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1810.0	1810.7	2.8	28.0	14.0		13L
	9500	CUBA	1	S	1810.0	1810.8	3.0	19.0	9.0		
	2800	PENT	1	S	1924.0	1926.0	5.0	7.0			
	245	SGMR	8	S	1925.0	1925.0	1.0	64.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	2321.0	2322.0	6.0	71.0			QL=2 ST=2 TYP=3
	200	HIRA	7	C	2322.0	2325.0	4.0	45.0			0
	410	LEAR	8	S	2322.0	2322.0	1.0	17.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	2322.0	2322.0	U	110.0			QL=4 ST=2 TYP=3
15	235	CUBA	44	NS	1300.0E		530.0D		6.0		
	280	CUBA	44	NS	1300.0E		530.0D		13.0		
	6700	CUBA				1414.3		711.0	355.0		15L
	8800	LEAR	8	S	0405.0	0406.0	1.0	55.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0405.0	0406.0	1.0	110.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0431.0	0431.0	1.0	35.0			0
	2950	GORK	2	S/F	0544.7	0545.7	2.9	7.4			
	9100	GORK	20	GRF	0554.0	0615.1	27.2	17.0			
	3000	IZMI	20	GRF	0554.1	0555.0	1.4	14.0	8.0		
	2950	GORK	21	GRF	0555.0	0555.7	25.2	20.0			
	204	IZMI	45	C	0627.0	0627.2	0.4	77.0			
	9100	GORK	21	GRF	0751.8	0831.8	177.9	30.0			
	9100	GORK	46	C	0753.0	0754.0	4.7	21.0			
	9100	GORK	46	C	0753.0	0756.2		14.0			
	33	UPIC	46	C	0758.0	0800.0	3.5				
	2950	GORK	21	GRF	0758.3	0823.3	103.2	13.0			
	2950	GORK	21	GRF	0758.3	0834.6		9.8			
	200	HIRA	8	S	0759.0	0800.0	1.0	10.0			0
	900	GORK	42	SER	0759.0	0759.1	3.3	6.0			
	900	GORK	42	SER	0759.0	0802.1		5.0			
	200	HIRA	8	S	0816.0	0817.0	1.0	75.0			0
	245	LEAR	8	S	0816.0	0816.0	U	65.0			QL=2 ST=2 TYP=3
	3000	IZMI	45	C	0816.1	0823.5	30.3	23.0	10.0		
	204	IZMI	45	C	0816.4	0816.5	0.5	139.0			
	9100	GORK	4	S/F	0819.5	0820.6	2.0	13.0			
	204	IZMI	41	F	0921.7	0922.3	0.9	30.0			
	3000	IZMI	20	GRF	0923.8	0930.9	30.5	12.0	3.0		
	900	GORK	2	S/F	0934.0	0934.2	0.4	6.0			
	900	GORK	7	C	0939.2	0940.5	3.6	5.0			
	33	UPIC	3	S	1004.5	1005.5	1.5				

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 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	204	IZMI	42	SER	1004.6	1004.8	0.5	121.0			
	6700	CUBA	21	GRF	1320.0	1414.0	198.0	87.0	43.0		22L
	9500	CUBA	20	GRF	1321.0	1505.0	195.0	10.0	5.0		
	6700	CUBA	47	GB	1332.0	1346.5	102.0	2466.0	1233.0		12L
	2695	SGMR	48	C	1333.0	1417.0	108.0	48000.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1333.0	1346.0	108.0	2400.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1334.0	1349.0	107.0	1500.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	1334.0	1349.0	107.0	5100.0			QL=4 ST=2 TYP=8
	9500	CUBA	47	GB	1334.3	1414.0		541.0	270.0		
	9500	CUBA	47	GB	1334.3	1349.9	88.9	1753.0	876.0		
	33	UPIC	32	ABS	1338.0	1348.0	128.0				
	1415	SGMR	48	C	1345.0	1418.0	96.0	54000.0			QL=4 ST=2 TYP=8
	235	CUBA	49	GB	1345.8	1346.0U	91.3D	2187.0			
	280	CUBA	49	GB	1345.8	1346.0U	91.3	3012.0			
	245	SGMR	49	GB	1346.0	1347.0	38.0	61000.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	1346.0	1347.0	88.0	1500.0			QL=4 ST=2 TYP=6
	610	SGMR	48	C	1346.0	1447.0	95.0	2700.0			QL=4 ST=2 TYP=8
	127	TORN	49	GB	1346.5	1349.4	20.0	26000.0D	6100.0D		
	33	UPIC	49	GB	1350.0	1354.5	55.0				
	1415	SGMR	8	S	1603.0	1603.0	U	86.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1632.0	1632.0	U	150.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1656.0	1700.0	15.0	90.0			QL=4 ST=2 TYP=3
	9500	CUBA	20	GRF	1658.0	1701.0	38.0	9.0	4.0		
	1415	PALE	4	S/F	1659.0	1701.0	13.0	89.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1700.0	1701.0	6.0	43.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1700.0	1701.0	9.0	73.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1700.0	1700.0	9.0	65.0			QL=4 ST=2 TYP=3
	6700	CUBA	20	GRF	1701.0	1705.0	22.0	25.0	12.0		32L
	245	PALE	8	S	1702.0	1702.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1810.0	1811.0	1.0	77.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1810.0	1811.0	1.0	76.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	2159.0	2203.0	7.0	4.0			
	200	HIRA	8	S	2206.0	2206.0	1.0	15.0			WR
	8800	PALE	8	S	2343.0	2344.0	1.0	300.0			QL=4 ST=2 TYP=3
16	235	CUBA	44	NS	1300.0E		530.0D		6.0		
	280	CUBA	44	NS	1300.0E		530.0D		14.0		
	2950	GORK	21	GRF	0601.8E	0624.6	25.2D	4.7			
	9100	GORK	3	S	0619.4	0619.7	0.6	14.0			
	2950	GORK	1	S	0619.4	0619.8	0.6	4.7			
	3000	IZMI	20	GRF	0619.5	0619.8	0.4	9.0	3.0		
	3000	IZMI	20	GRF	0620.8	0622.2	3.8	8.0	4.0		
	3000	IZMI	7	C	0658.0	0701.1	3.5	11.0	5.0		
	9100	GORK	45	C	0659.1	0700.0	2.7	18.0			
	2950	GORK	1	S	0659.8	0700.1	2.6	3.5U			
	900	GORK	4	S/F	0811.2	0811.3	2.2	22.0			
	9100	GORK	8	S	0811.7	0811.8	0.2	26.0			
	3000	IZMI	22	GRF	1111.1	1113.5	20.1	8.0	4.0		
	2800	PENT	1	S	2101.0	2104.0	6.0	8.0			
	245	SGMR	8	S	2104.0	2104.0	2.0	140.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2104.0	2104.0	2.0	110.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	2105.0	2105.0	1.0	65.0			0
	200	HIRA	8	S	2105.0	2105.0	1.0	55.0			0
	200	HIRA	8	S	2223.0	2223.0	1.0	30.0			WR
17	204	IZMI	43	NS	0600.0		360.0D		25.0		
	245	SGMR	43	NS	1226.0	1226.0	102.0	130.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	1230.0E		150.0D		11.0		V=1
	235	CUBA	44	NS	1300.0E		530.0D		6.0		
	280	CUBA	44	NS	1300.0E		530.0D		14.0		
	2950	GORK	1	S	0455.5	0456.5	3.5	12.0			
	410	SVTO	8	S	0615.0	0616.0	1.0	77.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0616.0	0616.0	1.0	30.0			0
	200	HIRA	8	S	0735.0	0736.0	1.0	85.0			WL
	245	LEAR	8	S	0735.0	0736.0	1.0	56.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0735.0	0736.0	1.0	60.0			QL=4 ST=3 TYP=3
	410	SVTO	8	S	0735.0	0735.0	1.0	28.0			QL=4 ST=3 TYP=3
	204	IZMI	41	F	0735.7	0735.9	0.5	157.0			
	245	SVTO	8	S	0816.0	0817.0	1.0	77.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 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	204	IZMI	42	SER	1105.8	1106.4	1.1	148.0			
	245	SGMR	8	S	1106.0	1106.0	1.0	74.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1106.0	1106.0	U	88.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1107.1	1107.4	0.4	66.0			
	245	SGMR	8	S	1139.0	1139.0	1.0	250.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	1139.6	1139.9	0.7	346.0			
	610	SGMR	8	S	1149.0	1149.0	1.0	88.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	2020.2	2021.8	1.8	27.0	13.0		3L
	2800	PENT	29	PBI	2116.0	2125.0	76.0	11.0			
	9500	CUBA	21	GRF	2120.0	2149.0	57.0D	19.0	9.0		SUNSET
	9500	CUBA	1	S	2120.5	2121.8	2.5	11.0	5.0		
18	204	IZMI	44	NS	0600.0E		360.0D		10.0		
	4995	LEAR	4	S/F	0213.0	0214.0	8.0	470.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0213.0	0214.0	6.0	160.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0213.0	0214.0	6.0	79.0			QL=4 ST=2 TYP=3
	2695	PALE	49	GB	0213.0	0215.0	4.0	630.0			QL=4 ST=2 TYP=6
	1415	PALE	4	S/F	0213.0	0215.0	5.0	420.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0213.0	0214.0	3.0	410.0			QL=4 ST=2 TYP=3
	2695	LEAR	49	GB	0213.0	0214.0	11.0	570.0			QL=4 ST=2 TYP=6
	1415	LEAR	4	S/F	0213.0	0215.0	11.0	340.0			QL=4 ST=2 TYP=3
	410	LEAR	49	GB	0214.0	0214.0	8.0	1700.0			QL=2 ST=2 TYP=6
	245	PALE	49	GB	0214.0	0214.0	1.0	1800.0			QL=4 ST=2 TYP=6
	410	PALE	49	GB	0214.0	0214.0	7.0	4500.0			QL=4 ST=2 TYP=6
	8800	PALE	8	S	0214.0	0215.0	1.0	39.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0214.0	0214.0	10.0	1500.0			QL=2 ST=2 TYP=6
	610	LEAR	4	S/F	0215.0	0216.0	6.0	62.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0215.0	0216.0	2.0	75.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0232.0	0232.0	U	330.0			QL=4 ST=2 TYP=3
	2800	HIRA	3	S	2112.0	2118.0	14.0	495.0			0
	500	HIRA	8	S	2114.0	2115.0	1.0	170.0			0
	200	HIRA	47	GB	2114.0	2115.0	16.0	550.0			WL
	500	HIRA	7	C	2115.0	2118.0	14.0	90.0			0
19	204	IZMI	44	NS	0600.0E		360.0D		25.0		
	127	TORN	44	NS	1000.0E		300.0D		20.0		V=1,DISTURBED
	235	CUBA	44	NS	1300.0E		530.0D		9.0		
	280	CUBA	44	NS	1300.0E		530.0D		16.0		
	200	HIRA	8	S	0440.0	0442.0	2.0	25.0			0
	2950	GORK	1	S	0614.2	0614.7	1.0	9.0			
	204	IZMI	42	SER	0704.9	0705.4	0.8	56.0			
	204	IZMI	41	F	0709.0	0709.1	0.3	61.0			
	204	IZMI	41	F	0833.5	0833.7	0.4	54.0			
	3000	IZMI	45	C	1124.8	1130.2	31.1	312.0	36.0		
	2695	SGMR	4	S/F	1127.0	1130.0	28.0	270.0			QL=4 ST=2 TYP=3
	4995	SGMR	49	GB	1128.0	1130.0	27.0	540.0			QL=4 ST=2 TYP=6
	1415	SGMR	4	S/F	1129.0	1130.0	24.0	81.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1129.0	1130.0	26.0	340.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1129.0	1130.0	26.0	88.0			QL=4 ST=2 TYP=3
20	204	IZMI	44	NS	0600.0E		360.0D		10.0		
	127	TORN	44	NS	0630.0E		510.0D		14.0		V=1
	235	CUBA	44	NS	1300.0E		530.0D		7.0		
	280	CUBA	44	NS	1300.0E		530.0D		17.0		
	500	HIRA	8	S	0057.0	0057.0	1.0	10.0			0
	200	HIRA	8	S	0057.0	0057.0	1.0	15.0			0
	245	LEAR	8	S	0231.0	0232.0	2.0	44.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0232.0	0232.0	U	50.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0253.0	0255.0	2.0	51.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0345.0	0345.0	U	140.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0345.0	0345.0	U	170.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0515.0	0516.0	3.0	47.0			QL=4 ST=2 TYP=3
	2950	GORK	2	S/F	0515.3	0516.2	3.7	18.0			
	9100	GORK	3	S	0515.4	0515.9	3.1	10.0			
	204	IZMI	25	R	0652.3		35.0		25.0		
	204	IZMI	41	F	0700.4	0700.6	0.4	35.0			
	200	HIRA	8	S	0705.0	0706.0	1.0	15.0			WL
	204	IZMI	42	SER	0705.4	0706.8	4.3	36.0			
	204	IZMI	7	C	0752.7	0752.8	0.2	10.0			

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

APRIL 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
20	2950	GORK	2	S/F	0928.7	0930.0	2.8	7.5			
	3000	IZMI	7	C	0929.0	0929.9	1.8	11.0	4.0		
	204	IZMI	41	F	1007.9	1007.9	0.2	72.0			
	245	SVTO	8	S	1101.0	1101.0	U	96.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1101.4	1101.5	0.8	53.0			
	6700	CUBA	22	GRF	1320.0	1320.0	131.0	22.0	11.0		10L
	2800	PENT	20	GRF	1410.0	1415.0	30.0	6.0			
	2800	PENT	29	PBI	1603.0	1611.0	29.0U	7.0			
	4995	SGMR	4	S/F	1952.0	1954.0	12.0	180.0			QL=4 ST=2 TYP=3
	6700	CUBA	4	S/F	1952.2	1954.0	9.4	125.0	62.0		13L
	9500	CUBA	2	S/F	1952.8	1954.0	4.2	33.0	16.0		
	2695	SGMR	4	S/F	1953.0	1954.0	11.0	70.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1953.0	1954.0	11.0	85.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1953.0	2004.0	11.0	46.0			QL=4 ST=2 TYP=3
	9500	CUBA	21	GRF	1953.0	2008.0	76.0	30.0	15.0		
	6700	CUBA	30	PBI	2001.6	2001.6	100.4	43.0	21.0		10L
	2695	PALE	8	S	2005.0	2006.0	1.0	3.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2005.0	2005.0	U	16.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2005.0	2009.0	5.0	5.0			QL=4 ST=2 TYP=3
	15400	SGMR	20	GRF	2007.0	2011.0	18.0	52.0			QL=4 ST=2 TYP=2
	2800	PENT	29	PBI	2127.0	2132.0	65.0U	91.0			
	2800	HIRA	4	S/F	2129.0	2132.0	5.0	80.0			0
	500	HIRA	47	GB	2129.0	2129.0	6.0	830.0			WL
	410	PALE	8	S	2129.0	2129.0	1.0	400.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2129.0	2129.0	2.0	120.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	2129.0	2129.0	5.0	330.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	2129.0	2129.0	5.0	120.0			QL=4 ST=2 TYP=3
	6700	CUBA	4	S/F	2129.3	2132.2	4.2	157.0	78.0		16L
	9500	CUBA	2	S/F	2129.8	2132.2	4.2	84.0	42.0		
	200	HIRA	7	C	2130.0	2132.0	7.0	140.0			WL
	1415	SGMR	4	S/F	2130.0	2132.0	4.0	54.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2130.0	2132.0	4.0	69.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2131.0	2131.0	2.0	180.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	2131.0	2132.0	1.0	56.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2131.0	2132.0	1.0	79.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2131.0	2132.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	2131.0	2131.0	3.0	140.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	2131.0	2132.0	3.0	180.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2131.0	2132.0	3.0	130.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2132.0	2132.0	U	110.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	2132.0	2132.0	2.0	30.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2146.0	2146.0	2.0	63.0			QL=4 ST=2 TYP=3
21	204	IZMI	44	NS	0600.0E		360.0D		10.0		
	127	TORN	44	NS	0630.0E		510.0D		10.0		V=1
	245	SVTO	43	NS	1007.0	1142.0	106.0	170.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1300.0E		530.0D		7.0		
	280	CUBA	44	NS	1300.0E		530.0D		15.0		
	200	HIRA	8	S	0537.0	0537.0	1.0	25.0			WL
	245	LEAR	49	GB	0537.0	0537.0	U	2200.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	0537.0	0537.0	U	2700.0			QL=4 ST=2 TYP=6
	2950	GORK	1	S	0537.2	0537.4	1.0	3.1			
	204	IZMI	41	F	0716.6	0716.8	0.8	16.0			
	204	IZMI	7	C	0748.5	0748.6	0.2	44.0			
	200	HIRA	8	S	0903.0	0903.0	1.0	40.0			WL
	204	IZMI	42	SER	0903.2	0903.4	2.2	61.0			
	127	TORN	4	S/F	0903.3	0903.8	2.0	590.0	190.0		
	204	IZMI	42	SER	0933.3	0933.9	2.7	58.0			
	900	GORK	41	F	0935.0	0936.2	7.0	24.0			
	900	GORK	41	F	0935.0	0941.6		40.0			
	2950	GORK	42	SER	0939.0	0950.9		26.0			
	2950	GORK	42	SER	0939.0	0940.9	12.3	20.0			
	204	IZMI	42	SER	0942.3	0943.6	1.7	106.0			
	235	CUBA	7	C	1930.8	1933.5	3.5	40.0			
	280	CUBA	7	C	1930.8	1933.5	3.5	181.0			
	410	PALE	49	GB	1931.0	1931.0	1.0	690.0			QL=4 ST=2 TYP=6
	245	PALE	8	S	1931.0	1931.0	1.0	450.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1931.0	1932.0	1.0	100.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1931.0	1931.0	2.0	520.0			QL=4 ST=2 TYP=6

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 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	245	SGMR	8	S	1931.0	1931.0	2.0	330.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1931.0	1931.0	2.0	87.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1931.0	1931.0	2.0	42.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	1933.0	1934.0	4.0	820.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1934.0	1934.0	2.0	700.0			QL=4 ST=2 TYP=6
	610	PALE	4	S/F	2048.0	2053.0	12.0	70.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	2050.0	2053.0	10.0	54.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2053.0	2053.0	U	64.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	2349.0	2354.0	5.0	15.0			WL
	200	HIRA	42	SER	2350.0	2354.0	4.0	30.0			0
22	127	TORN	43	NS	0730.0		450.0		14.0		V=1
	235	CUBA	44	NS	1300.0E		530.0D		10.0		
	280	CUBA	44	NS	1300.0E		530.0D		13.0		
	200	HIRA	8	S	0042.0	0042.0	1.0	20.0			0
	500	HIRA	42	SER	0121.0	0147.0	28.0	55.0			WL
	200	HIRA	42	SER	0134.0	0148.0	16.0	390.0			WR
	2800	HIRA	8	S	0146.0	0147.0	1.0	30.0			WL
	245	LEAR	8	S	0146.0	0148.0	2.0	290.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0146.0	0146.0	1.0	130.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0348.0	0348.0	U	110.0			QL=2 ST=2 TYP=3
	500	HIRA	8	S	0405.0	0405.0	1.0	15.0			0
	200	HIRA	8	S	0407.0	0408.0	2.0	20.0			0
	204	IZMI	7	C	0555.4	0555.4	0.1	17.0			
	204	IZMI	42	SER	0619.4	0619.6	0.7	31.0			
	200	HIRA	8	S	0620.0	0620.0	1.0	10.0			0
	900	GORK	41	F	0805.6	0810.0	9.0	12.0			
	900	GORK	41	F	0805.6	0814.1		15.0			
	900	GORK	41	F	0805.6	0813.7		15.0			
	3000	IZMI	20	GRF	0811.5	0812.7	4.0	11.0	6.0		
	2950	GORK	1	S	0811.8E	0812.7	2.6D	3.8			
	204	IZMI	7	C	0932.0	0932.1	0.2	16.0			
	2950	GORK	40	F	1022.2	1022.6	1.0	25.0			
	900	GORK	46	C	1022.3	1022.7	0.7	25.0			
	3000	IZMI	7	C	1022.3	1022.7	0.6	23.0	7.0		
	127	TORN	4	S/F	1047.4	1048.4	1.3	100.0	30.0		
	127	TORN	8	S	1057.7	1057.9	0.9	90.0	10.0		UNCERTAIN
	6700	CUBA	22	GRF	1248.0	1350.0	235.0	13.0	6.0		30L
	9500	CUBA	2	S/F	1506.0	1511.2	13.0	12.0	6.0		
	245	PALE	8	S	1633.0	1634.0	1.0	54.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1633.0	1633.0	1.0	88.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1633.0	1633.0	1.0	96.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1702.0	1704.0	3.0	430.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1702.0	1703.0	3.0	290.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1702.0	1703.0	3.0	430.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1703.0	1704.0	1.0	140.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	1703.0	1704.0	1.0	62.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1703.0	1704.0	2.0	61.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1703.0	1703.0	4.0	150.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1703.0	1704.0	4.0	41.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1703.0	1703.0	4.0	76.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1703.0	1703.0	1.0	210.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1703.0	1703.0	1.0	47.0			QL=2 ST=2 TYP=3
	9500	CUBA	1	S	1703.0	1703.8	3.0	13.0	6.0		
	1415	PALE	8	S	1704.0	1704.0	U	23.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1704.0	1704.0	U	28.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1821.0	1822.0	6.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1821.0	1822.0	7.0	68.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1908.0	1911.0	21.0	19.0			
	245	SGMR	8	S	1910.0	1911.0	1.0	460.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1910.0	1911.0	1.0	250.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1910.0	1911.0	1.0	52.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1910.8	1911.1	2.2	11.0	5.0		87L
	245	PALE	49	GB	1911.0	1911.0	U	590.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	1911.0	1911.0	U	330.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1911.0	1911.0	U	54.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2023.0	2023.0	U	53.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	2024.0	2025.5	4.0	15.0	7.0		
	6700	CUBA	3	S	2024.0	2025.6	4.4	52.0	26.0		35L

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APRIL 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	2695	PALE	8	S	2025.0	2026.0	1.0	53.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2025.0	2025.0	1.0	51.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	2025.0	2025.0	1.0	64.0			QL=4 ST=2 TYP=3
	2800	PENT	40	F	2032.0	2040.0	36.0	232.0			
	6700	CUBA	46	C	2038.1	2042.0	6.7	366.0	183.0		11L
	9500	CUBA	47	GB	2038.2	2042.0	8.8	705.0	352.0		
	2800	HIRA	3	S	2039.0	2041.0		170.0			0
	500	HIRA	7	C	2039.0	2041.0	7.0	285.0			WL
	200	HIRA	47	GB	2039.0	2045.0	8.0	1825.0			WL
	8800	PALE	49	GB	2039.0	2042.0	6.0	720.0			QL=4 ST=2 TYP=6
	610	PALE	4	S/F	2039.0	2040.0	4.0	430.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2039.0	2040.0	6.0	270.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	2039.0	2042.0	6.0	480.0			QL=4 ST=2 TYP=3
	4995	SGMR	49	GB	2039.0	2042.0	8.0	520.0			QL=4 ST=2 TYP=6
	8800	SGMR	49	GB	2039.0	2042.0	8.0	680.0			QL=4 ST=2 TYP=6
	610	SGMR	4	S/F	2039.0	2040.0	6.0	410.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	2039.0	2040.0	8.0	160.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2039.0	2040.0	8.0	200.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2040.0	2042.0	6.0	5700.0			QL=4 ST=2 TYP=6
	410	PALE	4	S/F	2040.0	2040.0	4.0	480.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	2040.0	2040.0	3.0	160.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	2040.0	2042.0	5.0	390.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	2040.0	2042.0	7.0	3700.0			QL=4 ST=2 TYP=6
	410	SGMR	4	S/F	2040.0	2040.0	7.0	350.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	2040.0	2042.0	7.0	410.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	2119.0	2122.0	5.0	5.0			
	2800	PENT	29	PBI	2141.0	2147.0	50.0U	21.0			
	6700	CUBA	2	S/F	2145.5	2147.5	4.8	29.0	14.0		46L
	9500	CUBA	1	S	2146.0	2147.2	5.0	25.0	12.0		
	500	HIRA	7	C	2155.0	2158.0	5.0	20.0			WL
	200	HIRA	8	S	2157.0	2159.0	2.0	75.0			0
	245	SGMR	8	S	2158.0	2158.0	U	82.0			QL=4 ST=2 TYP=3
23	245	LEAR	43	NS	0520.0	0731.0	269.0	130.0			QL=2 ST=2 TYP=1
	204	IZMI	43	NS	0600.0		360.0D		115.0		
	127	TORN	43	NS	0700.0		480.0		270.0		V=1
	245	SGMR	43	NS	1125.0	1221.0	687.0	150.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1400.0E		470.0D		27.0		
	280	CUBA	44	NS	1400.0E		470.0D		41.0		
	245	PALE	43	NS	1730.0	1740.0	390.0	79.0			QL=4 ST=1 TYP=1
	2800	HIRA	3	S	0121.0	0123.0	8.0	80.0			0
	2695	LEAR	4	S/F	0122.0	0123.0	5.0	53.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0122.0	0123.0	5.0	100.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0123.0	0123.0	4.0	48.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0124.0	0125.0	3.0	460.0			MR
	245	LEAR	4	S/F	0124.0	0125.0	3.0	420.0			QL=2 ST=2 TYP=3
	15400	LEAR	4	S/F	0124.0	0124.0	3.0	31.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0125.0	0125.0	2.0	200.0			0
	410	LEAR	8	S	0125.0	0125.0	1.0	290.0			QL=2 ST=2 TYP=3
	610	LEAR	8	S	0125.0	0125.0	1.0	70.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0125.0	0125.0	1.0	12.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0438.0	0439.0	2.0	250.0			QL=2 ST=2 TYP=3
	2695	LEAR	8	S	0438.0	0439.0	2.0	59.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0438.0	0439.0	3.0	110.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0438.0	0439.0	2.0	55.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0438.0	0439.0	6.0	250.0			QL=2 ST=2 TYP=3
	4995	SVTO	4	S/F	0438.0	0439.0	3.0	91.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0439.0	0439.0	2.0	53.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0439.0	0439.0	U	30.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0439.0	0439.0	1.0	43.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0447.0	0447.0	1.0	66.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0447.0	0447.0	U	22.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0451.0	0451.0	1.0	55.0			QL=4 ST=2 TYP=3
	9100	GORK	4	S/F	0532.3	0532.8	0.7	19.0			
	2950	GORK	21	GRF	0615.0	0649.7	56.0	11.0			
	2950	GORK	3	S	0647.6	0648.7	2.8	19.0			
	3000	IZMI	20	GRF	0647.7	0648.6	2.4	26.0	13.0		
	410	SVTO	8	S	0653.0	0653.0	U	75.0			QL=4 ST=2 TYP=3
	9100	GORK	21	GRF	1007.5	1018.7	40.0	45.0			

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 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	410	SVTO	4	S/F	1008.0	1009.0	3.0	110.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1008.0	1009.0	3.0	38.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1008.0	1009.0	3.0	120.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1008.0	1009.0	3.0	66.0			QL=4 ST=2 TYP=3
	2950	GORK	46	C	1008.0	1015.3		110.0			
	2950	GORK	46	C	1008.0	1009.5	22.0	63.0			
	2950	GORK	46	C	1008.0	1018.6		31.0			
	3000	IZMI	45	C	1008.9	1009.5	2.0	54.0	20.0		
	610	SVTO	8	S	1009.0	1009.0	1.0	200.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1009.0	1009.0	2.0	43.0			QL=4 ST=2 TYP=3
	900	GORK	42	SER	1009.0	1015.5		145.0			
	900	GORK	42	SER	1009.0	1009.9	9.0	130.0			
	9100	GORK	8	S	1009.7	1009.8	0.3	34.0			
	3000	IZMI	45	C	1011.5	1015.2	12.3	107.0	21.0		
	410	SVTO	4	S/F	1013.0	1014.0	3.0	130.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1013.0	1016.0	8.0	300.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1014.0	1015.0	2.0	74.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1014.0	1015.0	2.0	66.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	1014.0	1014.0	4.0	350.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1014.0	1016.0	7.0	230.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1014.0	1016.0	6.0	110.0			QL=4 ST=2 TYP=3
	9100	GORK	46	C	1014.3	1016.1	3.3	163.0			
	9100	GORK	46	C	1014.3	1015.6		110.0			
	9100	GORK	46	C	1014.3	1014.8	3.3	110.0			
	2950	GORK	1	S	1054.0	1054.2	1.0	8.2			
	245	SGMR	48	C	1158.0	1158.0	1.0	490.0			QL=4 ST=3 TYP=8
	410	SGMR	8	S	1158.0	1158.0	1.0	290.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	1158.0	1158.0	U	490.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1158.0	1158.0	U	460.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	1158.4	1158.6	0.5	678.0			
	410	SGMR	8	S	1220.0	1221.0	2.0	85.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1220.0	1221.0	4.0	370.0			QL=2 ST=2 TYP=3
	410	SVTO	4	S/F	1220.0	1221.0	4.0	100.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1221.0	1221.0	1.0	400.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	1221.0	1222.0	3.0	190.0			QL=2 ST=2 TYP=3
	33	UPIC	46	C	1221.0	1221.5	2.0				
	9500	CUBA	1	S	1253.0	1253.1	0.8	20.0	10.0		
	410	SGMR	8	S	1307.0	1307.0	2.0	76.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1307.0	1307.0	1.0	87.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1334.0	1335.0	1.0	170.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	1335.0	1335.0	U	54.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1335.0	1335.0	U	220.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1335.0	1335.0	U	100.0			QL=2 ST=2 TYP=3
	2800	PENT	41	F	1513.0	1529.0	22.0	27.0			
	9500	CUBA	2	S/F	1528.4	1529.5	2.6	17.0	8.0		
	6700	CUBA	1	S	1528.5	1529.6	3.3	25.0	12.0		42L
	2800	PENT	24	R	1734.0	1741.0	37.0	4.0			
	6700	CUBA	21	GRF	1946.0	2129.0	110.0D	53.0	26.0		4L SUNSET
	2695	PALE	4	S/F	2020.0	2022.0	8.0	79.0			QL=4 ST=3 TYP=3
	4995	PALE	4	S/F	2020.0	2022.0	8.0	110.0			QL=4 ST=3 TYP=3
	8800	PALE	4	S/F	2020.0	2022.0	8.0	140.0			QL=4 ST=3 TYP=3
	15400	PALE	4	S/F	2020.0	2021.0	8.0	50.0			QL=4 ST=3 TYP=3
	9500	CUBA	21	GRF	2020.0	2029.0	47.0	34.0	17.0		
	6700	CUBA	2	S/F	2020.0	2022.3	6.2	93.0	46.0		11L
	9500	CUBA	2	S/F	2021.0	2022.0	5.0	60.0	30.0		
	2695	SGMR	4	S/F	2021.0	2022.0	45.0	68.0			QL=4 ST=3 TYP=3
	4995	SGMR	4	S/F	2021.0	2022.0	59.0	110.0			QL=4 ST=3 TYP=3
	8800	SGMR	4	S/F	2021.0	2022.0	59.0	82.0			QL=4 ST=3 TYP=3
	15400	SGMR	4	S/F	2021.0	2041.0	59.0	50.0			QL=4 ST=3 TYP=3
	410	PALE	8	S	2029.0	2030.0	1.0	70.0			QL=4 ST=3 TYP=3
	2800	PENT	29	PBI	2329.0	2337.0	43.0	17.0			
	4995	PALE	8	S	2337.0	2337.0	1.0	52.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2337.0	2337.0	U	94.0			QL=4 ST=2 TYP=3
24	245	LEAR	43	NS	0105.0	0445.0	523.0	320.0			QL=2 ST=2 TYP=1
	245	SVTO	43	NS	0418.0	0451.0U	1182.0	220.0			QL=2 ST=1 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		140.0		
	127	TORN	44	NS	0630.0E		510.0D		530.0		V=1
	33	UPIC	43	NS	0832.0	0954.5U	259.0				

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 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	245	SGMR	43	NS	1022.0	1638.0U	690.0	190.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1700.0E		290.0D		53.0		
	280	CUBA	44	NS	1700.0E		290.0D		54.0		
	245	PALE	43	NS	1744.0	0306.0	653.0	300.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2256.0	2311.0	651.0	100.0			QL=2 ST=2 TYP=1
	2800	PENT	29	PBI	0015.0	0019.0	59.0	67.0			
	4995	LEAR	8	S	0018.0	0019.0	2.0	89.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0018.0	0019.0	2.0	98.0			QL=4 ST=2 TYP=3
	2800	HIRA	3	S	0019.0	0019.0	3.0	55.0			0
	2695	LEAR	8	S	0019.0	0019.0	U	57.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0019.0	0019.0	U	53.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0019.0	0019.0	1.0	59.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0019.0	0019.0	1.0	85.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0218.0	0218.0	1.0	90.0			0
	610	SVTO	48	C	0528.0	0537.0	15.0	170.0			QL=2 ST=2 TYP=8
	900	GORK	46	C	0534.7	0538.0		145.0			
	900	GORK	46	C	0534.7	0536.6	11.5	31.0			
	900	GORK	46	C	0534.7	0540.9		45.0			
	610	LEAR	48	C	0535.0	0537.0	3.0	120.0			QL=4 ST=2 TYP=8
	4995	LEAR	48	C	0535.0	0540.0	8.0	250.0			QL=4 ST=2 TYP=8
	410	SVTO	4	S/F	0535.0	0537.0	5.0	280.0			QL=4 ST=2 TYP=3
	2800	HIRA	4	S/F	0535.0	0541.0	13.0	90.0			0
	500	HIRA	7	C	0535.0	0536.0	10.0	300.0			0
	4995	SVTO	48	C	0535.0	0541.0	10.0	230.0			QL=4 ST=2 TYP=8
	2950	GORK	46	C	0535.0	0537.1	14.1	40.0			
	2950	GORK	46	C	0535.0	0538.4		84.0			
	2950	GORK	46	C	0535.0	0541.6		100.0			
	2950	GORK	46	C	0535.0	0540.8		110.0			
	9100	GORK	46	C	0535.5	0540.9	21.5	250.0			
	2695	LEAR	48	C	0536.0	0540.0	7.0	100.0			QL=4 ST=2 TYP=8
	245	LEAR	49	GB	0536.0	0536.0	U	610.0			QL=2 ST=3 TYP=6
	8800	LEAR	4	S/F	0536.0	0540.0	7.0	270.0			QL=4 ST=2 TYP=3
	2695	SVTO	48	C	0536.0	0540.0	7.0	96.0			QL=4 ST=2 TYP=8
	245	SVTO	49	GB	0536.0	0536.0	U	800.0			QL=2 ST=2 TYP=6
	1415	SVTO	8	S	0536.0	0537.0	2.0	34.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0536.0	0540.0	9.0	300.0			QL=4 ST=2 TYP=3
	200	HIRA	47	GB	0536.0	0540.0	10.0	1220.0			SR
	410	LEAR	8	S	0537.0	0537.0	U	210.0			QL=2 ST=2 TYP=3
	15400	SVTO	4	S/F	0538.0	0540.0	8.0	110.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0539.0	0540.0	4.0	110.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0540.0	0540.0	1.0	38.0			QL=4 ST=2 TYP=3
	900	GORK	41	F	0649.9	0702.3		11.0			
	900	GORK	41	F	0649.9	0701.7		11.0			
	900	GORK	41	F	0649.9	0658.8		65.0			
	900	GORK	41	F	0649.9	0652.9	16.0	17.0			
	4995	LEAR	8	S	0656.0	0657.0	2.0	140.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0656.0	0657.0	2.0	62.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0656.0	0658.0	3.0	140.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0656.0	0657.0	2.0	74.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0656.0	0657.0	3.0	120.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0656.0	0657.0	6.0	140.0			QL=4 ST=2 TYP=3
	2800	HIRA	3	S	0656.0	0658.0	10.0	110.0			0
	2950	GORK	3	S	0656.0	0657.8	3.0	135.0			
	3000	IZMI	45	C	0656.0	0657.8	4.1	143.0	45.0		
	9100	GORK	4	S/F	0656.1	0657.2	2.3	65.0			
	15400	LEAR	8	S	0657.0	0657.0	U	27.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0657.0	0658.0	1.0	27.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0657.0	0657.0	U	32.0			QL=4 ST=2 TYP=3
	9100	GORK	29	PBI	0658.4	0658.4	10.6	18.0			
	2950	GORK	29	PBI	0659.0	0659.0	8.0	26.0			
	204	IZMI	42	SER	0816.5	0817.2	0.8	258.0			
	8800	SVTO	8	S	1241.0	1241.0	2.0	53.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1241.0	1241.0	1.0	49.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1243.0	1246.0	6.0	36.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1244.0	1246.0	5.0	58.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1244.0	1245.0	3.0	36.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1244.0	1246.0	3.0	62.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1246.0	1246.0	1.0	34.0			QL=4 ST=2 TYP=3
	127	TORN	27	RF	1247.0U		133.0D		1800.0		

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 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	9500	CUBA	20	GRF	1249.0E	1249.0	109.0D	61.0	30.0		
	6700	CUBA	20	GRF	1257.0E	1257.0	36.0D	18.0	9.0		18R
	2800	PENT	29	PBI	1759.0	1810.0	93.0U	20.0			
	6700	CUBA	21	GRF	1807.0	1812.0	217.0D	23.0	11.0		6R SUNSET
	9500	CUBA	1	S	1809.0	1810.9	5.0	70.0	35.0		
	6700	CUBA	1	S	1809.5	1810.8	1.5	66.0	33.0		8R
	4995	SGMR	4	S/F	1810.0	1810.0	3.0	58.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1810.0	1810.0	3.0	66.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1810.0	1810.0	3.0	52.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1958.0	2000.0	4.0	7.0			
	6700	CUBA	1	S	2022.5	2023.1	3.3	15.0	7.0		6R
	2800	PENT	20	GRF	2057.0	2120.0	35.0	13.0			
	2800	PENT	40	F	2208.0	2222.0	23.0U	140.0			
	2800	HIRA	3	S	2220.0	2222.0	8.0	120.0			0
	500	HIRA	8	S	2220.0	2222.0	7.0	350.0			0
	200	HIRA	7	C	2220.0	2225.0	5.0	340.0			MR
	245	PALE	49	GB	2220.0	2220.0	6.0	2400.0			QL=4 ST=2 TYP=6
	410	PALE	49	GB	2220.0	2222.0	6.0	1400.0			QL=4 ST=2 TYP=6
	610	PALE	49	GB	2220.0	2222.0	6.0	780.0			QL=4 ST=2 TYP=6
	8800	PALE	49	GB	2220.0	2222.0	4.0	930.0			QL=4 ST=2 TYP=6
	4995	PALE	4	S/F	2220.0	2222.0	6.0	380.0			QL=4 ST=2 TYP=3
	1415	PALE	49	GB	2221.0	2222.0	5.0	700.0			QL=4 ST=2 TYP=6
	2695	PALE	4	S/F	2221.0	2222.0	5.0	130.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	2221.0	2222.0	5.0	490.0			QL=4 ST=2 TYP=3
	2800	HIRA	4	S/F	2242.0	2246.0	7.0	65.0			0
	500	HIRA	4	S/F	2244.0	2246.0	3.0	10.0			0
	2695	PALE	8	S	2244.0	2246.0	2.0	72.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	2244.0	2246.0	3.0	88.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2246.0	2246.0	U	49.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	2340.0	2352.0	96.0	36.0			
	8800	LEAR	4	S/F	2349.0	2352.0	5.0	110.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	2350.0	2352.0	3.0	89.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2350.0	2352.0	2.0	80.0			QL=4 ST=3 TYP=3
	8800	PALE	8	S	2350.0	2352.0	2.0	84.0			QL=4 ST=3 TYP=3
	2695	LEAR	8	S	2351.0	2352.0	1.0	38.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	2351.0	2352.0	1.0	29.0			QL=4 ST=2 TYP=3
25	204	IZMI	44	NS	0600.0E		360.0D		70.0		
	127	TORN	43	NS	0730.0		450.0		350.0		V=2
	235	CUBA	44	NS	1300.0E		530.0D		16.0		
	280	CUBA	44	NS	1300.0E		530.0D		22.0		
	200	HIRA	8	S	0124.0	0124.0	1.0	175.0			MR
	200	HIRA	8	S	0533.0	0533.0	1.0	50.0			WR
	500	HIRA	8	S	0619.0	0619.0	1.0	20.0			0
	204	IZMI	42	SER	0624.6	0626.7	2.8	81.0			
	3000	IZMI	22	GRF	0805.8	0823.8	37.7	10.0	2.0		
	245	LEAR	4	S/F	0935.0	0937.0	3.0	45.0			QL=2 ST=2 TYP=3
	1415	LEAR	4	S/F	0935.0	0937.0	3.0	76.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0936.0	0936.0	1.0	260.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0936.0	0936.0	2.0	260.0			QL=2 ST=2 TYP=3
	610	LEAR	8	S	0936.0	0937.0	2.0	75.0			QL=4 ST=2 TYP=3
	8800	SVTO	48	C	0936.0	0937.0	1.0	54.0			QL=4 ST=2 TYP=8
	410	SVTO	49	GB	0936.0	0936.0	1.0	860.0			QL=4 ST=2 TYP=6
	1415	SVTO	8	S	0936.0	0937.0	2.0	83.0			QL=4 ST=3 TYP=3
	900	GORK	46	C	0936.2	0937.3		54.0			
	3000	IZMI	7	C	0936.2	0937.3	1.9	17.0	1.0		
	2950	GORK	45	C	0936.2	0937.4	1.4	5.5U			
	2950	GORK	45	C	0936.2	0936.8	1.4	8.2U			
	900	GORK	46	C	0936.2	0936.8	2.8	33.0			
	9100	GORK	46	C	0936.4	0937.2		60.0			
	9100	GORK	46	C	0936.4	0936.9	2.0	50.0			
	610	LEAR	8	S	0937.0	0937.0	U	67.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0937.0	0937.0	U	130.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0937.0	0937.0	U	35.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0937.5	0937.7	1.2	206.0			
	9100	GORK	30	PBI	0938.4	0938.4	13.2	14.0			
	9100	GORK	8	S	0951.2	0951.3	0.3	110.0			
	410	SGMR	8	S	1114.0	1114.0	U	270.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1114.0	1114.0	U	380.0			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

APRIL 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	204	IZMI	42	SER	1134.3	1135.0	0.9	248.0			
	245	SGMR	8	S	1135.0	1135.0	U	130.0			QL=4 ST=3 TYP=3
	410	SGMR	8	S	1144.0	1144.0	1.0	58.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1213.0	1214.0	1.0	91.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1226.0	1227.0	2.0	170.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1227.0	1227.0	1.0	510.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	1227.0	1227.0	1.0	550.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	1227.0	1227.0	1.0	230.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1246.0	1247.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1247.0	1247.0	1.0	150.0			QL=4 ST=2 TYP=3
	6700	CUBA	31	ABS	1312.0	1335.0	30.0	7.0	3.0		11L
	410	SVTO	49	GB	1342.0	1343.0	7.0	620.0			QL=4 ST=2 TYP=6
	1415	SVTO	49	GB	1342.0	1343.0	4.0	1300.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	1342.0	1343.0	11.0	540.0			QL=4 ST=2 TYP=6
	610	SGMR	49	GB	1342.0	1343.0	17.0	730.0			QL=4 ST=2 TYP=6
	1415	SGMR	49	GB	1342.0	1343.0	12.0	1900.0			QL=4 ST=2 TYP=6
	8800	SGMR	49	GB	1342.0	1345.0	17.0	610.0			QL=4 ST=2 TYP=6
	4995	SVTO	20	GRF	1342.0	1345.0	17.0	420.0			QL=4 ST=2 TYP=2
	2695	SVTO	4	S/F	1342.0	1344.0	14.0	200.0			QL=4 ST=2 TYP=3
	8800	SVTO	49	GB	1342.0	1345.0	20.0	640.0			QL=4 ST=2 TYP=6
	6700	CUBA	47	GB	1342.0	1345.2	13.2	1197.0	598.0		4L
	235	CUBA	41	F	1342.4	1345.1	7.6	309.0			
	280	CUBA	41	F	1342.4	1345.1	7.6	1722.0			
	610	SVTO	49	GB	1343.0	1343.0	1.0	580.0			QL=4 ST=2 TYP=6
	245	SVTO	8	S	1343.0	1343.0	1.0	180.0			QL=2 ST=3 TYP=3
	33	UPIC	46	C	1343.0	1344.0	5.0				
	245	SGMR	48	C	1343.0	1349.0	16.0	820.0			QL=4 ST=2 TYP=8
	15400	SGMR	49	GB	1343.0	1343.0	16.0	550.0			QL=4 ST=2 TYP=6
	4995	SGMR	20	GRF	1343.0	1345.0	16.0	460.0			QL=4 ST=2 TYP=2
	2695	SGMR	4	S/F	1343.0	1344.0	14.0	180.0			QL=4 ST=2 TYP=3
	15400	SVTO	49	GB	1343.0	1343.0	15.0	520.0			QL=4 ST=2 TYP=6
	33	UPIC	31	ABS	1348.0E	1348.0U	42.0D				
	6700	CUBA	29	PBI	1355.2		28.0	133.0	66.0		7L
	2800	PENT	29	PBI	1525.0	1537.0	67.0	11.0			
	245	SVTO	8	S	1640.0	1641.0	1.0	54.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1649.0	1649.0	1.0	110.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1815.0	1826.0	77.0U	59.0			
	2695	SGMR	4	S/F	1825.0	1826.0	3.0	53.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1826.0	1826.0	2.0	51.0			QL=4 ST=2 TYP=3
26	245	LEAR	43	NS	0059.0	0433.0	528.0	190.0			QL=2 ST=2 TYP=1
	245	PALE	43	NS	0059.0	0000.0	1381.0				QL=4 ST=1 TYP=1
	245	PALE	43	NS	0104.0	0115.0	214.0	180.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0433.0	1133.0	429.0	290.0			QL=2 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		55.0		
	127	TORN	44	NS	0630.0E		510.0D		670.0U		V=0,DISTURBED
	245	SGMR	43	NS	1026.0	1137.0	101.0	300.0			QL=4 ST=2 TYP=1
	410	SVTO	43	NS	1126.0	1130.0	10.0	90.0			QL=2 ST=2 TYP=1
	235	CUBA	44	NS	1300.0E		530.0D		19.0		
	280	CUBA	44	NS	1300.0E		530.0D		19.0		
	500	HIRA	8	S	0043.0	0043.0	1.0	15.0			0
	2800	PENT	29	PBI	0057.0	0103.0	37.0U	20.0			
	4995	LEAR	4	S/F	0101.0	0103.0	8.0	60.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0102.0	0105.0	7.0	21.0			QL=4 ST=2 TYP=3
	200	HIRA	7	C	0430.0	0434.0	7.0	285.0			WR
	2950	GORK	21	GRF	0607.5	0632.8	61.5	20.0			
	3000	IZMI	7	C	0619.0	0630.0	27.0	39.0			
	2950	GORK	1	S	0620.0	0620.6	1.0	5.4			
	2950	GORK	45	C	0630.6	0631.0	1.7	9.5			
	2950	GORK	45	C	0630.6	0631.7		8.1			
	2950	GORK	20	GRF	0751.0	0827.3	78.0D	14.0			
	410	SVTO	8	S	1118.0	1118.0	1.0	67.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1123.0	1124.0	1.0	64.0			QL=4 ST=2 TYP=3
	1415	SVTO	48	C	1123.0	1130.0	8.0	1500.0			QL=4 ST=2 TYP=8
	1415	SGMR	49	GB	1125.0	1130.0	7.0	1400.0			QL=4 ST=2 TYP=6
	3000	IZMI	7	C	1126.0	1129.0	5.0	19.0			
	8800	SGMR	20	GRF	1140.0E	1218.0	168.0D	54.0			QL=4 ST=3 TYP=2
	1415	SGMR	4	S/F	1141.0	1142.0	3.0	160.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1141.0	1142.0	2.0	190.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 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	245	SGMR	8	S	1142.0	1142.0	2.0	370.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1142.0	1142.0	1.0	320.0			QL=4 ST=2 TYP=3
	33	UPIC	49	GB	1156.0	1159.0	114.0				
	410	SGMR	8	S	1232.0	1232.0	U	52.0			QL=4 ST=2 TYP=3
	8800	SGMR	48	C	1233.0	1307.0	34.0	130.0			QL=4 ST=3 TYP=8
	410	SVTO	4	S/F	1236.0	1238.0	19.0	290.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1236.0	1238.0	17.0	110.0			QL=4 ST=2 TYP=3
	1415	SGMR	48	C	1236.0	1307.0	31.0	110.0			QL=4 ST=3 TYP=8
	4995	SGMR	48	C	1236.0	1307.0	31.0	98.0			QL=4 ST=3 TYP=8
	610	SGMR	4	S/F	1236.0	1238.0	31.0	360.0			QL=4 ST=3 TYP=3
	245	SVTO	4	S/F	1237.0	1241.0	20.0	120.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	1237.0	1238.0	20.0	420.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1237.0	1240.0	20.0	53.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1237.0	1240.0	20.0	37.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1237.0	1239.0	20.0	43.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1237.0	1307.0	30.0	340.0			QL=4 ST=3 TYP=8
	410	SGMR	48	C	1237.0	1238.0	30.0	210.0			QL=4 ST=3 TYP=8
	2695	SGMR	48	C	1237.0	1307.0	30.0	66.0			QL=4 ST=3 TYP=8
	15400	SGMR	4	S/F	1237.0	1238.0	30.0	38.0			QL=4 ST=3 TYP=3
	4995	SVTO	4	S/F	1238.0	1239.0	19.0	35.0			QL=4 ST=2 TYP=3
	6700	CUBA	21	GRF	1252.0	1321.0	42.0	25.0	12.0		4L
	1415	SVTO	8	S	1303.0	1303.0	U	57.0			QL=4 ST=2 TYP=3
	6700	CUBA	47	GB	1305.2	1310.2	6.8	1312.0	656.0		8L
	8800	SVTO	49	GB	1306.0	1310.0	17.0	820.0			QL=4 ST=2 TYP=6
	4995	SVTO	4	S/F	1306.0	1309.0	17.0	470.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	1307.0	1308.0	5.0	1300.0			QL=4 ST=2 TYP=6
	1415	SVTO	49	GB	1307.0	1308.0	4.0	2600.0			QL=4 ST=2 TYP=6
	245	SVTO	48	C	1307.0	1311.0	16.0	1700.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	1307.0	1307.0	10.0	360.0			QL=4 ST=2 TYP=8
	15400	SVTO	49	GB	1307.0	1310.0	16.0	600.0			QL=4 ST=2 TYP=6
	2695	SGMR	48	C	1307.0	1307.0	26.0	350.0			QL=4 ST=2 TYP=8
	245	SGMR	49	GB	1307.0	1307.0	26.0	1500.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	1307.0	1308.0	26.0	790.0			QL=4 ST=2 TYP=6
	1415	SGMR	49	GB	1307.0	1308.0	26.0	2700.0			QL=4 ST=2 TYP=6
	4995	SGMR	49	GB	1307.0	1309.0	26.0	540.0			QL=4 ST=2 TYP=6
	8800	SGMR	49	GB	1307.0	1310.0	26.0	910.0			QL=4 ST=2 TYP=6
	15400	SGMR	49	GB	1307.0	1310.0	26.0	610.0			QL=4 ST=2 TYP=6
	610	SGMR	4	S/F	1307.0	1310.0	26.0	420.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1325.0	1326.0	1.0	62.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1326.0	1326.0	U	90.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1329.0	1330.0	2.0	120.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	1342.0	1344.0	8.0	120.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1343.0	1343.0	4.0	64.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1343.0	1346.0	14.0	60.0			QL=4 ST=2 TYP=8
	410	SGMR	4	S/F	1343.0	1344.0	14.0	100.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1345.0	1346.0	12.0	47.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1356.0	1403.0	8.0	71.0			QL=4 ST=3 TYP=8
	410	SGMR	48	C	1356.0	1400.0	8.0	130.0			QL=4 ST=3 TYP=8
	245	SVTO	20	GRF	1357.0	1403.0	13.0	66.0			QL=4 ST=2 TYP=2
	410	SVTO	4	S/F	1357.0	1400.0	13.0	160.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1909.0	1909.0	U	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1909.0	1909.0	U	99.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2300.0	2301.0	1.0	150.0			QL=4 ST=2 TYP=3
27	204	IZMI	44	NS	0600.0E		370.0D		30.0		
	127	TORN	44	NS	0700.0E		480.0D		100.0		V=1,DISTURBED
	410	PALE	8	S	0215.0	0216.0	1.0	140.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0607.4	0607.6	0.4	38.0			
	900	GORK	40	F	0627.4	0627.8	1.2	34.0			
	500	HIRA	8	S	0655.0	0656.0	1.0	10.0			0
	245	SVTO	49	GB	0655.0	0656.0	2.0	3000.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	0655.0	0655.0	1.0	43.0			QL=4 ST=2 TYP=3
	9100	GORK	46	C	0655.7	0657.1		26.0			
	9100	GORK	46	C	0655.7	0657.6		28.0			
	9100	GORK	46	C	0655.7	0656.7	2.9	20.0			
	200	HIRA	47	GB	0656.0	0656.0	1.0	1615.0			WR
	4995	SVTO	8	S	0656.0	0657.0	2.0	37.0			QL=4 ST=2 TYP=3
	2950	GORK	1	S	0656.0	0658.3	4.0	6.4			
	3000	IZMI	20	GRF	0656.1	0658.5	4.4	12.0	6.0		

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

APRIL 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	204	IZMI	45	C	0656.5	0656.8	1.3	8506.0			
	900	GORK	1	S	0656.6	0657.4	1.1	4.5			
	8800	SVTO	8	S	0657.0	0657.0	U	28.0			QL=4 ST=2 TYP=3
	3000	IZMI	7	C	0707.2	0707.4	0.6	11.0	6.0		
	204	IZMI	42	SER	0821.9	0822.2	0.6	97.0			
	200	HIRA	8	S	0822.0	0822.0	1.0	25.0			0
	200	HIRA	8	S	0859.0	0859.0	1.0	40.0			WR
	204	IZMI	25	R	1153.1		16.9D		30.0		
	204	IZMI	41	F	1153.4	1155.4	33.1	39.0			
	204	IZMI	45	C	1159.1	1159.3	0.6	98.0			
	245	SGMR	8	S	1720.0	1720.0	U	89.0			QL=4 ST=2 TYP=3
	2800	PENT	20	GRF	1751.0	1806.0	30.0	5.0			
	6700	CUBA	21	GRF	1810.0	1917.0	107.0	34.0	17.0		2R
	245	PALE	8	S	1818.0	1818.0	U	92.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1818.0	1818.0	U	67.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1857.0	1857.0	U	140.0			QL=4 ST=2 TYP=3
	2800	PENT	21	GRF	1905.0	1918.0	27.0U	4.0			
	9500	CUBA	22	GRF	1907.0	1918.0	41.0	30.0	15.0		
	6700	CUBA	1	S	1913.2	1913.8	0.8	11.0	5.0		13R
	9500	CUBA	1	S	1938.5	1939.1	1.5	11.0	5.0		
	200	HIRA	8	S	2001.0	2002.0	2.0	435.0			WR
	245	PALE	49	GB	2001.0	2001.0	1.0	1300.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	2001.0	2001.0	1.0	1100.0			QL=4 ST=2 TYP=6
	2800	PENT	41	F	2035.0	2041.0	19.0	10.0			
	6700	CUBA	1	S	2038.8	2039.2	1.2	11.0	5.0		17R
	500	HIRA	8	S	2117.0	2118.0	1.0	15.0			0
	2800	PENT	24	R	2125.0	2135.0	35.0	7.0			
	245	PALE	8	S	2126.0	2127.0	1.0	200.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2129.0	2129.0	1.0	84.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2315.0	2316.0	1.0	20.0			0
28	280	CUBA	44	NS	1300.0E		300.0D		14.0		
	235	CUBA	44	NS	1300.0E		530.0D		6.0		
	500	HIRA	8	S	0310.0	0310.0	1.0	50.0			0
	200	HIRA	8	S	0310.0	0310.0	1.0	10.0			0
	2950	GORK	20	GRF	0652.2	0656.2	10.1	8.0			
	8800	LEAR	8	S	0655.0	0656.0	2.0	31.0			QL=4 ST=2 TYP=3
	3000	IZMI	22	GRF	0655.1	0656.9	6.3	11.0	5.0		
	3000	IZMI	5	S	0700.2	0700.3	0.2	21.0	7.0		
	204	IZMI	42	SER	0718.9	0719.2	0.4	14.0			
	2950	GORK	21	GRF	0907.6	0921.9	47.8	32.0			
	3000	IZMI	45	C	0910.1	0919.6	76.1	49.0	7.0		
	204	IZMI	7	C	0913.7	0913.8	0.2	30.0			
	900	GORK	42	SER	0916.5	0926.1		8.9			
	900	GORK	42	SER	0916.5	0917.5	27.2	14.0			
	2950	GORK	4	S/F	0917.4	0919.6	3.8	20.0			
	2695	SVTO	8	S	0919.0	0919.0	1.0	32.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0922.0	0922.0	U	23.0			QL=4 ST=2 TYP=3
	2950	GORK	1	S	0929.8	0931.1	3.2	9.4			
	2695	LEAR	4	S/F	0931.0	0932.0	4.0	33.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0932.0	0933.0	3.0	29.0			QL=4 ST=2 TYP=3
	2800	PENT	21	GRF	1543.0	1613.0	49.0	9.0			
	245	SGMR	8	S	1755.0	1755.0	U	88.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1915.0	1916.0	1.0	66.0			QL=4 ST=2 TYP=3
29	235	CUBA	44	NS	1300.0E		390.0D		10.0		
	280	CUBA	44	NS	1300.0E		390.0D		17.0		
	200	HIRA	8	S	0029.0	0029.0	1.0	100.0			0
	200	HIRA	8	S	0259.0	0259.0	1.0	10.0			0
	200	HIRA	8	S	0519.0	0519.0	1.0	15.0			
	204	IZMI	7	C	0649.5	0649.6	0.4	20.0			
	200	HIRA	8	S	0650.0	0650.0	1.0	5.0			
	410	LEAR	8	S	0654.0	0655.0	1.0	62.0			QL=2 ST=2 TYP=3
	204	IZMI	42	SER	0719.0	0720.6	2.8	21.0			
	204	IZMI	42	SER	0847.3	0847.4	0.4	10.0			
	204	IZMI	42	SER	1015.6	1031.8	18.2	23.0			
	2800	PENT	32	ABS	1451.0	1505.0	36.0	5.0			
	200	HIRA	8	S	2054.0	2055.0	1.0	5.0			0
	200	HIRA	8	S	2101.0	2101.0	1.0	20.0			0

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 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	204	IZMI	43	NS	0600.0		360.0D		10.0		
	245	SGMR	8	S	1036.0	1037.0	1.0	160.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1036.0	1037.0	1.0	180.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1036.7	1037.0	0.6	139.0			
	204	IZMI	45	C	1039.8	1039.9	0.2	368.0			
	204	IZMI	46	C	1057.6	1058.2	0.9	172.0			
	410	SGMR	8	S	1100.0	1100.0	U	90.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1100.0	1100.0	U	90.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1127.0	1127.0	1.0	250.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1127.0	1127.0	2.0	270.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1127.0	1127.0	2.0	28.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1156.0	1156.0	1.0	33.0			QL=4 ST=3 TYP=3
	410	SVTO	4	S/F	1156.0	1157.0	3.0	490.0			QL=4 ST=3 TYP=3
	3000	IZMI	7	C	1156.6	1156.8	1.5	10.0	5.0		
	410	SGMR	8	S	1157.0	1157.0	1.0	200.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1400.0	1400.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1414.0	1414.0	1.0	12000.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	1414.0	1414.0	1.0	220.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1414.0	1414.0	1.0	13000.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	1414.0	1414.0	1.0	390.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1619.0	1620.0	2.0	410.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1619.0	1620.0	2.0	37.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1619.0	1620.0	1.0	370.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1754.0	1754.0	U	59.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1754.0	1754.0	U	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1754.0	1754.0	1.0	81.0			QL=4 ST=3 TYP=3
	410	SGMR	8	S	1754.0	1754.0	1.0	120.0			QL=4 ST=3 TYP=3
	245	PALE	8	S	1909.0	1909.0	U	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1909.0	1909.0	1.0	240.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1913.0	1913.0	1.0	61.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	2111.0	2111.0	1.0	25.0			0
	200	HIRA	8	S	2111.0	2112.0	1.0	95.0			0
	245	PALE	49	GB	2211.0	2211.0	1.0	1100.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	2211.0	2211.0	1.0	390.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	2211.0	2211.0	1.0	790.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	2211.0	2211.0	1.0	270.0			QL=4 ST=2 TYP=3

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.