SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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	610	PALE	43	NS	0015.0	0016.0	1425.0	100.0			QL=4 ST=1 TYP=1
	410	PALE	43	NS	0015.0	0015.0	1425.0	130.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	0251.0	0437.0	251.0	360.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0700.0E		300.0D		15.0		
	127	TORN	43	NS	0840.0		380.0		12.0		V=1
	245	SGMR	43	NS	1147.0	1544.0U	603.0	270.0			QL=4 ST=3 TYP=1
	280	CUBA	44	NS	1310.0E		520.0D		68.0		
	235	CUBA	44	NS	1310.0E		520.0D		30.0		
	410	SGMR	43	NS	1807.0	1812.0	83.0	120.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1816.0	1818.0	604.0	190.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1837.0	1850.0	22.0	330.0			QL=4 ST=2 TYP=1
	410	PALE	43	NS	1902.0	1902.0	223.0	120.0			QL=4 ST=2 TYP=1
	410	SGMR	43	NS	2017.0	2122.0	93.0	90.0			QL=4 ST=3 TYP=1
	245	LEAR	43	NS	2255.0	2256.0	15.0	170.0			QL=4 ST=2 TYP=1
	2840	PEKG	3	S	0227.0	0230.0	11.0	17.6			
	5730	IRKU	1	S	0228.0	0230.0	4.0	11.0	U		
	410	LEAR	8	S	0500.0	0500.0	2.0	58.0			QL=4 ST=3 TYP=3
	610	LEAR	8	S	0518.0	0518.0	U	73.0			QL=4 ST=3 TYP=3
	2840	PEKG	3	S	0558.0	0603.0	12.0	14.7			
	610	LEAR	8	S	0601.0	0602.0	2.0	110.0			QL=4 ST=3 TYP=3
	200	HIRA	8	S	0602.0	0602.0	1.0	240.0			0
	500	HIRA	8	S	0602.0	0602.0	1.0	70.0			0
	410	LEAR	8	S	0602.0	0602.0	1.0	120.0			QL=4 ST=3 TYP=3
	245	LEAR	49	GB	0602.0	0602.0	1.0	1200.0			QL=4 ST=3 TYP=6
	204	IZMI	45	C	0702.3	0702.5	0.4	2998.0			
	15400	SVTO	49	GB	0820.0	0820.0	9.0	900.0			QL=4 ST=2 TYP=6
	8800	SVTO	4	S/F	0822.0	0825.0	7.0	480.0			QL=4 ST=2 TYP=3
	1415	SVTO	49	GB	0824.0	0825.0	5.0	1200.0			QL=4 ST=2 TYP=6
	4995	SVTO	4	S/F	0824.0	0824.0	5.0	210.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0824.0	0824.0	5.0	180.0			QL=4 ST=2 TYP=3
	2950	GORK	2	S/F	0902.3	0904.1	3.4	6.0			
	3000	IZMI	5	S	0903.1	0904.2	2.1	12.0	6.0		
	2950	GORK	45	C	0927.0	0927.6	1.1	1.5			
	900	GORK	1	S	0927.1	0927.3	0.4	2.3			
	600	GORK	4	S/F	0927.2	0927.4	0.3	10.0			
	204	IZMI	46	C	1013.9	1014.5	1.8	453.0			
	2950	GORK	45	C	1014.0	1015.0		5.9			
	410	LEAR	8	S	1014.0	1014.0	1.0	120.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	1014.0	1014.0	U	35.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	1014.0	1014.0	1.0	440.0			QL=4 ST=2 TYP=3
	2950	GORK	45	C	1014.0	1014.5	1.3	28.0			
	900	GORK	46	C	1014.0	1014.5	2.0	25.0			
	900	GORK	46	C	1014.0	1014.9		15.0			
	600	GORK	41	F	1014.2	1018.4		54.0			
	600	GORK	41	F	1014.2	1014.8	4.3	23.0			
	3000	IZMI	7	C	1014.4	1014.5	0.6	27.0			
	204	IZMI	45	C	1015.9	1016.0	0.4	275.0			
	204	IZMI	25	R	1025.0U		95.0D		25.0		
	8800	SVTO	8	S	1147.0	1147.0	1.0	29.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1147.0	1147.0	1.0	82.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1210.0	1210.0	U	49.0			QL=2 ST=2 TYP=3
	15400	SGMR	8	S	1210.0	1210.0	U	62.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1210.0	1210.0	U	37.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1210.0	1210.0	U	91.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1553.0	1553.0	U	470.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	1615.0	1617.0	4.3	17.0	8.0		40R
	610	SGMR	8	S	1625.0	1625.0	1.0	110.0			QL=4 ST=2 TYP=3
	9500	CUBA	21	GRF	1645.0	1809.0	268.0	32.0	16.0		
	6700	CUBA	21	GRF	1650.0	1810.0	253.0D	24.0			6L 2111 OFF
	2800	PENT	40	F	1746.0	1756.0	92.0	27.0			
	8800	PALE	20	GRF	1747.0	1801.0	16.0	100.0			QL=4 ST=2 TYP=2
	410	PALE	4	S/F	1750.0	1750.0	26.0	23.0			QL=4 ST=2 TYP=3
	9500	CUBA	46	C	1750.3	1801.3	14.0	42.0	13.0		
	6700	CUBA	46	C	1752.0	1801.0U	14.0	56.0U			15R
	4995	PALE	20	GRF	1753.0	1807.0	22.0	180.0			QL=4 ST=2 TYP=2
	4995	SGMR	20	GRF	1755.0	1756.0	15.0	53.0			QL=2 ST=2 TYP=2
	8800	SGMR	20	GRF	1755.0	1801.0	14.0	62.0			QL=4 ST=2 TYP=2

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

MARCH 2000

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	2695	PALE	20	GRF	1756.0	1756.0	2.0	31.0			QL=4 ST=2 TYP=2
	2695	SGMR	20	GRF	1756.0	1756.0	14.0	23.0			QL=4 ST=2 TYP=2
	15400	SGMR	20	GRF	1756.0	1802.0	14.0	27.0			QL=4 ST=2 TYP=2
	1415	PALE	20	GRF	1801.0	1802.0	1.0	27.0			QL=4 ST=2 TYP=2
	1415	SGMR	20	GRF	1802.0	1802.0	8.0	13.0			QL=4 ST=2 TYP=2
	245	PALE	8	S	1810.0	1810.0	U	86.0			QL=4 ST=2 TYP=3
	410	PALE	20	GRF	1837.0	1845.0	22.0	120.0			QL=4 ST=2 TYP=2
	4995	PALE	8	S	1838.0	1839.0	1.0	28.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2026.0	2027.0	1.0	87.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2027.0	2027.0	1.0	190.0			QL=4 ST=2 TYP=3
	235	CUBA	6	S	2049.2	2049.4	0.4	189.0			
	280	CUBA	6	S	2049.2	2049.4	0.4	40.0			
	2800	PENT	1	S	2101.0	2103.0	5.0	6.0			
	4995	PALE	4	S/F	2106.0	2113.0	8.0	8.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2256.0	2256.0	1.0	180.0			WL
	200	HIRA	47	GB	2337.0	2340.0	4.0	1900.0			WL
	245	LEAR	48	C	2337.0	2340.0	4.0	1500.0			QL=4 ST=2 TYP=8
	15400	LEAR	8	S	2340.0	2340.0	1.0	41.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2340.0	2340.0	1.0	84.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2340.0	2340.0	1.0	38.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2340.0	2340.0	U	200.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2340.0	2340.0	1.0	1500.0			QL=4 ST=2 TYP=6
02	245	LEAR	43	NS	0138.0	0249.0	522.0	330.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0640.0E		500.0D		130.0		V=2
	410	LEAR	43	NS	0645.0	0719.0	192.0	120.0			QL=4 ST=2 TYP=1
	610	LEAR	43	NS	0658.0	0701.0	37.0	61.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0700.0E		300.0D		65.0		
	600	GORK	44	NS	0700.0E	0925.0	180.0D	14.6			
	410	SGMR	43	NS	1137.0	1441.0	337.0	320.0			QL=2 ST=2 TYP=1
	610	SGMR	43	NS	1137.0	1454.0U	311.0	100.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1137.0	1317.0U	621.0	450.0			QL=4 ST=2 TYP=1
	410	PALE	43	NS	1708.0	1714.0	59.0	74.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1708.0	1936.0	672.0	310.0			QL=4 ST=2 TYP=1
	410	SGMR	43	NS	1757.0	1759.0	14.0	61.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2242.0	2312.0	321.0	360.0			QL=4 ST=2 TYP=1
	245	LEAR	49	GB	0213.0	0213.0	3.0	4600.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	0213.0	0214.0	3.0	4600.0			QL=4 ST=2 TYP=6
	200	HIRA	47	GB	0214.0	0214.0	1.0	1100.0			WL
	200	HIRA	42	SER	0245.0	0249.0	6.0	250.0			O
	5730	IRKU	1	S	0439.0	0440.0	4.0	6.0	U		
	200	HIRA	42	SER	0446.0	0456.0	11.0	140.0			WR
	500	HIRA	27	RF	0634.0	0704.0	70.0	60.0			WR
	410	LEAR	4	S/F	0638.0	0640.0	3.0	130.0			QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0819.0	0824.0	25.0	219.3			
	15400	SVTO	49	GB	0820.0	0820.0	9.0	900.0			QL=4 ST=2 TYP=6
	900	GORK	46	C	0820.4	0824.0		380.0			
	900	GORK	46	C	0820.4	0834.1		30.0			
	900	GORK	46	C	0820.4	0822.1	17.0	380.0			
	8800	SVTO	4	S/F	0822.0	0825.0	7.0	480.0			QL=4 ST=2 TYP=3
	5730	IRKU	46	C	0822.0	0825.0	38.0D	303.0	U		
	200	HIRA	42	SER	0823.0	0824.0	2.0	400.0			WL
	15400	LEAR	49	GB	0823.0	0824.0	8.0	1100.0			QL=4 ST=2 TYP=6
	8800	LEAR	4	S/F	0823.0	0825.0	6.0	420.0			QL=2 ST=2 TYP=3
	127	TORN	47	GB	0823.0	0825.0U	6.7	1100.0D	600.0		
	204	IZMI	46	C	0823.0	0824.3	6.5	2776.0			
	2950	GORK	46	C	0823.7	0833.0		33.0			
	2950	GORK	46	C	0823.7	0825.8		107.0			
	2950	GORK	46	C	0823.7	0845.8	22.1	166.0			
	600	GORK	46	C	0823.8	0826.2	12.9	240.0			
	600	GORK	46	C	0823.8	0826.7		120.0			
	610	LEAR	4	S/F	0824.0	0826.0	3.0	150.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0824.0	0826.0	4.0	260.0			QL=4 ST=2 TYP=3
	1415	LEAR	49	GB	0824.0	0825.0	2.0	1100.0			QL=4 ST=2 TYP=6
	2695	LEAR	4	S/F	0824.0	0824.0	4.0	200.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0824.0	0824.0	5.0	210.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0824.0	0824.0	3.0	840.0			QL=4 ST=2 TYP=6
	4995	SVTO	4	S/F	0824.0	0824.0	5.0	210.0			QL=4 ST=2 TYP=3
	1415	SVTO	49	GB	0824.0	0825.0	5.0	1200.0			QL=4 ST=2 TYP=6

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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	SVTO	4	S/F	0824.0	0824.0	5.0	180.0			QL=4 ST=2 TYP=3
	3000	IZMI	45	C	0824.2	0824.9	4.9	157.0			
	33	UPIC	46	C	0824.5	0824.8	3.5				
	33	UPIC	46	C	0830.0	0830.5	6.5				
	3000	IZMI	23	GRF	0832.9	0833.0	3.8	13.0			
	8800	LEAR	4	S/F	0839.0	0840.0	3.0	93.0			QL=2 ST=2 TYP=3
	15400	LEAR	4	S/F	0839.0	0840.0	3.0	430.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0839.0	0840.0	7.0	380.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0840.0	0840.0	1.0	81.0			QL=4 ST=2 TYP=3
	127	TORN	7	C	0842.0	0842.5	1.9	670.0	330.0		
	900	GORK	2	S/F	0906.8	0907.7	1.8	2.5			
	3000	IZMI	5	S	0907.1	0908.0	3.3	9.0			
	2950	GORK	2	S/F	0907.1	0907.9	2.6	4.1			
	3000	IZMI	20	GRF	0938.2	0942.7	39.5	13.0			
	410	LEAR	8	S	0942.0	0942.0	1.0	310.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0942.0	0942.0	U	320.0			QL=4 ST=2 TYP=3
	2950	GORK	45	C	0942.3	0945.6		3.4			
	2950	GORK	45	C	0942.3	0942.8	4.0	3.4			
	8800	SVTO	49	GB	1337.0	1339.0	8.0	3700.0			QL=4 ST=2 TYP=6
	4995	SVTO	49	GB	1337.0	1339.0	8.0	1100.0			QL=4 ST=2 TYP=6
	1415	SVTO	4	S/F	1337.0	1338.0	7.0	120.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1337.0	1339.0	7.0	290.0			QL=4 ST=2 TYP=3
	15400	SGMR	49	GB	1337.0	1339.0	10.0	8600.0			QL=4 ST=3 TYP=6
	15400	SVTO	49	GB	1337.0	1339.0	15.0	7700.0			QL=4 ST=2 TYP=6
	610	SGMR	49	GB	1338.0	1339.0	5.0	820.0			QL=2 ST=3 TYP=6
	410	SGMR	49	GB	1338.0	1341.0	5.0	2000.0			QL=2 ST=3 TYP=6
	245	SGMR	48	C	1338.0	1341.0	5.0	1100.0			QL=2 ST=3 TYP=8
	33	UPIC	48	C	1338.0	1339.0	6.0				
	127	TORN	47	GB	1338.0	1341.0U	7.0	1300.0D	450.0		
	2800	PENT	1	S	1606.0	1610.0	10.0	27.0			
	410	SGMR	49	GB	1609.0	1610.0	2.0	540.0			QL=2 ST=2 TYP=6
	245	SGMR	8	S	1609.0	1609.0	2.0	460.0			QL=2 ST=2 TYP=3
	610	SGMR	4	S/F	1610.0	1611.0	4.0	47.0			QL=2 ST=2 TYP=3
	245	PALE	49	GB	2316.0	2316.0	U	640.0			QL=4 ST=2 TYP=6
03	127	TORN	44	NS	0640.0E		500.0D		30.0		V=3
	204	IZMI	44	NS	0700.0E		125.0D		40.0		
	245	LEAR	43	NS	0826.0	0846.0	34.0	84.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0905.0E		175.0D		30.0		
	280	CUBA	44	NS	1320.0E		510.0D		43.0		
	235	CUBA	44	NS	1320.0E		510.0D		25.0		
	245	SGMR	43	NS	1340.0	1659.0	246.0	180.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1857.0	1858.0	163.0	100.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1858.0	1906.0	179.0	200.0			QL=4 ST=2 TYP=1
	5730	IRKU	45	C	0130.0	0135.5	15.0	30.0	U		
	2840	PEKG	45	C	0208.0	0213.0	23.0	211.6			
	5730	IRKU	46	C	0208.7	0212.6	63.5	244.0	U		
	500	HIRA	46	C	0211.0	0213.0	5.0	480.0			0
	200	HIRA	46	C	0211.0	0215.0	6.0	320.0			WL
	2800	HIRA	4	S/F	0211.0	0213.0	5.0	200.0			0
	245	LEAR	49	GB	0211.0	0212.0	5.0	1100.0			QL=4 ST=2 TYP=6
	2695	LEAR	4	S/F	0211.0	0212.0	5.0	240.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0211.0	0212.0	5.0	410.0			QL=4 ST=2 TYP=3
	15400	LEAR	49	GB	0211.0	0212.0	7.0	1400.0			QL=4 ST=2 TYP=6
	1415	LEAR	49	GB	0211.0	0212.0	5.0	510.0			QL=4 ST=2 TYP=6
	8800	LEAR	49	GB	0211.0	0212.0	5.0	700.0			QL=2 ST=2 TYP=6
	2695	PALE	4	S/F	0211.0	0212.0	4.0	300.0			QL=4 ST=2 TYP=3
	1415	PALE	49	GB	0211.0	0212.0	5.0	550.0			QL=4 ST=2 TYP=6
	4995	PALE	4	S/F	0211.0	0212.0	4.0	430.0			QL=4 ST=2 TYP=3
	8800	PALE	49	GB	0211.0	0212.0	4.0	750.0			QL=4 ST=2 TYP=6
	15400	PALE	49	GB	0211.0	0212.0	4.0	1200.0			QL=4 ST=2 TYP=6
	410	LEAR	49	GB	0212.0	0214.0	3.0	530.0			QL=4 ST=2 TYP=6
	610	LEAR	4	S/F	0212.0	0213.0	3.0	260.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	0212.0	0212.0	3.0	2100.0			QL=4 ST=2 TYP=6
	410	PALE	49	GB	0212.0	0214.0	3.0	1100.0			QL=4 ST=2 TYP=6
	610	PALE	4	S/F	0212.0	0213.0	3.0	340.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0315.0	0316.0	2.0	60.0			QL=4 ST=2 TYP=3
	5730	IRKU	21	GRF	0335.8	0337.0	20.2	17.0	U		
	5730	IRKU	1	S	0434.4	0435.1	4.6	4.0	U		

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03	245	LEAR	8	S	0450.0	0450.0	1.0	72.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0539.0	0546.0	15.0	16.5			
	5730	IRKU	1	S	0539.6	0540.6	5.4	6.0	U		
	5730	IRKU	1	S	0546.0	0546.5	11.0	8.0	U		
	245	LEAR	8	S	0632.0	0632.0	U	130.0			QL=4 ST=2 TYP=3
	5730	IRKU	4	S/F	0804.0	0807.8	7.5	7.0	U		
	245	LEAR	8	S	0814.0	0814.0	1.0	100.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0845.4	0846.2	1.1	104.0			
	2950	GORK	46	C	1042.2	1049.6		18.0			
	2950	GORK	46	C	1042.2	1045.7U	12.8	50.0U			
	3000	IZMI	21	GRF	1043.2	1045.7	8.2	93.0			
	15400	SVTO	8	S	1044.0	1045.0	2.0	110.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1044.0	1045.0	3.0	110.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1044.0	1045.0	3.0	88.0			QL=4 ST=2 TYP=3
	4995	SVTO	48	C	1044.0	1045.0	3.0	110.0			QL=4 ST=2 TYP=8
	33	UPIC	32	ABS	1044.0	1047.0	15.0				
	900	GORK	46	C	1044.1	1049.3		7.5			
	900	GORK	46	C	1044.1	1045.7	6.7	6.0			
	127	TORN	47	GB	1057.2	1059.0U	5.0	700.0D	210.0		
	3000	IZMI	5	S	1147.0	1147.5	2.5	14.0			
	245	SGMR	8	S	1159.0	1159.0	1.0	56.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1214.0	1214.0	U	53.0			QL=4 ST=2 TYP=3
	2800	PENT	21	GRF	1811.0	1843.0	67.0	12.0			
	245	LEAR	8	S	2340.0	2342.0	2.0	110.0			QL=4 ST=2 TYP=3
04	127	TORN	44	NS	0640.0E		500.0D		80.0		V=2
	204	IZMI	44	NS	0700.0E		300.0D		50.0		
	245	LEAR	43	NS	0754.0	0816.0	159.0	70.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1144.0	2019.0	612.0	160.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	1325.0E		505.0D		49.0		
	235	CUBA	44	NS	1325.0E		505.0D		29.0		
	245	SVTO	43	NS	1502.0	1613.0	80.0	140.0			QL=4 ST=2 TYP=1
	410	SGMR	43	NS	1548.0	1631.0	120.0	120.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1706.0	1711.0	360.0	99.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0537.0	0537.0	1.0	61.0			QL=4 ST=2 TYP=3
	5730	IRKU	1	S	0746.2	0747.4	7.8	8.0	U		
	245	LEAR	8	S	0750.0	0750.0	2.0	70.0			QL=4 ST=2 TYP=3
	600	GORK	40	F	0921.4	0927.3		11.0			
	600	GORK	40	F	0921.4	0930.4		11.0			
	600	GORK	40	F	0921.4	0922.8	14.1	10.0			
	900	GORK	40	F	0925.6	0930.5		34.0			
	900	GORK	40	F	0925.6	0929.7	4.4	39.0			
	3000	IZMI	5	S	0957.6	0958.1	1.1	10.0	5.0		
	2950	GORK	1	S	0957.8	0958.0	0.7	3.4			
	33	UPIC	46	C	1355.5	1357.5	3.5				UNCERTN
	410	SGMR	4	S/F	1441.0	1445.0	7.0	73.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1625.0	1627.0	2.0	75.0			QL=4 ST=2 TYP=3
	2800	PENT	21	GRF	1803.0	1849.0	89.0U	6.0			
05	245	LEAR	43	NS	0026.0	0858.0	607.0	560.0			QL=4 ST=2 TYP=1
	410	LEAR	43	NS	0129.0	0130.0	66.0	75.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0537.0	0553.0	31.0	72.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0640.0E		500.0D		8.0		V=1
	204	IZMI	44	NS	0700.0E		163.0D		40.0		
	204	IZMI	44	NS	0843.0E		197.0D		20.0		
	245	SGMR	43	NS	1259.0	1330.0	538.0	380.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1300.0E		530.0D		17.0		
	245	SVTO	43	NS	1306.0	1330.0	81.0	460.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	1320.0E		390.0D		33.0		
	245	SVTO	43	NS	1609.0	1619.0	14.0	340.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1705.0	1729.0	648.0	260.0			QL=4 ST=2 TYP=1
	500	HIRA	27	RF	0123.0	0224.0	80.0	40.0			WR
	245	PALE	49	GB	0203.0	0206.0	4.0	2100.0			QL=4 ST=2 TYP=6
	245	LEAR	49	GB	0205.0	0206.0	2.0	1900.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	0205.0	0206.0	1.0	310.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0205.0	0206.0	1.0	390.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0206.0	0206.0	1.0	400.0			WL
	245	PALE	8	S	0249.0	0250.0	1.0	97.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0339.0	0339.0	U	100.0			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

MARCH 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
05	245	LEAR	49	GB	0339.0	0339.0	1.0	1500.0			QL=4 ST=2 TYP=6
	610	LEAR	8	S	0339.0	0340.0	1.0	36.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0419.0	0419.0	1.0	47.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0420.0	0420.0	1.0	1200.0			QL=4 ST=2 TYP=6
	610	LEAR	8	S	0420.0	0420.0	U	43.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0423.0	0423.0	U	350.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0423.0	0423.0	U	340.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0514.0	0515.0	4.0	1200.0			QL=4 ST=2 TYP=6
	200	HIRA	8	S	0515.0	0515.0	1.0	80.0			WL
	500	HIRA	42	SER	0515.0	0516.0	3.0	140.0			0
	610	LEAR	8	S	0515.0	0515.0	1.0	86.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0515.0	0517.0	3.0	79.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	0650.0	0650.0	1.0	700.0			0
	200	HIRA	8	S	0650.0	0650.0	1.0	300.0			WL
	245	LEAR	49	GB	0650.0	0650.0	1.0	1300.0			QL=4 ST=2 TYP=6
	410	LEAR	49	GB	0650.0	0650.0	1.0	860.0			QL=4 ST=2 TYP=6
	610	LEAR	49	GB	0650.0	0650.0	1.0	810.0			QL=4 ST=2 TYP=6
	600	GORK	41	F	0650.2	0650.7	2.3	160.0			
	900	GORK	41	F	0650.3	0650.7	2.3	26.0			
	2950	GORK	1	S	0650.5	0650.6	0.7	2.5			
	200	HIRA	8	S	0730.0	0730.0	1.0	200.0			WL
	245	LEAR	49	GB	0730.0	0730.0	1.0	780.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	0730.0	0730.0	U	110.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0730.2	0730.4	0.8	2465.0			
	204	IZMI	42	SER	0812.6	0812.8	2.9	237.0			
	900	GORK	45	C	0814.3	0815.0	0.9	13.0			
	600	GORK	45	C	0814.3	0814.9	0.9	29.0			
	2840	PEKG	5	S	0849.0	0859.0	17.0	9.5			
	5730	IRKU	1	S	0850.5	0851.4	4.5	22.0	U		
	5730	IRKU	4	S/F	0857.1	0859.7	10.0D	58.0	U		
	4995	SVTO	8	S	0858.0	0859.0	2.0	56.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0858.2	0858.3	0.4	280.0			
	2950	GORK	3	S	0858.2	0859.6	4.4	13.0			
	3000	IZMI	5	S	0858.3	0859.6	4.4	22.0			
	8800	SVTO	8	S	0859.0	0859.0	U	37.0			QL=4 ST=2 TYP=3
	2950	GORK	22	GRF	0927.3	0935.6	12.7	8.9			
	600	GORK	42	SER	0929.1	0936.4	26.4	10.0			
	600	GORK	42	SER	0929.1	0954.7		43.0			
	900	GORK	42	SER	0929.2	0954.1		11.0			
	900	GORK	42	SER	0929.2	0937.2	25.3	14.0			
	3000	IZMI	22	GRF	0931.5	0935.6	86.5U	15.0			
	900	GORK	47	GB	0957.8	1010.1		900.0			
	900	GORK	47	GB	0957.8	1004.4	30.4	500.0			
	600	GORK	22	GRF	1004.8	1049.7	58.2D	10.0			
	900	GORK	42	SER	1043.4	1045.0	14.1	17.0			
	900	GORK	42	SER	1043.4	1057.4		49.0			
	245	SGMR	8	S	1230.0	1230.0	U	160.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1230.0	1230.0	1.0	290.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1231.0	1231.0	U	170.0			QL=4 ST=2 TYP=3
	410	SGMR	48	C	1231.0	1233.0	2.0	180.0			QL=4 ST=2 TYP=8
	410	SVTO	8	S	1231.0	1231.0	U	110.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1231.0	1231.0	U	120.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1253.0	1253.0	1.0	68.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1301.0	1303.0	2.0	58.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1301.0	1303.0	2.0	180.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	1313.0	1314.0	1.0	800.0			QL=4 ST=2 TYP=6
	610	SGMR	8	S	1314.0	1314.0	1.0	35.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1314.0	1314.0	1.0	540.0			QL=4 ST=2 TYP=6
	235	CUBA	7	C	1319.0	1320.0	2.2	495.0			
	610	SGMR	4	S/F	1319.0	1320.0	6.0	45.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1319.0	1320.0	6.0	43.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1319.0	1319.0	3.0	19000.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1319.0	1319.0	6.0	1700.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	1319.0	1319.0	2.0	10000.0			QL=2 ST=3 TYP=6
	245	SVTO	49	GB	1319.0	1319.0	1.0	1800.0			QL=2 ST=2 TYP=6
	280	CUBA	7	C	1319.0	1320.8	2.2	1100.0			
	9500	CUBA	2	S/F	1319.2	1320.8	3.5	43.0	21.0		
	6700	CUBA	2	S/F	1319.4	1320.6	3.4	30.0	15.0		24R
	15400	SVTO	8	S	1320.0	1320.0	1.0	46.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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	280	CUBA	48	C	1320.0	1325.5	10.0	6938.0			
	1415	SGMR	8	S	1321.0	1321.0	U	41.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1321.0	1321.0	U	42.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1353.0	1353.0	2.0	860.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	1353.0	1353.0	2.0	170.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1353.0	1353.0	1.0	710.0			QL=2 ST=2 TYP=6
	410	SVTO	8	S	1353.0	1353.0	1.0	180.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1353.6	1353.9	0.4	21.0	10.0		23R
	9500	CUBA	1	S	1353.6	1353.9	1.4	33.0	16.0		
	9500	CUBA	1	S	1412.0	1413.3	2.0	17.0	8.0		
	6700	CUBA	2	S/F	1412.0	1413.4	2.3	19.0	9.0		28R
	9500	CUBA	2	S/F	1423.7	1427.4	5.1	17.0	8.0		
	6700	CUBA	2	S/F	1424.0	1427.3	5.0	14.0	7.0		19R
	235	CUBA	7	C	1520.0	1525.5	10.0	1377.0			
	2800	PENT	41	F	1522.0	1531.0	16.0	23.0			
	410	SGMR	8	S	1525.0	1526.0	1.0	400.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1525.0	1526.0	1.0	370.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1525.0	1526.0	3.0	130.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1525.0	1526.0	3.0	59.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1525.0	1526.0	2.0	79.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1525.0	1526.0	2.0	58.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1525.0	1526.0	1.0	340.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1525.0	1526.0	1.0	260.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1525.5	1525.9	1.1	28.0	14.0		27R
	2695	SGMR	8	S	1526.0	1526.0	U	27.0			QL=4 ST=2 TYP=3
	33	UPIC	4	S/F	1526.0	1526.5	1.0				
	15400	SGMR	4	S/F	1529.0	1530.0	3.0	180.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1529.0	1530.0	5.0	710.0			QL=4 ST=2 TYP=6
	15400	SVTO	8	S	1529.0	1530.0	2.0	170.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	1529.0	1530.0	2.0	1100.0			QL=4 ST=2 TYP=6
	245	SVTO	8	S	1529.0	1530.0	2.0	120.0			QL=4 ST=2 TYP=3
	9500	CUBA	45	C	1529.8	1530.5	14.2	130.0	33.0		
	1415	SGMR	4	S/F	1530.0	1530.0	4.0	64.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1530.0	1530.0	1.0	110.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1530.0	1530.0	1.0	43.0			QL=2 ST=2 TYP=3
	245	SGMR	4	S/F	1530.0	1530.0	4.0	140.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1530.0	1530.0	4.0	36.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1530.0	1530.0	4.0	53.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1530.0	1530.0	1.0	24.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1530.0	1530.0	1.0	25.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1530.0	1530.0	1.0	64.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1530.0	1530.0	1.0	59.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1530.0	1530.0	U	33.0			QL=4 ST=2 TYP=3
	33	UPIC	3	S	1531.0	1531.5	1.0				
	245	SVTO	8	S	1559.0	1600.0	1.0	66.0			QL=4 ST=2 TYP=3
	2800	PENT	41	F	1601.0	1626.0	31.0U	24.0			
	245	SVTO	49	GB	1604.0	1608.0	4.0	2800.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	1607.0	1608.0	2.0	11000.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	1607.0	1608.0	2.0	5600.0			QL=4 ST=2 TYP=6
	6700	CUBA	1	S	1607.6	1608.2	1.6	31.0	15.0		17R
	1415	SGMR	8	S	1608.0	1608.0	U	56.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1608.0	1608.0	U	130.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1608.0	1608.0	U	3200.0			QL=4 ST=2 TYP=6
	610	SVTO	8	S	1608.0	1608.0	U	87.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1608.0	1608.0	U	34.0			QL=4 ST=2 TYP=3
	6700	CUBA	20	GRF	1623.0E	1626.0	79.0D	13.0			13R
	410	SGMR	8	S	1830.0	1830.0	1.0	420.0			QL=4 ST=2 TYP=3
	200	HIRA	42	SER	2321.0	2323.0	4.0	480.0			WL
06	127	TORN	44	NS	0640.0E		500.0D		0.8U		V=1,DISTURBED
	204	IZMI	44	NS	0700.0E		300.0D		25.0		
	280	CUBA	44	NS	1300.0E		530.0D		33.0		
	235	CUBA	44	NS	1300.0E		530.0D		16.0		
	200	HIRA	42	SER	0032.0	0032.0	1.0	240.0			WL
	5730	IRKU	1	S	0115.2	0116.1	3.6	9.0	U		
	245	SGMR	8	S	1210.0	1210.0	U	99.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1210.5	1211.5	2.0				
	2800	PENT	1	S	1615.0	1618.0	7.0	8.0			
	9500	CUBA	1	S	1727.5	1727.9	2.2	14.0	7.0		

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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	2800	PENT	1	S	1852.0	1855.0	6.0	4.0			
	2800	PENT	20	GRF	2031.0	2042.0	121.0U	16.0			
	6700	CUBA	20	GRF	2038.0	2043.0	98.0	24.0	12.0		11R
	6700	CUBA	1	S	2217.5	2218.0	2.0	14.0	7.0		19L
	9500	CUBA	1	S	2217.6	2218.0	1.0	19.0	9.0		
	200	HIRA	47	GB	2257.0	2301.0	5.0	2100.0			0
	500	HIRA	42	SER	2301.0	2302.0	2.0	90.0			0
	4995	PALE	8	S	2301.0	2302.0	1.0	29.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2301.0	2302.0	1.0	44.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2301.0	2302.0	1.0	31.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2301.0	2302.0	1.0	46.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	2301.0	2302.0	2.0	570.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	2301.0	2301.0	1.0	8100.0			QL=4 ST=2 TYP=6
	200	HIRA	47	GB	2322.0	2322.0	1.0	1900.0			0
	500	HIRA	42	SER	2323.0	2323.0	1.0	280.0			0
	245	PALE	49	GB	2323.0	2323.0	1.0	1800.0			QL=4 ST=2 TYP=6
	610	PALE	8	S	2323.0	2323.0	U	160.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	2323.0	2323.0	U	640.0			QL=4 ST=2 TYP=6
07	204	IZMI	44	NS	0700.0E		300.0D		10.0		
	127	TORN	44	NS	1230.0E		150.0D		5.0		V=1
	235	CUBA	44	NS	1300.0E		530.0D		15.0		
	280	CUBA	44	NS	1420.0E		450.0D		29.0		
	245	SVTO	43	NS	1434.0	1446.0	19.0	120.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1437.0	1437.0	27.0	150.0			QL=4 ST=2 TYP=1
	410	SVTO	43	NS	1440.0	1444.0	7.0	68.0			QL=4 ST=2 TYP=1
	410	SGMR	43	NS	1442.0	1446.0	12.0	61.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1931.0	2004.0	90.0	210.0			QL=4 ST=2 TYP=1
	200	HIRA	8	S	0247.0	0247.0	1.0	380.0			0
	200	HIRA	42	SER	0316.0	0323.0	7.0	240.0			0
	500	HIRA	8	S	0323.0	0323.0	1.0	70.0			0
	200	HIRA	42	SER	0418.0	0418.0	6.0	100.0			0
	5730	IRKU	21	GRF	0503.0	0510.6	15.0	16.0	U		
	204	IZMI	42	SER	0717.9	0718.3	1.2	56.0			
	900	GORK	45	C	0719.7	0720.5	1.4	5.0			
	5730	IRKU	4	S/F	0722.6	0723.7	13.4	140.0	U		
	8800	SVTO	8	S	0723.0	0723.0	1.0	59.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0723.0	0723.0	1.0	50.0			QL=4 ST=2 TYP=3
	2950	GORK	1	S	0723.2	0723.8	1.0	5.9			
	3000	IZMI	5	S	0723.3	0723.8	1.5	12.0			
	245	SVTO	8	S	1039.0	1041.0	2.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1146.0	1147.0	3.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1236.0	1237.0	2.0	44.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1236.0	1237.0	1.0	95.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	1328.2	1331.0	5.8	11.0	5.0		13R
	33	UPIC	41	F	1409.0	1415.0	20.5				
	280	CUBA	24	R	1420.0	1443.2	30.0	156.0			
	235	CUBA	24	R	1420.0	1444.5	30.0	80.0			
	245	SGMR	48	C	1425.0	1431.0	12.0	450.0			QL=4 ST=2 TYP=8
	410	SVTO	4	S/F	1426.0	1430.0	8.0	68.0			QL=4 ST=2 TYP=3
	410	SGMR	48	C	1426.0	1430.0	11.0	130.0			QL=4 ST=2 TYP=8
	610	SGMR	4	S/F	1426.0	1426.0	11.0	48.0			QL=4 ST=2 TYP=3
	127	TORN	40	F	1434.0		24.0		100.0U		
	9500	CUBA	1	S	1510.0	1511.5	2.0	72.0	36.0		
	6700	CUBA	1	S	1510.8	1511.5	1.5	56.0	28.0		3L
	4995	SGMR	8	S	1511.0	1511.0	2.0	22.0			QL=2 ST=2 TYP=3
	15400	SGMR	8	S	1511.0	1511.0	2.0	41.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1511.0	1511.0	2.0	75.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1511.0	1511.0	U	71.0			QL=4 ST=3 TYP=3
	2800	PENT	29	PBI	1555.0	1603.0	37.0U	162.0			
	2695	SGMR	4	S/F	1602.0	1603.0	5.0	170.0			QL=4 ST=2 TYP=3
	4995	SGMR	49	GB	1602.0	1603.0	5.0	520.0			QL=2 ST=2 TYP=6
	8800	SGMR	49	GB	1602.0	1603.0	5.0	640.0			QL=4 ST=2 TYP=6
	15400	SGMR	4	S/F	1602.0	1603.0	5.0	400.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1602.0	1603.0	3.0	37.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1602.0	1603.0	2.0	140.0			QL=4 ST=3 TYP=3
	1415	SVTO	8	S	1602.0	1603.0	2.0	35.0			QL=4 ST=3 TYP=3
	4995	SVTO	4	S/F	1602.0	1603.0	4.0	430.0			QL=4 ST=3 TYP=3
	8800	SVTO	4	S/F	1602.0	1603.0	4.0	410.0			QL=4 ST=3 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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	15400	SVTO	4	S/F	1602.0	1603.0	4.0	290.0			QL=4 ST=3 TYP=3
	6700	CUBA	3	S	1602.0	1603.0U	6.2	326.0			2R
	245	SGMR	4	S/F	1603.0	1603.0	4.0	110.0			QL=4 ST=2 TYP=3
	9500	CUBA	3	S	1603.2	1604.0U	6.3	412.0U			
	610	SGMR	4	S/F	1604.0	1604.0	3.0	16.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1755.0	1755.5	1.4	19.0	9.0		
	9500	CUBA	1	S	1803.0	1803.4	1.0	13.0	6.0		
	2800	PENT	1	S	1824.0	1826.0	5.0	5.0			
	410	PALE	8	S	1825.0	1827.0	2.0	53.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1825.0	1827.0	2.0	180.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1826.0	1826.0	1.0	120.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1826.0	1826.0	1.0	65.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1918.0	1918.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1925.0	1925.0	3.0	170.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1925.0	1925.0	2.0	150.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1947.8	1949.1	4.0	20.0	10.0		
	245	SGMR	8	S	2025.0	2025.0	1.0	110.0			QL=4 ST=2 TYP=3
	2800	PENT	28	PRE	2058.0	2112.0	26.0	15.0			
	2800	PENT	29	PBI	2139.0	2155.0	51.0U	13.0			
	6700	CUBA	1	S	2139.2	2140.0	1.3	5.0	2.0		39R
	8800	PALE	8	S	2155.0	2155.0	1.0	150.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	2155.0	2156.0	6.0	110.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2155.0	2156.0	2.0	300.0			QL=4 ST=2 TYP=3
	6700	CUBA	3	S	2155.1	2155.8	2.9	158.0	79.0		11R COMPLEX POL
	9500	CUBA	3	S	2155.2	2155.5	2.0	310.0	57.0		
	245	PALE	49	GB	2335.0	2336.0	1.0	780.0			QL=4 ST=2 TYP=6
08	280	CUBA	44	NS	1300.0E		330.0D		27.0		
	235	CUBA	44	NS	1300.0E		530.0D		9.0		
	245	SGMR	43	NS	1312.0	1336.0	25.0	150.0			QL=4 ST=2 TYP=1
	245	SVTO	44	NS	1312.0E	1334.0U	75.0D	180.0			QL=2 ST=2 TYP=1
	15400	PALE	8	S	0024.0	0025.0	1.0	70.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0024.0	0025.0	1.0	82.0			QL=4 ST=2 TYP=3
	5730	IRKU	1	S	0052.8	0053.4	1.8	6.0	U		
	5730	IRKU	4	S/F	0054.6	0056.3	4.4	18.0	U		
	5730	IRKU	45	C	0108.3	0115.6	21.9	15.0	U		
	5730	IRKU	46	C	0130.6	0158.3	117.4	76.0	U		
	2840	PEKG	5	S	0243.0	0245.0	5.0	11.2			
	200	HIRA	8	S	0244.0	0244.0	1.0	420.0			0
	1415	PALE	8	S	0244.0	0244.0	1.0	50.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0244.0	0244.0	1.0	280.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0245.0	0245.0	1.0	280.0			QL=4 ST=2 TYP=3
	5730	IRKU	1	S	0338.0	0340.2	5.2	6.0	U		
	5730	IRKU	1	S	0347.0	0348.5	2.5	6.0	U		
	1415	SVTO	8	S	0627.0	0627.0	U	81.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0628.0	0628.0	U	36.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0630.0	0630.0	1.0	50.0			0
	5730	IRKU	1	S	0705.8	0708.0	10.2	5.0	U		
	204	IZMI	42	SER	0718.3	0719.3	1.9	35.0			
	900	GORK	46	C	0724.9	0728.0	8.2	13.0			
	900	GORK	46	C	0724.9	0730.5		13.0			
	200	HIRA	42	SER	0737.0	0739.0	3.0	160.0			WR
	204	IZMI	45	C	0737.0	0739.2	3.3	269.0			
	600	GORK	40	F	0737.2	0739.9	3.4	12.0			
	245	SVTO	8	S	0738.0	0739.0	1.0	190.0			QL=4 ST=2 TYP=3
	2950	GORK	25	R	0748.0	1002.9	192.0D	13.0			
	204	IZMI	7	C	0905.9	0906.0	0.6	35.0			
	204	IZMI	45	C	0907.9	0908.2	0.3	144.0			
	15400	SVTO	8	S	0938.0	0938.0	1.0	140.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0938.0	0938.0	U	28.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0938.0	0938.0	1.0	80.0			QL=4 ST=2 TYP=3
	2950	GORK	1	S	0938.2	0938.6	0.9	5.0			
	3000	IZMI	5	S	0938.3	0938.5	1.2	12.0	6.0		
	204	IZMI	42	SER	0952.0	0953.5	1.7	19.0			
	204	IZMI	42	SER	1033.8	1034.1	3.0	96.0			
	15400	SVTO	8	S	1057.0	1057.0	2.0	110.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1057.0	1057.0	3.0	85.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	1144.3	1144.5	0.3	62.0			
	204	IZMI	45	C	1155.9	1156.5	1.2	188.0			

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
08	15400	SGMR	8	S	1214.0	1214.0	1.0	69.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1214.0	1214.0	1.0	59.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1214.0	1214.0	1.0	68.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1214.0	1214.0	1.0	68.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1323.5	1325.0	2.5				
	9500	CUBA	1	S	1349.5	1350.2	1.7	8.0	4.0		
	6700	CUBA	1	S	1350.6	1351.3	1.5	7.0	3.0		00L
	245	SGMR	8	S	1607.0	1608.0	1.0	190.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1608.0	1608.0	U	150.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	1751.0	1752.0	3.0	120.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1751.0	1752.0	1.0	470.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1752.0	1752.0	U	390.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1752.0	1752.0	U	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1806.0	1808.0	2.0	73.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	2023.0	2026.0	4.0	180.0			QL=4 ST=2 TYP=3
	200	HIRA	47	GB	2128.0	2128.0	2.0	1900.0			0
	410	PALE	8	S	2128.0	2128.0	1.0	250.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2128.0	2128.0	2.0	2200.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	2128.0	2128.0	3.0	1900.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	2128.0	2128.0	1.0	210.0			QL=4 ST=2 TYP=3
	200	HIRA	42	SER	2230.0	2230.0	1.0	80.0			WR
	200	HIRA	47	GB	2238.0	2238.0	2.0	1500.0			WR
09	204	IZMI	43	NS	0700.0		230.0U		5.0		
	245	SVTO	43	NS	1051.0	1149.0	111.0	290.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	1300.0E		530.0D		20.0		
	235	CUBA	44	NS	1300.0E		530.0D		8.0		
	200	HIRA	47	GB	0529.0	0529.0	2.0	1000.0			0
	245	SVTO	8	S	0529.0	0531.0	2.0	370.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0559.0	0559.0	1.0	90.0			0
	245	SVTO	49	GB	0559.0	0600.0	1.0	1700.0			QL=4 ST=2 TYP=6
	245	SVTO	8	S	0609.0	0610.0	2.0	110.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0706.1	0711.6	9.6	708.0			
	204	IZMI	42	SER	0727.3	0728.9	2.6	297.0			
	600	GORK	41	F	0742.6	0744.0		4.3			
	600	GORK	41	F	0742.6	0743.7	1.6	6.0			
	900	GORK	45	C	0743.4	0744.0		4.5			
	900	GORK	45	C	0743.4	0743.6	1.0	2.3			
	410	SVTO	8	S	0812.0	0812.0	1.0	99.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0812.0	0812.0	1.0	75.0			QL=4 ST=2 TYP=3
	600	GORK	45	C	0812.6	0813.0		6.0			
	600	GORK	45	C	0812.6	0812.8	0.6	15.0			
	900	GORK	3	S	0812.7	0813.0	1.3	7.5			
	410	SVTO	8	S	0820.0	0820.0	1.0	150.0			QL=4 ST=2 TYP=3
	600	GORK	40	F	0820.5	0820.9	1.8	5.2			
	900	GORK	45	C	0820.7	0821.3	1.8	4.5			
	600	GORK	8	S	0858.3	0858.4	0.2	8.0			
	900	GORK	42	SER	0858.3	0858.4	15.9	17.0			
	900	GORK	42	SER	0858.3	0909.9		3.8			
	245	SVTO	8	S	0903.0	0904.0	1.0	65.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0909.0	0909.0	1.0	230.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0909.0	0909.0	1.0	310.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0909.6	0909.9	0.7	227.0			
	600	GORK	4	S/F	0909.7	0910.1	1.6	24.0			
	2950	GORK	1	S	0909.8	0909.9	0.6	2.4			
	245	LEAR	8	S	0926.0	0926.0	U	170.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0926.0	0926.0	2.0	210.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0926.2	0926.7	1.0	352.0			
	245	SVTO	8	S	1013.0	1013.0	1.0	58.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1013.1	1014.6	1.8	135.0			
	245	LEAR	49	GB	1020.0	1020.0	U	690.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	1020.0	1020.0	1.0	850.0			QL=4 ST=2 TYP=6
	204	IZMI	46	C	1020.2	1020.3	1.9	1880.0			
	245	SVTO	8	S	1044.0	1044.0	1.0	140.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1135.9	1136.3	2.2	84.0			
	245	SVTO	8	S	1200.0	1201.0	1.0	450.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1200.0	1201.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	48	C	1329.0	1341.0	14.0	300.0			QL=2 ST=3 TYP=8
	245	SGMR	48	C	1333.0	1337.0	5.0	190.0			QL=4 ST=2 TYP=8

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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	15400	SGMR	8	S	1403.0	1404.0	2.0	58.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1403.0	1404.0	1.0	49.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1403.0	1403.0	2.0	63.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1403.0	1404.0	1.0	49.0			QL=4 ST=2 TYP=3
	127	TORN	48	C	1412.5	1414.0	4.5	440.0	80.0		
	2800	PENT	1	S	1831.0	1836.0	11.0	15.0			
	245	PALE	4	S/F	1835.0	1836.0	3.0	370.0			QL=4 ST=2 TYP=3
	235	CUBA	7	C	1835.5	1836.5	4.0	299.0			
	280	CUBA	7	C	1835.5	1836.5	4.0	428.0			
10	235	CUBA	44	NS	1300.0E		530.0D		8.0		
	280	CUBA	44	NS	1300.0E		530.0D		19.0		
	2840	PEKG	1	S	0312.0	0315.0	8.0	8.6			
	610	LEAR	8	S	0327.0	0327.0	U	180.0			QL=2 ST=2 TYP=3
	5730	IRKU	4	S/F	0434.6	0438.3	10.4	40.0	U		
	2840	PEKG	5	S	0539.0	0543.0	9.0	14.7			
	5730	IRKU	4	S/F	0811.8	0813.2	14.8	18.0	U		
	900	GORK	4	S/F	0854.9	0855.3	1.1	73.0U			
	2840	PEKG	3	S	0906.0	0908.5	15.0	51.8			
	3000	IZMI	22	GRF	0907.1	0908.3	3.3	37.0			
	2950	GORK	4	S/F	0907.2	0908.3	2.0	35.0			
	2950	GORK	42	SER	0939.5	0940.2	25.8	3.2			
	2950	GORK	42	SER	0939.5	1004.9		4.0			
	3000	IZMI	20	GRF	1053.2	1054.2	3.3	11.0			
	6700	CUBA	1	S	1615.4	1617.0	2.1	12.0	6.0		11R
	9500	CUBA	3	S	1632.0	1638.2	10.8	33.0	16.0		
	6700	CUBA	1	S	1637.0	1638.2	6.0	12.0	6.0		15L
	6700	CUBA	22	GRF	1713.0	1757.0	81.0	29.0	14.0		7L
	9500	CUBA	22	GRF	1729.0	1751.0	65.0	45.0	22.0		
	245	PALE	8	S	1743.0	1744.0	1.0	84.0			QL=4 ST=2 TYP=3
	8800	SGMR	20	GRF	1750.0	1754.0	12.0	42.0			QL=4 ST=2 TYP=2
	15400	SGMR	20	GRF	1750.0	1750.0	12.0	46.0			QL=4 ST=2 TYP=2
	2800	PENT	1	S	1806.0	1814.0	14.0	4.0			
	6700	CUBA	1	S	1946.0	1947.0	3.0	12.0	6.0		00L
	9500	CUBA	1	S	1946.0	1946.9	2.0	13.0	6.0		
	6700	CUBA	21	GRF	1958.0	2004.0	36.0	17.0	8.0		00L
	9500	CUBA	21	GRF	1959.0	2004.0	38.0	19.0	9.0		
	9500	CUBA	1	S	2000.0	2002.0	3.0	17.0	8.0		
	6700	CUBA	1	S	2000.4	2001.8	2.6	25.0	12.0		6R
	9500	CUBA	21	GRF	2044.0	2106.0	74.0	40.0	20.0		
	6700	CUBA	21	GRF	2046.0	2107.0	68.0	46.0	23.0		4L
	9500	CUBA	1	S	2051.5	2052.0	1.5	20.0	10.0		
	6700	CUBA	1	S	2051.6	2052.8	2.0	17.0	8.0		10R
	2800	PENT	29	PBI	2056.0	2152.0	80.0	12.0			
	8800	PALE	4	S/F	2102.0	2105.0	8.0	68.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	2102.0	2105.0	8.0	57.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	2102.0	2105.0	8.0	58.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2103.0	2104.0	4.0	69.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	2103.0	2105.0	4.0	49.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	2103.0	2105.8	3.5	39.0	19.0		6L
	9500	CUBA	2	S/F	2103.0	2105.8	3.5	51.0	25.0		
	4995	SGMR	4	S/F	2104.0	2105.0	3.0	43.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	2317.0	2317.0	U	64.0			QL=2 ST=2 TYP=3
11	280	CUBA	44	NS	1300.0E		530.0D		20.0		
	235	CUBA	44	NS	1300.0E		530.0D		8.0		
	2800	PENT	1	S	0010.0	0015.0	12.0	10.0			
	2840	PEKG	3	S	0012.0	0015.0	12.0	12.7			
	15400	LEAR	4	S/F	0015.0	0016.0	3.0	120.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0015.0	0016.0	1.0	36.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0016.0	0016.0	2.0	37.0			QL=2 ST=2 TYP=3
	2840	PEKG	5	S	0405.0	0410.0	17.0	16.6			
	5730	IRKU	4	S/F	0409.5	0411.0	45.5	206.0	U		
	4995	LEAR	8	S	0410.0	0411.0	2.0	130.0			QL=2 ST=2 TYP=3
	15400	LEAR	4	S/F	0410.0	0411.0	4.0	140.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	0410.0	0411.0	8.0	190.0			QL=2 ST=2 TYP=3
	5730	IRKU	21	GRF	0527.0	0548.4	38.0	8.0	U		
	2950	GORK	20	GRF	0743.0	0748.2	11.0	4.7			
	5730	IRKU	1	S	0747.0	0748.0	8.0	7.0	U		

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
11	204	IZMI	42	SER	0829.2	0829.5	2.8	26.0			
	2840	PEKG	20	GRF	0914.0	0924.0	18.0	7.8			
	2950	GORK	1	S	0916.4	0916.8	0.9	3.9			
	3000	IZMI	5	S	0916.4	0916.8	0.6	9.0			
	33	UPIC	32	ABS	0919.0	0929.0	26.0				
	15400	LEAR	4	S/F	0922.0	0924.0	8.0	100.0			QL=2 ST=2 TYP=3
	4995	LEAR	4	S/F	0922.0	0923.0	8.0	79.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	0922.0	0924.0	8.0	83.0			QL=2 ST=2 TYP=3
	2950	GORK	4	S/F	0922.3	0923.5	2.9	17.3			
	3000	IZMI	22	GRF	0922.4E	0923.6	9.1U	22.0			
	8800	SVTO	4	S/F	0923.0	0924.0	6.0	83.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0923.0	0924.0	5.0	110.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0923.0	0923.0	5.0	96.0			QL=4 ST=2 TYP=3
	2950	GORK	30	PBI	0925.2	0925.2	22.8	9.4			
	2950	GORK	42	SER	0925.9	0926.1	4.3	2.4			
	2950	GORK	42	SER	0925.9	0929.5		2.4			
	204	IZMI	42	SER	0927.6	0929.1	4.3	20.0			
	900	GORK	2	S/F	0927.7	0927.8	0.8	7.0			
	900	GORK	40	F	0956.5	1028.4	63.5D	22.0			
	204	IZMI	42	SER	1025.3	1025.4	5.6	28.0			
	2950	GORK	45	C	1027.3	1028.1	1.2	3.1			
	600	GORK	7	C	1027.3	1028.7	1.6	8.0			
	2950	GORK	20	GRF	1042.0	1046.5	12.0	2.4			
	3000	IZMI	1	S	1108.8	1108.9	0.3	9.0			
	8800	SVTO	8	S	1111.0	1113.0	2.0	26.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1111.0	1113.0	3.0	81.0			QL=4 ST=2 TYP=3
	3000	IZMI	20	GRF	1155.2	1158.1	4.7	23.0			
	245	SGMR	8	S	1157.0	1158.0	2.0	72.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1157.0	1200.0	5.0	71.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	1157.0	1157.9	1.9	34.0			
	204	IZMI	45	C	1200.2	1200.5	0.8	132.0			
	6700	CUBA	2	S/F	1439.2	1440.2	3.8	15.0	7.0		25L
	6700	CUBA	21	GRF	1509.0	1606.0	72.0	12.0	6.0		00R
	9500	CUBA	21	GRF	1513.0	1521.0	70.0	18.0	9.0		
	15400	SVTO	4	S/F	1514.0	1519.0	6.0	88.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1518.5	1519.0	2.2	52.0	26.0		
	8800	SGMR	8	S	1519.0	1519.0	1.0	63.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1519.0	1520.0	2.0	100.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1519.0	1519.0	1.0	45.0			QL=2 ST=2 TYP=3
	6700	CUBA	1	S	1519.6	1519.8	1.8	47.0	23.0		8L COMPLEX POL
	6700	CUBA	1	S	1544.2	1544.8	1.6	11.0	5.0		8L
	9500	CUBA	1	S	1544.2	1544.8	1.6	16.0	8.0		
	9500	CUBA	1	S	1548.7	1549.0	0.7	13.0	6.0		
	6700	CUBA	20	GRF	1636.0	1640.0	19.0	12.0	6.0		24R
	245	SGMR	8	S	1657.0	1657.0	2.0	160.0			QL=4 ST=2 TYP=3
	6700	CUBA	23	GRF	1710.0	1713.0	190.0	10.0	5.0		20R
	9500	CUBA	21	GRF	1711.0	1716.0	11.0	19.0	9.0		
	9500	CUBA	1	S	1711.8	1712.2	1.4	18.0	9.0		
	245	SGMR	8	S	1805.0	1806.0	1.0	66.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1840.0	1844.0	10.0	11.0			
	9500	CUBA	1	S	1843.2	1844.3	3.8	10.0	5.0		
	245	SGMR	8	S	1844.0	1845.0	2.0	190.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2104.0	2104.0	1.0	58.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	2126.0	2138.0	65.0	30.0			
	2695	PALE	4	S/F	2130.0	2137.0	8.0	30.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	2130.0	2132.0	3.0	36.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2130.0	2132.0	4.0	35.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	2130.0	2137.0	8.0	160.0			QL=4 ST=2 TYP=3
	9500	CUBA	4	S/F	2130.0	2133.4	8.5	47.0	22.0		
	2800	HIRA	3	S	2136.0	2138.0	4.0	30.0			0
	1415	SGMR	4	S/F	2136.0	2138.0	3.0	130.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	2137.0	2139.0	2.0	50.0			0
	610	SGMR	8	S	2137.0	2139.0	2.0	42.0			QL=4 ST=2 TYP=3
12	204	IZMI	44	NS	0700.0E		300.0D		5.0		
	245	SVTO	43	NS	0925.0	0936.0	137.0	130.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0934.0	0935.0	52.0	130.0			QL=2 ST=2 TYP=1
	127	TORN	43	NS	1006.0		23.0		1.0		V=2
	280	CUBA	44	NS	1300.0E		530.0D		22.0		

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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	235	CUBA	44	NS	1300.0E		530.0D		10.0		
	245	LEAR	8	S	0118.0	0118.0	U	58.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0258.0	0258.0	1.0	52.0			QL=2 ST=2 TYP=3
	5730	IRKU	4	S/F	0428.4	0428.8	5.6	8.0	U		
	2840	PEKG	20	GRF	0606.0	0609.0	15.0	14.7			
	5730	IRKU	4	S/F	0607.8	0615.0	18.0	38.0	U		
	2950	GORK	4	S/F	0608.4	0609.7	4.1	14.0			
	900	GORK	2	S/F	0610.2	0610.8	1.1	4.3			
	2950	GORK	1	S	0614.7	0615.1	0.6	2.4			
	15400	LEAR	8	S	0722.0	0723.0	1.0	77.0			QL=2 ST=2 TYP=3
	15400	SVTO	4	S/F	0722.0	0722.0	3.0	69.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0722.7	0722.8	0.5	29.0			
	900	GORK	42	SER	0809.8	0838.5		62.0U			
	900	GORK	42	SER	0809.8	0830.6		10.0			
	900	GORK	42	SER	0809.8	0827.7	29.0	20.0			
	5730	IRKU	21	GRF	0815.0	0824.7	35.5	26.0	U		
	2950	GORK	22	GRF	0815.0	0824.8	16.4	9.6			
	2840	PEKG	3	S	0901.0	0904.0	12.0	28.5			
	4995	SVTO	4	S/F	0902.0	0904.0	7.0	210.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0902.0	0903.0	8.0	320.0			QL=4 ST=2 TYP=3
	15400	SVTO	49	GB	0902.0	0903.0	6.0	530.0			QL=4 ST=3 TYP=6
	2950	GORK	3	S	0902.7	0904.0	6.4	27.0			
	4995	LEAR	4	S/F	0903.0	0903.0	4.0	200.0			QL=2 ST=2 TYP=3
	15400	LEAR	49	GB	0903.0	0903.0	4.0	600.0			QL=2 ST=2 TYP=6
	8800	LEAR	4	S/F	0903.0	0904.0	4.0	320.0			QL=2 ST=2 TYP=3
	2695	LEAR	8	S	0903.0	0903.0	2.0	42.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0920.0	0920.0	U	55.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0922.0	0922.0	U	180.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0922.0	0922.0	U	160.0			QL=4 ST=3 TYP=3
	204	IZMI	25	R	0926.0		154.0D		25.0		
	900	GORK	40	F	1011.5	1012.3	2.0	9.2			
	15400	SVTO	8	S	1024.0	1024.0	1.0	64.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1024.0	1024.0	1.0	86.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1205.0	1206.0	3.0	100.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1205.0	1206.0	11.0	130.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1206.0	1206.0	7.0	110.0			QL=4 ST=2 TYP=3
	4995	SGMR	20	GRF	1206.0	1214.0	8.0	32.0			QL=2 ST=2 TYP=2
	15400	SVTO	4	S/F	1206.0	1206.0	3.0	150.0			QL=4 ST=2 TYP=3
	6700	CUBA	20	GRF	1412.0	1420.0	21.0	9.0	4.0		26R
	410	SGMR	8	S	1416.0	1416.0	2.0	110.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1417.0	1418.0	1.0	43.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1417.0	1418.0	1.0	73.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1418.0	1418.0	U	92.0			QL=4 ST=2 TYP=3
	6700	CUBA	21	GRF	1711.0	1731.0	49.0	19.0	9.0		5R
	6700	CUBA	1	S	1711.0	1711.5	1.0	5.0	2.0		32L
	9500	CUBA	21	GRF	1715.0	1731.0	35.0	18.0	9.0		
	1415	SGMR	4	S/F	1721.0	1721.0	6.0	42.0			QL=4 ST=2 TYP=3
	9500	CUBA	3	S	1721.0	1724.2	9.8	350.0	63.0		
	6700	CUBA	3	S	1722.8	1724.0	8.2	344.0	76.0		9R
	8800	SGMR	4	S/F	1723.0	1724.0	5.0	410.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1723.0	1724.0	4.0	230.0			QL=2 ST=2 TYP=3
	2695	SGMR	4	S/F	1724.0	1724.0	3.0	38.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1724.0	1724.0	3.0	340.0			QL=4 ST=2 TYP=3
	2800	PENT	24	R	1821.0	1923.0	71.0	13.0			
	6700	CUBA	20	GRF	1956.0		18.0	5.0	2.0		00R
	9500	CUBA	1	S	2045.2	2045.8	1.3	16.0	8.0		
	6700	CUBA	23	GRF	2055.0	2059.0	79.0	7.0	3.0		00R
	4995	PALE	4	S/F	2244.0	2245.0	76.0	100.0			QL=4 ST=1 TYP=3
	8800	LEAR	4	S/F	2304.0	2305.0	7.0	89.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	2333.0	2333.0	10.0	300.0			QL=2 ST=2 TYP=3
	15400	LEAR	4	S/F	2333.0	2333.0	15.0	430.0			QL=2 ST=2 TYP=3
13	280	CUBA	44	NS	1300.0E		530.0D		20.0		
	235	CUBA	44	NS	1300.0E		530.0D		8.0		
	5730	IRKU	4	S/F	0154.0	0155.7	3.2	3.0	U		
	5730	IRKU	4	S/F	0157.2	0200.8	14.8	27.0	U		
	5730	IRKU	4	S/F	0325.0	0326.4	10.0	15.0	U		
	5730	IRKU	4	S/F	0457.0	0503.5	53.0	178.0	U		
	2840	PEKG	3	S	0500.0	0503.0	11.0	23.4			

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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	15400	LEAR	49	GB	0502.0	0503.0	3.0	2700.0			QL=2 ST=2 TYP=6
	8800	LEAR	49	GB	0502.0	0503.0	6.0	700.0			QL=2 ST=2 TYP=6
	4995	LEAR	8	S	0503.0	0503.0	1.0	99.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	0714.0	0715.0	6.0	110.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0715.0	0715.0	1.0	57.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	0715.0	0715.0	1.0	65.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0715.0	0715.0	8.0	96.0			QL=4 ST=2 TYP=3
	5730	IRKU	45	C	0715.6	0719.7	58.9	32.0	U		
	204	IZMI	41	F	0716.9	0717.4	1.4	69.0			
	204	IZMI	42	SER	0729.8	0730.9	1.3	32.0			
	8800	SVTO	4	S/F	0821.0	0823.0	7.0	120.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0822.0	0823.0	5.0	130.0			QL=2 ST=2 TYP=3
	5730	IRKU	4	S/F	0822.0	0824.3	22.0	60.0	U		
	2840	PEKG	3	S	0928.0	0933.0	13.0	36.4			
	2950	GORK	4	S/F	0929.3	0933.1U	8.2	49.0U			
	3000	IZMI	20	GRF	0930.2	0933.2	23.5	77.0			
	4995	LEAR	4	S/F	0931.0	0933.0	4.0	83.0			QL=2 ST=2 TYP=3
	2695	LEAR	4	S/F	0931.0	0933.0	4.0	68.0			QL=2 ST=2 TYP=3
	2695	SVTO	4	S/F	0931.0	0933.0	3.0	53.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0931.0	0933.0	4.0	94.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0931.0	0932.0	3.0	41.0			QL=4 ST=2 TYP=3
	900	GORK	40	F	0931.8	0932.7	3.0	3.8			
	2950	GORK	29	PBI	0937.5	0937.8	16.5	8.9			
	204	IZMI	42	SER	0959.3	0959.8	1.1	100.0			
	204	IZMI	42	SER	1019.1	1019.2	3.4	54.0			
	2950	GORK	21	GRF	1029.5	1056.8	30.5D	17.0			
	8800	SVTO	4	S/F	1039.0	1041.0	13.0	190.0			QL=4 ST=2 TYP=3
	2950	GORK	4	S/F	1039.9	1042.6	18.9	31.0			
	3000	IZMI	23	GRF	1039.9	1042.6	43.6	42.0			
	4995	SVTO	4	S/F	1040.0	1041.0	12.0	93.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1040.0	1041.0	12.0	110.0			QL=4 ST=2 TYP=3
	600	GORK	2	S/F	1040.8	1042.4	4.2	3.1			
	245	SVTO	4	S/F	1155.0	1158.0	7.0	86.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1157.0	1158.0	1.0	89.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1157.4	1158.3	1.3	31.0			
	6700	CUBA	1	S	1306.8	1308.0	3.2	7.0	3.0		16R
	245	SGMR	49	GB	1317.0	1317.0	1.0	1500.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	1317.0	1318.0	3.0	1400.0			QL=4 ST=3 TYP=6
	280	CUBA	27	RF	1402.6	1437.5		43.0	42.4		
	235	CUBA	27	RF	1402.6	1437.5	42.4	33.0			
	6700	CUBA	1	S	1430.6	1431.8	2.4	10.0	5.0		36L
	245	SVTO	8	S	1436.0	1437.0	2.0	140.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1438.0	1438.0	1.0	71.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1545.0	1545.4	1.0	12.0	6.0		
	9500	CUBA	31	ABS	1604.8	1609.0	6.2	-18.0	-9.0		
	6700	CUBA	45	C	1610.2	1623.0	19.2	32.0	10.0		4R
	9500	CUBA	46	C	1611.8	1621.1	12.6	74.0	22.0		
	8800	SGMR	48	C	1612.0	1621.0	24.0	110.0			QL=4 ST=2 TYP=8
	15400	SGMR	46	C	1612.0	1621.0	24.0	45.0			QL=4 ST=2 TYP=8
	8800	SVTO	4	S/F	1618.0	1621.0	8.0	62.0			QL=4 ST=2 TYP=3
	6700	CUBA	20	GRF	1643.0	1648.0	12.0	12.0	6.0		00R
	9500	CUBA	21	GRF	1813.0	1833.0	35.0	26.0	13.0		
	8800	SGMR	4	S/F	1828.0	1829.0	5.0	60.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1828.0	1829.8	4.8	25.0	12.0		
	2800	PENT	41	F	1833.0	1911.0	52.0	11.0			
	245	SGMR	8	S	1850.0	1850.0	1.0	56.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1910.0	1910.0	1.0	260.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1910.0	1912.0	3.0	70.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1910.0	1911.0	1.0	110.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1911.0	1911.0	U	120.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	2026.9	2027.2	1.6	17.0	8.0		
	2800	PENT	29	PBI	2104.0	2108.0	45.0	42.0			
	15400	PALE	8	S	2108.0	2108.0	1.0	35.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	2108.0	2108.0	4.0	410.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2108.0	2108.0	2.0	210.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2108.0	2108.0	3.0	210.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	2108.0	2109.0	4.0	52.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	2108.0	2108.0	4.0	320.0			QL=2 ST=2 TYP=3
	9500	CUBA	3	S	2108.0	2108.4	3.6	188.0	30.0		

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

MARCH 2000

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	245	LEAR	8	S	2257.0	2258.0	1.0	87.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	2257.0	2258.0	1.0	110.0			QL=4 ST=2 TYP=3
	200	HIRA	42	SER	2310.0	2310.0	3.0	140.0			0
	2800	PENT	41	F	2330.0	2333.0	40.0	26.0			
	200	HIRA	8	S	2333.0	2333.0	1.0	60.0			0
	245	LEAR	8	S	2333.0	2333.0	U	110.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	2333.0	2333.0	U	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2348.0	2348.0	U	130.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	2348.0	2348.0	U	500.0			QL=4 ST=3 TYP=3
14	204	IZMI	43	NS	0700.0		240.0U		5.0		
	280	CUBA	44	NS	1300.0E		530.0D		17.0		
	235	CUBA	44	NS	1300.0E		530.0D		7.0		
	245	LEAR	8	S	0234.0	0234.0	1.0	210.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0234.0	0234.0	1.0	260.0			QL=4 ST=2 TYP=3
	2840	PEKG	20	GRF	0404.0	0411.0	30.0	16.2			
	5730	IRKU	4	S/F	0408.2	0409.5	10.5	24.0	U		
	245	LEAR	8	S	0409.0	0409.0	1.0	62.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0409.0	0409.0	1.0	76.0			QL=4 ST=2 TYP=3
	5730	IRKU	4	S/F	0504.0	0506.3	16.8	16.0	U		
	245	LEAR	8	S	0514.0	0514.0	U	88.0			QL=4 ST=2 TYP=3
	600	GORK	2	S/F	0605.7	0608.2	4.0	8.1			
	900	GORK	40	F	0606.3	0608.1	3.1	5.5			
	5730	IRKU	1	S	0620.0	0621.3	8.0	12.0	U		
	204	IZMI	42	SER	0740.4	0746.6	13.2	921.0			
	245	SVTO	4	S/F	0744.0	0746.0	4.0	160.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0745.0	0745.0	3.0	150.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0746.0	0746.0	1.0	440.0			0
	410	SVTO	8	S	0747.0	0747.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0752.0	0752.0	1.0	73.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0752.0	0752.0	1.0	88.0			QL=4 ST=2 TYP=3
	5730	IRKU	1	S	0844.4	0845.0	1.6	14.0	U		
	3000	IZMI	7	C	0934.7	0934.8	0.2	49.0			
	2950	GORK	2	S/F	1019.0	1019.4	1.2	4.0			
	2950	GORK	41	F	1033.0	1034.0	4.5	3.9			
	2950	GORK	41	F	1033.0	1036.1		1.7			
	3000	IZMI	40	F	1056.0	1057.2	18.2	13.0			
	2950	GORK	2	S/F	1056.5	1057.2	1.0	6.2			
	204	IZMI	7	C	1113.2	1114.2	2.0	71.0			
	245	SVTO	8	S	1248.0	1248.0	1.0	81.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1337.0	1337.2	2.0	30.0	15.0		
	8800	SGMR	8	S	1357.0	1357.0	1.0	65.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1357.0	1357.0	U	35.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1357.0	1357.0	U	30.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1357.2	1357.3	1.8	32.0	16.0		11L COMPLEX POL
	245	SVTO	8	S	1400.0	1401.0	1.0	70.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1401.0	1401.0	U	79.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1428.0	1429.0	4.0	82.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1444.0	1444.0	1.0	210.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1632.0	1632.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1632.0	1632.0	1.0	140.0			QL=4 ST=2 TYP=3
	235	CUBA	6	S	1632.2	1632.7	1.0	91.0			
	280	CUBA	6	S	1632.2	1632.7	1.0	100.0			
	245	PALE	8	S	1748.0	1748.0	U	470.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1748.0	1748.0	U	360.0			QL=4 ST=2 TYP=3
	2800	PENT	42	SER	2040.0	2046.0	48.0	39.0			
	9500	CUBA	42	SER	2044.0	2047.2	25.0	88.0			2050-2055 OFF
	2695	SGMR	8	S	2046.0	2046.0	U	27.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	2046.0	2046.0	3.0	200.0			QL=2 ST=2 TYP=3
	8800	SGMR	8	S	2046.0	2046.0	1.0	97.0			QL=4 ST=2 TYP=3
	6700	CUBA	42	SER	2046.0E	2101.8	37.0D	86.0			37L 2105 DOWN
	4995	PALE	8	S	2052.0	2053.0	1.0	230.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	2052.0	2052.0	2.0	76.0			QL=2 ST=2 TYP=3
	4995	SGMR	4	S/F	2100.0	2102.0	3.0	75.0			QL=2 ST=2 TYP=3
	8800	SGMR	4	S/F	2100.0	2102.0	3.0	67.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2144.0	2144.0	U	73.0			QL=4 ST=2 TYP=3
15	204	IZMI	44	NS	0700.0E		130.0D		5.0		
	5730	IRKU	4	S/F	0102.8	0103.1	7.2	12.0	U		

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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	5730	IRKU	4	S/F	0317.0	0317.2	6.0	24.0	U		
	5730	IRKU	46	C	0323.8	0342.8	44.7	116.0	U		
	4995	PALE	8	S	0342.0	0343.0	2.0	73.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0540.0	0541.0	1.0	73.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0540.0	0541.0	1.0	68.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0540.0	0541.0	1.0	69.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0540.0	0541.0	1.0	50.0			QL=2 ST=2 TYP=3
	4995	SVTO	8	S	0540.0	0541.0	1.0	54.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	0540.0	0541.0	1.0	73.0			QL=2 ST=2 TYP=3
	5730	IRKU	4	S/F	0625.4	0626.5	18.6	22.0	U		
	5730	IRKU	1	S	0650.0	0652.2	10.0	5.0	U		
	204	IZMI	45	C	0700.6	0700.7	1.1	290.0			
	5730	IRKU	4	S/F	0710.8	0752.4	93.2	8.0	U		
	5730	IRKU	4	S/F	0746.8	0747.6	12.2	5.0	U		
	2840	PEKG	1	S	0750.0	0755.0	7.0	7.8			
	2950	GORK	1	S	0751.5	0751.8	2.3	5.7			
	3000	IZMI	20	GRF	0751.5	0751.8	2.4	14.0			
	2950	GORK	2	S/F	0843.1	0843.2	0.5	2.3			
	3000	IZMI	20	GRF	1107.2	1107.4	7.4	11.0			
	204	IZMI	42	SER	1124.7	1124.8	1.7	49.0			
	245	SGMR	4	S/F	1218.0	1219.0	3.0	170.0			QL=4 ST=2 TYP=3
	127	TORN	4	S/F	1218.3	1219.1	3.3	150.0	40.0		
	4995	SVTO	8	S	1219.0	1220.0	1.0	23.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1219.0	1219.0	1.0	36.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1219.0	1219.0	U	24.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1219.0	1219.0	2.0	170.0			QL=4 ST=2 TYP=3
	127	TORN	40	F	1238.0		52.0		5.0		
	245	SGMR	4	S/F	1556.0	1558.0	6.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1557.0	1558.0	1.0	100.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1821.0	1838.0	71.0U	26.0			
	1415	SGMR	8	S	1837.0	1838.0	1.0	440.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1837.0	1838.0	4.0	70.0			QL=2 ST=2 TYP=3
	8800	SGMR	4	S/F	1838.0	1838.0	3.0	47.0			QL=4 ST=2 TYP=3
	2800	PENT	40	F	2107.0	2115.0	14.0	6.0			
16	127	TORN	43	NS	0836.0		260.0		3.0		V=0
	280	CUBA	44	NS	1300.0E		530.0D		22.0		
	235	CUBA	44	NS	1300.0E		530.0D		8.0		
	245	LEAR	43	NS	2243.0	2325.0	54.0	200.0			QL=4 ST=3 TYP=1
	245	LEAR	43	NS	2243.0	2325.0U	77.0	200.0			QL=4 ST=3 TYP=1
	245	LEAR	43	NS	2243.0	2246.0U	77.0	190.0			QL=4 ST=3 TYP=1
	5730	IRKU	1	S	0223.0	0228.0	21.0	14.0	U		
	245	LEAR	8	S	0241.0	0241.0	U	120.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0241.0	0242.0	2.0	320.0			QL=4 ST=2 TYP=3
	5730	IRKU	1	S	0340.4	0345.0	21.6	7.0	U		
	500	HIRA	8	S	0422.0	0422.0	1.0	40.0			WR
	410	LEAR	8	S	0422.0	0423.0	1.0	64.0			QL=4 ST=2 TYP=3
	200	HIRA	47	GB	0423.0	0423.0	1.0	1200.0			0
	245	LEAR	49	GB	0423.0	0423.0	U	1200.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	0423.0	0423.0	2.0	1300.0			QL=4 ST=2 TYP=6
	5730	IRKU	1	S	0554.9	0555.4	3.1	16.0	U		
	5730	IRKU	1	S	0605.7	0606.7	4.3	4.0	U		
	5730	IRKU	1	S	0618.5	0619.8	11.5	4.0	U		
	600	GORK	40	F	0623.2	0625.3	4.3	19.0			
	900	GORK	42	SER	0624.2	0626.3		11.0			
	900	GORK	42	SER	0624.2	0624.3	2.6	23.0			
	204	IZMI	45	C	0651.9	0652.1	0.5	1006.0			
	245	LEAR	8	S	0652.0	0652.0	U	61.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0652.0	0652.0	U	72.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	0742.0	0747.0	5.0	200.0			MR
	245	LEAR	4	S/F	0742.0	0743.0	3.0	94.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0742.0	0743.0	1.0	270.0			QL=4 ST=2 TYP=3
	600	GORK	42	SER	0742.5	0743.0	5.5	11.0			
	600	GORK	42	SER	0742.5	0747.6		70.0			
	204	IZMI	41	F	0742.6	0743.5	1.2	81.0			
	410	LEAR	49	GB	0747.0	0747.0	1.0	980.0			QL=4 ST=2 TYP=6
	900	GORK	4	S/F	0747.2	0747.8	0.8	20.0			
	3000	IZMI	1	S	1102.8	1102.9	0.8	6.0	3.0		
	8800	SVTO	4	S/F	1105.0	1106.0	4.0	54.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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
16	1415	SVTO	4	S/F	1105.0	1106.0	3.0	62.0			QL=4 ST=2 TYP=3
	3000	IZMI	20	GRF	1105.3	1106.2	1.7	23.0			
	9500	CUBA	21	GRF	1414.0E	1522.0	91.0D	22.0			
	6700	CUBA	21	GRF	1422.0E	1523.0U	85.0D	26.0U			6R
	245	SGMR	8	S	1458.0	1459.0	2.0	62.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1458.0	1459.0	2.0	52.0			QL=4 ST=3 TYP=3
	2800	PENT	40	F	1513.0	1517.0	16.0	12.0			
	410	SGMR	49	GB	1515.0	1516.0	3.0	550.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	1515.0	1516.0	1.0	320.0			QL=4 ST=3 TYP=3
	6700	CUBA	46	C	1515.6	1519.4	7.7	43.0	18.0		10R
	8800	SGMR	8	S	1516.0	1517.0	2.0	45.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1517.0	1517.0	1.0	34.0			QL=2 ST=2 TYP=3
	8800	SGMR	48	C	1518.0	1521.0	4.0	53.0			QL=4 ST=2 TYP=8
	410	SGMR	8	S	1518.0	1519.0	1.0	120.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1518.0	1518.0	1.0	170.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1519.0	1519.0	U	33.0			QL=2 ST=2 TYP=3
	9500	CUBA	46	C	1520.5	1524.5	7.5	26.0	13.0		
	15400	SGMR	8	S	1521.0	1521.0	1.0	36.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1656.0	1656.0	U	360.0			QL=4 ST=2 TYP=3
	6700	CUBA	21	GRF	1712.0	1839.0	318.0D	37.0			6L SUNSET
	6700	CUBA	1	S	1712.8	1713.5	1.4	9.0	4.0		29L
	2800	PENT	20	GRF	1755.0	1801.0	18.0	9.0			
	2800	PENT	29	PBI	1828.0	1835.0	64.0U	75.0			
	9500	CUBA	21	GRF	1833.0	1838.0	237.0	34.0	27.0		
	1415	PALE	4	S/F	1834.0	1835.0	3.0	66.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1834.0	1835.0	8.0	69.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1834.0	1835.0	8.0	140.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	1834.0	1835.0	7.0	210.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	1834.0	1835.0	8.0	280.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1834.0	1835.0	5.0	270.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1834.0	1835.0	2.0	63.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1834.0	1835.0	5.0	220.0			QL=2 ST=2 TYP=3
	2695	SGMR	4	S/F	1834.0	1835.0	5.0	82.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1834.0	1835.0	5.0	400.0			QL=4 ST=2 TYP=3
	6700	CUBA	4	S/F	1834.2	1835.2	3.8	322.0	92.0		7L
	2800	PENT	1	S	2042.0	2045.0	6.0	7.0			
	2800	PENT	20	GRF	2202.0	2208.0	21.0	9.0			
	245	PALE	4	S/F	2240.0	2243.0	3.0	350.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2241.0	2242.0	2.0	100.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	2245.0	2246.0	2.0	190.0			QL=4 ST=2 TYP=3
17	127	TORN	43	NS	0900.0		270.0		3.0		V=1
	204	IZMI	43	NS	1118.5		42.0D		5.0		
	280	CUBA	44	NS	1300.0E		530.0D		17.0		
	235	CUBA	44	NS	1340.0E		530.0D		7.0		
	245	PALE	43	NS	2325.0	2325.0	53.0	240.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2331.0	0005.0	223.0	330.0			QL=4 ST=2 TYP=1
	245	LEAR	4	S/F	0024.0	0028.0	11.0	100.0			QL=4 ST=3 TYP=3
	200	HIRA	8	S	0216.0	0216.0	1.0	90.0			0
	245	LEAR	4	S/F	0226.0	0231.0	5.0	68.0			QL=4 ST=2 TYP=3
	200	HIRA	46	C	0227.0	0231.0	4.0	120.0			0
	200	HIRA	8	S	0304.0	0304.0	1.0	60.0			0
	245	LEAR	8	S	0323.0	0323.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0323.0	0323.0	1.0	120.0			QL=4 ST=2 TYP=3
	5730	IRKU	45	C	0400.0	0407.9	17.0	9.0	U		
	5730	IRKU	1	S	0430.0	0431.4	12.5	10.0	U		
	5730	IRKU	4	S/F	0452.5	0454.5	27.5	38.0	U		
	2840	PEKG	5	S	0453.0	0454.5	11.0	8.8			
	8800	LEAR	8	S	0455.0	0456.0	1.0	26.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0455.0	0455.0	2.0	560.0			QL=4 ST=2 TYP=6
	4995	LEAR	8	S	0455.0	0455.0	1.0	45.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0456.0	0456.0	U	28.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0521.0	0522.0	2.0	260.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0521.0	0523.0	5.0	13.3			
	5730	IRKU	1	S	0521.5	0522.7	3.5	22.0	U		
	200	HIRA	8	S	0522.0	0522.0	1.0	140.0			0
	245	SVTO	8	S	0522.0	0522.0	1.0	190.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0625.0	0625.0	U	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0625.0	0625.0	1.0	130.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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	5730	IRKU	1	S	0648.5	0655.4	15.0	9.0	U		
	5730	IRKU	45	C	0716.5	0717.5	21.5	15.0	U		
	5730	IRKU	4	S/F	0803.0	0807.5	57.0	20.0	U		
	2950	GORK	45	C	0804.4	0808.6	13.7	18.0			
	2950	GORK	45	C	0804.4	0812.9		14.0			
	3000	IZMI	22	GRF	0804.7	0808.4	11.2	28.0			
	204	IZMI	42	SER	0810.9	0811.3	1.0	13.0			
	3000	IZMI	46	C	1105.8	1117.6	35.7	132.0			
	204	IZMI	46	C	1111.2U	1115.7	7.2U	857.0			
	2695	SGMR	4	S/F	1113.0	1117.0U	12.0	84.0			QL=2 ST=2 TYP=3
	8800	SGMR	4	S/F	1114.0	1117.0	5.0	140.0			QL=2 ST=2 TYP=3
	4995	SGMR	48	C	1114.0	1122.0	12.0	260.0			QL=2 ST=2 TYP=8
	245	SVTO	48	C	1114.0	1123.0	12.0	96.0			QL=4 ST=2 TYP=8
	15400	SVTO	48	C	1114.0	1123.0	12.0	96.0			QL=4 ST=3 TYP=8
	410	SGMR	8	S	1115.0	1115.0	U	58.0			QL=2 ST=2 TYP=3
	245	SGMR	4	S/F	1115.0	1115.0	3.0	230.0			QL=2 ST=2 TYP=3
	1415	SGMR	8	S	1116.0	1117.0	1.0	33.0			QL=2 ST=2 TYP=3
	204	IZMI	42	SER	1121.9	1131.3	11.6	200.0			
	610	SGMR	8	S	1122.0	1122.0	1.0	79.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	1155.0	1155.0	2.0	53.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	1417.0	1417.0	1.0	280.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1526.0	1530.0	9.0	3.0			
	2800	PENT	41	F	1745.0	1747.0	107.0U	62.0			
	6700	CUBA	1	S	1754.0	1754.9	2.2	20.0	10.0		21L
	6700	CUBA	21	GRF	1827.0	1859.0	117.0	13.0	8.0		00L
	9500	CUBA	1	S	1855.5	1855.6	0.7	13.0	6.0		
	6700	CUBA	1	S	1922.0	1923.0	2.0	6.0	3.0		62L
	2800	PENT	29	PBI	2147.0	2156.0	45.0U	131.0			
	4995	SGMR	4	S/F	2155.0	2156.0	4.0	230.0			QL=2 ST=2 TYP=3
	2695	SGMR	4	S/F	2155.0	2156.0	4.0	110.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2155.0	2156.0	4.0	270.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2326.0	2326.0	U	66.0			QL=4 ST=2 TYP=3
	2800	PENT	40	F	2330.0	0001.0	112.0	21.0			
	2840	PEKG	20	GRF	2345.0	2352.0	56.0	18.4			
	1415	LEAR	4	S/F	2349.0	2350.0	8.0	130.0			QL=4 ST=2 TYP=3
	2800	HIRA	4	S/F	2356.0	2357.0	4.0	100.0			0
18	204	IZMI	44	NS	0700.0E		300.0D		15.0		
	127	TORN	43	NS	0956.0		150.0		5.0		V=2
	280	CUBA	44	NS	1300.0E		530.0D		20.0		
	235	CUBA	44	NS	1300.0E		530.0D		7.0		
	245	PALE	43	NS	2329.0	0004.0	225.0	290.0			QL=4 ST=2 TYP=1
	5730	IRKU	1	S	0214.2	0216.1	7.8	14.0	U		
	2840	PEKG	5	S	0221.0	0225.0	9.0	19.8			
	5730	IRKU	4	S/F	0223.5	0224.5	30.0	288.0	U		
	200	HIRA	47	GB	0224.0	0224.0	1.0	1200.0			0
	410	LEAR	8	S	0224.0	0225.0	1.0	75.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0224.0	0225.0	2.0	150.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0224.0	0225.0	1.0	30.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0224.0	0225.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0224.0	0225.0	1.0	1400.0			QL=2 ST=2 TYP=6
	5730	IRKU	21	GRF	0355.0	0400.0	26.0	5.0	U		
	5730	IRKU	1	S	0511.8	0513.0	5.2	3.0	U		
	204	IZMI	7	C	0710.8	0711.0	0.5	85.0			
	204	IZMI	25	R	1003.0		117.0D		20.0		
	245	SGMR	8	S	1346.0	1346.0	1.0	53.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1510.0	1510.0	U	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1530.0	1530.0	U	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1549.0	1549.0	1.0	58.0			QL=4 ST=2 TYP=3
	2800	PENT	41	F	2029.0	2153.0	123.0U	56.0			
	6700	CUBA	31	ABS	2032.0	2038.3	11.8	-6.0	-3.0		11R
	9500	CUBA	31	ABS	2040.8	2042.4	6.0	-8.0	-4.0		
	245	PALE	49	GB	2046.0	2046.0	15.0	730.0			QL=4 ST=2 TYP=6
	9500	CUBA	46	C	2047.0	2054.2	11.9	575.0			
	6700	CUBA	46	C	2047.3	2054.0	14.5	537.0	76.0		5L
	4995	PALE	4	S/F	2049.0	2053.0	10.0	280.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	2049.0	2053.0	12.0	250.0			QL=2 ST=2 TYP=3
	8800	SGMR	4	S/F	2049.0	2053.0	12.0	490.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	2050.0	2053.0	11.0	360.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
18	15400	PALE	4	S/F	2051.0	2053.0	8.0	320.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2051.0	2053.0	8.0	41.0			QL=4 ST=2 TYP=3
	280	CUBA	41	F	2051.2	2057.5	8.3	41.0			
	245	SGMR	46	C	2052.0	2056.0	9.0	33.0			QL=4 ST=2 TYP=8
	1415	SGMR	4	S/F	2052.0	2053.0	7.0	15.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	2052.0	2055.0	9.0	13.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	2052.0	2054.0	9.0	120.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2053.0	2053.0	8.0	220.0			QL=4 ST=2 TYP=3
	9500	CUBA	29	PBI	2058.9		17.0	23.0	11.0		
	6700	CUBA	29	PBI	2100.8		40.2	35.0	17.0		10L
	200	HIRA	8	S	2109.0	2109.0	1.0	70.0			WL
	200	HIRA	8	S	2152.0	2152.0	1.0	300.0			0
	410	PALE	49	GB	2152.0	2153.0	1.0	1200.0			QL=4 ST=2 TYP=6
	245	SGMR	4	S/F	2152.0	2153.0	3.0	290.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	2152.0	2152.0	8.0	1500.0			QL=4 ST=2 TYP=6
	2800	HIRA	4	S/F	2153.0	2153.0	3.0	70.0			0
	1415	SGMR	4	S/F	2153.0	2153.0	7.0	40.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	2153.0	2154.0	7.0	66.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2153.0	2153.0	7.0	63.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	2155.0	2155.0	1.0	50.0			0
	15400	PALE	4	S/F	2155.0	2156.0	3.0	210.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2156.0	2156.0	U	71.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2156.0	2156.0	1.0	200.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2156.0	2156.0	1.0	110.0			QL=4 ST=2 TYP=3
	500	HIRA	46	C	2158.0	2201.0	7.0	180.0			MR
	610	PALE	4	S/F	2158.0	2200.0	3.0	87.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	2159.0	2202.0	3.0	240.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	2200.0	2200.0	3.0	43.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	2200.0	2201.0	3.0	220.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2201.0	2202.0	2.0	32.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2250.0	2250.0	1.0	70.0			0
	2840	PEKG	45	C	2322.0	2328.0	17.0	60.7			
	4995	LEAR	4	S/F	2324.0	2327.0	12.0	150.0			QL=4 ST=2 TYP=3
	2695	LEAR	48	C	2325.0	2330.0	8.0	65.0			QL=4 ST=2 TYP=8
	4995	PALE	20	GRF	2325.0	2327.0	24.0	170.0			QL=4 ST=2 TYP=2
	2800	HIRA	46	C	2326.0	2329.0	9.0	50.0			0
	8800	LEAR	48	C	2326.0	2330.0	8.0	95.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	2326.0	2326.0	U	75.0			QL=4 ST=2 TYP=3
	8800	PALE	20	GRF	2326.0	2332.0	23.0	130.0			QL=4 ST=2 TYP=2
	2695	PALE	20	GRF	2326.0	2331.0	23.0	83.0			QL=4 ST=2 TYP=2
	1415	LEAR	4	S/F	2327.0	2330.0	5.0	33.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2330.0	2331.0	2.0	32.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	2330.0	2330.0	4.0	42.0			QL=4 ST=2 TYP=3
	2800	PENT	41	F	2338.0	2354.0	105.0U	416.0			
	2840	PEKG	47	GB	2339.0	2354.0	46.0	415.3			
	2695	LEAR	4	S/F	2353.0	2354.0	9.0	380.0			QL=4 ST=2 TYP=3
	8800	LEAR	49	GB	2353.0	2354.0	2.0	540.0			QL=4 ST=2 TYP=6
	8800	PALE	49	GB	2353.0	2354.0	4.0	680.0			QL=4 ST=2 TYP=6
	4995	PALE	49	GB	2353.0	2354.0	4.0	820.0			QL=4 ST=2 TYP=6
	2695	PALE	4	S/F	2353.0	2354.0	6.0	380.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	2353.0	2353.0	1.0	99.0			QL=4 ST=2 TYP=3
	15400	PALE	49	GB	2353.0	2354.0	4.0	1400.0			QL=4 ST=2 TYP=6
	4995	LEAR	49	GB	2353.0	2354.0	10.0	910.0			QL=4 ST=2 TYP=6
	2800	HIRA	6	S	2354.0	2355.0	8.0	340.0			0
19	127	TORN	43	NS	0650.0		540.0		5.0		V=1
	245	SVTO	43	NS	1139.0	1214.0	134.0	83.0			QL=2 ST=2 TYP=1
	245	SGMR	43	NS	1155.0	1214.0	70.0	94.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1300.0E		530.0D		13.0		
	280	CUBA	44	NS	1300.0E		530.0D		26.0		
	245	SVTO	43	NS	1619.0	1627.0	20.0	64.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1620.0	1755.0	105.0	260.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1741.0	1755.0	27.0	270.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0053.0	0053.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0053.0	0054.0	1.0	190.0			QL=4 ST=2 TYP=3
	410	LEAR	49	GB	0115.0	0116.0	2.0	810.0			QL=4 ST=2 TYP=6
	245	LEAR	8	S	0116.0	0117.0	1.0	62.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0116.0	0116.0	1.0	450.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0130.0	0130.0	U	76.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
19	245	PALE	8	S	0130.0	0130.0	U	110.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	0225.0	0225.0	U	1700.0			QL=4 ST=2 TYP=6
	4995	PALE	8	S	0225.0	0225.0	U	140.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0225.0	0225.0	U	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0242.0	0242.0	1.0	64.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0242.0	0243.0	1.0	110.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0243.0	0243.0	1.0	240.0			0
	5730	IRKU	1	S	0413.0	0413.7	3.0	5.0	U		
	200	HIRA	8	S	0511.0	0511.0	1.0	90.0			0
	245	SVTO	48	C	0514.0	0518.0	10.0	170.0			QL=4 ST=2 TYP=8
	200	HIRA	47	GB	0614.0	0614.0	1.0	880.0			0
	245	LEAR	8	S	0614.0	0614.0	1.0	330.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0614.0	0614.0	U	430.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0622.0	0622.0	U	77.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0622.0	0622.0	U	87.0			QL=4 ST=2 TYP=3
	204	IZMI	4	S/F	0700.0E		300.0D		20.0		
	5730	IRKU	21	GRF	0800.0	0802.3	52.0	16.0	U		
	2950	GORK	1	S	0855.9	0856.2	0.9	3.6			
	127	TORN	48	C	0958.8	0958.8	3.1	360.0	90.0		
	204	IZMI	42	SER	0958.8	0959.9	1.2	415.0			
	245	SVTO	8	S	0959.0	0959.0	1.0	62.0			QL=4 ST=2 TYP=3
	600	GORK	4	S/F	0959.0	1000.7	2.5	6.0			
	900	GORK	45	C	0959.5	1000.2	2.0	10.0			
	900	GORK	45	C	0959.5	1000.5		12.0			
	2950	GORK	1	S	0959.7	1000.2	0.8	2.9			
	410	SVTO	8	S	1001.0	1001.0	U	72.0			QL=4 ST=2 TYP=3
	127	TORN	42	SER	1041.4	1043.0	10.0	100.0	10.0		
	600	GORK	40	F	1043.8	1044.2	1.3	8.0			
	410	SVTO	8	S	1044.0	1044.0	U	51.0			QL=4 ST=2 TYP=3
	900	GORK	1	S	1044.2	1044.7	3.0	3.0			
	2950	GORK	1	S	1044.4	1044.7	0.6	5.7			
	3000	IZMI	21	GRF	1103.9	1106.0	4.0	23.0			
	3000	IZMI	23	GRF	1135.3	1143.5	13.4	51.0			
	245	SGMR	8	S	1138.0	1139.0	2.0	60.0			QL=4 ST=2 TYP=3
	127	TORN	42	SER	1140.5	1144.2	10.3	80.0	10.0		
	2695	SGMR	4	S/F	1142.0	1143.0	4.0	44.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1142.0	1143.0	2.0	44.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1143.0	1143.0	3.0	22.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1143.0	1143.0	3.0	33.0			QL=2 ST=2 TYP=3
	4995	SVTO	8	S	1143.0	1143.0	1.0	33.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1143.0	1143.0	U	24.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1144.0	1144.0	2.0	28.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1144.0	1144.0	1.0	14.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1144.0	1144.0	U	31.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1145.0	1146.0	1.0	20.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1145.0	1146.0	1.0	24.0			QL=4 ST=2 TYP=3
	127	TORN	8	S	1150.0	1150.7	1.7	20.0	10.0		
	127	TORN	4	S/F	1224.4	1227.3	2.9	90.0	50.0		
	410	SGMR	8	S	1235.0	1236.0	2.0	75.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1235.0	1236.0	2.0	110.0			QL=2 ST=3 TYP=3
	245	SVTO	8	S	1235.0	1236.0	1.0	63.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1236.0	1236.0	1.0	51.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1244.0	1245.5	3.0				
	245	SGMR	8	S	1353.0	1353.0	1.0	91.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1414.0	1415.0	6.0	44.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1414.0	1415.0	6.0	61.0			QL=2 ST=2 TYP=3
	2695	SGMR	4	S/F	1414.0	1415.0	6.0	53.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1414.0	1415.0	2.0	54.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1414.0	1415.2	2.7	26.0	13.0		
	6700	CUBA	1	S	1414.0	1415.3	2.8	29.0	14.0		34L
	15400	SGMR	4	S/F	1415.0	1415.0	5.0	70.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1415.0	1415.0	U	48.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1415.0	1415.0	U	28.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1444.0	1445.0	1.0	67.0			QL=2 ST=2 TYP=3
	6700	CUBA	1	S	1646.6	1647.0	1.8	8.0	4.0		24L
	6700	CUBA	21	GRF	1654.0	1708.0	169.0	36.0	18.0		9L
	410	PALE	4	S/F	1657.0	1701.0	9.0	35.0			QL=4 ST=2 TYP=3
	9500	CUBA	21	GRF	1658.0	1727.0	140.0	28.0	14.0		
	245	PALE	48	C	1706.0	1710.0	4.0	110.0			QL=4 ST=2 TYP=8

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
19	2695	PALE	4	S/F	1706.0	1707.0	3.0	75.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	1707.0	1707.0	2.0	37.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1707.0	1708.0	11.0	190.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	1707.0	1712.0	11.0	72.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1738.0	1753.0	114.0U	324.0			
	6700	CUBA	31	ABS	1742.3	1747.6	9.7	-13.0	-6.0		5R
	4995	PALE	48	C	1745.0	1753.0	14.0	980.0			QL=4 ST=2 TYP=8
	2695	PALE	4	S/F	1752.0	1753.0	4.0	310.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	1752.0	1753.0	3.0	480.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	1752.0	1753.0	1.0	69.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1752.0	1753.0	11.0	260.0			QL=4 ST=2 TYP=3
	8800	SGMR	49	GB	1752.0	1753.0	11.0	500.0			QL=4 ST=2 TYP=6
	4995	SGMR	49	GB	1752.0	1753.0	11.0	610.0			QL=2 ST=2 TYP=6
	2695	SGMR	4	S/F	1752.0	1753.0	11.0	350.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1752.0	1752.0	11.0	55.0			QL=4 ST=2 TYP=3
	6700	CUBA	45	C	1752.0	1753.3	4.6	369.0			8L
	9500	CUBA	45	C	1752.2	1753.3	3.7	327.0	75.0		
	15400	PALE	8	S	1753.0	1753.0	1.0	160.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	2017.0	2017.0	4.0	96.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2017.0	2017.0	1.0	130.0			QL=4 ST=2 TYP=3
	2800	PENT	42	SER	2035.0	2218.0	117.0U	31.0			
	235	CUBA	41	F	2051.2	2057.5	8.3	22.0			
	500	HIRA	46	C	2209.0	2215.0	14.0	40.0			WL
	410	PALE	48	C	2209.0	2221.0	13.0	94.0			QL=4 ST=2 TYP=8
	610	PALE	8	S	2210.0	2212.0	2.0	24.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	2210.0	2212.0	12.0	73.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2213.0	2213.0	U	31.0			QL=4 ST=2 TYP=3
20	204	IZMI	44	NS	0700.0E		300.0D		5.0		
	127	TORN	43	NS	0800.0		340.0		6.0		V=1
	235	CUBA	44	NS	1325.0E		505.0D		9.0		
	280	CUBA	44	NS	1325.0E		503.0D		19.0		
	245	SGMR	43	NS	1942.0	1951.0	35.0	280.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2017.0	2018.0	2.0	140.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2246.0	2345.0	257.0	220.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2256.0	2256.0	64.0	130.0			QL=4 ST=3 TYP=1
	245	LEAR	43	NS	2356.0	0153.0	543.0	280.0			QL=4 ST=2 TYP=1
	200	HIRA	8	S	0144.0	0144.0	1.0	440.0			0
	245	LEAR	49	GB	0144.0	0144.0	U	1700.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	0144.0	0144.0	U	1800.0			QL=4 ST=2 TYP=6
	5730	IRKU	1	S	0304.0	0305.4	6.6	12.0	U		
	5730	IRKU	1	S	0411.2	0412.0	2.6	8.0	U		
	2840	PEKG	1	S	0435.0	0437.5	5.0	5.2			
	1415	LEAR	4	S/F	0436.0	0437.0	3.0	25.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0437.0	0437.0	U	71.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0437.0	0437.0	2.0	44.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0519.0	0520.0	3.0	100.0			QL=4 ST=2 TYP=3
	410	LEAR	49	GB	0519.0	0519.0	1.0	540.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	0519.0	0519.0	U	480.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0520.0	0520.0	U	110.0			QL=4 ST=2 TYP=3
	5730	IRKU	4	S/F	0528.5	0529.9	9.5	19.0	U		
	200	HIRA	42	SER	0529.0	0529.0	1.0	70.0			0
	245	LEAR	8	S	0529.0	0529.0	U	250.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0529.0	0529.0	1.0	250.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0747.0	0753.0	13.0	37.7			
	3000	IZMI	20	GRF	0749.6	0752.9	6.3	43.0			
	2950	GORK	4	S/F	0750.7	0752.9	6.3	34.0			
	5730	IRKU	1	S	0751.0	0753.0	6.6	30.0	U		
	2695	LEAR	8	S	0752.0	0752.0	2.0	60.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0752.0	0753.0	2.0	46.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0752.0	0752.0	1.0	33.0			QL=4 ST=2 TYP=3
	5730	IRKU	1	S	0800.6	0801.3	2.1	3.0	U		
	2840	PEKG	45	C	0817.0	0827.0	54.0	59.6			
	2950	GORK	47	GB	0820.7	0835.9	24.3	60.0			
	900	GORK	46	C	0821.2	0857.0U		65.0U			
	900	GORK	46	C	0821.2	0833.2	47.0	65.0U			
	3000	IZMI	45	C	0822.8	0835.8	45.0	75.0			
	1415	LEAR	8	S	0823.0	0823.0	U	57.0			QL=4 ST=2 TYP=3
	2695	LEAR	20	GRF	0823.0	0827.0	22.0	120.0			QL=4 ST=2 TYP=2

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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	2695	SVTO	20	GRF	0823.0	0827.0	20.0	97.0			QL=4 ST=2 TYP=2
	1415	SVTO	20	GRF	0823.0	0837.0	20.0	76.0			QL=4 ST=2 TYP=2
	4995	SVTO	20	GRF	0823.0	0835.0	24.0	77.0			QL=4 ST=2 TYP=2
	5730	IRKU	4	S/F	0823.0	0828.2	41.2	63.0	U		
	204	IZMI	46	C	0824.1E	0837.9	37.3U	262.0			
	8800	LEAR	48	C	0825.0	0828.0	22.0	50.0			QL=4 ST=2 TYP=8
	245	SVTO	48	C	0825.0	0837.0	21.0	190.0			QL=4 ST=2 TYP=8
	8800	SVTO	46	C	0825.0	0828.0	22.0	47.0			QL=4 ST=2 TYP=8
	600	GORK	46	C	0825.0	0827.1	30.5	116.0			
	600	GORK	46	C	0825.0	0852.5		90.0			
	500	HIRA	8	S	0826.0	0826.0	1.0	50.0			0
	245	LEAR	8	S	0826.0	0827.0	1.0	70.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0826.0	0826.0	1.0	71.0			QL=4 ST=2 TYP=3
	410	LEAR	49	GB	0826.0	0828.0	13.0	590.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	0826.0	0828.0	17.0	640.0			QL=4 ST=2 TYP=6
	15400	SVTO	4	S/F	0826.0	0828.0	29.0	47.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0827.0	0828.0	3.0	50.0			QL=4 ST=2 TYP=3
	127	TORN	49	GB	0829.0	0836.0	26.0	730.0	60.0		
	610	LEAR	8	S	0837.0	0837.0	U	23.0			QL=4 ST=2 TYP=3
	2950	GORK	30	PBI	0845.0	0845.0	36.0	14.0			
	245	LEAR	8	S	0847.0	0848.0	2.0	46.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0847.0	0848.0	2.0	61.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0848.0	0848.0	1.0	84.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0848.0	0848.0	U	23.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0848.0	0848.0	1.0	28.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0848.0	0848.0	U	30.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0848.0	0848.0	1.0	98.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0848.0	0848.0	U	25.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	0851.0	0852.0	4.0	140.0			QL=4 ST=2 TYP=3
	245	SVTO	48	C	0851.0	0852.0	8.0	110.0			QL=4 ST=2 TYP=8
	2695	LEAR	4	S/F	0852.0	0853.0	8.0	48.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0852.0	0852.0	U	88.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0852.0	0852.0	U	61.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0852.0	0852.0	1.0	120.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0852.0	0854.0	2.0	33.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0852.0	0852.0	1.0	83.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	0852.0	0854.0	6.0	30.0			QL=4 ST=2 TYP=3
	2950	GORK	4	S/F	0852.3	0854.2	11.1	14.0			
	2695	LEAR	4	S/F	1003.0	1003.0	7.0	220.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	1003.0	1003.0	4.0	270.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1003.0	1003.0	1.0	190.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1003.0	1003.0	1.0	260.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1003.0	1003.0	1.0	65.0			QL=4 ST=2 TYP=3
	3000	IZMI	45	C	1003.3	1003.7	20.4	268.0			
	204	IZMI	7	C	1003.6	1003.7	0.2	194.0			
	2950	GORK	4	S/F	1008.6	1009.8	7.5	11.0			
	900	GORK	46	C	1030.7	1031.0	5.5	29.0			
	900	GORK	46	C	1030.7	1033.2		110.0			
	600	GORK	46	C	1030.8	1037.1		110.0			
	600	GORK	46	C	1030.8	1032.3	5.6	470.0			
	610	SVTO	4	S/F	1031.0	1032.0	3.0	250.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1032.0	1032.0	1.0	40.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1042.0	1042.0	1.0	70.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1042.4	1042.7	0.5	34.0			
	3000	IZMI	5	S	1043.4	1043.9	2.1	12.0			
	3000	IZMI	45	C	1053.6	1055.8	35.9	46.0			
	245	SVTO	49	GB	1054.0	1055.0	4.0	1500.0			QL=4 ST=2 TYP=6
	4995	SVTO	4	S/F	1054.0	1055.0	3.0	99.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1054.0	1054.0	2.0	120.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1054.0	1055.0	3.0	120.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	1054.0	1054.3	5.4	773.0			
	2695	SVTO	8	S	1055.0	1055.0	1.0	39.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1354.0	1354.0	U	62.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1354.0	1354.0	U	61.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1422.0	1422.0	1.0	83.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1422.0	1422.0	1.0	50.0			QL=2 ST=2 TYP=3
	6700	CUBA	1	S	1431.6	1432.8	5.9	9.0	4.0		12R
	245	SGMR	8	S	1509.0	1509.0	U	61.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1618.0	1618.0	U	100.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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	280	CUBA	7	C	1637.9	1643.7	8.3	33.0			
	235	CUBA	48	C	1637.9	1643.7	12.0	347.0			
	2695	SGMR	4	S/F	1638.0	1644.0	8.0	44.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1638.0	1641.0	8.0	41.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1638.0	1640.0	8.0	110.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1638.0	1641.0	8.0	70.0			QL=2 ST=2 TYP=3
	15400	SGMR	4	S/F	1638.0	1642.0	8.0	80.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1638.0	1639.0	1.0	240.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1638.0	1639.0	1.0	250.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1639.0	1644.0	7.0	33.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1639.0	1642.0	7.0	280.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1639.0	1639.0	U	35.0			QL=4 ST=2 TYP=3
	6700	CUBA	46	C	1639.6	1640.0	6.0	107.0	32.0		9L
	9500	CUBA	46	C	1639.8	1641.0	5.7	95.0	16.0		
	9500	CUBA	29	PBI	1645.5		29.5	24.0	12.0		
	6700	CUBA	29	PBI	1646.0		35.4	14.0	7.0		5L
	245	PALE	8	S	1741.0	1742.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1741.0	1742.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1857.0	1857.0	1.0	53.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1942.0	1942.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1945.0	1945.0	1.0	160.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1946.0	1946.0	U	24.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1948.0	1951.0	4.0	350.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1951.0	1951.0	1.0	45.0			QL=4 ST=2 TYP=3
21	245	SVTO	43	NS	0509.0	0534.0U	26.0	99.0			QL=2 ST=3 TYP=1
	127	TORN	44	NS	0620.0E		376.0D		5.0		V=1
	204	IZMI	44	NS	0700.0E		300.0D		20.0		
	235	CUBA	44	NS	1300.0E		530.0D		6.0		
	2840	PEKG	3	S	0151.0	0153.0	11.0	19.9			
	5730	IRKU	4	S/F	0152.9	0153.2	7.1	30.0	U		
	200	HIRA	8	S	0153.0	0153.0	1.0	140.0			0
	5730	IRKU	1	S	0614.1	0616.4	4.9	5.0	U		
	2950	GORK	1	S	0655.3	0656.0	1.3	6.8			
	33	UPIC	46	C	0701.0	0703.5	4.0				UNCERTN
	410	SVTO	8	S	0711.0	0712.0	1.0	89.0			QL=4 ST=3 TYP=3
	600	GORK	42	SER	0712.5	0742.2		15.0			
	600	GORK	42	SER	0712.5	0717.6	31.5	8.0			
	900	GORK	42	SER	0712.7	0742.1		7.0			
	900	GORK	42	SER	0712.7	0717.6	29.6	27.0			
	2950	GORK	41	F	0716.6	0717.4	3.9	5.9			
	2950	GORK	41	F	0716.6	0718.9		5.9			
	410	SVTO	8	S	0731.0	0731.0	1.0	63.0			QL=4 ST=2 TYP=3
	5730	IRKU	1	S	0731.3	0732.5	4.7	17.0	U		
	204	IZMI	7	C	0739.5	0739.6	0.2	31.0			
	5730	IRKU	4	S/F	0743.1	0744.2	4.9	10.0	U		
	2840	PEKG	5	S	0756.0	0759.0	8.0	30.1			
	245	SVTO	4	S/F	0756.0	0757.0	3.0	94.0			QL=4 ST=2 TYP=3
	3000	IZMI	20	GRF	0758.4	0758.9	6.7	43.0			
	5730	IRKU	1	S	0758.5	0759.0	3.5	9.0	U		
	204	IZMI	41	F	0758.5	0759.3	1.0	63.0			
	2950	GORK	3	S	0759.0U	0759.3	3.0D	23.0			
	600	GORK	41	F	0806.3	0810.2		4.9			
	600	GORK	41	F	0806.3	0808.8	10.1	12.0			
	900	GORK	46	C	0807.8	0808.1	1.3	6.2			
	900	GORK	46	C	0807.8	0808.6		12.0			
	3000	IZMI	20	GRF	1032.9	1033.8	60.5	11.0			
	2950	GORK	1	S	1033.3	1033.8	1.5	3.2			
	245	SVTO	8	S	1229.0	1229.0	U	58.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1230.0	1232.0	2.0	68.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1326.0	1326.0	U	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1507.0	1507.0	U	9.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1513.0	1517.0	9.0	16.0			
	2800	PENT	1	S	1545.0	1548.0	6.0	6.0			
	6700	CUBA	1	S	1616.5	1617.0	1.3	7.0	3.0		52R
	9500	CUBA	4	S/F	2120.0	2130.1	11.1	167.0	49.0		
	6700	CUBA	28	PRE	2122.0	2129.0	7.0	7.0	3.0		10R
	9500	CUBA	28	PRE	2124.0		5.0	14.0	7.0		
	2800	PENT	29	PBI	2125.0	2130.0	67.0U	53.0			

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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	2695	PALE	4	S/F	2128.0	2130.0	8.0	40.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	2128.0	2130.0	8.0	220.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2128.0	2130.0	8.0	180.0			QL=4 ST=2 TYP=3
	6700	CUBA	4	S/F	2129.0	2130.0	6.8	154.0	48.0		16R
	4995	PALE	4	S/F	2129.0	2130.0	7.0	91.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	2129.0	2131.0	7.0	25.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	2129.0	2130.0	6.0	88.0			QL=2 ST=2 TYP=3
	8800	SGMR	4	S/F	2129.0	2130.0	6.0	120.0			QL=2 ST=2 TYP=3
	15400	SGMR	4	S/F	2129.0	2130.0	4.0	170.0			QL=4 ST=2 TYP=3
	2800	HIRA	29	PBI	2130.0	2131.0	5.0	40.0			0
	9500	CUBA	29	PBI	2135.0		50.0D	32.0	16.0		
	6700	CUBA	29	PBI	2135.8		45.2	41.0	20.0		7R
22	245	SVTO	43	NS	1041.0	1230.0	140.0	280.0			QL=2 ST=2 TYP=1
	245	SGMR	43	NS	1222.0	1404.0	102.0	450.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	1300.0E		530.0D		17.0		
	280	CUBA	44	NS	1335.0E		495.0D		29.0		
	235	CUBA	44	NS	1335.0E		495.0D		15.0		
	245	PALE	43	NS	2308.0	2308.0	280.0	130.0			QL=4 ST=2 TYP=1
	2800	PENT	40	F	0106.0	0117.0	19.0U	66.0			
	2840	PEKG	45	C	0107.0	0118.0	20.0	46.9			
	4995	PALE	4	S/F	0108.0	0117.0	10.0	110.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0108.0	0117.0	10.0	540.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	0108.0	0117.0	10.0	36.0			QL=4 ST=2 TYP=3
	5730	IRKU	46	C	0108.0	0111.0	67.0	270.0	U		
	15400	PALE	4	S/F	0109.0	0111.0	8.0	1.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	0109.0	0111.0	7.0	140.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0109.0	0110.0	7.0	1.0			QL=4 ST=2 TYP=3
	8800	LEAR	20	GRF	0109.0	0117.0	12.0	190.0			QL=4 ST=2 TYP=2
	8800	PALE	4	S/F	0109.0	0117.0	10.0	54000.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0109.0	0117.0	10.0	1.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	0109.0	0117.0	10.0	36.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0109.0	0118.0	10.0	1.0			QL=4 ST=2 TYP=3
	15400	LEAR	20	GRF	0110.0	0111.0	9.0	140.0			QL=4 ST=2 TYP=2
	1415	LEAR	8	S	0110.0	0111.0	2.0	93.0			QL=4 ST=2 TYP=3
	2695	LEAR	20	GRF	0110.0	0118.0	9.0	73.0			QL=4 ST=2 TYP=2
	4995	LEAR	20	GRF	0110.0	0117.0	10.0	110.0			QL=4 ST=2 TYP=2
	2800	HIRA	46	C	0111.0	0119.0	10.0	50.0			0
	2840	PEKG	5	S	0218.0	0221.0	9.9	11.3			
	1415	LEAR	8	S	0220.0	0221.0	1.0	64.0			QL=4 ST=2 TYP=3
	5730	IRKU	1	S	0242.5	0244.0	4.5	24.0	U		
	5730	IRKU	1	S	0522.5	0523.7	8.5	20.0	U		
	245	SVTO	8	S	0654.0	0654.0	1.0	270.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0700.3	0701.2	3.6	50.0			
	245	SVTO	8	S	0711.0	0712.0	1.0	60.0			QL=4 ST=2 TYP=3
	5730	IRKU	4	S/F	0715.1	0721.0	11.5	40.0	U		
	2950	GORK	2	S/F	0716.3	0717.4	2.5	2.5			
	2950	GORK	2	S/F	0719.9	0720.8	1.9	4.1			
	5730	IRKU	1	S	0755.6	0756.5	4.0	15.0	U		
	2950	GORK	4	S/F	1047.4	1049.3	5.2	12.0			
	3000	IZMI	20	GRF	1047.7	1049.2	23.0	18.0			
	600	GORK	2	S/F	1048.0	1048.8	1.0	6.0			
	900	GORK	40	F	1048.3	1050.1	2.7	5.0			
	204	IZMI	41	F	1130.4	1131.2	1.3	129.0			
	204	IZMI	7	C	1133.3	1133.4	0.2	39.0			
	245	SGMR	8	S	1207.0	1207.0	1.0	58.0			QL=4 ST=2 TYP=3
	127	TORN	40	F	1215.0	1216.0	10.0	10.0	2.0		
	9500	CUBA	21	GRF	1300.0E		164.0D	16.0	8.0		
	410	SVTO	8	S	1300.0	1300.0	U	51.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1304.2	1306.6	4.0	12.0	6.0		
	6700	CUBA	22	GRF	1315.0E	1315.0	161.0D	14.0			OOR SUNRISE
	410	SGMR	8	S	1404.0	1404.0	1.0	210.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1404.0	1404.0	1.0	390.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1404.0	1404.0	1.0	350.0			QL=4 ST=3 TYP=3
	410	SVTO	8	S	1404.0	1404.0	U	220.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1722.0	1722.0	2.0	150.0			QL=4 ST=2 TYP=3
	6700	CUBA	31	ABS	1735.8	1739.4	5.8	-9.0	-4.0		5R
	2800	PENT	29	PBI	1740.0	1743.0	34.0	16.0			
	9500	CUBA	4	S/F	1740.3	1741.6	3.7	130.0	65.0		

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

MARCH 2000

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	6700	CUBA	4	S/F	1742.8	1743.6	3.4	123.0	28.0		14R
	4995	SGMR	8	S	1743.0	1743.0	1.0	92.0			QL=2 ST=2 TYP=3
	8800	SGMR	8	S	1743.0	1743.0	1.0	130.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1743.0	1743.0	1.0	110.0			QL=4 ST=2 TYP=3
	2800	PENT	2	S/F	1815.0	1818.0	6.0	17.0			
	9500	CUBA	28	PRE	1827.0	1836.0	9.0	17.0	8.0		
	2800	PENT	40	F	1833.0	1843.0	59.0U	485.0			
	6700	CUBA	47	GB	1835.8	1843.6	15.7	1459.0			7R
	15400	SGMR	48	C	1836.0	1843.0	26.0	1100.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1836.0	1843.0	23.0	790.0			QL=2 ST=2 TYP=8
	8800	SGMR	49	GB	1836.0	1843.0	26.0	1100.0			QL=4 ST=2 TYP=6
	4995	PALE	48	C	1836.0	1843.0	42.0	690.0			QL=4 ST=2 TYP=8
	9500	CUBA	47	GB	1836.0	1846.6	12.8	1274.0			
	1415	PALE	48	C	1837.0	1843.0	16.0	480.0			QL=4 ST=2 TYP=8
	8800	PALE	49	GB	1837.0	1843.0	17.0	780.0			QL=4 ST=2 TYP=6
	1415	SGMR	48	C	1837.0	1843.0	19.0	440.0			QL=4 ST=2 TYP=8
	15400	PALE	48	C	1837.0	1843.0	25.0	950.0			QL=4 ST=2 TYP=8
	2695	SGMR	49	GB	1837.0	1843.0	25.0	500.0			QL=4 ST=2 TYP=6
	2695	PALE	49	GB	1838.0	1844.0	13.0	500.0			QL=4 ST=2 TYP=6
	610	SGMR	4	S/F	1840.0	1845.0	22.0	80.0			QL=4 ST=2 TYP=3
	610	PALE	48	C	1841.0	1846.0	6.0	94.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	1842.0	1842.0	U	55.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1844.0	1852.0	18.0	85.0			QL=4 ST=2 TYP=8
	410	SGMR	4	S/F	1845.0	1848.0	17.0	69.0			QL=4 ST=2 TYP=3
	9500	CUBA	29	PBI	1848.8		140.2	25.0	12.0		
	6700	CUBA	29	PBI	1851.5		197.5	132.0	66.0		3R
	410	PALE	8	S	1909.0	1910.0	1.0	250.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2113.0	2113.0	1.0	55.0			QL=4 ST=3 TYP=3
	9500	CUBA	20	GRF	2141.0	2209.0	43.0D	10.0			
	245	LEAR	8	S	2329.0	2330.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2335.0	2335.0	1.0	96.0			QL=4 ST=2 TYP=3
23	204	IZMI	43	NS	0700.0		300.0D		25.0		
	245	LEAR	43	NS	0719.0	0814.0	81.0	72.0			QL=4 ST=2 TYP=1
	127	TORN	43	NS	0800.0		460.0		30.0		V=1
	245	SVTO	43	NS	1027.0	1037.0	99.0	140.0			QL=2 ST=2 TYP=1
	245	SGMR	43	NS	1149.0	1249.0	209.0	89.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1300.0E		530.0D		16.0		
	280	CUBA	44	NS	1300.0E		530.0D		30.0		
	245	SVTO	44	NS	1313.0E	1317.0U	20.0D	580.0			QL=2 ST=2 TYP=1
	2800	PENT	1	S	0026.0	0028.0	4.0	14.0			
	2840	PEKG	5	S	0027.0	0029.5	5.0	13.9			
	8800	PALE	8	S	0028.0	0028.0	1.0	96.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	0028.0	0028.0	1.0	95.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0028.0	0028.0	1.0	51.0			QL=4 ST=2 TYP=3
	2800	PENT	45	C	0055.0	0059.0	7.0	20.0			
	2840	PEKG	3	S	0056.0	0059.0	12.0	25.3			
	5730	IRKU	46	C	0057.0	0059.7	12.0	159.0	U		
	4995	LEAR	8	S	0059.0	0059.0	U	84.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0059.0	0059.0	1.0	140.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0059.0	0059.0	1.0	120.0			QL=2 ST=2 TYP=3
	4995	PALE	8	S	0059.0	0059.0	1.0	67.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	0059.0	0059.0	1.0	140.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0059.0	0059.0	1.0	160.0			QL=4 ST=2 TYP=3
	5730	IRKU	1	S	0304.9	0305.8	8.1	20.0	U		
	5730	IRKU	4	S/F	0323.8	0325.4	4.2	39.0	U		
	5730	IRKU	1	S	0416.4	0417.7	3.6	7.0	U		
	200	HIRA	47	GB	0509.0	0509.0	1.0	800.0			0
	245	LEAR	49	GB	0509.0	0509.0	U	2200.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	0509.0	0509.0	U	2000.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	0611.0	0611.0	U	58.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0654.0	0654.0	1.0	220.0			0
	245	LEAR	8	S	0654.0	0654.0	1.0	180.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0712.0	0712.0	U	72.0			QL=4 ST=2 TYP=3
	2950	GORK	1	S	0721.7	0722.4	1.6	3.5			
	5730	IRKU	46	C	0747.3	0802.0	58.7	65.0	U		
	2840	PEKG	45	C	0757.0	0759.5	10.0	16.6			
	2950	GORK	45	C	0758.6	0759.0	4.4	13.6			
	2950	GORK	45	C	0758.6	0802.4		7.6			

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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	2950	GORK	45	C	0758.6	0759.8		20.4			
	3000	IZMI	22	GRF	0758.7	0759.7	1.9	21.0			
	900	GORK	8	S	0758.8	0759.0	0.7	60.0			
	204	IZMI	7	C	1006.7	1006.8	0.3	34.0			
	3000	IZMI	22	GRF	1019.6	1021.9	12.1	16.0			
	2950	GORK	45	C	1021.7	1022.0	4.6	11.1			
	2950	GORK	45	C	1021.7	1025.9		7.1			
	900	GORK	41	F	1024.0	1024.1	1.0	15.0			
	900	GORK	41	F	1024.0	1024.8		32.0			
	245	SVTO	8	S	1045.0	1046.0	1.0	200.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1045.0	1046.0	1.0	160.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1045.5	1046.2	0.9	124.0			
	127	TORN	4	S/F	1106.0	1106.4	1.3	70.0	30.0		
	3000	IZMI	22	GRF	1132.6	1136.2	11.6	14.0			
	8800	SGMR	8	S	1135.0	1135.0	1.0	64.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1135.0	1136.0	1.0	58.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1135.0	1136.0	1.0	110.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1135.0	1136.0	1.0	63.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1250.0	1252.0	2.0	680.0			QL=4 ST=2 TYP=6
	2800	PENT	1	S	1912.0	1915.0	6.0	6.0			
	6700	CUBA	21	GRF	1913.0	2149.0	191.0D	26.0			2R SUNSET
	6700	CUBA	1	S	1915.0	1915.4	1.6	10.0	5.0		34R
	2800	PENT	1	S	2115.0	2149.0	73.0	9.0			
	6700	CUBA	1	S	2140.8	2142.1	3.2	8.0	4.0		25R
	410	PALE	49	GB	2323.0	2324.0	1.0	680.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	2324.0	2324.0	U	370.0			QL=4 ST=2 TYP=3
24	204	IZMI	44	NS	0700.0E		300.0D		20.0		
	127	TORN	43	NS	0756.0		464.0		30.0		V=0
	245	SVTO	43	NS	1022.0	1053.0	95.0	260.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	1300.0E		530.0D		28.0		
	235	CUBA	44	NS	1300.0E		530.0D		12.0		
	2840	PEKG	20	GRF	0357.0	0403.0	12.0	15.1			
	5730	IRKU	4	S/F	0401.7	0403.3	6.3	20.0	U		
	5730	IRKU	20	GRF	0419.6	0424.0	9.4	10.0	U		
	5730	IRKU	4	S/F	0431.3	0431.9	15.7	36.0	U		
	2840	PEKG	47	GB	0737.0	0748.0	110.0	603.0			
	200	HIRA	42	SER	0743.0	0743.0	5.0	120.0			0
	4995	LEAR	49	GB	0744.0	0746.0	13.0	1700.0			QL=4 ST=2 TYP=6
	2695	LEAR	49	GB	0744.0	0747.0	13.0	610.0			QL=4 ST=2 TYP=6
	8800	LEAR	49	GB	0744.0	0746.0	13.0	1600.0			QL=2 ST=2 TYP=6
	15400	LEAR	49	GB	0744.0	0747.0	17.0	2200.0			QL=4 ST=2 TYP=6
	4995	SVTO	49	GB	0744.0	0746.0	16.0	2000.0			QL=4 ST=2 TYP=6
	8800	SVTO	48	C	0744.0	0746.0	13.0	1700.0			QL=4 ST=2 TYP=8
	15400	SVTO	49	GB	0744.0	0748.0	19.0	1900.0			QL=4 ST=2 TYP=6
	2695	SVTO	49	GB	0744.0	0747.0	13.0	570.0			QL=4 ST=2 TYP=6
	5730	IRKU	48	C	0744.0	0746.2	91.0D	2800.0	U		
	3000	IZMI	46	C	0744.2	0747.7	44.9	616.0			
	2950	GORK	47	GB	0744.3	0747.7	15.7	640.0			
	2800	HIRA	46	C	0745.0	0748.0	13.0	500.0			0
	1415	LEAR	49	GB	0745.0	0747.0	11.0	730.0			QL=4 ST=2 TYP=6
	1415	SVTO	49	GB	0745.0	0747.0	12.0	740.0			QL=4 ST=2 TYP=6
	33	UPIC	32	ABS	0745.0	0752.0	44.0				
	900	GORK	46	C	0746.2	0748.1	10.0	210.0			
	900	GORK	46	C	0746.2	0750.3		210.0			
	500	HIRA	46	C	0747.0	0753.0	10.0	280.0			0
	600	GORK	46	C	0748.0	0753.0		460.0			
	610	SVTO	4	S/F	0748.0	0751.0	8.0	400.0			QL=4 ST=2 TYP=3
	600	GORK	46	C	0748.0	0751.2	15.4	540.0			
	610	LEAR	4	S/F	0749.0	0751.0	7.0	450.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0749.1	0759.1	23.2	65.0			
	410	SVTO	4	S/F	0750.0	0751.0	6.0	52.0			QL=4 ST=2 TYP=3
	245	SVTO	48	C	0750.0	0755.0	11.0	100.0			QL=4 ST=2 TYP=8
	127	TORN	47	GB	0750.7	0754.0	4.0	1400.0	270.0		
	410	LEAR	8	S	0751.0	0751.0	U	38.0			QL=4 ST=2 TYP=3
	2950	GORK	30	PBI	0800.0	0800.0	30.0	15.0			
	127	TORN	40	F	0802.0	0803.0	10.0	90.0	30.0		
	2950	GORK	45	C	0807.5	0809.0	11.5	13.0			
	2950	GORK	45	C	0807.5	0813.6		20.0			

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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	900	GORK	46	C	0812.0	0815.6		16.0			
	600	GORK	4	S/F	0812.0	0813.8	3.0	15.0			
	900	GORK	46	C	0812.0	0813.9	5.1	40.0			
	600	GORK	4	S/F	0822.5	0826.5	5.7	18.0			
	900	GORK	4	S/F	0822.7	0826.4	6.1	35.0			
	2950	GORK			0832.5	0836.0U	74.2	20.0U			
	2950	GORK			0832.5	0859.5		53.0			
	3000	IZMI	45	C	0832.8	0835.4	51.6	64.0			
	4995	LEAR	4	S/F	0833.0	0835.0	6.0	58.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0833.0	0835.0	10.0	74.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0833.0	0834.0	12.0	110.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	0833.0	0844.0	11.0	74.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	0833.0	0835.0	12.0	72.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0833.0	0835.0	21.0	99.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0833.0	0834.0	23.0	84.0			QL=4 ST=2 TYP=3
	900	GORK			0833.0	0836.0U	13.0	99.0U			
	600	GORK	46	C	0833.3	0837.2		60.0			
	600	GORK	46	C	0833.3	0834.5	4.9	70.0			
	610	LEAR	4	S/F	0834.0	0834.0	3.0	59.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0834.0	0834.0	1.0	31.0			QL=4 ST=2 TYP=3
	600	GORK	30	PBI	0838.2	0838.2	11.4	19.0			
	600	GORK	4	S/F	0839.0	0840.2	2.1	11.0			
	900	GORK	4	S/F	0851.5	0853.4	2.5	25.0			
	600	GORK	22	GRF	0854.5	0903.2		18.0			
	600	GORK	22	GRF	0854.5	0859.4	15.6	19.0			
	900	GORK	4	S/F	0857.9	0900.0	18.9	110.0			
	900	GORK	4	S/F	0930.7	0933.0U	8.0	90.0U			
	600	GORK	4	S/F	0931.1	0934.2	7.4	8.9			
	204	IZMI	42	SER	1111.3	1112.5	2.7	123.0			
	33	UPIC	32	ABS	1127.5	1130.0	8.5				
	33	UPIC	46	C	1140.5	1141.0	1.5				
	2800	PENT	45	C	1505.0	1526.0	51.0	14.0			
	6700	CUBA	21	GRF	1509.0	1540.0	50.0	10.0	5.0		7R
	9500	CUBA	1	S	1517.0	1518.0	2.0	79.0	39.0		
	6700	CUBA	1	S	1519.0	1520.0	2.0	23.0	11.0		7L
	8800	SGMR	8	S	1519.0	1519.0	2.0	80.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1519.0	1520.0	2.0	440.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1519.0	1520.0	1.0	65.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1519.0	1520.0	1.0	350.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1519.0	1519.5	1.5				
	1415	SVTO	8	S	1534.0	1534.0	U	45.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2129.0	2129.0	U	65.0			QL=4 ST=2 TYP=3
25	127	TORN	43	NS	0638.0		560.0D		190.0		V=1
	204	IZMI	44	NS	0700.0E		300.0D		25.0		
	235	CUBA	44	NS	1300.0E		530.0D		21.0		
	280	CUBA	44	NS	1300.0E		530.0D		34.0		
	5730	IRKU	1	S	0453.0	0453.8	2.0	20.0	U		
	2950	GORK	1	S	0620.4	0621.0	1.5	3.4			
	900	GORK	22	GRF	0704.5	0712.3		11.0			
	900	GORK	22	GRF	0704.5U	0706.5	26.1E	12.0			
	600	GORK	22	GRF	0704.8	0718.6		9.0			
	600	GORK	22	GRF	0704.8	0709.7	19.8	12.0			
	2950	GORK	22	GRF	0746.7	0755.0	12.8	6.9			
	2950	GORK	22	GRF	0746.7	0758.1		4.3			
	204	IZMI	7	C	0917.7	0918.2	0.7	153.0			
	2950	GORK	2	S/F	0938.0	0940.7	5.6	6.9			
	410	SVTO	8	S	1001.0	1001.0	U	80.0			QL=4 ST=2 TYP=3
	127	TORN	47	GB	1152.6	1154.0U	4.7	230.0D	170.0D		
	1415	PALE	8	S	2232.0	2233.0	2.0	30.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2233.0	2234.0	2.0	620.0			QL=4 ST=2 TYP=6
	200	HIRA	46	C	2234.0	2235.0	2.0	340.0			WR
	410	PALE	8	S	2236.0	2237.0	2.0	160.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2236.0	2237.0	2.0	64.0			QL=4 ST=2 TYP=3
26	204	IZMI	44	NS	0600.0E		360.0D		40.0		
	127	TORN	44	NS	0620.0E		560.0D		80.0		V=2
	245	SGMR	43	NS	1134.0	1149.0	93.0	88.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1134.0	1149.0	104.0	79.0			QL=4 ST=2 TYP=1

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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	LEAR	49	GB	0259.0	0300.0	1.0	500.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	0300.0	0300.0	U	760.0			QL=4 ST=2 TYP=6
	245	PALE	8	S	0313.0	0313.0	U	130.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0631.8	0631.9	0.2	199.0			
	900	GORK	40	F	0646.8	0647.2	1.2	3.2			
	245	LEAR	8	S	0647.0	0648.0	1.0	180.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0647.0	0648.0	1.0	180.0			QL=2 ST=2 TYP=3
	600	GORK	41	F	0647.0	0647.2	1.5	9.4			
	600	GORK	41	F	0647.0	0647.8		23.0			
	2950	GORK	2	S/F	0727.4	0728.0	1.0	2.4			
	245	SVTO	4	S/F	1036.0	1038.0	6.0	80.0			QL=2 ST=2 TYP=3
	3000	IZMI	20	GRF	1037.5	1041.4	11.1	24.0			
	204	IZMI	42	SER	1040.1	1041.2	3.8	127.0			
	2800	PENT	1	S	1729.0	1731.0	7.0	14.0			
	410	SGMR	4	S/F	1730.0	1730.0	3.0	36.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1730.0	1731.0	6.0	52.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1730.0	1731.0	3.0	83.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1731.0	1731.0	5.0	38.0			QL=2 ST=2 TYP=3
	15400	SGMR	4	S/F	1731.0	1731.0	5.0	44.0			QL=4 ST=2 TYP=3
	9500	CUBA	4	S/F	1834.2	1835.2	3.6	297.0	111.0		
27	127	TORN	43	NS	0653.0		437.0		1.0		V=1
	235	CUBA	44	NS	1300.0E		530.0D		8.0		
	280	CUBA	44	NS	1300.0E		530.0D		17.0		
	5730	IRKU	31	ABS	0110.0	0110.8	33.0	48.0	U		
	5730	IRKU	45	C	0318.3	0318.9	10.7	26.0	U		
	2840	PEKG	1	S	0513.0	0517.0	5.0	7.8			
	8800	SVTO	4	S/F	0513.0	0515.0	7.0	82.0			QL=2 ST=2 TYP=3
	15400	SVTO	4	S/F	0513.0	0515.0	7.0	110.0			QL=2 ST=2 TYP=3
	5730	IRKU	4	S/F	0513.3	0515.4	12.5	70.0	U		
	8800	LEAR	8	S	0514.0	0515.0	2.0	70.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0515.0	0515.0	U	37.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0515.0	0515.0	U	45.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0515.0	0515.0	U	33.0			QL=2 ST=2 TYP=3
	2950	GORK	41	F	0639.0	0648.6		5.5			
	2950	GORK	41	F	0639.0	0644.9	11.1	8.8			
	900	GORK	41	F	0641.1	0650.1		18.0			
	900	GORK	41	F	0641.1	0648.9	11.1	25.0			
	204	IZMI	42	SER	0642.0	0643.8	2.2	134.0			
	204	IZMI	46	C	0644.2	0647.8	6.9	358.0			
	127	TORN	47	GB	0646.8	0648.0	6.0	1400.0	400.0		
	200	HIRA	46	C	0647.0	0648.0	2.0	280.0			0
	245	LEAR	8	S	0703.0	0703.0	U	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0703.0	0703.0	1.0	130.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0703.0	0703.6	1.9	282.0			
	3000	IZMI	23	GRF	1034.9	1037.8	9.7	21.0			
	204	IZMI	41	F	1051.7	1052.1	2.9	28.0			
	127	TORN	4	S/F	1236.0	1236.5	1.4	130.0	60.0		
	8800	SGMR	4	S/F	1358.0	1359.0	3.0	92.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1358.0	1359.0	2.0	110.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1358.0	1359.0	2.0	87.0			QL=4 ST=2 TYP=3
	6700	CUBA	3	S	1358.3	1359.0	3.7	108.0	54.0		9L
	9500	CUBA	4	S/F	1358.3	1359.2	2.7	107.0	27.0		
	15400	SGMR	8	S	1359.0	1359.0	2.0	93.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1359.0	1359.0	2.0	27.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1359.0	1359.0	2.0	71.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	1359.0	1359.0	U	65.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1531.0	1532.2	5.6	16.0	8.0		
	2800	PENT	40	F	2111.0	2114.0	8.0	13.0			
	15400	SGMR	8	S	2114.0	2114.0	1.0	52.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2114.0	2114.0	1.0	35.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	2114.2	2115.0	4.8	19.0	9.0		5L
	9500	CUBA	4	S/F	2114.4	2114.8	7.8	46.0	23.0		
28	204	IZMI	43	NS	0600.0		140.0U		5.0		
	127	TORN	43	NS	0826.0		100.0		5.0		V=0
	235	CUBA	44	NS	1315.0E		515.0D		7.0		
	280	CUBA	44	NS	1315.0E		515.0D		17.0		
	5730	IRKU	4	S/F	0128.7	0137.0	16.3	15.0	U		

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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28	1415	LEAR	8	S	0135.0	0135.0	U	59.0			QL=4 ST=2 TYP=3
	5730	IRKU	1	S	0215.6	0216.9	10.4	11.0	U		
	245	LEAR	8	S	0304.0	0304.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0307.0	0307.0	U	72.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0507.0	0508.0	1.0	72.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0507.0	0508.0	1.0	81.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	0602.0	0602.5	1.5				
	410	SVTO	8	S	0613.0	0613.0	U	120.0			QL=4 ST=2 TYP=3
	2950	GORK	40	F	0640.4	0651.0	11.6	9.6			
	900	GORK	46	C	0649.1	0649.3	0.9	23.0			
	900	GORK	46	C	0649.1	0649.7		23.0			
	15400	SVTO	8	S	0655.0	0655.0	1.0	53.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0655.0	0655.0	U	25.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	0655.5	0658.0	4.5				UNCERTN
	245	SVTO	4	S/F	0717.0	0721.0	4.0	72.0			QL=4 ST=3 TYP=3
	245	LEAR	8	S	0720.0	0721.0	1.0	68.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0945.0	0945.0	1.0	97.0			QL=4 ST=2 TYP=3
	3000	IZMI	20	GRF	1054.1	1056.7	11.0	12.0			
29	127	TORN	43	NS	0808.0		330.0		9.0		V=1
	280	CUBA	44	NS	1300.0E		530.0D		18.0		
	235	CUBA	44	NS	1300.0E		530.0D		7.0		
	245	LEAR	4	S/F	0416.0	0418.0	5.0	350.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0512.0	0515.0	10.0	19.2			
	5730	IRKU	4	S/F	0514.0	0515.8	5.7	36.0	U		
	2950	GORK	1	S	0653.3	0653.8	1.1	6.8			
	5730	IRKU	4	S/F	0845.3	0846.9	4.0	10.0	U		
	2950	GORK	2	S/F	0846.3	0846.8	2.6	8.0			
	33	UPIC	46	C	0905.0	0907.0	4.5				
	204	IZMI	42	SER	0935.4	0939.2	10.5	284.0			
	245	LEAR	8	S	0938.0	0939.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0939.0	0939.0	U	170.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	0939.5	0940.0	4.5				
	204	IZMI	42	SER	1127.9	1132.5	7.6	127.0			
	33	UPIC	46	C	1128.0	1129.0	5.0				
	2800	PENT	3	S	1834.0	1843.0	18.0	5.0			
	6700	CUBA	1	S	1841.0	1843.6	6.0	10.0	5.0		6R
30	280	CUBA	44	NS	1300.0E		530.0D		17.0		
	235	CUBA	44	NS	1300.0E		530.0D		7.0		
	200	HIRA	47	GB	0043.0	0043.0	1.0	1100.0			0
	245	LEAR	8	S	0044.0	0044.0	U	450.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0044.0	0044.0	1.0	35.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	0052.0	0057.0	12.0	17.0			
	2840	PEKG	5	S	0054.0	0057.0	8.0	15.4			
	1415	LEAR	4	S/F	0055.0	0057.0	5.0	38.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0055.0	0057.0	4.0	20.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0055.0	0057.0	5.0	72.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0055.0	0057.0	8.0	72.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0055.0	0058.0	6.0	67.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0055.0	0058.0	5.0	67.0			QL=4 ST=2 TYP=3
	200	HIRA	42	SER	0056.0	0057.0	2.0	90.0			0
	4995	LEAR	4	S/F	0056.0	0057.0	3.0	20.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0056.0	0056.0	3.0	33.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0056.0	0057.0	5.0	31.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	0056.0	0058.0	5.0	110.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0057.0	0057.0	1.0	50.0			0
	410	PALE	4	S/F	0058.0	0058.0	3.0	80.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0420.0	0420.0	1.0	58.0			QL=4 ST=2 TYP=3
	2950	GORK	3	S	0702.8	0703.5	12.8	64.0U			
	2840	PEKG	3	S	0704.0	0709.0	12.0	73.8			
	3000	IZMI	20	GRF	0704.5	0709.6	12.0	107.0			
	200	HIRA	46	C	0706.0	0706.0	4.0	70.0			MR
	245	LEAR	8	S	0706.0	0706.0	1.0	37.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0706.2	0707.0	4.5	134.0			
	5730	IRKU	46	C	0706.8	0709.6	83.7	167.0	U		
	4995	SVTO	4	S/F	0707.0	0709.0	5.0	160.0			QL=4 ST=2 TYP=3
	600	GORK	1	S	0707.2	0709.8	4.8	7.3			
	900	GORK	3	S	0707.2	0709.8	5.5	14.0			

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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	2800	HIRA	3	S	0708.0	0710.0	4.0	60.0			0
	8800	LEAR	4	S/F	0708.0	0709.0	3.0	56.0			QL=2 ST=2 TYP=3
	4995	LEAR	4	S/F	0708.0	0709.0	3.0	150.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0708.0	0709.0	2.0	87.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0708.0	0709.0	3.0	67.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0708.0	0709.0	3.0	81.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0709.0	0709.0	1.0	32.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0709.0	0709.0	U	23.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0741.1	0741.5	0.6	32.0			
	600	GORK	40	F	0832.2	0832.4	1.9	10.0			
	900	GORK	40	F	0833.6	0835.2	2.3	29.0			
	204	IZMI	41	F	0904.4	0904.6	1.1	141.0			
	204	IZMI	45	C	0912.8	0913.0	0.6	153.0			
	245	SVTO	8	S	0919.0	0919.0	U	76.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0919.4	0919.4	0.4	1022.0			
	3000	IZMI	5	S	0932.8	0935.1	3.9	15.0			
	2950	GORK	1	S	0933.5	0935.1	3.8	7.3			
	245	LEAR	8	S	1002.0	1003.0	1.0	180.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1002.0	1003.0	1.0	280.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	1002.0	1003.2	2.4	266.0			
	3000	IZMI	7	C	1002.2	1003.5	1.4	20.0			
	127	TORN	47	GB	1002.3	1003.2	2.1	1400.0	700.0		
	33	UPIC	48	C	1002.5	1005.0	3.5				
	204	IZMI	7	C	1057.9	1058.1	0.4	50.0			
	204	IZMI	41	F	1121.2	1121.4	0.6	79.0			
	127	TORN	45	C	1207.3	1208.2	2.0	40.0	10.0		
	245	SVTO	8	S	1251.0	1251.0	1.0	440.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1301.0	1302.0	1.0	170.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1305.0	1305.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1309.0	1309.0	1.0	84.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1309.0	1309.0	U	72.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1324.0	1325.0	1.0	80.0			QL=4 ST=2 TYP=3
	6700	CUBA	20	GRF	1557.0	1609.0	52.0	14.0	7.0		OOL
	9500	CUBA	20	GRF	1601.0	1605.0	39.0	21.0	10.0		
	8800	SGMR	20	GRF	1604.0	1609.0	17.0	17.0			QL=4 ST=2 TYP=2
	15400	SGMR	20	GRF	1604.0	1614.0	23.0	21.0			QL=4 ST=2 TYP=2
	4995	SGMR	20	GRF	1604.0	1610.0	23.0	24.0			QL=4 ST=2 TYP=2
31	204	IZMI	44	NS	0600.0E		360.0D		5.0		
	127	TORN	43	NS	0720.0		500.0		20.0		V=2
	235	CUBA	44	NS	1300.0E		530.0D		10.0		
	280	CUBA	44	NS	1300.0E		530.0D		21.0		
	245	SVTO	43	NS	1337.0	1355.0	20.0	120.0			QL=2 ST=2 TYP=1
	5730	IRKU	20	GRF	0510.5	0517.0	34.5	12.0	U		
	5730	IRKU	21	GRF	0618.0	0634.5	57.0D	62.0	U		
	2950	GORK	46	C	0623.4	0629.0	27.9	18.0			
	2950	GORK	46	C	0623.4	0634.5		35.0			
	600	GORK	40	F	0625.4	0631.0	26.0	5.7			
	3000	IZMI	23	GRF	0627.7	0634.5	33.2	40.0			
	900	GORK	46	C	0627.8	0629.2	15.2	14.0			
	900	GORK	46	C	0627.8	0635.8		20.0			
	4995	LEAR	4	S/F	0633.0	0634.0	4.0	32.0			QL=4 ST=3 TYP=3
	2695	LEAR	4	S/F	0633.0	0634.0	5.0	46.0			QL=4 ST=3 TYP=3
	1415	LEAR	8	S	0635.0	0636.0	1.0	27.0			QL=4 ST=3 TYP=3
	245	LEAR	8	S	0705.0	0705.0	2.0	94.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0705.0	0705.0	2.0	130.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0705.7	0705.8	0.3	91.0			
	900	GORK	2	S/F	0706.0	0707.3	3.0	9.0			
	600	GORK	46	C	0706.6	0707.2	2.1	14.0			
	600	GORK	46	C	0706.6	0708.5		6.5			
	2950	GORK	2	S/F	0707.0	0707.5	1.0	3.3			
	900	GORK	42	SER	0732.8	0749.0		47.0			
	900	GORK	42	SER	0732.8	0740.1	25.0	9.0			
	2950	GORK	42	SER	0745.1	0754.0		6.5			
	2950	GORK	42	SER	0745.1	0745.8	12.5	37.0			
	204	IZMI	41	F	0825.8	0826.0	0.6	51.0			
	3000	IZMI	45	C	1014.6	1015.8	8.0	155.0			
	8800	SVTO	4	S/F	1015.0	1016.0	6.0	210.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1015.0	1016.0	3.0	99.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 2000

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
31	15400	SVTO	4	S/F	1015.0	1016.0	5.0	240.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1015.0	1016.0	4.0	130.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1015.0	1016.0	3.0	120.0			QL=4 ST=2 TYP=3
	33	UPIC	32	ABS	1016.0	1019.0	18.0				
	245	SVTO	8	S	1018.0	1018.0	U	99.0			QL=4 ST=2 TYP=3
	127	TORN	4	S/F	1018.0	1019.9	2.0	150.0	80.0		
	204	IZMI	45	C	1018.3	1018.4	0.9	130.0			
	204	IZMI	25	R	1028.0		38.0		45.0		
	33	UPIC	42	SER	1308.0	1333.5	40.0				
	15400	SGMR	4	S/F	1315.0	1315.0	4.0	100.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1315.0	1315.0	4.0	86.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1315.0	1316.0	4.0	130.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1315.0	1316.0	4.0	56.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1315.0	1315.0	2.0	67.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1315.0	1316.0	2.0	110.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1315.0	1315.0	U	28.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1315.0	1315.0	2.0	91.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1315.0	1316.0	3.0	51.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1315.0	1315.0	1.0	57.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	1315.0	1315.8	3.7	70.0	35.0		7R
	9500	CUBA	46	C	1315.0	1315.9	3.3	65.0	32.0		
	127	TORN	48	C	1330.7	1332.0	4.0	660.0	170.0		
	245	SGMR	8	S	1337.0	1338.0	2.0	57.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1341.0	1341.0	U	68.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1429.0	1429.0	1.0	65.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1429.0	1429.0	2.0	56.0			QL=4 ST=3 TYP=3
	2800	PENT	1	S	1554.0	1556.0	5.0	4.0			
	33	UPIC	46	C	1558.0	1558.5	1.5				
	9500	CUBA	21	GRF	1651.0	1657.0	19.0	13.0	6.0		
	9500	CUBA	2	S/F	1653.5	1654.0	2.3	21.0	10.0		
	6700	CUBA	2	S/F	1653.6	1655.8	3.6	11.0	5.0		12R
	2800	PENT	40	F	1801.0	1848.0	91.0U	25.0			
	9500	CUBA	20	GRF	1845.0	1859.0	74.0	16.0	8.0		
	6700	CUBA	20	GRF	1847.0	1857.0	61.0	15.0	7.0		15R
	410	SGMR	8	S	1849.0	1849.0	1.0	170.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	2221.0	2224.0	5.0	4.0			

Reports are received routinely from the following observatories:

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

Explanation of Type Code:

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

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

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