SOLAR RADIO EMISSION
Outstanding Occurrences

JANUARY 2002

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	235	CUBA	44	NS	1310.0E		520.0D		7.0		
	280	CUBA	44	NS	1310.0E		520.0D		16.0		
	500	HIRA	8	S	0532.0	0532.0	1.0	35.0			0
	2840	PEKG	5	S	0533.0	0535.6	8.0	27.6			
	2840	PEKG	3	S	0609.0	0623.8	43.0	89.0			
	2840	PEKG	1	S	0756.0	0759.2	8.0	7.4			
	245	LEAR	8	S	1018.0	1018.0	U	170.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	1018.0	1018.0	U	100.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1209.0	1209.0	1.0	72.0			QL=4 ST=2 TYP=3
02	235	CUBA	44	NS	1400.0E		470.0D		6.0		
	280	CUBA	44	NS	1400.0E		470.0D		17.0		
	245	LEAR	8	S	0322.0	0323.0	1.0	47.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0323.0	0323.0	1.0	60.0			0
	4995	LEAR	48	C	0621.0	0623.0	8.0	55.0			QL=4 ST=2 TYP=8
	2695	LEAR	48	C	0621.0	0623.0	23.0	66.0			QL=4 ST=2 TYP=8
	8800	LEAR	8	S	0758.0	0759.0	1.0	25.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0917.9	0917.9	0.1	16.0			
	3000	IZMI	7	C	1006.2	1006.5	0.4	11.0	6.0		
	3000	IZMI	7	C	1113.8	1114.2	2.1	25.0	6.0		
	204	IZMI	41	F	1129.8	1129.9	0.5	54.0			
	204	IZMI	7	C	1130.3	1131.0	1.1	12.0			
	2695	SGMR	8	S	1250.0	1250.0	1.0	21.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1250.0	1250.0	5.0	61.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1250.0	1250.0	2.0	33.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1250.0	1250.0	1.0	30.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1250.0	1250.0	8.0	56.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1455.0	1455.0	U	56.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1455.0	1455.0	U	100.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1504.0	1504.0	U	24.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1504.0	1504.0	U	52.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1504.0	1504.0	U	23.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1504.0	1504.0	U	33.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1504.0	1504.0	U	53.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1504.0	1504.0	U	39.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1638.0	1638.0	U	24.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1638.0	1638.0	U	85.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1638.0	1638.0	U	22.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1752.0	1752.0	1.0	180.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1752.0	1753.0	1.0	88.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2145.0	2145.0	1.0	45.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	2145.0	2145.0	1.0	61.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2145.0	2145.0	1.0	120.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2145.0	2145.0	1.0	110.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2145.0	2145.0	1.0	90.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2148.0	2148.0	U	260.0			QL=4 ST=2 TYP=3
03	127	TORN	44	NS	0740.0E		300.0D				V=1
	235	CUBA	44	NS	1305.0E		525.0D		6.0		
	280	CUBA	44	NS	1305.0E		525.0D		18.0		
	200	HIRA	7	C	0021.0	0024.0	3.0	15.0			WR
	2840	PEKG	5	S	0022.0	0024.3	5.0	27.7			
	500	HIRA	7	C	0211.0	0214.0	5.0	340.0			ML
	2840	PEKG	20	GRF	0212.0	0214.4	7.0	6.2			
	610	PALE	8	S	0213.0	0214.0	1.0	160.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0214.0	0214.0	U	69.0			QL=4 ST=2 TYP=3
	410	PALE	48	C	0216.0	0216.0	1.0	99.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	0217.0	0217.0	U	33.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0233.0	0235.0	5.0	14.4			
	410	LEAR	8	S	0234.0	0234.0	U	92.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0234.0	0234.0	U	43.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0234.0	0234.0	U	420.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0235.0	0235.0	1.0	85.0			0
	610	LEAR	8	S	0411.0	0412.0	1.0	130.0			QL=4 ST=2 TYP=3
	600	GORK	4	S/F	0715.8	0716.0	0.5	48.0			
	245	LEAR	8	S	1021.0	1021.0	U	230.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	1021.0	1021.0	U	120.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1707.0	1711.0	9.0	11.0			
	610	SGMR	8	S	1711.0	1711.0	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

JANUARY 2002

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
03	2800	PENT	29	PBI	2105.0	2113.0	27.0U	5.0			
	200	HIRA	8	S	2342.0	2342.0	1.0	95.0			0
04	204	IZMI	43	NS	0700.0		300.0D		10.0		
	245	SGMR	43	NS	1250.0	1251.0	31.0	72.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1250.0	1251.0	670.0	72.0			QL=4 ST=1 TYP=1
	235	CUBA	44	NS	1400.0E		470.0D		6.0		
	280	CUBA	44	NS	1400.0E		470.0D		22.0		
	245	LEAR	8	S	0005.0	0006.0	1.0	120.0			QL=2 ST=2 TYP=3
	200	HIRA	8	S	0153.0	0154.0	1.0	35.0			0
	245	LEAR	8	S	0154.0	0154.0	U	53.0			QL=2 ST=2 TYP=3
	200	HIRA	8	S	0327.0	0327.0	1.0	225.0			0
	245	LEAR	8	S	0327.0	0327.0	U	190.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0327.0	0327.0	U	360.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0508.0	0508.0	1.0	40.0			WR
	2840	PEKG	1	S	0510.0	0511.9	4.0	4.9			
	204	IZMI	42	SER	0814.4	0815.2	0.9	15.0			
	600	GORK	40	F	0815.4	0820.4	5.5	16.0			
	204	IZMI	42	SER	0827.7	0827.8	0.3	63.0			
	204	IZMI	42	SER	0927.6	0936.9	12.7	72.0			
	204	IZMI	41	F	0942.8	0942.9	0.3	49.0			
	235	CUBA	7	C	1651.8	1652.2	1.7	64.0	32.0		
	280	CUBA	7	C	1651.8	1652.2	1.7	35.0U	17.0		
	245	SGMR	8	S	1655.0	1655.0	U	120.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1855.0	1900.0	32.0	12.0			
	2800	PENT	41	F	2031.0	2039.0	14.0	12.0			
	2800	PENT	24	R	2116.0	2126.0	16.0U	11.0			
05	235	CUBA	44	NS	1300.0E		530.0D		5.0		
	280	CUBA	44	NS	1300.0E		530.0D		16.0		
	2840	PEKG	1	S	0057.0	0059.9	6.0	6.4			
	2840	PEKG	5	S	0250.0	0251.6	5.0	14.2			
	2840	PEKG	1	S	0303.0	0305.6	5.0	4.7			
	200	HIRA	8	S	0305.0	0305.0	1.0	30.0			0
	200	HIRA	8	S	0316.0	0316.0	1.0	40.0			WR
	2840	PEKG	5	S	0705.0	0708.0	6.0	11.3			
	600	GORK	4	S/F	0719.0	0719.1	0.6	50.0			
	245	SVTO	8	S	1018.0	1018.0	U	94.0			QL=4 ST=2 TYP=3
	3000	IZMI	22	GRF	1023.9	1040.1	27.9	20.0	10.0		
	245	SVTO	8	S	1044.0	1044.0	U	55.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1704.0	1708.0	9.0	20.0			
	2800	PENT	20	GRF	1833.0	1840.0	17.0	9.0			
	245	PALE	49	GB	2148.0	2150.0	4.0	9800.0			QL=4 ST=2 TYP=6
06	245	LEAR	8	S	0042.0	0042.0	1.0	86.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0042.0	0042.0	1.0	21.0			QL=2 ST=2 TYP=3
	200	HIRA	47	GB	0135.0	0135.0	1.0	1730.0			0
	245	LEAR	49	GB	0135.0	0135.0	U	1100.0			QL=2 ST=2 TYP=6
	127	TORN	4	S/F	0729.6	0730.0	8.0	100.0	50.0		
	204	IZMI	42	SER	0915.8	0916.2	0.4	31.0			
	900	GORK	40	F	0925.4	0927.9	3.3	26.0			
	600	GORK	2	S/F	0928.0	0928.2	0.4	8.0			
	610	SGMR	8	S	1444.0	1444.0	U	63.0			QL=4 ST=2 TYP=3
07	127	TORN	43	NS	0750.0		370.0		12.0		V=0
	245	PALE	48	C	0020.0	0020.0	U	58.0			QL=4 ST=2 TYP=8
	245	LEAR	8	S	0023.0	0023.0	1.0	56.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0641.0	0644.3	6.0	14.3			
	33	UPIC	45	C	1010.0	1011.0	2.0				
	204	IZMI	42	SER	1026.5	1026.6	0.4	60.0			
	2800	PENT	21	GRF	2045.0	2130.0	47.0U	11.0			
08	127	TORN	44	NS	0730.0E		410.0D		7.0		V=0
	235	CUBA	44	NS	1620.0E		330.0D		4.0		
	280	CUBA	44	NS	1620.0E		330.0D		16.0		
	2840	PEKG	1	S	0048.0	0050.5	5.0	2.3			
	600	GORK	40	F	0717.4	0717.6	0.6	6.2			
	900	GORK	7	C	0717.5	0717.6	0.5	7.1			
	900	GORK	7	C	0717.5	0717.8		5.5			

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

JANUARY 2002

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	600	GORK	3	S	0825.3	0825.5	0.4	9.3			
	600	GORK	40	F	0842.5	0842.7	0.5	7.3			
	900	GORK	1	S	0842.5	0842.8	0.5	4.8			
	2800	PENT	29	PBI	1709.0	1719.0	23.0U	31.0			
	235	CUBA	7	C	1725.1	1725.3	1.0	21.0	10.0		
	280	CUBA	7	C	1725.1	1725.3	1.0	15.0U	15.0		
	245	SGMR	8	S	1726.0	1726.0	U	23.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1726.0	1726.0	U	23.0			QL=4 ST=4 TYP=3
	2800	PENT	20	GRF	1835.0	1844.0	54.0	13.0			
09	127	TORN	43	NS	0850.0		240.0		7.0		V=0
	280	CUBA	44	NS	1400.0E		470.0D		16.0		
	235	CUBA	44	NS	1500.0E		410.0D		4.0		
	600	GORK	4	S/F	0730.9	0731.2	0.5	30.0			
	600	GORK	40	F	0759.7	0800.6	7.8	12.0			
	610	LEAR	8	S	0817.0	0818.0	1.0	82.0			QL=2 ST=2 TYP=3
	600	GORK	45	C	0817.5	0818.0	1.0	100.0			
	600	GORK	45	C	0817.5	0818.2		150.0U			
	410	LEAR	8	S	0818.0	0818.0	U	24.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	0818.0	0818.0	U	28.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0818.0	0818.0	U	85.0			QL=4 ST=2 TYP=3
	900	GORK	3	S	0818.1	0818.2	0.3	17.0			
	900	GORK	42	SER	0858.5	0901.8	3.5	27.0			
	600	GORK	40	F	0933.9	0934.0	1.1	16.0			
	900	GORK	1	S	0943.1	0943.5	0.7	4.6			
	4995	PALE	49	GB	1750.0	1757.0	370.0	570.0			QL=4 ST=1 TYP=6
	1415	SGMR	49	GB	1751.0	1757.0	8.0	630.0			QL=4 ST=2 TYP=6
	4995	SGMR	49	GB	1751.0	1757.0	8.0	560.0			QL=4 ST=2 TYP=6
	8800	SGMR	49	GB	1751.0	1757.0	8.0	820.0			QL=4 ST=2 TYP=6
	4995	SGMR	49	GB	1751.0	1757.0	369.0	580.0			QL=4 ST=1 TYP=6
	4995	SGMR	49	GB	1751.0	1757.0	369.0	590.0			QL=4 ST=1 TYP=6
	8800	SGMR	49	GB	1751.0	1757.0	369.0	800.0			QL=4 ST=1 TYP=6
	8800	SGMR	49	GB	1751.0	1757.0	369.0	820.0			QL=4 ST=1 TYP=6
	2695	SGMR	4	S/F	1752.0	1757.0	7.0	230.0			QL=4 ST=2 TYP=3
	4995	PALE	49	GB	1752.0	1757.0	21.0	570.0			QL=4 ST=2 TYP=6
	8800	PALE	49	GB	1753.0	1757.0	13.0	620.0			QL=4 ST=2 TYP=6
	15400	PALE	48	C	1753.0	1757.0	20.0	330.0			QL=4 ST=2 TYP=8
	15400	PALE	48	C	1753.0	1757.0	367.0	330.0			QL=4 ST=1 TYP=8
	8800	PALE	49	GB	1753.0	1757.0	367.0	620.0			QL=4 ST=1 TYP=6
	1415	SGMR	4	S/F	1753.0	1757.0	367.0	610.0			QL=4 ST=1 TYP=3
	2695	SGMR	4	S/F	1753.0	1757.0	367.0	250.0			QL=4 ST=1 TYP=3
	15400	SGMR	4	S/F	1753.0	1757.0	367.0	300.0			QL=4 ST=1 TYP=3
	15400	SGMR	4	S/F	1753.0	1757.0	367.0	310.0			QL=4 ST=1 TYP=3
	1415	PALE	49	GB	1754.0	1757.0	5.0	570.0			QL=4 ST=2 TYP=6
	2695	PALE	4	S/F	1754.0	1757.0	6.0	220.0			QL=4 ST=2 TYP=3
	1415	PALE	49	GB	1754.0	1757.0	366.0	570.0			QL=4 ST=1 TYP=6
	2695	PALE	4	S/F	1754.0	1757.0	366.0	220.0			QL=4 ST=1 TYP=3
	15400	SGMR	49	GB	1757.0	1757.0	1.0	620.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1957.0	1957.0	U	570.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	1957.0	1957.0	U	31.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	2045.0	2050.0	9.0	3.0			
10	127	TORN	43	NS	1150.0		130.0U		6.0		V=1
	235	CUBA	44	NS	1325.0E		505.0D		4.0		
	280	CUBA	44	NS	1325.0E		505.0D		16.0		
	245	SVTO	8	S	0827.0	0828.0	1.0	110.0			QL=4 ST=2 TYP=3
	600	GORK	45	C	0923.6	0931.0		32.0			
	600	GORK	45	C	0923.6	0927.6	12.4	20.0			
	9100	GORK	20	GRF	0924.3	1010.7	92.7D	38.0			
	2950	GORK	20	GRF	0924.8	1009.5	93.0D	30.0			
	3000	IZMI	22	GRF	0940.6	1009.2	58.3	21.0	8.0		
	900	GORK	46	C	0951.2	0954.6		5.0			
	900	GORK	46	C	0951.2	0951.7	5.5	5.0			
	900	GORK	46	C	0951.2	0953.9		6.0			
	900	GORK	4	S/F	1020.8	1021.9	1.8	58.0			
	410	SVTO	49	GB	1507.0	1509.0	3.0	790.0			QL=4 ST=2 TYP=6
	245	SVTO	8	S	1508.0	1509.0	2.0	160.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1509.0	1509.0	U	530.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	1509.0	1509.0	U	370.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

JANUARY 2002

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
10	245	SGMR	8	S	1611.0	1611.0	1.0	56.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1611.0	1611.0	1.0	260.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1621.0	1621.0	U	500.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	1621.0	1621.0	U	40.0			QL=4 ST=2 TYP=3
11	127	TORN	44	NS	0830.0E		300.0D		8.0		V=0
	235	CUBA	44	NS	1400.0E		180.0D		4.0		
	280	CUBA	44	NS	1400.0E		180.0D		16.0		
	2840	PEKG	3	S	0729.0	0733.9	12.0	11.2			
	2840	PEKG	3	S	0750.0	0757.7	27.0	26.2			
	1415	LEAR	20	GRF	0756.0	0757.0	14.0	27.0			QL=4 ST=2 TYP=2
	2695	LEAR	20	GRF	0757.0	0757.0	13.0	25.0			QL=4 ST=2 TYP=2
	9100	GORK	4	S/F	0856.3	0856.5	0.5	56.0			
	900	GORK	4	S/F	0947.7	0947.8	0.5	32.0			
	900	GORK	40	F	1034.1	1034.8	1.3	25.0			
	900	GORK	3	S	1046.3	1046.4	0.3	10.0			
	410	PALE	8	S	2311.0	2311.0	U	160.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2313.0	2313.0	U	53.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2314.0	2314.0	1.0	15.0			0
12	235	CUBA	44	NS	1400.0E		470.0D		5.0		
	280	CUBA	44	NS	1400.0E		470.0D		15.0		
	200	HIRA	8	S	0125.0	0127.0	2.0	40.0			0
	2840	PEKG	1	S	0145.0	0149.7	7.0	7.9			
	500	HIRA	47	GB	0155.0	0156.0	1.0	1175.0			0
	2840	PEKG	20	GRF	0311.0E	0312.6	24.0E	27.3			
	15400	SVTO	20	GRF	0712.0	0715.0	5.0	73.0			QL=2 ST=2 TYP=2
	15400	SVTO	4	S/F	0712.0	0715.0	5.0	73.0			QL=2 ST=3 TYP=3
	2840	PEKG	3	S	0715.0	0719.8	10.0	17.8			
	8800	SVTO	4	S/F	0717.0	0719.0	4.0	30.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0719.0	0719.0	1.0	29.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0826.0	0827.0	1.0	170.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0826.0	0827.0	1.0	140.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0826.9	0827.0	0.2	17.0			
	9100	GORK	2	S/F	0838.5	0839.2	2.0	25.0			
	2950	GORK	2	S/F	0838.8	0839.2	2.4	6.5			
	2950	GORK	3	S	0854.9	0856.0	4.1	72.0			
	3000	IZMI	20	GRF	0855.0	0856.0	4.3	50.0	13.0		
	2695	LEAR	8	S	0855.0	0856.0	1.0	62.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0855.0	0856.0	1.0	78.0			QL=2 ST=2 TYP=3
	2695	SVTO	8	S	0855.0	0856.0	1.0	58.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0855.0	0856.0	1.0	60.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0855.0	0855.0	1.0	24.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0855.0	0856.0	3.0	85.0			QL=4 ST=2 TYP=3
	9100	GORK	4	S/F	0855.0	0855.9	5.5	42.0			
	2950	GORK	29	PBI	0859.0	0859.0	46.0	7.8			
	3000	IZMI	40	F	0902.2	0902.9	1.9	6.0	3.0		
	245	SVTO	8	S	1135.0	1135.0	U	220.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	1135.1	1135.3	0.5	740.0			
	204	IZMI	45	C	1146.9	1147.1	0.5	124.0			
	245	SVTO	8	S	1147.0	1147.0	U	270.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	1344.5	1345.5	1.5				
	245	SGMR	8	S	1457.0	1457.0	U	71.0			QL=4 ST=2 TYP=3
	280	CUBA	7	C	1518.5	1522.5	13.2	41.0	20.0		
	235	CUBA	7	C	1518.5	1525.6	13.7	13.0	7.0		
	410	SGMR	8	S	1520.0	1522.0	2.0	59.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1544.6	1547.5	3.1	29.0	14.0		
	9500	CUBA	1	S	1559.3	1559.7	0.9	23.0	11.0		
	2800	PENT	41	F	1829.0	1927.0	63.0U	38.0			
	245	SGMR	8	S	1917.0	1918.0	1.0	97.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1925.8	1927.0	2.9	32.0	16.0		
	2695	PALE	46	C	1926.0	1927.0	1.0	27.0			QL=4 ST=2 TYP=8
	4995	PALE	46	C	1926.0	1927.0	1.0	36.0			QL=4 ST=2 TYP=8
	410	PALE	49	GB	1926.0	1929.0	3.0	640.0			QL=4 ST=2 TYP=6
	410	SGMR	4	S/F	1926.0	1929.0	8.0	490.0			QL=4 ST=2 TYP=3
	610	PALE	48	C	1929.0	1929.0	2.0	92.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	1929.0	1930.0	2.0	200.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1929.0	1929.0	5.0	96.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1930.0	1930.0	3.0	180.0			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

JANUARY 2002

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
12	8800	SGMR	8	S	1937.0	1938.0	1.0	450.0			QL=4 ST=2 TYP=3
13	235	CUBA	44	NS	1500.0E		410.0D		6.0		
	280	CUBA	44	NS	1500.0E		410.0D		16.0		
	2840	PEKG	5	S	0105.0	0110.6	7.0	13.3			
	500	HIRA	8	S	0110.0	0111.0	1.0	45.0			
	200	HIRA	8	S	0111.0	0111.0	1.0	30.0			
	2840	PEKG	1	S	0113.0	0114.5	5.0	5.7			
	4995	LEAR	8	S	0304.0	0305.0	1.0	59.0			QL=4 ST=2 TYP=3
	15400	LEAR	46	C	0305.0	0305.0	U	30.0			QL=4 ST=2 TYP=8
	245	LEAR	8	S	0305.0	0305.0	U	250.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0305.0	0305.0	U	27.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0305.0	0305.0	U	23.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0305.0	0305.0	U	82.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0306.0E	0307.5E	5.5E	5.5			
	200	HIRA	8	S	0307.0	0307.0	1.0	370.0			
	4995	PALE	48	C	0307.0	0307.0	U	60.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	0307.0	0307.0	U	78.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	0307.0	0307.0	U	390.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0356.0E	0356.3	2.0E	10.4			
	2840	PEKG	20	GRF	0359.0	0401.1	15.0	8.7			
	2840	PEKG	5	S	0534.0	0536.7	8.0	25.8			
	4995	LEAR	8	S	0536.0	0536.0	1.0	60.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0536.0	0536.0	U	27.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0729.3	0729.5	0.6	14.0			
	204	IZMI	7	C	0744.9	0745.1	0.5	8.0			
	204	IZMI	42	SER	0751.1	0751.8	1.1	102.0			
	245	LEAR	8	S	0912.0	0913.0	1.0	78.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0912.0	0913.0	1.0	84.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0913.4	0913.6	0.5	39.0			
	204	IZMI	7	C	0914.9	0914.9	0.3	6.0			
	2950	GORK	2	S/F	0951.3	0951.5	0.5	12.0			
	610	SGMR	49	GB	1336.0	1337.0	1.0	3100.0			QL=4 ST=2 TYP=6
	610	SVTO	49	GB	1336.0	1337.0	1.0	2700.0			QL=4 ST=2 TYP=6
	245	SVTO	8	S	1336.0	1337.0	2.0	83.0			QL=4 ST=2 TYP=3
	610	SGMR	49	GB	1336.0	1337.0	624.0	3100.0			QL=4 ST=1 TYP=6
	610	SVTO	49	GB	1336.0	1337.0	624.0	2700.0			QL=4 ST=1 TYP=6
	410	SGMR	48	C	1337.0	1337.0	2.0	4000.0			QL=4 ST=2 TYP=8
	245	SGMR	8	S	1337.0	1337.0	U	93.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	1337.0	1337.0	3.0	3800.0			QL=4 ST=2 TYP=6
	1415	SVTO	8	S	1337.0	1337.0	U	23.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1337.0	1337.0	1.0	78.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1337.0	1337.0	1.0	180.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1337.0	1337.0	1.0	140.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1337.0	1337.0	623.0	4000.0			QL=4 ST=1 TYP=6
	410	SVTO	49	GB	1337.0	1337.0	623.0	3800.0			QL=4 ST=1 TYP=6
	4995	SVTO	4	S/F	1337.0	1337.0	623.0	78.0			QL=4 ST=1 TYP=3
	8800	SVTO	4	S/F	1337.0	1337.0	623.0	180.0			QL=4 ST=1 TYP=3
	15400	SVTO	4	S/F	1337.0	1337.0	623.0	140.0			QL=4 ST=1 TYP=3
	410	SVTO	8	S	1438.0	1439.0	1.0	86.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1439.0	1439.0	U	200.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1707.0	1708.1	2.0	12.0	6.0		
	410	SGMR	49	GB	1708.0	1709.0	1.0	1900.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	1708.0	1709.0	1.0	140.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1708.0	1709.0	412.0	1900.0			QL=4 ST=1 TYP=6
	245	SGMR	4	S/F	1708.0	1709.0	412.0	140.0			QL=4 ST=1 TYP=3
	245	PALE	8	S	1735.0	1735.0	U	78.0			QL=4 ST=2 TYP=3
	9500	CUBA	21	GRF	1939.0	1946.0	62.0	10.0	5.0		
	410	PALE	49	GB	1943.0	1944.0	2.0	3800.0			QL=4 ST=2 TYP=6
	610	PALE	49	GB	1943.0	1944.0	3.0	1500.0			QL=4 ST=2 TYP=6
	610	PALE	49	GB	1943.0	1944.0	257.0	1500.0			QL=4 ST=1 TYP=6
	245	PALE	49	GB	1944.0	1944.0	2.0	5500.0			QL=4 ST=2 TYP=6
	1415	PALE	8	S	1944.0	1945.0	2.0	81.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1944.0	1945.0	2.0	110.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	1944.0	1945.0	2.0	120.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	1944.0	1945.0	2.0	200.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	1944.0	1945.0	2.0	230.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1944.0	1945.0	2.0	110.0			QL=2 ST=2 TYP=3
	4995	SGMR	8	S	1944.0	1945.0	2.0	67.0			QL=2 ST=2 TYP=3

SOLAR RADIO EMISSION

Outstanding Occurrences

JANUARY 2002

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	1415	SGMR	4	S/F	1944.0	1945.0	3.0	81.0			QL=2 ST=2 TYP=3
	245	PALE	49	GB	1944.0	1944.0	256.0	5500.0			QL=4 ST=1 TYP=6
	1415	PALE	4	S/F	1944.0	1945.0	256.0	81.0			QL=4 ST=1 TYP=3
	2695	PALE	4	S/F	1944.0	1945.0	256.0	110.0			QL=4 ST=1 TYP=3
	4995	PALE	4	S/F	1944.0	1945.0	256.0	120.0			QL=4 ST=1 TYP=3
	8800	PALE	4	S/F	1944.0	1945.0	256.0	200.0			QL=4 ST=1 TYP=3
	15400	PALE	4	S/F	1944.0	1945.0	256.0	230.0			QL=4 ST=1 TYP=3
	15400	SGMR	4	S/F	1945.0	1952.0	12.0	110.0			QL=2 ST=2 TYP=3
	9500	CUBA	3	S	1945.0	1945.2	4.0	126.0	63.0		
	8800	SGMR	4	S/F	1952.0	1954.0	3.0	23.0			QL=2 ST=2 TYP=3
14	280	CUBA	44	NS	1400.0E		470.0D		15.0		
	2840	PEKG	3	S	0120.0	0123.1	13.0	15.2			
	500	HIRA	8	S	0122.0	0123.0	2.0	20.0			
	200	HIRA	8	S	0150.0	0150.0	1.0	30.0			
	2840	PEKG	3	S	0151.0	0155.4	19.0	184.9			
	2800	HIRA	3	S	0153.0	0155.0	9.0	155.0			
	200	HIRA	8	S	0153.0	0153.0	1.0	35.0			
	4995	LEAR	4	S/F	0153.0	0155.0	6.0	260.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0153.0	0155.0	5.0	280.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0153.0	0153.0	U	78.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0154.0	0155.0	4.0	140.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0154.0	0155.0	4.0	350.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	0154.0	0155.0	3.0	290.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0155.0	0155.0	U	29.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0157.0	0157.0	1.0	38.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0157.0	0157.0	1.0	62.0			QL=4 ST=2 TYP=3
	500	HIRA	7	C	0518.0	0521.0	14.0	50.0			
	200	HIRA	7	C	0524.0	0535.0	24.0	80.0			
	245	LEAR	48	C	0531.0	0532.0	3.0	64.0			QL=4 ST=2 TYP=8
	245	LEAR	4	S/F	0537.0	0540.0	3.0	71.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0555.0	0555.0	U	66.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1422.0	1422.0	1.0	430.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1422.0	1422.0	U	31.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1422.0	1422.0	U	300.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	2234.0	2236.0	5.0	12.0			
	200	HIRA	8	S	2242.0	2242.0	1.0	95.0			
15	235	CUBA	44	NS	1400.0E		470.0D		4.0		
	280	CUBA	44	NS	1400.0E		470.0D		18.0		
	245	SGMR	43	NS	1614.0	1618.0	43.0	92.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1614.0	1614.0	466.0	57.0			QL=4 ST=1 TYP=1
	245	SGMR	43	NS	1614.0	1618.0	466.0	92.0			QL=4 ST=1 TYP=1
	200	HIRA	8	S	0513.0	0513.0	1.0	25.0			
	245	LEAR	8	S	0639.0	0639.0	1.0	64.0			QL=4 ST=2 TYP=3
	2950	GORK	1	S	0954.9	0955.2	0.8	4.7			
	9100	GORK	1	S	0955.0	0955.2	0.6	17.0			
	3000	IZMI	1	S	0955.1	0955.2	0.3	9.0	5.0		
	410	SGMR	8	S	1408.0	1408.0	1.0	79.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1408.0	1408.0	1.0	76.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1842.0	1842.0	U	100.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1842.0	1842.0	U	110.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2209.0	2210.0	1.0	25.0			0
16	235	CUBA	44	NS	1400.0E		470.0D		5.0		
	280	CUBA	44	NS	1400.0E		470.0D		16.0		
	245	LEAR	8	S	0152.0	0152.0	U	220.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0243.0	0243.0	1.0	330.0			0
	200	HIRA	8	S	0243.0	0243.0	1.0	20.0			0
	410	LEAR	49	GB	0243.0	0243.0	U	780.0			QL=4 ST=2 TYP=6
	200	HIRA	8	S	0251.0	0251.0	1.0	90.0			WL
	245	LEAR	8	S	0312.0	0312.0	U	54.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0452.0	0452.0	U	70.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0518.0	0518.0	1.0	96.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0518.0	0518.0	U	75.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0550.0	0550.0	U	290.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0550.0	0550.0	U	38.0			QL=2 ST=2 TYP=3
	9100	GORK	1	S	0807.3	0808.0	0.9	9.5			
	410	SGMR	8	S	1319.0	1320.0	1.0	890.0			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

JANUARY 2002

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	245	SGMR	8	S	1320.0	1320.0	U	130.0			QL=4 ST=2 TYP=3
17	280	CUBA	44	NS	1050.0E		355.0D		15.0		
	235	CUBA	44	NS	1405.0E		355.0D		4.0		
	245	LEAR	8	S	0612.0	0612.0	U	130.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0612.0	0612.0	U	44.0			QL=2 ST=2 TYP=3
	204	IZMI	7	C	0915.9	0916.0	0.3	8.0			
	127	TORN	7	C	0937.3	0937.8	0.9	30.0	10.0		
	204	IZMI	41	F	0937.4	0937.8	0.8	4.0			
	245	PALE	48	C	2213.0	2218.0	5.0	460.0			QL=4 ST=2 TYP=8
	410	PALE	46	C	2214.0	2214.0	1.0	32.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	2221.0	2221.0	1.0	200.0			QL=4 ST=2 TYP=3
18	235	CUBA	44	NS	1400.0E		470.0D		5.0		
	280	CUBA	44	NS	1400.0E		470.0D		17.0		
	280	CUBA	7	C	1952.4	1954.1	2.3	39.0U	19.0		
	245	PALE	8	S	1954.0	1954.0	U	79.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1954.0	1954.0	U	120.0			QL=4 ST=2 TYP=3
19	235	CUBA	44	NS	1400.0E		240.0D		4.0		
	280	CUBA	44	NS	1400.0E		240.0D		16.0		
	245	PALE	8	S	0010.0	0010.0	U	10.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0010.0	0010.0	U	100.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0021.0	0023.6	5.0	7.9			
	200	HIRA	8	S	0023.0	0023.0	1.0	20.0			0
	204	IZMI	41	F	0737.7	0738.0	1.3	38.0			
	204	IZMI	7	C	0741.9	0742.0	0.2	8.0			
	9100	GORK	21	GRF	0944.0	1025.6	67.0D	17.0			
	3000	IZMI	45	C	1001.8	1003.9	10.1	105.0	24.0		
	8800	LEAR	8	S	1003.0	1004.0	1.0	49.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	1003.0	1004.0	3.0	51.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	1003.0	1004.0	4.0	110.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	1003.0	1003.0	3.0	83.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1003.0	1004.0	1.0	62.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1003.0	1004.0	3.0	58.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1003.0	1004.0	4.0	100.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1003.0	1004.0	3.0	87.0			QL=4 ST=2 TYP=3
	2950	GORK	46	C	1003.0	1004.0	12.9	130.0			
	2950	GORK	46	C	1003.0	1005.9		56.0			
	9100	GORK	46	C	1003.2	1004.1	5.5	60.0			
	9100	GORK	46	C	1003.2	1005.5		17.0			
	600	GORK	41	F	1003.4	1005.0		37.0			
	900	GORK	46	C	1003.4	1004.5		20.0			
	600	GORK	41	F	1003.4	1003.6	1.7	35.0			
	900	GORK	46	C	1003.4	1003.8	6.4	53.0			
	600	GORK	41	F	1003.4	1003.9		58.0			
	15400	LEAR	8	S	1004.0	1004.0	U	34.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1004.0	1004.0	1.0	41.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	1028.0	1028.0	U	85.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	1028.0	1028.0	U	85.0			QL=2 ST=4 TYP=3
	410	LEAR	8	S	1028.0	1028.0	U	78.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	1028.0	1028.0	U	78.0			QL=2 ST=4 TYP=3
	204	IZMI	42	SER	1126.4	1126.4	0.4	11.0			
	410	SGMR	48	C	1326.0	1333.0	10.0	490.0			QL=4 ST=4 TYP=8
	410	SGMR	48	C	1326.0	1332.0	634.0	470.0			QL=4 ST=1 TYP=8
	245	SGMR	49	GB	1522.0	1522.0	1.0	5100.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	1522.0	1522.0	U	31.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1522.0	1522.0	518.0	3400.0			QL=4 ST=1 TYP=6
20	127	TORN	44	NS	0730.0E		430.0D		8.0		V=0
	235	CUBA	44	NS	1400.0E		470.0D		4.0		
	280	CUBA	44	NS	1400.0E		470.0D		15.0		
	2840	PEKG	5	S	0253.0	0256.1	6.0	14.5			
21	127	TORN	43	NS	1042.0		238.0		6.0		V=0
	2840	PEKG	1	S	0325.0	0328.9	6.0	5.3			
	2840	PEKG	5	S	0537.0	0539.2	5.0	10.5			
	8800	LEAR	8	S	0539.0	0539.0	U	29.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0638.0	0638.0	U	100.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

JANUARY 2002

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	610	PALE	8	S	1811.0	1812.0	2.0	180.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1815.0	1816.0	2.0	110.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	2122.0	2126.0	10.0U	6.0			
22	127	TORN	44	NS	1137.0E		177.0D		7.0		V=0
	235	CUBA	44	NS	1400.0E		60.0D		4.0		
	280	CUBA	44	NS	1400.0E		60.0D		16.0		
	610	LEAR	8	S	0543.0	0544.0	1.0	57.0			QL=4 ST=2 TYP=3
	600	GORK	41	F	0855.8	0856.0	2.9	12.0			
	600	GORK	41	F	0855.8	0858.2		7.8			
	600	GORK	41	F	0855.8	0857.7		11.0			
	2800	PENT	29	PBI	2117.0	2123.0	15.0U	7.0			
23	235	CUBA	44	NS	1400.0E		60.0D		5.0		
	280	CUBA	44	NS	1400.0E		60.0D		16.0		
	245	LEAR	8	S	0533.0	0533.0	1.0	98.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0732.0	0734.0	2.0	62.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0733.0	0735.7	6.0	5.0			
	9100	GORK	2	S/F	0735.4	0735.7	1.0	16.0			
	245	LEAR	8	S	0904.0	0905.0	1.0	45.0			QL=4 ST=2 TYP=3
	127	TORN	4	S/F	0904.0	0904.8	2.6	610.0	220.0		
	204	IZMI	41	F	0904.6	0904.9	1.5	46.0			
	3000	IZMI	20	GRF	0957.9	0958.5	2.1	12.0	5.0		
	410	SVTO	8	S	1218.0	1218.0	U	120.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1223.0	1223.0	1.0	360.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1334.0	1334.0	1.0	72.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1334.0	1334.0	1.0	92.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1335.0	1335.0	U	24.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	2009.8	2010.4	2.2	10.0	5.0		14R
	200	HIRA	8	S	2227.0	2227.0	1.0	85.0			0
24	235	CUBA	44	NS	1400.0E		60.0D		5.0		
	280	CUBA	44	NS	1400.0E		60.0D		15.0		
	200	HIRA	8	S	0150.0	0150.0	1.0	10.0			MR
	2800	HIRA	3	S	0327.0	0332.0	12.0	85.0			0
	2840	PEKG	3	S	0328.0E	0331.5	15.0E	94.8			
	2695	LEAR	8	S	0331.0	0331.0	2.0	61.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0331.0	0331.0	2.0	36.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0331.0	0332.0	3.0	43.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0508.0	0508.0	1.0	10.0			0
	2840	PEKG	5	S	0649.0E	0649.9	5.0E	16.1			
	204	IZMI	41	F	0930.8	0930.8	0.4	22.0			
	410	SGMR	8	S	1504.0	1506.0	2.0	97.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1504.0	1504.0	1.0	160.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1509.0	1510.0	3.3	9.0	4.0		50R
	2800	PENT	29	PBI	1840.0	1849.0	52.0U	21.0			
	2800	PENT	29	PBI	2037.0	2043.0	34.0	9.0			
25	235	CUBA	44	NS	1425.0E		445.0D		4.0		
	280	CUBA	44	NS	1425.0E		445.0D		12.0		
	2840	PEKG	1	S	0227.0	0230.4	6.0	5.7			
	245	LEAR	48	C	0232.0	0232.0	3.0	67.0			QL=4 ST=2 TYP=8
	204	IZMI	42	SER	0755.9	0756.4	0.9	13.0			
	204	IZMI	41	F	1009.2	1009.4	0.4	17.0			
	3000	IZMI	40	F	1037.3	1039.8	3.5	7.0	5.0		
	204	IZMI	7	C	1126.1	1126.2	0.2	20.0			
	204	IZMI	7	C	1130.8	1130.9	0.2	15.0			
	33	UPIC	46	C	1208.0	1210.5	4.0				
26	235	CUBA	44	NS	1500.0E		410.0D		5.0		
	280	CUBA	44	NS	1500.0E		410.0D		14.0		
	200	HIRA	8	S	0020.0	0021.0	2.0	40.0			WR
	245	LEAR	8	S	0802.0	0802.0	U	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0802.0	0802.0	U	85.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	0802.0	0802.4	0.8	301.0			
	204	IZMI	41	F	0830.6	0831.1	0.8	34.0			
	127	TORN	8	S	0858.4	0859.1	1.4	270.0	130.0		
	204	IZMI	46	C	0858.9	0859.4	0.9	296.0			
	410	SVTO	8	S	0921.0	0921.0	U	73.0			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

JANUARY 2002

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	204	IZMI	7	C	1123.2	1123.2	0.4	7.0			
	9500	CUBA	1	S	1447.0	1447.8	2.1	16.0	8.0		
	6700	CUBA	1	S	1448.0	1448.8	1.0	21.0	10.0		28R
	2800	PENT	29	PBI	1918.0	1928.0	14.0U	17.0			
	9500	CUBA	20	GRF	1928.0	2025.0	126.0	17.0	8.0		
	6700	CUBA	2	S/F	1956.0	1957.0	3.0	10.0	5.0		25R
27	245	LEAR	43	NS	1021.0	1028.0	9.0	140.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	1021.0	1022.0	819.0	99.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	1021.0	1028.0	819.0	140.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	1024.0	1050.0	133.0	250.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1024.0	1028.0	816.0	120.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	1024.0	1050.0	816.0	250.0			QL=4 ST=1 TYP=1
	127	TORN	44	NS	1030.0E		240.0D		8.0		V=0
	204	IZMI	43	NS	1056.0		53.0		78.0		
	235	CUBA	44	NS	1330.0E		390.0D		4.0		
	280	CUBA	44	NS	1330.0E		390.0D		15.0		
	2840	PEKG	5	S	0338.0	0341.3	9.0	26.6			
	410	LEAR	8	S	0420.0	0421.0	1.0	100.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0720.3	0723.7	4.0	56.0			
	900	GORK	8	S	0721.9	0730.0	8.1	9.3			
	600	GORK	1	S	0722.7	0723.0	0.5	11.0			
	410	SVTO	8	S	0724.0	0724.0	U	79.0			QL=4 ST=2 TYP=3
	600	GORK	1	S	0727.3	0727.5	0.4	6.0			
	204	IZMI	7	C	0828.5	0828.6	0.3	15.0			
	245	LEAR	8	S	0943.0	0943.0	U	94.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0943.0	0943.0	1.0	74.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0944.1	0944.5	1.7	10.0			
	600	GORK	1	S	0945.4	0945.6	0.4	3.6			
	245	LEAR	48	C	1009.0	1009.0	U	55.0			QL=4 ST=2 TYP=8
	245	LEAR	48	C	1014.0	1015.0	3.0	170.0			QL=4 ST=2 TYP=8
	245	SVTO	48	C	1017.0	1017.0	5.0	120.0			QL=4 ST=2 TYP=8
	204	IZMI	42	SER	1032.4	1032.9	1.0	98.0			
	204	IZMI	7	C	1044.6	1044.6	0.1	10.0			
	245	SGMR	8	S	1237.0	1237.0	U	65.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1717.0	1721.0	17.0	7.0			
	410	SGMR	8	S	1719.0	1720.0	1.0	62.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1720.0	1720.0	1.0	110.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1720.0	1721.0	11.0	11.0	5.0		15R
	9500	CUBA	1	S	1720.2	1721.0	2.0	8.0	4.0		
28	127	TORN	44	NS	0900.0E		350.0D		16.0		V=1
	235	CUBA	44	NS	1400.0E		120.0D		5.0		
	280	CUBA	44	NS	1400.0E		120.0D		14.0		
	245	SVTO	48	C	0656.0	0657.0	4.0	310.0			QL=4 ST=2 TYP=8
	204	IZMI	42	SER	0657.0E	0657.1	3.6E	30.0			
	410	SVTO	8	S	0658.0	0659.0	1.0	74.0			QL=4 ST=2 TYP=3
	9100	GORK	4	S/F	0740.4	0740.7	0.6	200.0			
	2840	PEKG	1	S	0811.0	0813.6	9.0	8.5			
	245	SVTO	8	S	0852.0	0852.0	U	55.0			QL=4 ST=2 TYP=3
	900	GORK	8	S	0935.2	0935.4	0.4	98.0			
	245	SVTO	8	S	1209.0	1209.0	1.0	170.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1255.0	1255.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1255.0	1255.0	U	150.0			QL=4 ST=4 TYP=3
	245	SVTO	8	S	1303.0	1303.0	U	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1303.0	1303.0	U	120.0			QL=4 ST=4 TYP=3
	410	PALE	8	S	1913.0	1914.0	1.0	540.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1914.0	1914.0	U	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1914.0	1914.0	U	90.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1914.0	1914.0	U	210.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	1948.0	1948.0	1.0	50.0			QL=4 ST=2 TYP=8
	245	SGMR	8	S	1948.0	1950.0	2.0	66.0			QL=4 ST=2 TYP=3
29	8800	LEAR	46	C	0605.0	0605.0	U	36.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	0845.0	0845.0	U	68.0			QL=4 ST=2 TYP=3
	8800	LEAR	46	C	0846.0	0847.0	5.0	44.0			QL=4 ST=2 TYP=8
	204	IZMI	42	SER	0947.4	0947.8	0.6	60.0			
	3000	IZMI	22	GRF	1013.6	1015.5	15.0	17.0	6.0		
	245	SGMR	8	S	1708.0	1708.0	U	78.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

JANUARY 2002

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
29	245	PALE	49	GB	1836.0	1837.0	2.0	650.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	1839.0	1840.0	2.0	490.0			QL=4 ST=2 TYP=3
30	235	CUBA	44	NS	1400.0E		470.0D		6.0		
	280	CUBA	44	NS	1400.0E		470.0D		16.0		
	2840	PEKG	1	S	0112.0	0114.5	9.0	5.9			
	200	HIRA	8	S	0116.0	0117.0	1.0	15.0			0
	200	HIRA	8	S	0239.0	0239.0	1.0	190.0			0
	200	HIRA	8	S	0315.0	0315.0	2.0	15.0			0
	204	IZMI	7	C	0753.5	0753.6	0.1	11.0			
	33	UPIC	4	S/F	1123.0	1123.5	1.5				
	204	IZMI	42	SER	1123.2	1123.7	1.6	41.0			
	245	SGMR	8	S	1234.0	1234.0	U	170.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1234.0	1234.0	U	110.0			QL=4 ST=2 TYP=3
	6700	CUBA	21	GRF	1350.0	1508.0	141.0	13.0	6.0		4R
	2800	PENT	29	PBI	1635.0	1638.0	17.0	18.0			
	6700	CUBA	2	S/F	1638.0	1638.0	2.0	30.0	15.0		4R
	9500	CUBA	1	S	1638.2	1638.8	1.6	40.0	20.0		
	6700	CUBA	2	S/F	1739.2	1740.1	2.8	24.0	12.0		4L
	9500	CUBA	1	S	1839.4	1840.0	2.1	53.0	26.0		
	2800	PENT	1	S	1848.0	1851.0	6.0	5.0			
	2800	PENT	21	GRF	1910.0	1928.0	22.0U	3.0			
	200	HIRA	8	S	2328.0	2329.0	1.0	10.0			0
	500	HIRA	8	S	2331.0	2331.0	1.0	15.0			
31	235	CUBA	44	NS	1400.0E		470.0D		5.0		
	280	CUBA	44	NS	1400.0E		470.0D		17.0		
	200	HIRA	8	S	0151.0	0151.0	1.0	40.0			0
	204	IZMI	41	F	0730.3	0730.6	2.1	41.0			
	200	HIRA	8	S	0731.0	0732.0	1.0	15.0			0
	245	SVTO	8	S	0839.0	0840.0	2.0	86.0			QL=4 ST=2 TYP=3
	2950	GORK	27	RF	0949.7	0950.2	33.3	3.4			
	9100	GORK	7	C	1009.6	1012.2		12.0			
	9100	GORK	7	C	1009.6	1010.3	4.9	9.6			
	204	IZMI	42	SER	1020.4	1022.6	2.7	34.0			
	245	LEAR	8	S	1022.0	1022.0	U	71.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1022.0	1022.0	U	77.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1119.6	1119.9	0.7	44.0			
	204	IZMI	42	SER	1157.3	1158.1	2.1	57.0			
	4995	SGMR	48	C	1439.0	1440.0	1.0	170.0			QL=4 ST=2 TYP=8
	4995	SVTO	8	S	1439.0	1440.0	2.0	240.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1439.0	1440.0	2.0	280.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1439.0	1440.0	1.0	100.0			QL=4 ST=2 TYP=3
	6700	CUBA	3	S	1439.0	1440.4	269.0U	269.0U	134.0		10L
	9500	CUBA	3	S	1439.2	1440.3	2.8	251.0	125.0		
	8800	SGMR	48	C	1440.0	1440.0	U	230.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	1440.0	1440.0	U	56.0			QL=4 ST=2 TYP=8
	9500	CUBA	2	S/F	1529.8	1530.8	1.5	10.0	5.0		
	15400	SVTO	8	S	1538.0	1539.0	2.0	93.0			QL=4 ST=2 TYP=3
	2800	PENT	21	GRF	1634.0	1644.0	54.0	8.0			
	200	HIRA	8	S	2146.0	2148.0	2.0	10.0			0
	200	HIRA	8	S	2200.0	2200.0	1.0	10.0			0