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

JULY 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		5.0		
	280	CUBA	44	NS	1310.0E		520.0D		12.0		
	15400	SGMR	4	S/F	1143.0	1145.0	737.0	110.0			QL=4 ST=1 TYP=3
	15400	SVTO	8	S	1144.0E	1145.0U	2.0D	69.0			QL=4 ST=3 TYP=3
	2695	SGMR	8	S	1145.0	1146.0	1.0	20.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1145.0	1146.0	1.0	33.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1145.0	1145.0	2.0	110.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1145.0E	1146.0U	1.0D	43.0			QL=4 ST=3 TYP=3
	8800	SVTO	8	S	1145.0E	1146.0U	2.0D	97.0			QL=4 ST=3 TYP=3
	3000	IZMI	5	S	1145.6	1146.2	2.1	21.0	9.5		
	2695	SVTO	8	S	1146.0E	1146.0U	U	21.0			QL=4 ST=3 TYP=3
	2800	PENT	20	GRF	1345.0	1453.0	107.0U	12.0			
02	235	CUBA	44	NS	1305.0E		525.0D		6.0		
	280	CUBA	44	NS	1305.0E		525.0D		11.0		
	2804	VORO	3	S	0000.0	0003.3	6.2	3.0			
	2840	PEKG	5	S	0000.0	0003.8	7.0	29.7			
	2804	VORO	8	S	0003.3	0003.4	0.3	24.4			
	204	IZMI	42	SER	0944.5	0945.0	1.3	10.0			
	2800	PENT	4	S/F	1353.0	1415.0	37.0	8.0			
	4995	SGMR	8	S	1410.0	1410.0	1.0	40.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1410.0	1410.0	1.0	84.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1410.0	1410.0	U	46.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1410.0	1410.0	1.0	37.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1410.0	1410.0	U	60.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1410.0	1410.0	U	35.0			QL=4 ST=2 TYP=3
	9500	CUBA	3	S	1410.0	1410.4	2.0	60.0	30.0		
	9500	CUBA	21	GRF	1944.0	1958.0	75.0	10.0	5.0		
	9500	CUBA	1	S	1954.2	1955.8	4.1	18.0	9.0		
	9500	CUBA	3	S	2020.0	2020.2	1.0	22.0	11.0		
	4995	SGMR	4	S/F	2024.0	2025.0	8.0	43.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2024.0	2025.0	8.0	95.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	2024.0	2025.0	8.0	71.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	2024.3	2025.6	10.7	51.0	25.0		
	8800	PALE	46	C	2025.0	2025.0	1.0	49.0			QL=4 ST=2 TYP=8
	200	HIRA	8	S	2308.0	2308.0	1.0	15.0			0
	2800	PENT	20	GRF	2349.0	2412.0	52.0	4.0			
03	235	CUBA	44	NS	1315.0E		515.0D		6.0		
	280	CUBA	44	NS	1315.0E		515.0D		14.0		
	245	PALE	8	S	0019.0	0019.0	1.0	160.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0132.0	0132.0	2.0	35.0			WR
	610	LEAR	8	S	0132.0	0132.0	2.0	170.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0135.0	0139.4	9.0	5.5			
	2804	VORO	1	S	0139.0	0139.4	1.8	4.5			
	15400	LEAR	49	GB	0209.0	0210.0	9.0	820.0			QL=4 ST=2 TYP=6
	8800	LEAR	49	GB	0209.0	0212.0	11.0	690.0			QL=4 ST=2 TYP=6
	2840	PEKG	3	S	0209.0	0212.5	33.0	219.1			
	2800	HIRA	3	S	0210.0	0212.0	9.0	175.0			0
	4995	LEAR	49	GB	0210.0	0212.0	8.0	610.0			QL=4 ST=2 TYP=6
	8800	PALE	48	C	0210.0	0212.0	6.0	550.0			QL=4 ST=2 TYP=8
	15400	PALE	48	C	0210.0	0210.0	3.0	740.0			QL=4 ST=2 TYP=8
	4995	PALE	49	GB	0210.0	0212.0	8.0	600.0			QL=4 ST=2 TYP=6
	2804	VORO	4	S/F	0210.0	0212.5	20.0	75.6			
	2695	LEAR	4	S/F	0211.0	0212.0	3.0	160.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0211.0	0212.0	3.0	140.0			QL=4 ST=2 TYP=3
	2804	VORO	29	PBI	0230.0	0230.0	75.0	14.4			
	2840	PEKG	1	S	0427.0	0430.5	9.0	6.7			
	610	LEAR	8	S	0630.0	0630.0	1.0	190.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0630.0	0631.0	1.0	110.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0631.0	0631.0	1.0	15.0			WR
	610	LEAR	8	S	0717.0	0717.0	U	85.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0717.0	0717.0	U	55.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0756.0	0759.8	15.0	12.2			
	3000	IZMI	5	S	0759.1	0759.6	2.1	11.0	6.2		
	2800	PENT	20	GRF	1435.0	1509.0	55.0	7.0			
	2800	PENT	29	PBI	1731.0	1742.0	89.0	13.0			
	2800	PENT	49	GB	1740.0	1740.0U	292.0U	500.0U			
	9500	CUBA	2	S/F	1807.2	1807.9	0.7	16.0	8.0		

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

JULY 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	9500	CUBA	21	GRF	1842.0	1956.0	241.0D	26.0	13.0		SUN SET
	1415	PALE	8	S	1848.0	1848.0	2.0	84.0			QL=4 ST=3 TYP=3
	2800	PENT	29	PBI	1902.0	1917.0	15.0U	5.0			
	410	SGMR	48	C	1932.0	1935.0	6.0	80.0			QL=4 ST=2 TYP=8
	9500	CUBA	2	S/F	1943.1	1943.8	2.6	16.0	8.0		
	4995	PALE	48	C	2004.0	2012.0	18.0	900.0			QL=4 ST=2 TYP=8
	15400	SGMR	49	GB	2004.0	2011.0	15.0	730.0			QL=4 ST=2 TYP=6
	2695	SGMR	4	S/F	2004.0	2011.0	15.0	490.0			QL=4 ST=2 TYP=3
	2695	PALE	49	GB	2006.0	2012.0	18.0	510.0			QL=4 ST=2 TYP=6
	4995	SGMR	49	GB	2006.0	2011.0	13.0	530.0			QL=4 ST=2 TYP=6
	8800	SGMR	49	GB	2007.0	2011.0	12.0	830.0			QL=4 ST=2 TYP=6
	9500	CUBA	49	GB	2007.8	2012.0	14.2	519.0	259.0		
	15400	PALE	49	GB	2008.0	2012.0	5.0	620.0			QL=4 ST=2 TYP=6
	8800	PALE	49	GB	2008.0	2012.0	13.0	950.0			QL=4 ST=2 TYP=6
	1415	SGMR	4	S/F	2008.0	2012.0	10.0	160.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	2009.0	2012.0	7.0	150.0			QL=4 ST=2 TYP=3
	2800	HIRA	3	S	2010.0	2012.0	5.0	220.0			0
	410	SGMR	8	S	2017.0	2017.0	U	43.0			QL=4 ST=2 TYP=3
	2800	PENT	41	F	2103.0	2142.0	54.0	3.0			
	200	HIRA	47	GB	2207.0	2207.0	1.0	2405.0			0
	245	PALE	8	S	2207.0	2207.0	U	2100.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2207.0	2207.0	U	1700.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2233.0	2234.0	1.0	75.0			0
	410	PALE	8	S	2249.0	2249.0	U	86.0			QL=4 ST=2 TYP=3
	2804	VORO	46	C	2318.0	2319.7	8.3	4.2			
04	235	CUBA	44	NS	1310.0E		520.0D		6.0		
	280	CUBA	44	NS	1310.0E		520.0D		12.0		
	200	HIRA	8	S	0017.0	0017.0	1.0	25.0			0
	245	LEAR	8	S	0017.0	0017.0	U	56.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	0022.0	0034.0	23.0	2.0			
	2804	VORO	8	S	0036.6	0037.0	0.8	3.8			
	2804	VORO	46	C	0125.0	0128.6	5.0	7.2			
	2840	PEKG	5	S	0126.0	0128.4	9.0	10.2			
	2804	VORO	29	PBI	0130.0	0130.0	20.0	3.8			
	200	HIRA	8	S	0224.0	0224.0	1.0	70.0			0
	2840	PEKG	1	S	0340.0	0344.4	9.0	3.9			
	200	HIRA	8	S	0341.0	0343.0	2.0	20.0			0
	2804	VORO	3	S	0341.6	0349.4	7.8	4.6			
	245	LEAR	8	S	0342.0	0342.0	U	80.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0453.0	0456.0	9.0	24.8			
	2800	HIRA	1	S	0454.0	0456.0	4.0	20.0			0
	200	HIRA	7	C	0454.0	0455.0	3.0	35.0			0
	245	LEAR	8	S	0455.0	0455.0	U	56.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0614.0	0616.6	16.0	23.6			
	3000	IZMI	7	C	0616.2	0616.6	0.7	20.0	12.0		
	4995	SVTO	8	S	0622.0	0623.0	1.0	32.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0622.0	0623.0	1.0	66.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0622.0	0623.0	1.0	33.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0623.0	0623.0	U	55.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0730.0	0732.1	8.0	38.4			
	2800	HIRA	1	S	0731.0	0732.0	4.0	30.0			
	4995	SVTO	4	S/F	0731.0	0732.0	3.0	78.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0731.0	0732.0	3.0	65.0			QL=4 ST=2 TYP=3
	3000	IZMI	45	C	0731.6	0732.2	1.4	40.0	21.9		
	204	IZMI	46	C	0731.7	0732.0	2.5	455.0			
	200	HIRA	8	S	0732.0	0732.0	1.0	180.0			0
	245	LEAR	8	S	0732.0	0732.0	U	100.0			QL=4 ST=3 TYP=3
	4995	LEAR	8	S	0732.0	0732.0	U	57.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	0732.0	0732.0	U	78.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0732.0	0732.0	U	25.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0732.0	0732.0	U	25.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0801.0	0801.0	U	78.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0801.0	0801.0	1.0	62.0			QL=4 ST=2 TYP=3
	3000	IZMI	5	S	1011.1	1011.5	0.7	8.0	4.5		
	9500	CUBA	21	GRF	1328.0	1410.0	57.0	7.0	3.0		
	9500	CUBA	2	S/F	1332.2	1332.8	3.8	9.0	4.0		
	610	SVTO	8	S	1344.0	1344.0	U	75.0			QL=4 ST=2 TYP=3
	2800	PENT	20	GRF	1434.0	1508.0	55.0	6.0			

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

JULY 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
04	2800	PENT	29	PBI	1734.0	1742.0	16.0	13.0			
	2800	PENT	29	PBI	1906.0	1917.0	22.0U	6.0			
	2800	PENT	41	F	2101.0	2142.0	57.0	3.0			
	500	HIRA	8	S	2116.0	2117.0	1.0	30.0			
	200	HIRA	8	S	2325.0	2325.0	1.0	10.0			
05	235	CUBA	44	NS	1320.0E		510.0D		6.0		
	280	CUBA	44	NS	1320.0E		510.0D		15.0		
	245	SGMR	43	NS	1449.0	1610.0	81.0	59.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1933.0	2040.0	67.0	220.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	2140.0	2153.0	28.0	170.0			QL=4 ST=2 TYP=1
	2804	VORO	3	S	0206.5	0208.0	6.0	10.0			
	200	HIRA	8	S	0410.0	0411.0	1.0	50.0			
	200	HIRA	8	S	0620.0	0621.0	1.0	15.0			
	245	LEAR	8	S	0620.0	0620.0	1.0	72.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0621.0	0621.0	U	63.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1104.7	1107.7	4.2	15.0			
	245	SGMR	8	S	1225.0	1225.0	U	96.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1225.0	1225.0	U	58.0			QL=4 ST=2 TYP=3
	2695	SGMR	48	C	1315.0	1321.0	8.0	130.0			QL=4 ST=2 TYP=8
	610	SGMR	4	S/F	1315.0	1317.0	2.0	250.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1315.0	1321.0	8.0	120.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1315.0	1321.0	8.0	87.0			QL=4 ST=2 TYP=3
	410	SVTO	48	C	1316.0	1320.0	7.0	160.0			QL=4 ST=2 TYP=8
	610	SVTO	8	S	1317.0	1317.0	U	180.0			QL=4 ST=3 TYP=3
	245	SGMR	4	S/F	1319.0	1319.0	4.0	79.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1319.0	1320.0	2.0	49.0			QL=4 ST=2 TYP=3
	1415	SGMR	48	C	1320.0	1321.0	3.0	72.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1320.0	1321.0	3.0	76.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	1320.0	1320.0	3.0	210.0			QL=4 ST=2 TYP=8
	410	SGMR	4	S/F	1320.0	1320.0	1.0	150.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1320.0	1321.0	2.0	150.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1320.0	1321.0	2.0	190.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1320.0	1321.0	3.0	68.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1320.0	1320.0	640.0	150.0			QL=4 ST=1 TYP=3
	9500	CUBA	4	S/F	1320.3	1321.3	4.1	134.0	67.0		
	2800	PENT	41	F	1333.0	1410.0	66.0	20.0			
	9500	CUBA	1	S	1336.2	1336.8	2.4	12.0	6.0		
	245	SGMR	8	S	1438.0	1439.0	2.0	53.0			QL=4 ST=2 TYP=3
	2800	PENT	40	F	1522.0	1557.0	70.0U	59.0			
	245	SGMR	48	C	1547.0	1551.0	19.0	1100.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1547.0	1551.0	13.0	74.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1547.0	1551.0	18.0	84.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	1547.0	1551.0	14.0	66.0			QL=4 ST=2 TYP=8
	4995	SVTO	48	C	1547.0	1551.0	11.0	67.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	1547.0	1548.0	10.0	56.0			QL=4 ST=2 TYP=8
	410	SVTO	4	S/F	1547.0	1547.0	10.0	33.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1547.0	1557.0	11.0	53.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1547.0	1551.0	10.0	49.0			QL=4 ST=2 TYP=3
	245	SVTO	48	C	1547.0	1551.0	26.0	780.0			QL=4 ST=2 TYP=8
	9500	CUBA	40	F	1547.2	1551.3	14.5	57.0	28.0		
	2695	SGMR	48	C	1554.0	1557.0	5.0	56.0			QL=4 ST=2 TYP=8
	410	SGMR	46	C	1555.0	1556.0	2.0	24.0			QL=4 ST=2 TYP=8
	610	SVTO	48	C	1556.0	1558.0	7.0	120.0			QL=4 ST=2 TYP=8
	1415	SVTO	4	S/F	1557.0	1603.0	7.0	310.0			QL=4 ST=2 TYP=3
	1415	SGMR	48	C	1602.0	1603.0	2.0	320.0			QL=4 ST=2 TYP=8
	610	SGMR	48	C	1603.0	1603.0	1.0	50.0			QL=4 ST=2 TYP=8
	235	CUBA	7	C	1646.1	1649.2	16.7	21.0	11.0		
	280	CUBA	7	C	1646.1	1649.2	16.7	57.0	29.0		
	245	PALE	48	C	1831.0	1833.0	2.0	78.0			QL=4 ST=2 TYP=8
	245	SGMR	8	S	1833.0	1833.0	U	51.0			QL=4 ST=2 TYP=3
	2800	PENT	41	F	2035.0	2041.0	27.0	9.0			
	245	SGMR	8	S	2140.0	2140.0	U	100.0			QL=4 ST=2 TYP=3
	2800	PENT	20	GRF	2148.0	2212.0	44.0U	9.0			
	245	PALE	8	S	2153.0	2153.0	U	240.0			QL=4 ST=2 TYP=3
06	245	PALE	43	NS	0345.0	0416.0	58.0	890.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0516.0	0528.0	61.0	170.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0526.0	0528.0	75.0	130.0			QL=2 ST=3 TYP=1

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Outstanding Occurrences

JULY 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
06	204	IZMI	43	NS	0600.0		76.0D		55.0		
	204	IZMI	43	NS	0942.0		34.0		27.0		
	235	CUBA	44	NS	1315.0E		125.0D		5.0		
	280	CUBA	44	NS	1315.0E		125.0D		13.0		
	245	PALE	43	NS	2202.0	0059.0	328.0	950.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0034.0	0034.0	U	120.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0144.0	0144.0	U	69.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0320.0	0332.0	25.0	54.7			
	245	PALE	48	C	0339.0	0339.0	U	70.0			QL=4 ST=2 TYP=8
	245	LEAR	8	S	0346.0	0346.0	U	94.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0419.0	0419.0	U	99.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0506.0	0506.0	U	62.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0506.0	0506.0	1.0	50.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0515.0	0517.0	2.0	90.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0532.0	0536.2	9.0	11.3			
	245	SVTO	8	S	0705.0	0707.0	2.0	56.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0706.0	0706.0	U	67.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0832.0	0833.0	1.0	180.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0832.0	0833.0	1.0	160.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	0922.0	0922.0	U	52.0			QL=4 ST=2 TYP=8
	204	IZMI	42	SER	0922.3	0922.8	2.9	45.0			
	2840	PEKG	3	S	0926.0	0937.9	22.0	92.9			
	204	IZMI	46	C	0928.2	0930.4	6.0	591.0			
	245	LEAR	8	S	0930.0	0930.0	U	260.0			QL=4 ST=2 TYP=3
	245	SVTO	48	C	0930.0	0930.0	3.0	320.0			QL=4 ST=2 TYP=8
	3000	IZMI	45	C	0930.2	0937.9	10.4	98.0	23.0		
	2695	SVTO	4	S/F	0931.0	0937.0	8.0	57.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0931.0	0937.0	8.0	230.0			QL=4 ST=2 TYP=3
	410	SVTO	48	C	0931.0E	0937.0U	8.0D	540.0			QL=2 ST=2 TYP=8
	33	UPIC	42	SER	0931.5	0937.0	27.5				
	204	IZMI	46	C	0934.8	0936.3	4.8	3866.0			
	245	SVTO	48	C	0935.0	0937.0	4.0	320.0			QL=4 ST=2 TYP=8
	610	SVTO	49	GB	0935.0	0937.0	4.0	890.0			QL=4 ST=2 TYP=6
	8800	SVTO	4	S/F	0936.0	0937.0	3.0	190.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0937.0	0937.0	1.0	410.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0937.0	0937.0	2.0	97.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0947.0	0947.0	U	69.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1009.0	1009.0	1.0	67.0			QL=4 ST=2 TYP=3
	33	UPIC	42	SER	1129.5	1135.5	26.5				
	610	SGMR	8	S	1242.0	1242.0	U	32.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1242.0	1242.0	U	56.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1242.0	1242.0	U	78.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1242.0	1242.0	U	54.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1242.0	1242.0	U	66.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1756.0	1756.5	2.0				
	245	PALE	8	S	2046.0	2046.0	1.0	88.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2046.0	2046.0	U	70.0			QL=4 ST=2 TYP=3
	2800	PENT	20	GRF	2343.0	2426.0	85.0U	9.0			
07	235	CUBA	44	NS	1330.0E		90.0D		6.0		
	280	CUBA	44	NS	1330.0E		90.0D		12.0		
	2840	PEKG	1	S	0333.0	0335.3	7.0	2.7			
	2840	PEKG	3	S	0357.0	0358.8	11.0	57.8			
	245	LEAR	48	C	0358.0	0358.0	7.0	1800.0			QL=4 ST=2 TYP=8
	4995	LEAR	8	S	0358.0	0358.0	1.0	110.0			QL=4 ST=2 TYP=3
	2695	PALE	48	C	0358.0	0358.0	1.0	53.0			QL=4 ST=2 TYP=8
	4995	PALE	48	C	0358.0	0358.0	1.0	120.0			QL=4 ST=2 TYP=8
	4995	SVTO	8	S	0358.0E	0358.0U	1.0D	100.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	0358.0E	0358.0U	1.0D	65.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	0401.0E	0401.0U	U	43.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0405.0	0405.0	U	57.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0421.0	0425.9	8.0	7.4			
	245	PALE	8	S	0446.0	0447.0	1.0	80.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1112.6	1114.7	2.5	71.0			
	245	SGMR	8	S	1114.0	1114.0	U	62.0			QL=4 ST=2 TYP=3
08	204	IZMI	43	NS	1124.0		36.0D		15.0		
	235	CUBA	44	NS	1305.0E		475.0D		10.0		
	280	CUBA	44	NS	1305.0E		475.0D		10.0		

SOLAR RADIO EMISSION
Outstanding Occurrences

JULY 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	200	HIRA	7	C	0049.0	0051.0	3.0	90.0			
	200	HIRA	8	S	0734.0	0734.0	1.0	15.0			
	204	IZMI	41	F	0734.4	0734.7	0.5	38.0			
	200	HIRA	8	S	0809.0	0810.0	1.0	15.0			
	204	IZMI	42	SER	0809.1	0809.9	3.0	40.0			
	2840	PEKG	20	GRF	0910.0	0915.1	12.0	8.2			
	33	UPIC	46	C	0912.5	0913.5	4.0				
	2950	GORK	2	S/F	0913.1	0914.9	4.3	6.6			
	900	GORK	2	S/F	0913.6	0914.7	4.4	3.7			
	600	GORK	2	S/F	0913.9	0915.3	2.5	3.4			
	9100	GORK	1	S	0914.5	0915.0	1.6	6.3			
	3000	IZMI	20	GRF	0914.6	0914.9	0.9	6.0			
	245	SGMR	8	S	1139.0	1139.0	1.0	99.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1139.0	1140.0	1.0	57.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1139.8	1139.9	0.5	89.0			
	2695	SVTO	8	S	1141.0	1141.0	U	21.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1322.0	1322.0	U	100.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	1322.0	1322.0	U	51.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1614.0	1619.0	10.0	4.0			
	200	HIRA	8	S	2318.0	2319.0	1.0	30.0			0
09	235	CUBA	44	NS	1315.0E		285.0D		5.0		
	280	CUBA	44	NS	1315.0E		285.0D		11.0		
	200	HIRA	8	S	0059.0	0101.0	2.0	70.0			0
	200	HIRA	8	S	0231.0	0231.0	1.0	15.0			0
	200	HIRA	7	C	0402.0	0403.0	5.0	45.0			0
	204	IZMI	42	SER	0846.5	0846.6	0.5	34.0			
	245	SVTO	8	S	1048.0	1048.0	U	170.0			QL=4 ST=2 TYP=3
	2800	PENT	41	F	1809.0	1858.0	83.0U	185.0			
	1415	PALE	48	C	1857.0	1857.0	1.0	51.0			QL=4 ST=2 TYP=8
	2695	PALE	48	C	1857.0	1858.0	4.0	200.0			QL=4 ST=2 TYP=8
	1415	SGMR	4	S/F	1857.0	1857.0	5.0	57.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1857.0	1858.0	4.0	250.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1917.0	1917.0	U	68.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	1918.0	1918.0	U	85.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	1923.0	1923.0	1.0	470.0			QL=4 ST=2 TYP=3
10	235	CUBA	44	NS	1305.0E		475.0D		5.0		
	280	CUBA	44	NS	1305.0E		475.0D		9.0		
	2840	PEKG	5	S	0417.0	0419.0	7.0	20.5			
	2804	VORO	40	F	0418.1	0419.0	1.2	16.3			
	204	IZMI	42	SER	1034.5	1035.2	4.1	10.0			
	33	UPIC	42	SER	1034.5	1038.5	13.0				
	33	UPIC	42	SER	1343.5	1407.5	25.5				
	2800	PENT	20	GRF	1413.0	1436.0	85.0	4.0			
	2800	PENT	40	F	1539.0	1547.0	14.0	16.0			
11	235	CUBA	44	NS	1400.0E		470.0D		5.0		
	280	CUBA	44	NS	1400.0E		470.0D		12.0		
	2800	PENT	3	S	0034.0	0045.0	30.0	10.0			
	410	PALE	48	C	0331.0	0333.0	7.0	97.0			QL=4 ST=2 TYP=8
	9100	GORK	7	C	0410.5	0410.7	0.6	30.0			
	9100	GORK	7	C	0410.5	0410.8		26.0			
	900	GORK	2	S/F	0423.7	0424.0	0.6	18.0			
	9100	GORK	42	SER	0425.5	0426.0	4.6	380.0			
	9100	GORK	42	SER	0425.5	0427.3		220.0			
	9100	GORK	42	SER	0425.5	0429.7		50.0			
	9100	GORK	7	C	0506.2	0506.5	1.7	15.0			
	9100	GORK	7	C	0506.2	0506.8		8.5			
	2800	PENT	29	PBI	1438.0	1448.0	114.0U	457.0			
	9500	CUBA	49	GB	1446.2	1448.8	8.1	604.0	30.2		
	9500	CUBA	29	PBI	1454.3	1457.3	185.7	32.0	16.0		
12	204	IZMI	43	NS	0550.0		65.0D		10.0		
	235	CUBA	44	NS	1300.0E		300.0D		6.0		
	280	CUBA	44	NS	1300.0E		300.0D		12.0		
	8800	LEAR	8	S	0000.0	0000.0	U	53.0			QL=4 ST=2 TYP=3
	2804	VORO	3	S	0113.1	0114.0	3.0	3.2			
	2840	PEKG	1	S	0210.0	0213.8	7.0	9.3			

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

JULY 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	245	LEAR	8	S	0552.0	0552.0	U	70.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0552.0	0552.0	U	69.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1216.0	1216.0	U	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1234.0	1234.0	U	54.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1335.0	1335.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1414.0	1414.0	U	98.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1414.0	1414.0	U	85.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1602.0	1602.0	U	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1626.0	1626.0	U	52.0			QL=4 ST=2 TYP=3
	2800	PENT	28	PRE	2335.0	0000.0	39.0	76.0			
	2840	PEKG	45	C	2350.0	2400.7	24.0	87.8			
	2800	HIRA	7	C	2357.0	2401.0	6.0	65.0			0
	2804	VORO	4	S/F	2357.0	2400.6	8.0	64.2			
	2695	LEAR	4	S/F	2358.0	0000.0	3.0	64.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	2358.0	0000.0	3.0	72.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	2359.0	0000.0	2.0	75.0			0
13	235	CUBA	44	NS	1600.0E		180.0D		5.0		
	280	CUBA	44	NS	1600.0E		180.0D		12.0		
	8800	PALE	46	C	0000.0	0000.0	U	48.0			QL=4 ST=2 TYP=8
	2695	PALE	8	S	0000.0	0000.0	1.0	60.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0000.0	0000.0	1.0	72.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0007.0	0008.0	1.0	30.0			0
	500	HIRA	8	S	0008.0	0008.0	1.0	10.0			0
	2840	PEKG	3	S	0043.0	0047.5	10.0	35.5			
	2800	HIRA	8	S	0047.0	0047.0	1.0	30.0			0
	4995	LEAR	8	S	0047.0	0047.0	U	50.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0047.0	0047.0	U	74.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0047.0	0047.0	U	39.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0047.0	0047.0	U	42.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0047.0	0047.0	U	68.0			QL=4 ST=2 TYP=3
	2804	VORO	3	S	0047.3	0047.9	2.1	28.9			
	9100	GORK	1	S	0403.5	0403.9	2.7	18.0			
	200	HIRA	8	S	0623.0	0623.0	1.0	10.0			WL
	204	IZMI	7	C	0826.9	0826.9	0.1	5.0			
14	204	IZMI	43	NS	0807.0		233.0D		10.0		
	235	CUBA	44	NS	1300.0E		530.0D		7.0		
	280	CUBA	44	NS	1300.0E		530.0D		11.0		
	200	HIRA	8	S	0508.0	0509.0	1.0	25.0			0
	2840	PEKG	3	S	0509.0	0517.0	20.0	27.7			
	2800	HIRA	1	S	0514.0	0517.0	4.0	20.0			0
	200	HIRA	8	S	0515.0	0517.0	3.0	490.0			0
	245	LEAR	8	S	0515.0	0516.0	2.0	290.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0516.0	0516.0	U	76.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0516.0	0516.0	1.0	36.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0516.0	0517.0	1.0	270.0			QL=4 ST=2 TYP=3
	9100	GORK	7	C	0516.3	0517.0		25.0			
	9100	GORK	7	C	0516.3	0516.9	2.1	23.0			
	600	GORK	7	C	0516.5	0516.6	0.5	12.0			
	600	GORK	7	C	0516.5	0516.9		16.0			
	900	GORK	46	C	0516.6	0517.0	2.9	40.0			
	900	GORK	46	C	0516.6	0517.1		58.0			
	500	HIRA	8	S	0517.0	0517.0	1.0	155.0			0
	2840	PEKG	1	S	0641.0	0643.8	7.0	7.6			
	9100	GORK	3	S	0642.8	0643.5	4.4	20.0			
	9100	GORK	3	S	0657.8	0658.0	0.7	25.0			
	200	HIRA	8	S	0700.0	0700.0	1.0	15.0			MR
	33	UPIC	46	C	0933.0	0935.0U	2.5				UNCERTN
	204	IZMI	42	SER	0933.8	0934.4	1.5	50.0			
	245	SVTO	8	S	0934.0	0934.0	U	54.0			QL=4 ST=2 TYP=3
	2800	PENT	28	PRE	1416.0	1503.0	68.0	18.0			
	33	UPIC	46	C	1502.5	1503.5	4.5				
	8800	SGMR	8	S	1612.0	1612.0	U	29.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1612.0	1612.0	U	50.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1838.0	1839.0	1.0	65.0			QL=4 ST=2 TYP=3
	2800	PENT	24	R	2110.0	2153.0	82.0U	11.0			
15	204	IZMI	44	NS	0600.0E		360.0D		10.0		

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

JULY 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
15	235	CUBA	44	NS	1300.0E		530.0D		7.0		
	280	CUBA	44	NS	1300.0E		530.0D		12.0		
	2800	PENT	1	S	0041.0	0051.0	17.0	10.0			
	2840	PEKG	3	S	0042.0	0051.1	12.0	23.8			
	15400	LEAR	46	C	0048.0	0049.0	1.0	40.0			QL=4 ST=2 TYP=8
	2804	VORO	40	F	0050.8	0051.1	1.2	11.4			
	245	LEAR	49	GB	0051.0	0051.0	U	3800.0			QL=4 ST=2 TYP=6
	9100	GORK	2	S/F	0342.2	0344.6	7.5	25.0			
	9100	GORK	2	S/F	0352.6	0353.5	3.1	15.0			
	9100	GORK	2	S/F	0416.2	0416.7	1.6	5.2			
	9100	GORK	1	S	0421.1	0422.1	2.7	15.0			
	2840	PEKG	45	C	0504.0	0506.7	10.0	8.8			
	4995	LEAR	8	S	0506.0	0507.0	2.0	51.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0510.0	0510.0	U	61.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0510.0	0510.0	U	57.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0518.0	0518.0	U	21.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0617.0	0618.0	2.0	88.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0618.0	0618.0	U	110.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0753.9	0754.1	0.6	91.0			
	245	LEAR	8	S	0754.0	0754.0	U	83.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0754.0	0754.0	U	70.0			QL=4 ST=3 TYP=3
	245	LEAR	8	S	0801.0	0801.0	U	57.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0833.0	0835.0	2.0	60.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0835.0	0835.0	U	62.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1102.0	1102.0	1.0	110.0			QL=4 ST=2 TYP=8
	3000	IZMI	45	C	1142.7	1145.6	8.0	214.0	103.9		
	410	SGMR	48	C	1143.0	1144.0	6.0	610.0			QL=4 ST=2 TYP=8
	2695	SGMR	4	S/F	1143.0	1145.0	12.0	210.0			QL=4 ST=2 TYP=3
	1415	SGMR	48	C	1143.0	1146.0	737.0	110.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1143.0	1146.0	737.0	220.0			QL=4 ST=2 TYP=8
	245	SGMR	49	GB	1143.0	1144.0	737.0	2100.0			QL=4 ST=2 TYP=6
	33	UPIC	46	C	1143.5	1144.5	5.0				
	610	SGMR	4	S/F	1144.0	1146.0	6.0	290.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1144.0	1146.0	736.0	210.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1144.0	1146.0	736.0	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1209.0	1209.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1209.0	1209.0	U	100.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1345.0	1400.0	31.0	22.0			
	245	SVTO	8	S	1348.0	1349.0	1.0	22.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	1348.0	1349.0	3.0	150.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1348.0	1349.0	2.0				
	410	SGMR	8	S	1349.0	1349.0	U	110.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1349.0	1349.0	611.0	35.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1400.0	1400.0	U	46.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1400.0	1400.0	U	400.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	1400.0	1400.0	U	660.0			QL=4 ST=2 TYP=6
	245	SVTO	8	S	1400.0	1400.0	U	22.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1400.0	1400.0	U	22.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	1406.0	1406.5	1.5				
	245	SVTO	8	S	1623.0	1623.0	U	51.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1700.0	1700.5	1.0	14.0	7.0		
	245	PALE	8	S	1900.0	1900.0	U	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1900.0	1900.0	U	86.0			QL=4 ST=2 TYP=3
	2800	PENT	49	GB	1924.0	2452.0U	328.0U	500.0U			
	235	CUBA	49	GB	1935.0	2119.0		1939.0	970.0U		
	280	CUBA	49	GB	1935.0	2119.0		2981.0U	1490.0U		
	235	CUBA	49	GB	1935.0	2004.0	135.0D	2059.0	1030.0U		
	280	CUBA	49	GB	1935.0	2004.0	135.0D	3014.0U	1507.0U		
	245	PALE	8	S	1938.0	1938.0	U	60.0			QL=4 ST=2 TYP=3
	9500	CUBA	28	PRE	1949.0	2001.0	12.0	35.0	17.0		
	2695	SGMR	49	GB	1955.0	2142.0	159.0	2100.0			QL=4 ST=2 TYP=6
	1415	SGMR	48	C	1956.0	2142.0	158.0	500.0			QL=4 ST=2 TYP=8
	2695	PALE	48	C	1957.0	2004.0	144.0	1900.0			QL=4 ST=3 TYP=8
	4995	SGMR	49	GB	1957.0	2142.0	157.0	5000.0			QL=4 ST=2 TYP=6
	4995	PALE	48	C	1958.0	2004.0	126.0	6400.0			QL=4 ST=3 TYP=8
	410	SGMR	48	C	2000.0	2003.0	154.0	11000.0			QL=4 ST=2 TYP=8
	9500	CUBA	47	GB	2001.0	2024.0		522.0	261.0		
	9500	CUBA	47	GB	2001.0	2004.0	29.2	4158.0	2079.0		
	8800	PALE	48	C	2001.0	2004.0	105.0	15000.0			QL=4 ST=3 TYP=8

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

JULY 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
15	245	PALE	48	C	2001.0	2129.0	140.0	25000.0			QL=4 ST=3 TYP=8
	1415	PALE	48	C	2001.0	2004.0	147.0	1100.0			QL=4 ST=3 TYP=8
	245	SGMR	48	C	2001.0	2129.0	153.0	22000.0			QL=4 ST=2 TYP=8
	8800	SGMR	49	GB	2001.0	2141.0	153.0	14000.0			QL=4 ST=2 TYP=6
	410	PALE	48	C	2001.0	2003.0	183.0	14000.0			QL=4 ST=3 TYP=8
	610	SGMR	48	C	2002.0	2004.0	152.0	4800.0			QL=4 ST=2 TYP=8
	15400	SGMR	4	S/F	2002.0	2230.0	152.0	20000.0			QL=4 ST=2 TYP=3
	200	HIRA	47	GB	2003.0	2004.0	12.0	3665.0			O
	500	HIRA	7	C	2003.0	2113.0	105.0	380.0			ML
	15400	PALE	48	C	2003.0	2004.0	113.0	20000.0			QL=4 ST=3 TYP=8
	2800	HIRA	47	GB	2003.0	2143.0	120.0	535.0			O
	610	PALE	48	C	2003.0	2005.0	142.0	5000.0			QL=4 ST=3 TYP=8
	9500	CUBA	29	PBI	2030.2	2030.2	7.7	43.0	21.0		
	9500	CUBA	31	ABS	2037.9	2053.5	24.9	-17.0	-8.0		
	9500	CUBA	22	GRF	2102.0	2142.0	91.0D	136.0	68.0		SUN SET
	1415	SGMR	48	C	2103.0	2142.0	91.0	500.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	2104.0	2141.0	88.0	160.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	2111.0	2142.0	83.0	460.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	2111.0	2142.0	82.0	270.0			QL=4 ST=2 TYP=8
	200	HIRA	47	GB	2115.0	2122.0	21.0	1560.0			O
	2840	PEKG	3	S	2148.0	2208.0E	61.0	97.3			
	15400	SGMR	46	C	2228.0	2230.0	3.0	28.0			QL=4 ST=2 TYP=8
16	204	IZMI	44	NS	0600.0E		360.0D		20.0		
	245	PALE	8	S	0328.0	0328.0	1.0	120.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0638.0	0640.0	10.0	210.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0638.0	0640.6	21.0	117.3			
	9100	GORK	46	C	0638.6	0640.0	3.9	80.0			
	9100	GORK	46	C	0638.6	0640.5		90.0			
	3000	IZMI	45	C	0638.8	0640.5	11.0	131.0	37.0		
	2800	HIRA	3	S	0639.0	0641.0	6.0	115.0			O
	200	HIRA	8	S	0639.0	0639.0	1.0	40.0			MR
	1415	LEAR	4	S/F	0639.0	0640.0	3.0	80.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0639.0	0640.0	3.0	100.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0639.0	0640.0	3.0	190.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0639.0	0640.0	3.0	130.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	0639.0	0640.0	6.0	87.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0639.0	0640.0	8.0	110.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0639.0	0640.0	9.0	150.0			QL=4 ST=2 TYP=3
	900	GORK	4	S/F	0639.0	0641.7	4.0	30.0			
	15400	SVTO	4	S/F	0640.0	0640.0	6.0	24.0			QL=4 ST=2 TYP=3
	9100	GORK	29	PBI	0642.5	0642.5	15.2	18.0			
	900	GORK	30	PBI	0643.0	0643.0	7.4	20.0			
	900	GORK	46	C	0645.8	0646.0	1.3	20.0			
	900	GORK	46	C	0645.8	0646.3		17.0			
	900	GORK	46	C	0645.8	0646.9		44.0			
	204	IZMI	41	F	0647.8	0647.9	0.4	39.0	5.9		
	33	UPIC	45	C	0901.0	0901.7	1.0				UNCERTN
	2800	PENT	41	F	1347.0	1400.0	65.0	65.0			
	245	SGMR	8	S	1351.0	1352.0	2.0	79.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1351.0	1351.0	U	37.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1359.0	1400.0	7.0	120.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1359.0	1401.0	5.0	56.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1359.0	1400.0	7.0	140.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1400.0	1400.0	6.0	64.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1400.0	1400.0	6.0	130.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1400.0	1402.0	6.0	66.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1400.0	1400.0	7.0	110.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1400.0	1403.0	7.0	65.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1411.0	1412.0	3.0	200.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1411.0	1412.0	5.0	110.0			QL=2 ST=3 TYP=3
	410	PALE	48	C	1910.0	1910.0	1.0	120.0			QL=4 ST=2 TYP=8
	245	PALE	4	S/F	1910.0	1913.0	3.0	160.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1958.0	1958.0	U	60.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	2009.0	2010.0	3.0	92.0			QL=4 ST=2 TYP=8
	245	SGMR	4	S/F	2009.0	2009.0	3.0	89.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	2050.0	2131.0	87.0	17.0			
	245	PALE	48	C	2128.0	2136.0	8.0	280.0			QL=4 ST=2 TYP=8
	245	SGMR	4	S/F	2131.0	2132.0	7.0	110.0			QL=4 ST=2 TYP=3

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

JULY 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	8800	SGMR	4	S/F	2134.0	2135.0	4.0	58.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	2135.0	2135.0	3.0	35.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	2140.0	2140.0	4.0	120.0			QL=4 ST=2 TYP=3
17	204	IZMI	44	NS	0600.0E		360.0D		45.0		
	33	UPIC	43	NS	0918.0	1049.0	204.0				
	245	SGMR	43	NS	1245.0	1249.0	4.0	52.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1300.0E		530.0D		17.0		
	280	CUBA	44	NS	1300.0E		530.0D		29.0		
	245	SGMR	43	NS	1427.0	1532.0	88.0	160.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1730.0	1901.0	105.0	72.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	2149.0	2150.0	8.0	120.0			QL=4 ST=2 TYP=1
	2840	PEKG	3	S	0200.0	0204.5	20.0	11.7			
	9100	GORK	1	S	0416.0	0416.5	1.1	11.0			
	600	GORK	41	F	0432.8	0439.2	6.4	10.0			
	600	GORK	41	F	0432.8	0444.9		7.3			
	2840	PEKG	1	S	0436.0	0439.5	9.0	6.6			
	9100	GORK	45	C	0438.0	0439.4	4.6	33.0			
	9100	GORK	45	C	0438.0	0440.7		15.0			
	900	GORK	46	C	0438.3	0441.2		90.0			
	900	GORK	46	C	0438.3	0439.4	3.7	7.4			
	9100	GORK	2	S/F	0527.0	0527.2	1.0	13.0			
	900	GORK	41	F	0529.0	0529.1	4.3	4.5			
	900	GORK	41	F	0529.0	0532.3U		77.0U			
	9100	GORK	45	C	0546.8	0549.0		70.0			
	9100	GORK	45	C	0546.8	0548.7	3.2	65.0			
	8800	LEAR	8	S	0548.0	0549.0	1.0	81.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0548.0	0549.0	1.0	46.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0548.0	0549.0	1.0	75.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0548.0	0549.0	1.0	31.0			QL=4 ST=2 TYP=3
	9100	GORK	29	PBI	0550.0	0550.0	9.3	15.0			
	33	UPIC	48	C	0656.0	0702.8	18.0				
	245	SVTO	48	C	0657.0	0702.0U	24.0	1600.0			QL=2 ST=2 TYP=8
	900	GORK	46	C	0658.0	0713.0		280.0			
	900	GORK	46	C	0658.0	0703.6U	22.7	120.0U			
	9100	GORK	46	C	0658.5	0713.0		1600.0			
	9100	GORK	46	C	0658.5	0703.2	31.5D	1050.0			
	2840	PEKG	47	GB	0659.0	0701.1	33.0	416.2			
	2800	HIRA	47	GB	0700.0	0703.0	16.0	635.0			0
	500	HIRA	7	C	0700.0	0712.0	16.0	255.0			WL
	4995	LEAR	48	C	0700.0	0702.0	16.0	1000.0			QL=4 ST=2 TYP=8
	1415	SVTO	48	C	0700.0	0703.0	14.0	220.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	0700.0	0703.0	14.0	550.0			QL=4 ST=2 TYP=8
	8800	LEAR	48	C	0700.0	0712.0	25.0	1900.0			QL=4 ST=2 TYP=8
	15400	LEAR	48	C	0700.0	0712.0	21.0	1800.0			QL=4 ST=2 TYP=8
	610	SVTO	48	C	0700.0	0701.0	21.0	290.0			QL=4 ST=2 TYP=8
	4995	SVTO	48	C	0700.0	0703.0	24.0	1000.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	0700.0	0713.0	28.0	1500.0			QL=4 ST=2 TYP=8
	15400	SVTO	48	C	0700.0	0713.0	28.0	1500.0			QL=4 ST=2 TYP=8
	600	GORK	46	C	0700.1	0701.4	25.4	480.0			
	600	GORK	46	C	0700.1	0711.8		740.0			
	3000	IZMI	46	C	0700.2	0702.8	15.7	790.0	149.5		
	204	IZMI	46	C	0700.4	0702.8	14.5	259.0			
	1415	LEAR	4	S/F	0701.0	0703.0	3.0	200.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0701.0	0703.0	4.0	610.0			QL=4 ST=2 TYP=3
	410	SVTO	48	C	0701.0	0709.0	20.0	660.0			QL=4 ST=2 TYP=8
	2695	LEAR	4	S/F	0708.0	0712.0	5.0	130.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0711.0	0712.0	2.0	90.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0721.0	0721.0	1.0	25.0			0
	245	SVTO	8	S	0816.0E	0816.0U	U	73.0			QL=2 ST=2 TYP=3
	245	SGMR	4	S/F	1056.0	1058.0	3.0	77.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1058.0E	1058.0	U	51.0			QL=2 ST=2 TYP=3
	245	SGMR	48	C	1218.0	1219.0	3.0	69.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	1226.0	1226.0	4.0	55.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	1240.0	1242.0	2.0	67.0			QL=4 ST=2 TYP=8
	2800	PENT	20	GRF	1339.0	1414.0	72.0	4.0			
	245	SGMR	4	S/F	1410.0	1410.0	6.0	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1410.0E	1410.0	U	65.0			QL=2 ST=2 TYP=3
	2800	PENT	20	GRF	1505.0	1537.0	87.0U	3.0			

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JULY 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
17	245	SVTO	8	S	1532.0	1532.0	1.0	100.0			QL=4 ST=2 TYP=3
	2800	PENT	41	F	1730.0	1908.0	122.0U	5.0			
	9500	CUBA	46	C	1836.0	1836.3	3.0	33.0	16.0		
	9500	CUBA	21	GRF	1944.0	2014.0	166.0D	17.0	8.0		
	9500	CUBA	1	S	1946.4	1946.9	0.8	31.0	15.0		
	9500	CUBA	2	S/F	1949.8	1950.0	2.2	11.0	5.0		
	9500	CUBA	2	S/F	1954.0	1954.2	1.5	21.0	10.0		
	15400	PALE	48	C	2010.0	2010.0	1.0	64.0			QL=4 ST=2 TYP=8
	610	PALE	8	S	2010.0	2010.0	U	100.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2010.0	2010.0	1.0	55.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2010.0	2010.0	1.0	43.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2010.0	2010.0	1.0	57.0			QL=4 ST=2 TYP=3
	1415	SGMR	46	C	2010.0	2011.0	3.0	22.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	2010.0	2010.0	3.0	75.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	2010.0	2010.0	3.0	87.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	2010.0	2010.0	3.0	110.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	2010.0	2010.0	3.0	56.0			QL=4 ST=2 TYP=8
	610	SGMR	8	S	2010.0	2010.0	1.0	80.0			QL=4 ST=2 TYP=3
	9500	CUBA	4	S/F	2011.0	2011.9	2.5	110.0	55.0		
	245	SGMR	48	C	2027.0	2027.0	1.0	53.0			QL=4 ST=2 TYP=8
	2800	PENT	20	GRF	2033.0	2052.0	42.0	4.0			
	9500	CUBA	1	S	2127.8	2129.1	3.1	12.0	6.0		
	500	HIRA	4	S/F	2139.0	2140.0	3.0	60.0			WL
	200	HIRA	8	S	2139.0	2140.0	3.0	90.0			WL
	410	SGMR	8	S	2139.0	2140.0	1.0	95.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	2140.0	2142.0	2.0	59.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	2147.0	2147.0	U	58.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	2149.0	2150.0	1.0	210.0			QL=4 ST=2 TYP=3
18	204	IZMI	44	NS	0600.0E		360.0D		40.0		
	245	SVTO	43	NS	0642.0	0643.0	95.0	97.0			QL=2 ST=2 TYP=1
	410	PALE	8	S	0300.0	0300.0	U	110.0			QL=4 ST=2 TYP=3
	9100	GORK	28	PRE	0321.7	0327.6	10.3	11.0			
	2840	PEKG	3	S	0327.0	0333.2	23.0	257.6			
	2800	HIRA	3	S	0332.0	0333.0	6.0	210.0			0
	1415	LEAR	8	S	0332.0	0333.0	2.0	110.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0332.0	0333.0	2.0	200.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0332.0	0333.0	1.0	240.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0332.0	0333.0	2.0	910.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0332.0	0333.0	3.0	1800.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0332.0	0333.0	1.0	500.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	0332.0	0333.0	1.0	1500.0			QL=4 ST=2 TYP=3
	9100	GORK	4	S/F	0332.0	0333.0U	15.4	320.0			
	2804	VORO	4	S/F	0332.0	0333.2	13.0	80.0			
	900	GORK	46	C	0332.2	0333.2	10.8	37.0			
	900	GORK	46	C	0332.2	0335.3U		100.0U			
	600	GORK	2	S/F	0332.4	0333.1	1.5	3.7			
	1415	PALE	8	S	0333.0	0333.0	1.0	100.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0333.0	0333.0	1.0	210.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0333.0	0333.0	U	200.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0337.0	0337.0	U	92.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0337.0	0337.0	U	58.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0339.0	0339.0	1.0	80.0			WL
	9100	GORK	1	S	0350.7	0352.6	4.0	7.6			
	245	LEAR	8	S	0409.0	0409.0	U	82.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0417.0	0417.0	U	60.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0424.0	0424.0	U	100.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0426.0	0429.6	9.0	7.4			
	900	GORK	40	F	0426.6	0430.7	6.0	9.8			
	600	GORK	2	S/F	0428.9	0429.1	0.5	9.1			
	245	LEAR	8	S	0429.0	0429.0	1.0	100.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0429.0	0429.0	1.0	96.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0429.0	0429.0	U	160.0			QL=4 ST=2 TYP=3
	9100	GORK	1	S	0429.0	0430.6	2.8	7.6			
	500	HIRA	8	S	0430.0	0430.0	1.0	25.0			0
	200	HIRA	8	S	0444.0	0444.0	1.0	75.0			ML
	500	HIRA	7	C	0513.0	0515.0	4.0	60.0			WR
	500	HIRA	7	C	0549.0	0549.0	13.0	100.0			WR
	245	LEAR	8	S	0617.0	0617.0	1.0	150.0			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

JULY 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
18	245	SVTO	8	S	0617.0	0617.0	1.0	160.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	0620.0	0620.0	U	100.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	0620.0	0620.0	U	100.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	0632.0	0632.0	U	97.0			QL=4 ST=2 TYP=8
	2840	PEKG	3	S	0641.0	0646.8	16.0	22.9			
	245	LEAR	8	S	0642.0	0642.0	U	100.0			QL=4 ST=2 TYP=3
	500	HIRA	7	C	0646.0	0647.0	6.0	45.0			WL
	200	HIRA	7	C	0646.0	0646.0	5.0	60.0			0
	245	LEAR	48	C	0646.0	0646.0	4.0	420.0			QL=4 ST=2 TYP=8
	610	LEAR	46	C	0646.0	0646.0	U	41.0			QL=4 ST=2 TYP=8
	410	LEAR	49	GB	0646.0	0646.0	1.0	2100.0			QL=4 ST=2 TYP=6
	245	SVTO	48	C	0646.0	0646.0	4.0	370.0			QL=4 ST=3 TYP=8
	410	SVTO	49	GB	0646.0	0646.0	2.0	1500.0			QL=4 ST=2 TYP=6
	610	SVTO	8	S	0646.0	0646.0	1.0	41.0			QL=4 ST=2 TYP=3
	900	GORK	46	C	0646.0	0647.1	5.7	26.0			
	900	GORK	46	C	0646.0	0649.4		9.8			
	204	IZMI	41	F	0646.1	0646.4	5.1	194.0			
	9100	GORK	2	S/F	0646.1	0646.8	1.4	25.0			
	600	GORK	46	C	0646.1	0646.8	7.9	58.0			
	600	GORK	46	C	0646.1	0650.8		17.0			
	3000	IZMI	7	C	0646.4	0646.9	3.1	19.0	5.2		
	245	LEAR	8	S	0654.0	0655.0	1.0	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0718.0	0719.0	1.0	70.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0723.0	0743.2	46.0	371.3			
	9100	GORK	2	S/F	0725.2	0725.6	1.2	20.0			
	3000	IZMI	5	S	0725.6	0725.8	0.3	140.0	7.8		
	204	IZMI	46	C	0738.8	0742.5	13.0	4286.0			
	245	LEAR	48	C	0740.0	0742.0	8.0	2500.0			QL=4 ST=2 TYP=8
	245	SVTO	48	C	0740.0	0742.0	8.0	2200.0			QL=4 ST=2 TYP=8
	500	HIRA	47	GB	0740.0	0743.0	18.0	1990.0			ML
	410	LEAR	48	C	0740.0	0743.0	13.0	1900.0			QL=4 ST=2 TYP=8
	410	SVTO	48	C	0740.0	0743.0	13.0	1800.0			QL=4 ST=2 TYP=8
	610	SVTO	48	C	0740.0	0744.0	11.0	710.0			QL=4 ST=2 TYP=8
	4995	SVTO	49	GB	0740.0	0743.0	11.0	1200.0			QL=4 ST=2 TYP=6
	33	UPIC	48	C	0740.0	0742.5	12.0				
	9100	GORK	4	S/F	0740.0	0742.5U	20.6	310.0U			
	600	GORK	46	C	0740.1	0747.5U		130.0U			
	600	GORK	46	C	0740.1	0743.5U	14.2	130.0U			
	900	GORK	46	C	0740.3	0748.0U		100.0U			
	3000	IZMI	45	C	0740.3	0743.3	11.3	506.0	84.9		
	900	GORK	46	C	0740.3	0743.5	15.0	100.0U			
	2695	LEAR	49	GB	0741.0	0743.0	3.0	620.0			QL=4 ST=2 TYP=6
	8800	LEAR	49	GB	0741.0	0743.0	9.0	1700.0			QL=4 ST=2 TYP=6
	2695	SVTO	49	GB	0741.0	0743.0	9.0	560.0			QL=4 ST=2 TYP=6
	1415	SVTO	4	S/F	0741.0	0743.0	9.0	440.0			QL=4 ST=2 TYP=3
	2800	HIRA	47	GB	0741.0	0743.0	11.0	600.0			0
	610	LEAR	48	C	0741.0	0744.0	10.0	900.0			QL=4 ST=2 TYP=8
	8800	SVTO	49	GB	0741.0	0743.0	10.0	1500.0			QL=4 ST=2 TYP=6
	1415	LEAR	8	S	0742.0	0743.0	2.0	400.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0742.0	0743.0	6.0	1700.0			QL=4 ST=2 TYP=3
	15400	SVTO	49	GB	0742.0	0743.0	8.0	1600.0			QL=4 ST=2 TYP=6
	4995	LEAR	8	S	0749.0	0749.0	U	61.0			QL=4 ST=2 TYP=3
	204	IZMI	25	R	0752.9		247.1D		60.0		
	245	LEAR	48	C	0755.0	0755.0	5.0	93.0			QL=4 ST=2 TYP=8
	245	SVTO	48	C	0755.0	0755.0	5.0	110.0			QL=4 ST=2 TYP=8
	410	LEAR	8	S	0756.0	0757.0	1.0	180.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0756.0	0756.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	0813.0	0817.0	5.0	61.0			QL=4 ST=2 TYP=8
	410	SVTO	4	S/F	0814.0	0820.0	9.0	310.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0816.0	0820.0	5.0	210.0			QL=4 ST=2 TYP=3
	9100	GORK	20	GRF	0828.1	0830.0	17.3	11.0			
	410	SVTO	8	S	0923.0	0924.0	2.0	65.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1142.0	1143.0	3.0	200.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1142.0	1143.5	2.0				UNCERTN
	245	SVTO	8	S	1143.0E	1143.0U	U	160.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1143.2	1143.3	0.2	144.0			
	3000	IZMI	20	GRF	1153.0	1154.5	1.9	11.0	6.5		
	245	SGMR	8	S	1216.0	1216.0	1.0	73.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1216.0E	1216.0U	U	56.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

JULY 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
18	245	SGMR	8	S	1234.0	1234.0	U	58.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1234.0	1234.0	1.0	230.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1234.0	1234.0	1.0	400.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1244.0	1244.0	U	50.0			QL=4 ST=2 TYP=8
	245	SGMR	8	S	1303.0	1303.0	U	170.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1303.0E	1303.0U	U	90.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1329.0	1329.0	U	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1330.0	1330.0	U	72.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	1425.0	1426.0	1.0	1100.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1426.0	1426.0	2.0	1700.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	1426.0	1426.0	U	610.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	1426.0	1426.0	U	1200.0			QL=4 ST=2 TYP=6
	33	UPIC	3	S	1426.0	1426.5	1.0				
	2800	PENT	41	F	1447.0	1529.0	105.0U	4.0			
	245	SGMR	8	S	1702.0	1702.0	U	61.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1702.0	1702.0	U	62.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	1714.0	1715.0	2.0	1400.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	1714.0	1715.0	2.0	1000.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	1714.0	1715.0	2.0	1500.0			QL=4 ST=3 TYP=6
	610	PALE	8	S	1734.0	1734.0	U	52.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1734.0	1734.0	U	78.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1738.0	1744.0	12.0	5.0			
	410	PALE	8	S	1744.0	1744.0	U	54.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1744.0	1744.0	U	73.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1744.0	1744.0	U	68.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1816.0	1816.0	U	63.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	1821.0	1824.0	4.0	6700.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1821.0	1824.0	4.0	6700.0			QL=4 ST=2 TYP=6
	245	PALE	8	S	1823.0	1823.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1823.0	1823.0	U	74.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1824.0	1824.0	U	380.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1824.0	1824.0	U	270.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1826.0	1826.0	U	92.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1845.0	1911.0	47.0U	23.0			
	245	PALE	8	S	1852.0	1852.0	U	460.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1909.0	1911.0	9.0	41000.0			QL=4 ST=2 TYP=3
	235	CUBA	47	GB	1909.5	1911.0	58.0	56.0	28.0		
	280	CUBA	47	GB	1909.5	1911.0	58.0	48.0	24.0		
	410	PALE	48	C	1910.0	1910.0	6.0	360.0			QL=4 ST=2 TYP=8
	610	PALE	4	S/F	1910.0	1912.0	5.0	77.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1910.0	1911.0	4.0	31000.0			QL=4 ST=2 TYP=8
	410	SGMR	4	S/F	1910.0	1910.0	5.0	270.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1910.0	1912.0	4.0	51.0			QL=4 ST=2 TYP=3
	9500	CUBA	21	GRF	1910.0	1915.0	84.0	10.0	5.0		
	1415	PALE	8	S	1911.0	1912.0	2.0	45.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1911.0	1912.0	3.0	52.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	1925.0	1926.0	7.0	470.0			QL=4 ST=2 TYP=8
	610	PALE	48	C	1929.0	1930.0	2.0	79.0			QL=4 ST=2 TYP=8
	610	SGMR	8	S	1929.0	1930.0	2.0	67.0			QL=4 ST=2 TYP=3
	410	SGMR	46	C	1936.0	1937.0	1.0	45.0			QL=4 ST=2 TYP=8
	610	SGMR	48	C	1936.0	1937.0	6.0	79.0			QL=4 ST=2 TYP=8
	245	PALE	48	C	1940.0	1941.0	4.0	79.0			QL=4 ST=2 TYP=8
	410	PALE	48	C	1945.0	1945.0	U	53.0			QL=4 ST=2 TYP=8
	610	PALE	48	C	1945.0	1945.0	U	57.0			QL=4 ST=2 TYP=8
	610	PALE	48	C	1949.0	2014.0	56.0	930.0			QL=4 ST=2 TYP=8
	610	SGMR	48	C	1949.0	2014.0	56.0	850.0			QL=4 ST=2 TYP=8
	410	PALE	48	C	1950.0	2000.0	55.0	300.0			QL=4 ST=2 TYP=8
	410	SGMR	48	C	1950.0	2000.0	55.0	250.0			QL=4 ST=2 TYP=8
	9500	CUBA	2	S/F	1953.7	1954.7	1.9	15.0	7.0		
	500	HIRA	7	C	2010.0	2039.0	37.0	165.0			0
	245	PALE	8	S	2033.0	2033.0	1.0	430.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	2128.0	2148.0	64.0U	14.0			
	410	SGMR	8	S	2208.0	2208.0	U	320.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	2212.0	2213.0	1.0	1800.0			QL=4 ST=2 TYP=6
	245	PALE	8	S	2212.0	2212.0	1.0	320.0			QL=4 ST=2 TYP=3
	2804	VORO	2	S/F	2212.0	2212.3	1.5	13.8			
	500	HIRA	47	GB	2213.0	2213.0	1.0	575.0			0
	610	PALE	8	S	2213.0	2213.0	U	120.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	2213.0	2213.0	U	1600.0			QL=4 ST=2 TYP=6

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

JULY 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
18	245	SGMR	8	S	2213.0	2213.0	U	210.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	2213.0	2213.0	U	110.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2253.0	2253.0	U	150.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2253.0	2253.0	U	100.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	2253.0	2254.0	15.0	150.0			ML
	2840	PEKG	3	S	2257.0	2315.3	45.0	53.4			
	410	PALE	8	S	2258.0	2258.0	U	110.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2258.0	2258.0	U	120.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2258.0	2258.0	U	53.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	2258.0	2258.0	U	38.0			QL=4 ST=2 TYP=3
	2804	VORO	40	F	2258.5	2259.7	2.4	6.9			
	410	PALE	8	S	2305.0	2305.0	U	300.0			QL=4 ST=2 TYP=3
	2804	VORO	22	GRF	2305.0	2355.0	325.0	10.6			
	2804	VORO	46	C	2312.8	2315.3	3.8	37.4			
	2800	HIRA	4	S/F	2313.0	2315.0	4.0	40.0			0
	4995	PALE	8	S	2313.0	2313.0	1.0	86.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2314.0	2314.0	1.0	250.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2314.0	2314.0	U	84.0			QL=4 ST=2 TYP=3
	2800	PENT	20	GRF	2334.0	2355.0	44.0	11.0			
19	235	CUBA	44	NS	1300.0E		90.0D		7.0		
	280	CUBA	44	NS	1300.0E		90.0D		15.0		
	245	SGMR	43	NS	1651.0	1658.0	82.0	200.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	2015.0	2016.0	157.0	280.0			QL=4 ST=2 TYP=1
	245	PALE	8	S	0139.0	0139.0	2.0	56.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0223.0	0223.0	U	87.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0227.0	0227.0	1.0	100.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0227.0	0228.0	1.0	140.0			QL=4 ST=2 TYP=3
	2804	VORO	8	S	0227.6	0227.9	0.6	4.1			
	410	PALE	48	C	0325.0	0325.0	2.0	92.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	0327.0	0327.0	U	71.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0433.0	0435.0	2.0	100.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0434.0	0435.0	2.0	190.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0435.0	0437.0	2.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0435.0	0436.0	1.0	140.0			QL=4 ST=2 TYP=3
	900	GORK	4	S/F	0449.9	0450.5	1.5	50.0			
	600	GORK	46	C	0450.3	0450.7	0.8	26.0			
	600	GORK	46	C	0450.3	0450.8		32.0			
	2840	PEKG	3	S	0504.0	0506.4	11.0	18.1			
	500	HIRA	8	S	0505.0	0506.0	4.0	230.0			
	410	SVTO	48	C	0505.0	0506.0	4.0	440.0			QL=4 ST=2 TYP=8
	600	GORK	7	C	0505.8	0506.4	1.3	55.0			
	600	GORK	7	C	0505.8	0506.7		20.0			
	610	SVTO	8	S	0506.0	0506.0	U	210.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0506.0	0506.0	2.0	22.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	0506.0	0508.0	3.0				
	9100	GORK	7	C	0506.3	0508.1		11.0			
	9100	GORK	7	C	0506.3	0508.1		11.0			
	9100	GORK	7	C	0506.3	0506.6	2.9	9.3			
	9100	GORK	7	C	0506.3	0506.6	2.9	9.3			
	245	SVTO	8	S	0507.0	0508.0	1.0	31.0			QL=4 ST=2 TYP=3
	2804	VORO	46	C	0515.8	0516.7	3.6	13.8			
	33	UPIC	45	C	0526.0	0529.5	4.0				
	500	HIRA	7	C	0549.0	0552.0	3.0	40.0			
	410	SVTO	8	S	0550.0	0550.0	1.0	97.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0836.0	0838.3	8.0	11.0			
	500	HIRA	8	S	0838.0	0839.0	1.0	40.0			
	410	SVTO	49	GB	0838.0	0838.0	1.0	880.0			QL=4 ST=2 TYP=6
	245	SVTO	8	S	0838.0	0838.0	U	21.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0838.0	0838.3	2.4	12.0			
	3000	IZMI	7	C	0838.2	0838.3	0.5	13.0	5.8		
	204	IZMI	42	SER	0849.2	0850.0	2.1	82.0			
	2840	PEKG	45	C	0913.0	0917.8	15.0	29.1			
	204	IZMI	42	SER	0915.9	0916.4	3.9	260.0			
	410	SVTO	48	C	0916.0	0916.0	3.0	1100.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	0916.0	0918.0	2.0	66.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	0916.0	0917.0	3.0	50.0			QL=4 ST=2 TYP=3
	600	GORK	41	F	0916.2	0919.3	8.9	30.0			
	600	GORK	41	F	0916.2	0924.9		28.0			

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JULY 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
19	900	GORK	46	C	0917.4	0918.1	2.9	8.5			
	900	GORK	46	C	0917.4	0919.3		23.0			
	3000	IZMI	7	C	0917.8	0918.1	1.8	23.0	6.7		
	1415	SVTO	8	S	0918.0	0918.0	U	32.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0918.0	0918.0	U	23.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0918.0	0918.0	1.0	24.0			QL=4 ST=2 TYP=3
	33	UPIC	42	SER	1031.5	1246.0	276.0				
	410	SVTO	8	S	1052.0	1052.0	1.0	78.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1058.0	1058.0	U	190.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1206.0	1206.0	U	140.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1206.0	1206.0	U	140.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1246.0	1247.0	1.0	270.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1246.0	1247.0	1.0	190.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1247.0	1248.0	1.0	240.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1247.0	1248.0	1.0	280.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1429.0	1429.0	U	320.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1429.0	1429.0	U	36.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1429.0	1429.0	U	190.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1429.0	1429.0	U	38.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1429.0	1429.0	U	26.0			QL=4 ST=2 TYP=3
	2800	PENT	20	GRF	1433.0	1505.0	83.0	3.0			
	410	SGMR	8	S	1511.0	1511.0	U	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1542.0	1542.0	U	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1542.0	1542.0	U	130.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1558.0	1616.0	34.0U	10.0			
	245	SGMR	8	S	1623.0	1623.0	U	60.0			QL=4 ST=2 TYP=3
	33	UPIC	42	SER	1633.0	1646.2	21.0				
	245	SGMR	49	GB	1634.0	1635.0	2.0	1100.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	1634.0	1635.0	2.0	520.0			QL=4 ST=2 TYP=6
	410	SVTO	48	C	1638.0	1646.0	8.0	100.0			QL=4 ST=2 TYP=8
	410	SGMR	8	S	1641.0	1641.0	U	85.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1642.0	1642.0	U	190.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1642.0	1644.0	4.0	250.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1646.0	1646.0	U	25.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1653.0	1653.0	U	180.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1653.0	1653.0	U	43.0			QL=4 ST=2 TYP=3
	245	SVTO	48	C	1657.0	1702.0	5.0	160.0			QL=4 ST=2 TYP=8
	410	SVTO	8	S	1701.0	1702.0	1.0	35.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1704.0	1704.0	U	71.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1704.0	1704.0	U	28.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1708.0	1708.0	U	130.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1708.0	1708.0	U	68.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1708.0	1708.0	U	24.0			QL=4 ST=2 TYP=3
	2800	PENT	41	F	1800.0	1847.0	76.0	17.0			
	245	PALE	8	S	1810.0	1810.0	U	170.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1810.0	1810.0	U	440.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1810.0	1810.0	U	520.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	1810.0	1810.0	U	130.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1810.0	1810.5	1.6	9.0	4.0		
	610	PALE	8	S	1811.0	1811.0	U	54.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1813.0	1813.0	U	190.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1813.0	1813.0	U	260.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1813.0	1813.0	U	190.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1813.0	1813.0	2.0	200.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	1847.0	1848.0	1.0	500.0			QL=4 ST=2 TYP=6
	245	PALE	8	S	1858.0	1858.0	1.0	1200.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1916.0	1916.0	U	120.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1916.0	1916.0	U	100.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	1918.0	1919.0	1.0	680.0			QL=4 ST=2 TYP=6
	200	HIRA	8	S	2015.0	2016.0	4.0	105.0			0
	245	PALE	48	C	2015.0	2016.0	3.0	340.0			QL=4 ST=2 TYP=8
	500	HIRA	8	S	2212.0	2212.0	1.0	35.0			0
	410	PALE	8	S	2212.0	2212.0	U	190.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2212.0	2212.0	U	160.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2222.0	2222.0	1.0	51.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2253.0	2253.0	U	170.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2324.0	2326.0	2.0	360.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2326.0	2326.0	U	160.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	2356.0	2402.0	6.0	830.0			QL=4 ST=2 TYP=8

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JULY 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
20	245	SGMR	43	NS	1223.0	1223.0	200.0	150.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1500.0E		210.0D		6.0		
	280	CUBA	44	NS	1500.0E		210.0D		13.0		
	245	SGMR	43	NS	1927.0	1928.0	1.0	190.0			QL=4 ST=2 TYP=1
	200	HIRA	8	S	0023.0	0023.0	1.0	25.0			0
	500	HIRA	8	S	0054.0	0054.0	1.0	10.0			0
	245	PALE	8	S	0054.0	0054.0	1.0	210.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0117.0	0117.0	1.0	250.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0620.4	0620.9	0.8	12.0			
	2840	PEKG	3	S	0747.0	0750.0	15.0	21.1			
	3000	IZMI	22	GRF	0749.2	0749.8	14.4	11.0	3.2		
	2840	PEKG	3	S	0804.0	0809.6	15.0	19.4			
	3000	IZMI	22	GRF	0908.5	0909.8	1.6	17.0	9.7		
	245	SVTO	8	S	1006.0	1006.0	1.0	97.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1046.0	1046.0	2.0	130.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	1125.8	1125.8	0.1	52.0			
	245	SVTO	8	S	1223.0	1223.0	U	91.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1310.0	1310.0	U	53.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1502.0	1502.0	U	67.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1537.0	1537.0	U	56.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1543.0	1543.0	U	65.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1644.0	1644.0	1.0	210.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1644.0	1644.0	U	30.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1644.0	1644.0	1.0	180.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1834.0	1835.0	1.0	130.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1834.0	1835.0	1.0	160.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1906.0	1906.0	U	740.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1906.0	1906.0	U	650.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	1906.0	1906.0	U	45.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1914.0	1914.0	U	59.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1914.0	1914.0	U	55.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1924.0	1924.0	U	220.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1924.0	1924.0	U	64.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1924.0	1924.0	U	180.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1924.0	1924.0	U	42.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1927.0	1927.0	1.0	250.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2008.0	2008.0	U	160.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2008.0	2008.0	1.0	120.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	2020.0	2023.0	6.0	30.0	15.0		
	4995	SGMR	4	S/F	2021.0	2024.0	5.0	90.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2022.0	2022.0	4.0	52.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2022.0	2024.0	4.0	45.0			QL=4 ST=2 TYP=3
	2800	PENT	49	GB	2034.0	2113.0	116.0U	500.0U			
	9500	CUBA	47	GB	2103.0	2130.2	37.3	4597.0	2298.0		
	2800	HIRA	47	GB	2104.0	2130.0	50.0	2340.0			0
	500	HIRA	7	C	2104.0	2128.0	54.0	295.0			0
	2695	SGMR	48	C	2104.0	2129.0	59.0	2600.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	2104.0	2130.0	59.0	6500.0			QL=4 ST=2 TYP=8
	1415	PALE	48	C	2105.0	2127.0	43.0	1300.0			QL=4 ST=2 TYP=8
	15400	PALE	48	C	2105.0	2127.0	44.0	21000.0			QL=2 ST=2 TYP=8
	4995	PALE	48	C	2105.0	2130.0	53.0	4700.0			QL=2 ST=2 TYP=8
	8800	PALE	48	C	2105.0	2130.0	55.0	8900.0			QL=2 ST=2 TYP=8
	1415	SGMR	48	C	2105.0	2127.0	58.0	1500.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	2105.0	2130.0	58.0	20000.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	2105.0	2128.0	58.0	43000.0			QL=4 ST=2 TYP=8
	200	HIRA	47	GB	2106.0	2116.0	30.0	6035.0			0
	245	PALE	48	C	2106.0	2106.0	48.0	12000.0			QL=4 ST=2 TYP=8
	410	PALE	48	C	2106.0	2130.0	49.0	330.0			QL=4 ST=2 TYP=8
	610	PALE	48	C	2106.0	2109.0	44.0	380.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	2106.0	2106.0	57.0	10000.0			QL=4 ST=2 TYP=8
	410	SGMR	48	C	2106.0	2130.0	57.0	310.0			QL=4 ST=2 TYP=8
	610	SGMR	48	C	2106.0	2109.0	57.0	430.0			QL=4 ST=2 TYP=8
	9500	CUBA	47	GB	2110.0E	2110.0		2606.0	1303.0		
	9500	CUBA	29	PBI	2140.3	2140.3	46.7	215.0	107.0		SUN SET
	2840	PEKG	3	S	2159.5	2207.1	41.0	58.4			
	245	LEAR	8	S	2324.0	2324.0	1.0	730.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	2328.0	2328.0	1.0	93.0			QL=4 ST=2 TYP=8
	200	HIRA	8	S	2329.0	2329.0	1.0	40.0			0

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
21	245	SVTO	43	NS	0515.0	0604.0	70.0	59.0			QL=2 ST=2 TYP=1
	204	IZMI	43	NS	0600.0		360.0D		20.0		
	245	SVTO	43	NS	0718.0	0733.0	21.0	95.0			QL=2 ST=2 TYP=1
	245	SVTO	43	NS	1025.0	1056.0	91.0	110.0			QL=2 ST=2 TYP=1
	245	SGMR	43	NS	1118.0	1137.0	132.0	160.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1459.0	1603.0	146.0	320.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1516.0	1516.0	524.0	85.0			QL=2 ST=3 TYP=1
	245	PALE	43	NS	1641.0	1657.0	101.0	300.0			QL=4 ST=2 TYP=1
	2840	PEKG	3	S	0224.0	0231.7	18.0	10.4			
	2804	VORO	40	F	0231.3	0231.5	1.6	14.0			
	200	HIRA	8	S	0305.0	0306.0	2.0	205.0			MR
	245	PALE	48	C	0427.0	0434.0	7.0	270.0			QL=4 ST=2 TYP=8
	410	PALE	8	S	0433.0	0434.0	1.0	330.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0434.0	0434.0	1.0	195.0			0
	245	LEAR	8	S	0434.0	0434.0	U	95.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0434.0	0434.0	U	150.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0442.0	0442.0	1.0	75.0			0
	245	LEAR	8	S	0442.0	0442.0	U	170.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0442.0	0442.0	U	68.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0442.0	0442.0	U	420.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0442.0	0442.0	U	190.0			QL=4 ST=2 TYP=3
	9100	GORK	2	S/F	0448.2	0450.3	4.5	7.5			
	200	HIRA	8	S	0449.0	0449.0	1.0	260.0			0
	245	LEAR	48	C	0449.0	0449.0	3.0	270.0			QL=4 ST=2 TYP=8
	245	PALE	48	C	0449.0	0449.0	3.0	720.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	0456.0E	0456.0U	U	55.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0533.0	0533.0	U	58.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0533.0E	0533.0U	1.0D	170.0			QL=2 ST=2 TYP=3
	9100	GORK	4	S/F	0555.2	0556.2	1.8	25.0			
	200	HIRA	8	S	0730.0	0731.0	2.0	30.0			WR
	2840	PEKG	3	S	0757.0	0804.8	24.0	20.2			
	3000	IZMI	22	GRF	0802.6	0804.6	3.3	20.0	7.2		
	204	IZMI	42	SER	0808.2	0811.2	4.7	150.0			
	245	SVTO	8	S	0810.0	0810.0	1.0	110.0			QL=2 ST=2 TYP=3
	200	HIRA	8	S	0811.0	0811.0	3.0	80.0			0
	245	SVTO	8	S	0844.0E	0844.0U	U	81.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0910.0	0910.0	U	270.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0910.0E	0910.0U	1.0D	490.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1009.0	1009.0	U	48.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1010.0E	1013.0U	4.0D	53.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	1245.0	1245.0	U	50.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1334.0	1334.0	U	73.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1334.0	1334.0	U	83.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1334.0	1334.0	U	27.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1417.0	1419.5	4.3	6.0	3.0		
	245	SGMR	8	S	1435.0	1437.0	2.0	60.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1603.0	1603.0	U	210.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1603.0	1603.0	U	77.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1621.3	1622.1	1.9	24.0	12.0		
	410	PALE	8	S	1732.0	1732.0	U	62.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1851.0	1851.0	U	100.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1933.0	1933.0	U	62.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2001.0	2001.0	U	87.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2001.0	2001.0	U	52.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2020.0	2021.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2020.0	2020.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2047.0	2047.0	U	53.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2124.0	2124.0	U	87.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2124.0	2124.0	U	50.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	2127.0	2205.0	56.0	9.0			
	245	PALE	8	S	2129.0	2129.0	U	87.0			QL=4 ST=2 TYP=3
22	204	IZMI	43	NS	0922.0		158.0D		15.0		
	245	SGMR	43	NS	1339.0	1454.0	206.0	150.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1441.0	1455.0	55.0	110.0			QL=2 ST=2 TYP=1
	245	LEAR	8	S	0021.0	0021.0	U	57.0			QL=4 ST=2 TYP=3
	2800	PENT	8	S	0128.0	0131.0	6.0	17.0			
	2840	PEKG	3	S	0129.0	0131.5	11.0	21.4			
	410	LEAR	8	S	0131.0	0131.0	U	72.0			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

JULY 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
22	410	PALE	8	S	0131.0	0131.0	U	170.0			QL=4 ST=2 TYP=3
	2804	VORO	40	F	0131.0	0131.7	2.5	19.6			
	2804	VORO	8	S	0138.8	0138.9	0.8	4.9			
	245	PALE	8	S	0320.0	0321.0	1.0	130.0			QL=4 ST=2 TYP=3
	900	GORK	42	SER	0450.4	0454.0	17.3	3.7			
	900	GORK	42	SER	0450.4	0507.4		35.0			
	9100	GORK	2	S/F	0453.6	0454.8	2.2	17.0			
	9100	GORK	29	PBI	0455.8	0455.8	8.5	11.0			
	245	SVTO	8	S	0518.0	0518.0	U	65.0			QL=4 ST=2 TYP=3
	9100	GORK	1	S	0634.9	0635.4	4.6	11.0			
	245	SVTO	8	S	0757.0	0757.0	U	51.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	0915.4	0915.9	1.0	378.0			
	245	SVTO	8	S	0918.0	0918.0	U	52.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	0918.0	0918.4	1.7	347.0			
	2840	PEKG	20	GRF	0921.0	0928.5	31.0	25.3			
	2950	GORK	46	C	0925.3	0929.0		74.0			
	2950	GORK	46	C	0925.3	0928.1	16.7	80.0			
	9100	GORK	20	GRF	0925.8	0926.8	17.0	11.0			
	245	LEAR	8	S	0926.0	0926.0	U	55.0			QL=4 ST=2 TYP=3
	245	SVTO	48	C	0926.0	0927.0	3.0	84.0			QL=4 ST=2 TYP=8
	600	GORK	41	F	0926.0	0931.2		14.0			
	600	GORK	41	F	0926.0	0926.9	6.5	6.9			
	900	GORK	40	F	0926.4	0926.9	5.6	6.1			
	204	IZMI	46	C	0926.4	0926.9	1.1	229.0			
	3000	IZMI	22	GRF	0926.5	0929.3	8.2	19.0	9.9		
	245	LEAR	8	S	0928.0	0928.0	U	57.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0928.3	0930.0	4.5	45.0			
	245	SVTO	8	S	0951.0	0952.0	1.0	98.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0951.6	0951.8	0.3	157.0			
	245	SVTO	4	S/F	1007.0	1007.0	3.0	150.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1007.0	1008.4	1.6	58.0			
	245	SGMR	8	S	1148.0	1148.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1148.0	1148.0	2.0	97.0			QL=4 ST=2 TYP=3
	33	UPIC	42	SER	1148.0	1155.5	13.5				
	204	IZMI	41	F	1148.6	1148.8	0.6	90.0			
	610	SGMR	8	S	1149.0	1149.0	U	55.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1153.0	1154.0	2.0	54.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1154.0	1154.0	1.0	93.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1154.0	1154.0	U	42.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1154.3	1154.6	1.5	97.0			
	245	SGMR	8	S	1207.0	1207.0	U	61.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1227.0	1227.0	U	54.0			QL=4 ST=2 TYP=3
	9500	CUBA	21	GRF	1257.0	1302.0	83.0	8.0	4.0		
	9500	CUBA	1	S	1259.7	1300.0	8.3	8.0	4.0		
	245	SVTO	8	S	1417.0	1417.0	U	50.0			QL=4 ST=3 TYP=3
	9500	CUBA	1	S	1455.4	1455.6	0.6	10.0	5.0		
	410	SVTO	8	S	1542.0	1542.0	1.0	110.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1542.0	1543.0	1.0	32.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1847.0	1847.0	U	130.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1847.0	1847.0	U	46.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1847.0	1847.0	U	84.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1847.0	1847.0	U	50.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	1855.0	1856.0	1.0	120.0			QL=4 ST=2 TYP=8
	245	SGMR	8	S	1855.0	1855.0	U	75.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1932.0	1932.0	U	52.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	2257.0	2301.0	6.0	17.7			
	2800	PENT	8	S	2258.0	2300.0	4.0	18.0			
23	245	LEAR	43	NS	0215.0	0227.0	114.0	130.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0458.0	0618.0	1142.0	220.0			QL=2 ST=3 TYP=1
	245	SVTO	43	NS	0922.0	0933.0	25.0	250.0			QL=2 ST=2 TYP=1
	245	LEAR	43	NS	0923.0	0930.0	19.0	210.0			QL=4 ST=3 TYP=1
	204	IZMI	43	NS	0954.0		126.0D		50.0		
	245	SVTO	43	NS	1029.0	1058.0	29.0	100.0			QL=2 ST=2 TYP=1
	245	SGMR	43	NS	1058.0	1327.0	340.0	250.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1157.0	1559.0	326.0	190.0			QL=2 ST=2 TYP=1
	245	SGMR	43	NS	1728.0	1846.0	147.0	330.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1954.0	2201.0	544.0	160.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	2150.0	2217.0	74.0	260.0			QL=4 ST=2 TYP=1

SOLAR RADIO EMISSION
Outstanding Occurrences

JULY 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
23	245	LEAR	43	NS	2318.0	2332.0	87.0	88.0			QL=4 ST=2 TYP=1
	2800	PENT	49	GB	0010.0	0038.0	28.0U	500.0U			
	2840	PEKG	47	GB	0010.0	0029.6	107.0	1613.4			
	245	LEAR	48	C	0014.0	0014.0	1.0	92.0			QL=4 ST=2 TYP=8
	2804	VORO	47	GB	0018.2	0030.0	152.0	500.0			
	2800	HIRA	47	GB	0020.0	0030.0	60.0	1735.0			0
	4995	LEAR	48	C	0021.0	0038.0	83.0	4300.0			QL=4 ST=2 TYP=8
	2695	LEAR	48	C	0022.0	0029.0	82.0	1800.0			QL=4 ST=2 TYP=8
	8800	LEAR	48	C	0022.0	0038.0	83.0	9400.0			QL=4 ST=2 TYP=8
	4995	PALE	48	C	0022.0	0029.0	1418.0	3700.0			QL=4 ST=3 TYP=8
	1415	LEAR	48	C	0023.0	0028.0	81.0	1400.0			QL=4 ST=2 TYP=8
	15400	LEAR	48	C	0023.0	0031.0	82.0	10000.0			QL=4 ST=2 TYP=8
	2695	PALE	48	C	0023.0	0029.0	1417.0	1500.0			QL=4 ST=3 TYP=8
	8800	PALE	48	C	0023.0	0029.0	1417.0	6000.0			QL=4 ST=3 TYP=8
	500	HIRA	47	GB	0024.0	0030.0	53.0	950.0			0
	610	LEAR	48	C	0025.0	0029.0	68.0	1500.0			QL=4 ST=2 TYP=8
	410	LEAR	4	S/F	0025.0	0029.0	66.0	1400.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	0025.0	0029.0	75.0	6600.0			QL=4 ST=2 TYP=8
	410	PALE	48	C	0025.0	0029.0	1415.0	1400.0			QL=4 ST=3 TYP=8
	610	PALE	48	C	0025.0	0029.0	1415.0	1100.0			QL=4 ST=3 TYP=8
	1415	PALE	48	C	0025.0	0028.0	1415.0	1600.0			QL=4 ST=3 TYP=8
	15400	PALE	48	C	0025.0	0030.0	1415.0	10000.0			QL=4 ST=3 TYP=8
	200	HIRA	47	GB	0026.0	0029.0	52.0	4580.0			0
	245	PALE	48	C	0026.0	0029.0	1414.0	8000.0			QL=4 ST=3 TYP=8
	610	PALE	48	C	0050.0	0050.0	1.0	130.0			QL=4 ST=3 TYP=8
	410	PALE	48	C	0054.0	0103.0	16.0	140.0			QL=4 ST=3 TYP=8
	1415	PALE	46	C	0101.0	0102.0	1.0	42.0			QL=4 ST=3 TYP=8
	245	PALE	48	C	0104.0	0104.0	U	140.0			QL=4 ST=3 TYP=8
	2800	HIRA	3	S	0129.0	0132.0	12.0	405.0			0
	500	HIRA	4	S/F	0131.0	0131.0	4.0	30.0			0
	245	LEAR	48	C	0205.0	0210.0	5.0	51.0			QL=4 ST=2 TYP=8
	245	LEAR	8	S	0307.0	0307.0	U	330.0			QL=4 ST=2 TYP=3
	9100	GORK	1	S	0322.3	0322.9	1.3	9.6			
	245	LEAR	48	C	0456.0	0459.0	4.0	65.0			QL=4 ST=2 TYP=8
	600	GORK	40	F	0500.0	0509.0	27.0	11.0			
	245	LEAR	48	C	0503.0	0505.0	2.0	110.0			QL=4 ST=2 TYP=8
	245	LEAR	48	C	0523.0	0523.0	U	53.0			QL=4 ST=2 TYP=8
	245	LEAR	48	C	0603.0	0603.0	1.0	83.0			QL=4 ST=2 TYP=8
	245	LEAR	48	C	0607.0	0617.0	16.0	210.0			QL=4 ST=2 TYP=8
	245	LEAR	8	S	0741.0	0741.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0741.0	0741.0	U	130.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0852.0	0856.3	9.0	6.4			
	9100	GORK	20	GRF	0855.8	0913.4	30.4	15.0			
	2950	GORK	1	S	0855.8	0856.8	2.2	5.8			
	204	IZMI	42	SER	0859.8	0900.7	1.4	80.0			
	200	HIRA	8	S	0900.0	0901.0	1.0	35.0			0
	245	LEAR	49	GB	0908.0	0910.0	5.0	670.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	0909.0	0911.0	5.0	590.0			QL=4 ST=2 TYP=6
	4995	SGMR	8	S	1220.0	1221.0	2.0	35.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1220.0	1221.0	2.0	73.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1221.0	1222.0	1.0	36.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1221.0	1222.0	2.0	64.0			QL=4 ST=2 TYP=3
	2800	PENT	20	GRF	1401.0	1447.0	99.0	7.0			
	9500	CUBA	1	S	1845.5	1846.1	2.5	10.0	5.0		
	9500	CUBA	20	GRF	2028.0	2111.0	122.0	19.0	9.0		SUN SET
	2840	PEKG	1	S	2250.0	2252.3	5.0	5.2			
	8800	PALE	8	S	2251.0	2252.0	1.0	58.0			QL=4 ST=2 TYP=3
24	204	IZMI	44	NS	0600.0E		360.0D		25.0		
	245	SVTO	43	NS	0726.0	1453.0	599.0	220.0			QL=2 ST=2 TYP=1
	245	SGMR	43	NS	1103.0	1444.0	338.0	340.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1645.0	1841.0	733.0	840.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1705.0	2151.0	365.0	400.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2318.0	2334.0	417.0	220.0			QL=4 ST=2 TYP=1
	2800	PENT	20	GRF	0020.0	0030.0	75.0	6.0			
	2840	PEKG	1	S	0027.0	0030.5	7.0	5.2			
	245	LEAR	48	C	0103.0	0104.0	2.0	69.0			QL=4 ST=2 TYP=8
	245	LEAR	48	C	0202.0	0203.0	2.0	94.0			QL=4 ST=2 TYP=8
	245	LEAR	48	C	0226.0	0226.0	U	62.0			QL=4 ST=2 TYP=8

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

JULY 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
24	245	LEAR	8	S	0309.0	0309.0	U	51.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0319.0	0319.0	2.0	67.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0319.0	0319.0	1.0	170.0			QL=4 ST=2 TYP=3
	8800	PALE	46	C	0319.0	0320.0	1.0	44.0			QL=4 ST=2 TYP=8
	15400	PALE	8	S	0319.0	0320.0	1.0	180.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0320.0	0320.0	U	31.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	0333.0	0334.0	4.0	85.0			QL=4 ST=2 TYP=8
	2840	PEKG	20	GRF	0340.0	0346.1	15.0	11.5			
	9100	GORK	21	GRF	0342.8	0403.0	140.2	13.0			
	900	GORK	7	C	0343.0	0345.0	5.5	4.9			
	900	GORK	7	C	0343.0	0346.1		3.7			
	600	GORK	20	GRF	0343.4	0348.2	11.9	4.5			
	9100	GORK	2	S/F	0346.8	0347.3	1.7	12.0			
	2840	PEKG	5	S	0415.0	0418.3	6.0	12.2			
	9100	GORK	3	S	0418.0	0418.4	1.2	15.0			
	2950	GORK	3	S	0418.0U	0418.4	1.0D	13.0			
	900	GORK	46	C	0418.1	0418.3U	1.6	100.0U			
	900	GORK	46	C	0418.1	0418.6		60.0			
	600	GORK	2	S/F	0418.2	0418.4	0.7	8.2			
	600	GORK	47	GB	0422.9	0521.8	95.7	135.0			
	245	LEAR	48	C	0429.0	0430.0	1.0	65.0			QL=4 ST=2 TYP=8
	245	LEAR	48	C	0433.0	0434.0	2.0	110.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	0446.0E	0447.0	2.0D	77.0			QL=2 ST=2 TYP=3
	2950	GORK	20	GRF	0507.4	0513.5	13.8	6.7			
	900	GORK	7	C	0511.0	0512.2	2.0	14.0			
	900	GORK	7	C	0511.0	0512.9		4.8			
	9100	GORK	7	C	0511.5	0512.2	3.7	15.0			
	9100	GORK	7	C	0511.5	0513.2		9.5			
	9100	GORK	2	S/F	0634.6	0635.0	2.2	17.0			
	900	GORK	7	C	0710.3	0711.0		9.6			
	900	GORK	7	C	0710.3	0710.7	1.2	3.6			
	9100	GORK	1	S	0711.6	0712.0	1.1	11.0			
	204	IZMI	25	R	0934.0		86.0		40.0		
	600	GORK	46	C	0948.7	0949.3	2.2	17.0			
	600	GORK	46	C	0948.7	0949.5		8.2			
	245	SGMR	48	C	1044.0	1044.0	3.0	54.0			QL=2 ST=2 TYP=8
	410	SGMR	48	C	1252.0	1252.0	3.0	52.0			QL=4 ST=2 TYP=8
	410	SVTO	4	S/F	1253.0E	1255.0U	5.0D	99.0			QL=4 ST=2 TYP=3
	1415	SGMR	48	C	1535.0	1536.0	4.0	440.0			QL=4 ST=2 TYP=8
	1415	SVTO	48	C	1535.0	1536.0	4.0	410.0			QL=4 ST=2 TYP=8
	9500	CUBA	21	GRF	1535.0	1545.0	40.0	17.0	8.0		
	1415	SVTO	8	S	1544.0	1546.0	2.0	53.0			QL=4 ST=2 TYP=3
	410	SGMR	46	C	1546.0	1546.0	1.0	26.0			QL=4 ST=2 TYP=8
	1415	SGMR	8	S	1546.0	1548.0	2.0	93.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1548.0	1548.0	U	78.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1619.0E	1621.0U	2.0D	56.0			QL=2 ST=2 TYP=3
	15400	SGMR	48	C	1811.0	1811.0	1.0	71.0			QL=4 ST=2 TYP=8
	8800	SGMR	8	S	1845.0	1845.0	U	32.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1845.0	1845.0	U	51.0			QL=4 ST=2 TYP=3
	200	HIRA	7	C	2234.0	2236.0	5.0	95.0			0
	500	HIRA	4	S/F	2235.0	2238.0	4.0	10.0			0
	2840	PEKG	3	S	2242.0	2245.5	11.0	8.9			
25	245	SVTO	43	NS	0523.0	0526.0	3.0	76.0			QL=2 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		25.0		
	245	SVTO	43	NS	0617.0	0822.0	239.0	350.0			QL=2 ST=2 TYP=1
	245	LEAR	43	NS	0820.0	0909.0	83.0	210.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1232.0	1312.0	245.0	120.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1645.0	1647.0	435.0	430.0			QL=4 ST=3 TYP=1
	245	LEAR	43	NS	2318.0	0224.0	270.0	88.0			QL=4 ST=2 TYP=1
	9100	GORK	20	GRF	0318.0U	0324.5	27.0D	14.0			
	900	GORK	1	S	0321.0U	0321.7	4.0D	4.5			
	200	HIRA	7	C	0356.0	0358.0	4.0	70.0			0
	9100	GORK	20	GRF	0359.0	0403.0	20.5	16.0			
	600	GORK	7	C	0409.0U	0412.2		11.2			
	600	GORK	7	C	0409.0U	0411.8	7.0D	9.7			
	900	GORK	2	S/F	0409.6	0412.3	7.0	7.9			
	600	GORK	47	GB	0431.6	0517.7	73.4	300.0			
	245	SVTO	8	S	0504.0	0504.0	U	50.0			QL=2 ST=2 TYP=3

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

JULY 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
25	245	LEAR	8	S	0648.0	0648.0	U	86.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	0755.0	0756.0	5.0	340.0			QL=4 ST=2 TYP=8
	245	LEAR	8	S	0808.0	0808.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0813.0	0813.0	U	150.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	0915.2	0915.5	0.4	418.0			
	900	GORK	3	S	1028.5	1028.7	1.1	18.0			
	2800	PENT	20	GRF	1356.0	1438.0	100.0	16.0			
	245	SGMR	8	S	1808.0	1808.0	U	63.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1915.0	1915.0	U	52.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2009.0	2009.0	1.0	40.0			WR
	245	SGMR	8	S	2009.0	2009.0	U	60.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2109.0	2109.0	U	67.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2122.0	2122.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2228.0	2228.0	U	59.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	2255.0	2306.9	34.0	36.3			
	2804	VORO	2	S/F	2300.0	2307.5	20.0	32.8			
	2800	HIRA	1	S	2305.0	2307.0	4.0	20.0			0
26	245	SGMR	43	NS	1523.0	1547.0	24.0	75.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	2136.0	2138.0	78.0	180.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2139.0	2317.0	438.0	200.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2312.0	0120.0	345.0	290.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2317.0	0239.0	627.0	140.0			QL=4 ST=2 TYP=1
	2800	PENT	29	PBI	0002.0	0008.0	64.0U	276.0			
	2840	PEKG	3	S	0003.0	0007.9	52.0	315.9			
	2800	HIRA	3	S	0006.0	0008.0	7.0	260.0			0
	2695	LEAR	4	S/F	0006.0	0008.0	5.0	250.0			QL=4 ST=3 TYP=3
	4995	LEAR	4	S/F	0006.0	0007.0	6.0	500.0			QL=4 ST=3 TYP=3
	8800	LEAR	4	S/F	0006.0	0007.0	4.0	360.0			QL=4 ST=3 TYP=3
	2695	PALE	4	S/F	0006.0	0008.0	5.0	260.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0006.0	0008.0	4.0	460.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0006.0	0008.0	3.0	320.0			QL=4 ST=2 TYP=3
	15400	LEAR	48	C	0006.0	0007.0	10.0	170.0			QL=4 ST=3 TYP=8
	2804	VORO	4	S/F	0006.0	0007.5	19.0	80.0			
	610	LEAR	8	S	0007.0	0007.0	U	84.0			QL=4 ST=3 TYP=3
	1415	LEAR	8	S	0007.0	0008.0	2.0	59.0			QL=4 ST=3 TYP=3
	15400	PALE	48	C	0007.0	0007.0	2.0	130.0			QL=4 ST=2 TYP=8
	610	PALE	8	S	0007.0	0007.0	U	72.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0007.0	0008.0	2.0	72.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0047.0	0047.0	1.0	65.0			0
	245	LEAR	8	S	0419.0	0419.0	U	73.0			QL=4 ST=2 TYP=3
	600	GORK	40	F	0424.0	0424.2	0.7	60.0			
	900	GORK	4	S/F	0604.7	0605.2	0.7	6.8			
	600	GORK	40	F	0604.8	0605.0	1.1	3.7			
	2950	GORK	23	GRF	0612.0	0622.1	79.0	10.0			
	2950	GORK	23	GRF	0612.0	0658.6		12.0			
	9100	GORK	23	GRF	0630.0U	0701.1		24.0			
	9100	GORK	23	GRF	0630.0U	0643.1	51.0D	22.0			
	2950	GORK	2	S/F	0633.9	0634.6	2.9	7.0			
	600	GORK	46	C	0639.0	0639.1	0.6	37.0			
	600	GORK	46	C	0639.0	0639.3		11.0			
	8800	LEAR	8	S	0640.0	0640.0	1.0	85.0			QL=4 ST=3 TYP=3
	8800	SVTO	4	S/F	0640.0	0641.0	4.0	94.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0640.0	0641.0	8.0	34.0			QL=4 ST=2 TYP=3
	9100	GORK	4	S/F	0640.4	0640.8	2.4	65.0			
	4995	SVTO	8	S	0641.0	0641.0	U	35.0			QL=4 ST=2 TYP=3
	900	GORK	40	F	0701.0	0702.0	2.0	6.8			
	245	LEAR	8	S	0701.0	0701.0	1.0	160.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0701.5	0701.8	0.5	110.0			
	245	SVTO	8	S	0702.0	0702.0	U	150.0			QL=4 ST=2 TYP=3
	2950	GORK	21	GRF	0755.7	0859.0U	223.3	23.0			
	200	HIRA	8	S	0759.0	0759.0	1.0	10.0			0
	204	IZMI	42	SER	0759.0	0803.0	4.0	66.0			
	2950	GORK	1	S	0801.4	0802.1	1.6	5.1			
	2950	GORK	20	GRF	0804.4	0810.4	10.2	9.0			
	600	GORK	46	C	0809.9	0810.2	0.6	25.0			
	600	GORK	46	C	0809.9	0810.4		6.4			
	410	LEAR	8	S	0810.0	0810.0	U	52.0			QL=4 ST=2 TYP=3
	600	GORK	40	F	0812.5	0814.4	3.6	60.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
26	9100	GORK	21	GRF	0819.0	0858.1	101.0	16.0			
	900	GORK	40	F	0906.9	0910.1	4.6	7.9			
	2840	PEKG	3	S	0917.0	0920.9	24.0	74.3			
	3000	IZMI	45	C	0918.0	0920.5	24.0	77.0			
	4995	LEAR	48	C	0919.0	0920.0	5.0	260.0			QL=4 ST=2 TYP=8
	8800	LEAR	48	C	0919.0	0920.0	4.0	280.0			QL=4 ST=2 TYP=8
	4995	SVTO	4	S/F	0919.0	0920.0	7.0	240.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0919.0	0920.0	6.0	290.0			QL=4 ST=2 TYP=3
	2950	GORK	46	C	0919.0	0921.3	20.0	65.0			
	2950	GORK	46	C	0919.0	0922.4		52.0			
	9100	GORK	46	C	0919.1	0922.4		110.0			
	9100	GORK	46	C	0919.1	0920.4	10.9	225.0			
	900	GORK	4	S/F	0919.2	0921.2	11.2	25.0			
	600	GORK	40	F	0919.4	0920.7	4.6	135.0			
	610	LEAR	8	S	0920.0	0920.0	U	58.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0920.0	0921.0	2.0	74.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	0920.0	0920.0	3.0	35.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0920.0	0921.0	6.0	59.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0920.0	0921.0	3.0	50.0			QL=4 ST=2 TYP=3
	9100	GORK	1	S	0949.5	0950.5	1.5	13.0			
	204	IZMI	41	F	0950.5	0951.2	1.0	110.0			
	900	GORK	41	F	1015.2	1016.1	5.6	3.4			
	900	GORK	41	F	1015.2	1020.7		5.6			
	204	IZMI	42	SER	1015.8	1023.0	8.7	205.0U			
	245	SVTO	8	S	1016.0	1016.0	U	62.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1016.0	1016.0	U	58.0			QL=4 ST=2 TYP=3
	33	UPIC	42	SER	1016.0	1016.0	30.0				
	600	GORK	42	SER	1016.0	1020.1	12.8	43.0			
	600	GORK	42	SER	1016.0	1023.2		21.0			
	600	GORK	42	SER	1016.0	1027.9		46.0			
	245	SVTO	4	S/F	1020.0	1021.0	3.0	290.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	1020.0	1023.3	8.0	9.1			
	900	GORK	46	C	1021.0	1022.0	3.5	24.0			
	900	GORK	46	C	1021.0	1022.4		10.0			
	3000	IZMI	7	C	1022.5	1023.0	2.5	15.0			
	2950	GORK	7	C	1022.5	1023.5	2.8	15.0			
	2950	GORK	7	C	1022.5	1023.9		15.0			
	9100	GORK	1	S	1022.9	1023.8	2.0	11.0			
	410	SVTO	8	S	1023.0	1023.0	U	41.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	1044.5	1044.6	0.3	22.0			
	204	IZMI	42	SER	1129.0	1129.2	2.0	44.0			
	600	GORK	40	F	1129.6	1130.6	1.6	12.0			
	204	IZMI	41	F	1139.0	1139.5	1.0	44.0			
	410	SGMR	49	GB	1140.0	1140.0	U	510.0			QL=4 ST=2 TYP=6
	610	SGMR	8	S	1140.0	1140.0	U	27.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1158.0	1158.0	U	240.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	1158.0	1158.0	U	170.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	1158.2	1158.4	1.3	21.0U			
	610	SGMR	4	S/F	1326.0	1328.0	4.0	430.0			QL=4 ST=2 TYP=3
	610	SVTO	48	C	1326.0	1328.0	3.0	330.0			QL=4 ST=2 TYP=8
	410	SGMR	4	S/F	1327.0	1332.0	10.0	300.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	1328.0	1333.0	9.0	310.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1330.0	1330.0	U	21.0			QL=4 ST=2 TYP=3
	9500	CUBA	20	GRF	1336.0	1339.0	39.0	11.0	5.0		
	33	UPIC	42	SER	1421.0	1432.5	14.5				
	245	SGMR	8	S	1429.0	1429.0	U	68.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1432.0	1433.0	2.0	110.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1432.0	1434.0	5.0	410.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1432.0	1433.0	2.0	77.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	1432.0	1434.0	4.0	300.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1529.0	1530.0	4.0	9.0	4.0		
	2800	PENT	1	S	1538.0	1552.0	20.0	9.0			
	245	SVTO	8	S	1547.0	1547.0	U	59.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1606.0	1606.0	1.0	71.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1606.0	1606.0	1.0	140.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1606.0	1606.0	2.0	77.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1606.0	1606.0	2.0	140.0			QL=4 ST=2 TYP=3
	9500	CUBA	3	S	1606.0E	1606.7	3.0D	100.0	50.0		
	245	SVTO	8	S	1607.0	1607.0	U	23.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N
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JULY 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	9500	CUBA	2	S/F	1611.6	1612.8	2.4	31.0	15.0		
	2800	PENT	20	GRF	1740.0	1859.0	83.0	36.0			
	9500	CUBA	21	GRF	1818.0	1828.0	39.0	28.0	14.0		
	9500	CUBA	2	S/F	1819.7	1823.2	4.3	14.0	7.0		
	245	PALE	8	S	1831.0	1831.0	U	71.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1848.3	1849.1	1.5	9.0	4.0		
	245	SGMR	8	S	1859.0	1859.0	U	630.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1859.0	1859.0	U	500.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1859.0	1859.0	U	33.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1859.0	1859.0	U	37.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1859.0	1859.0	U	44.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1859.0	1859.5	1.0	14.0	7.0		
	2800	PENT	49	GB	1912.0	2209.0	273.0	627.0			
	4995	SGMR	48	C	2049.0	2109.0	47.0	380.0			QL=4 ST=2 TYP=8
	9500	CUBA	46	C	2049.0	2106.2	27.0	289.0	144.0		
	4995	PALE	48	C	2050.0	2109.0	49.0	380.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	2050.0	2108.0	46.0	170.0			QL=4 ST=2 TYP=8
	2800	HIRA	7	C	2051.0	2108.0	27.0	130.0			
	2695	PALE	48	C	2051.0	2109.0	42.0	180.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	2051.0	2109.0	48.0	370.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	2051.0	2106.0	45.0	430.0			QL=4 ST=2 TYP=8
	15400	PALE	48	C	2052.0	2052.0	U	63.0			QL=4 ST=2 TYP=8
	500	HIRA	7	C	2052.0	2127.0	49.0	445.0			O
	1415	SGMR	48	C	2052.0	2105.0	44.0	3000.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	2052.0	2109.0	44.0	200.0			QL=4 ST=2 TYP=8
	9500	CUBA	46	C	2052.8E	2052.8		193.0	96.0		
	1415	PALE	4	S/F	2103.0	2105.0	10.0	3100.0			QL=4 ST=2 TYP=3
	15400	PALE	48	C	2104.0	2109.0	27.0	170.0			QL=4 ST=2 TYP=8
	9500	CUBA	46	C	2109.2E	2109.2		280.0	140.0		
	245	SGMR	48	C	2113.0	2113.0	23.0	83.0			QL=4 ST=2 TYP=8
	610	SGMR	48	C	2113.0	2121.0	23.0	2100.0			QL=4 ST=2 TYP=8
	410	SGMR	48	C	2114.0	2126.0	22.0	310.0			QL=4 ST=2 TYP=8
	610	PALE	48	C	2115.0	2121.0	15.0	2000.0			QL=4 ST=2 TYP=8
	9500	CUBA	30	PBI	2116.2	2116.2	74.0D	79.0	39.0		SUN SET
	245	PALE	48	C	2123.0	2138.0	16.0	250.0			QL=4 ST=2 TYP=8
	410	PALE	8	S	2138.0	2139.0	1.0	62.0			QL=4 ST=2 TYP=3
	2800	HIRA	47	GB	2201.0	2209.0	14.0	825.0			
	200	HIRA	47	GB	2201.0	2208.0	26.0	1155.0			O
	500	HIRA	47	GB	2201.0	2208.0	151.0	3390.0			MR
	245	SGMR	48	C	2202.0	2207.0	18.0	5900.0			QL=4 ST=2 TYP=8
	410	SGMR	49	GB	2202.0	2208.0	18.0	8700.0			QL=4 ST=2 TYP=6
	1415	SGMR	49	GB	2203.0	2207.0	17.0	1400.0			QL=4 ST=2 TYP=6
	610	SGMR	49	GB	2204.0	2209.0	16.0	7100.0			QL=4 ST=2 TYP=6
	2695	SGMR	49	GB	2204.0	2209.0	16.0	850.0			QL=4 ST=2 TYP=6
	4995	SGMR	49	GB	2204.0	2208.0	16.0	2000.0			QL=4 ST=2 TYP=6
	610	PALE	48	C	2204.0	2209.0U	13.0	6100.0			QL=2 ST=2 TYP=8
	245	PALE	49	GB	2204.0	2207.0U	11.0	8300.0			QL=2 ST=2 TYP=6
	410	PALE	49	GB	2204.0	2209.0U	15.0	7800.0			QL=2 ST=2 TYP=6
	8800	SGMR	49	GB	2206.0	2208.0	14.0	3800.0			QL=4 ST=2 TYP=6
	15400	SGMR	49	GB	2206.0	2208.0	14.0	2000.0			QL=4 ST=2 TYP=6
	1415	PALE	49	GB	2206.0	2208.0U	10.0	1400.0			QL=2 ST=2 TYP=6
	2695	PALE	48	C	2206.0	2209.0U	33.0	1000.0			QL=2 ST=2 TYP=8
	4995	PALE	48	C	2206.0	2208.0U	32.0	2100.0			QL=2 ST=2 TYP=8
	9500	CUBA	47	GB	2207.0E	2207.0	11.5D	276.0U	138.0U		
	8800	PALE	48	C	2207.0	2208.0U	31.0	2600.0			QL=2 ST=2 TYP=8
	15400	PALE	48	C	2207.0	2208.0U	32.0	1600.0			QL=2 ST=2 TYP=8
	2840	PEKG	47	GB	2208.0E	2208.3	97.0U	552.0			
	2695	SGMR	8	S	2236.0	2237.0	1.0	44.0			QL=2 ST=2 TYP=3
	4995	SGMR	8	S	2236.0	2237.0	1.0	57.0			QL=2 ST=2 TYP=3
	8800	SGMR	8	S	2236.0	2237.0	1.0	55.0			QL=2 ST=2 TYP=3
	410	PALE	48	C	2250.0	2251.0	7.0	120.0			QL=4 ST=2 TYP=8
	410	SGMR	4	S/F	2250.0	2251.0	4.0	94.0			QL=2 ST=2 TYP=3
	610	SGMR	4	S/F	2250.0	2251.0	4.0	80.0			QL=2 ST=2 TYP=3
	610	PALE	48	C	2251.0	2251.0	5.0	93.0			QL=4 ST=2 TYP=8
	410	PALE	48	C	2302.0	2302.0	9.0	470.0			QL=4 ST=2 TYP=8
	1415	PALE	48	C	2302.0	2305.0	9.0	100.0			QL=4 ST=2 TYP=8
	2695	PALE	48	C	2302.0	2305.0	8.0	78.0			QL=4 ST=2 TYP=8
	610	PALE	4	S/F	2302.0	2304.0	8.0	310.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	2318.0	2318.0	U	150.0			QL=2 ST=2 TYP=3

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

JULY 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	410	LEAR	4	S/F	2330.0	2332.0	3.0	81.0			QL=2 ST=2 TYP=3
	610	LEAR	4	S/F	2330.0	2331.0	3.0	98.0			QL=2 ST=2 TYP=3
	1415	LEAR	46	C	2331.0	2331.0	U	42.0			QL=2 ST=2 TYP=8
	410	LEAR	8	S	2353.0	2354.0	1.0	60.0			QL=4 ST=2 TYP=3
27	245	SVTO	44	NS	0508.0E	0606.0U	92.0D	96.0			QL=2 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		30.0		
	245	SGMR	43	NS	1102.0	1102.0	8.0	66.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1628.0	1632.0	34.0	63.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1643.0	1644.0	38.0	63.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	2122.0	2122.0	3.0	61.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2317.0	0138.0	43.0	97.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	2348.0	0731.0	596.0	420.0			QL=4 ST=2 TYP=1
	2840	PEKG	20	GRF	0001.0	0008.7	33.0	12.2			
	1415	LEAR	46	C	0009.0	0009.0	U	34.0			QL=4 ST=2 TYP=8
	610	LEAR	4	S/F	0011.0	0015.0	7.0	61.0			QL=4 ST=2 TYP=3
	410	LEAR	48	C	0012.0	0014.0	8.0	73.0			QL=4 ST=2 TYP=8
	200	HIRA	7	C	0102.0	0104.0	4.0	65.0			0
	410	LEAR	8	S	0104.0	0104.0	U	51.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0146.0	0147.0	1.0	160.0			MR
	610	LEAR	8	S	0146.0	0147.0	1.0	250.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0147.0	0147.0	U	140.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0158.0	0158.0	U	76.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0208.0	0211.2	9.0	8.7			
	610	LEAR	8	S	0259.0	0300.0	1.0	69.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0300.0	0300.0	1.0	40.0			WR
	410	LEAR	48	C	0300.0	0300.0	U	60.0			QL=4 ST=2 TYP=8
	600	GORK	7	C	0355.3	0356.2		5.8			
	600	GORK	7	C	0355.3	0355.9	1.3	6.8			
	9100	GORK	1	S	0435.2	0438.1	7.2	7.5			
	2950	GORK	20	GRF	0435.4	0437.2	7.6	6.4			
	600	GORK	46	C	0452.3	0453.3	2.0	70.0			
	600	GORK	46	C	0452.3	0453.6		36.0			
	900	GORK	7	C	0453.1	0454.0		7.4			
	900	GORK	7	C	0453.1	0453.5	1.1	9.8			
	2950	GORK	1	S	0453.3	0453.5	0.8	3.6			
	9100	GORK	1	S	0549.4	0550.3	1.0	9.4			
	900	GORK	41	F	0721.2	0722.2		60.0			
	900	GORK	41	F	0721.2	0721.5	2.7	30.0			
	2950	GORK	1	S	0722.4	0722.7	0.9	3.8			
	600	GORK	46	C	0724.9	0727.2U	3.3	120.0U			
	600	GORK	46	C	0724.9	0727.4U		120.0U			
	900	GORK	46	C	0726.5	0727.0	1.5	24.0			
	900	GORK	46	C	0726.5	0727.4		50.0			
	500	HIRA	8	S	0727.0	0727.0	1.0	85.0			WR
	610	LEAR	8	S	0727.0	0727.0	U	78.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0727.0	0727.0	U	48.0			QL=4 ST=2 TYP=3
	2950	GORK	1	S	0727.3	0727.4	0.2	4.8			
	2840	PEKG	3	S	0827.0	0830.4	9.0	10.0			
	2950	GORK	7	C	0829.1	0830.3		10.0			
	2950	GORK	7	C	0829.1	0829.8	2.4	6.8			
	900	GORK	41	F	0830.0	0830.4	9.6	7.4			
	900	GORK	41	F	0830.0	0838.4		20.0			
	900	GORK	41	F	0830.0	0832.8		17.0			
	600	GORK	46	C	0929.2	0929.4	0.6	8.7			
	600	GORK	46	C	0929.2	0929.6		12.0			
	610	SVTO	8	S	0945.0	0945.0	U	22.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0946.0	0946.0	U	58.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0946.0	0946.0	U	96.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0951.0	0951.0	U	60.0			QL=4 ST=2 TYP=3
	900	GORK	42	SER	1014.7	1024.1	14.2	28.0			
	900	GORK	42	SER	1014.7	1028.5		25.0			
	2840	PEKG	3	S	1020.0	1024.2	7.0	10.2			
	33	UPIC	46	C	1022.0	1024.0	6.0				
	600	GORK	40	F	1022.1	1024.1	16.7	100.0			
	600	GORK	40	F	1022.1	1029.3		55.0			
	2950	GORK	2	S/F	1023.5	1024.3	1.6	13.0			
	3000	IZMI	7	C	1023.6	1024.2	1.0	17.0	7.8		
	204	IZMI	42	SER	1023.9	1024.2	1.2	45.0			

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

JULY 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
27	410	SVTO	8	S	1024.0	1024.0	2.0	88.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1024.0E	1024.0	1.0D	69.0			QL=2 ST=2 TYP=3
	245	SVTO	4	S/F	1024.0	1024.0	3.0	74.0			QL=4 ST=2 TYP=3
	9100	GORK	3	S	1024.0	1024.3	1.2	13.0			
	204	IZMI	46	C	1028.9	1029.1	1.0	306.0			
	245	SVTO	8	S	1029.0	1029.0	U	130.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1029.0	1029.0	U	81.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1029.0E	1030.0	1.0D	76.0			QL=2 ST=2 TYP=3
	245	SGMR	48	C	1054.0	1055.0	4.0	68.0			QL=2 ST=2 TYP=8
	600	GORK	7	C	1107.0	1107.3	0.6	11.0			
	600	GORK	7	C	1107.0	1107.5		3.4			
	900	GORK	41	F	1110.3	1110.5	2.5	8.5			
	900	GORK	41	F	1110.3	1112.5		7.4			
	245	SGMR	8	S	1317.0	1317.0	U	78.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1317.0	1317.0	U	51.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1350.0	1350.3	1.2	7.0	3.0		
	245	SGMR	8	S	1356.0	1356.0	U	54.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1438.0	1438.0	U	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1438.0	1438.0	U	53.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1454.5	1454.8	0.8	7.0	3.0		
	9500	CUBA	2	S/F	1510.5	1510.8	2.6	9.0	4.0		
	245	SGMR	48	C	1522.0	1522.0	U	50.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	1625.0	1625.0	2.0	67.0			QL=4 ST=2 TYP=8
	2800	PENT	29	PBI	1732.0	1820.0	120.0U	14.0			
	245	PALE	8	S	1748.0	1748.0	U	120.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1748.0	1748.0	4.0	76.0			QL=4 ST=2 TYP=8
	410	SGMR	46	C	1749.0	1750.0	1.0	24.0			QL=4 ST=2 TYP=8
	9500	CUBA	21	GRF	1820.0	1832.0	32.0	11.0	5.0		
	9500	CUBA	1	S	1822.0	1822.3	1.0	9.0	4.0		
	245	PALE	8	S	1832.0	1832.0	U	68.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	2007.0	2011.0	4.0	99.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2011.0	2011.0	U	50.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	2041.0	2044.0	7.0	200.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	2041.0	2043.0	5.0	100.0			QL=4 ST=2 TYP=8
	2800	PENT	20	GRF	2042.0	2110.0	58.0	6.0			
	500	HIRA	8	S	2110.0	2110.0	1.0	25.0			0
	200	HIRA	8	S	2110.0	2110.0	1.0	10.0			0
	245	SGMR	8	S	2110.0	2110.0	U	130.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2110.0	2110.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2113.0	2114.0	1.0	50.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2225.0	2225.0	U	54.0			QL=4 ST=2 TYP=3
	2800	PENT	4	S/F	2349.0	2430.0	78.0U	34.0			
28	245	SVTO	43	NS	0440.0	1600.0	1160.0	970.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	0503.0	0000.0	1137.0	100.0			QL=2 ST=1 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		515.0		
	245	PALE	43	NS	2110.0	0017.0	466.0	420.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2316.0	0559.0	628.0	470.0			QL=4 ST=2 TYP=1
	2840	PEKG	3	S	0016.0	0031.0	41.0	36.5			
	500	HIRA	7	C	0018.0	0021.0	6.0	35.0			WR
	410	LEAR	48	C	0019.0	0021.0	4.0	130.0			QL=4 ST=2 TYP=8
	410	PALE	48	C	0020.0	0021.0	3.0	130.0			QL=4 ST=2 TYP=8
	2804	VORO	28	PRE	0020.0	0021.8	7.8	12.9			
	245	LEAR	48	C	0021.0	0022.0	3.0	100.0			QL=4 ST=2 TYP=8
	4995	LEAR	48	C	0021.0	0022.0	2.0	96.0			QL=4 ST=2 TYP=8
	610	LEAR	8	S	0021.0	0021.0	1.0	60.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0021.0	0022.0	2.0	280.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0021.0	0021.0	3.0	290.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	0021.0	0022.0	2.0	180.0			QL=4 ST=2 TYP=8
	4995	PALE	48	C	0021.0	0022.0	2.0	88.0			QL=4 ST=2 TYP=8
	15400	PALE	8	S	0021.0	0022.0	2.0	220.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0021.0	0022.0	3.0	320.0			QL=4 ST=2 TYP=3
	2804	VORO	45	C	0027.8	0030.8	22.2	27.0			
	2804	VORO	30	PBI	0050.0	0050.0	60.0	8.7			
	2840	PEKG	3	S	0109.0	0113.2	15.0	17.1			
	500	HIRA	4	S/F	0112.0	0113.0	4.0	70.0			WR
	200	HIRA	8	S	0112.0	0112.0	2.0	75.0			0
	245	LEAR	8	S	0112.0	0112.0	1.0	100.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0112.0	0113.0	1.0	57.0			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

JULY 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
28	2804	VORO	45	C	0112.0	0113.2	5.0	11.8			
	410	LEAR	8	S	0247.0	0248.0	1.0	120.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0248.0	0248.0	1.0	35.0			WR
	9100	GORK	1	S	0333.1	0334.5	4.5	18.0			
	2840	PEKG	3	S	0337.0E	0340.3	10.0U	17.9			
	900	GORK	40	F	0339.1	0339.8	2.7	100.0			
	2804	VORO	45	C	0340.0	0341.4	3.8	7.1			
	600	GORK	40	F	0353.3	0359.2	14.5	35.0			
	900	GORK	40	F	0354.0	0402.1	15.3	115.0			
	600	GORK	40	F	0542.7	0543.6	3.6	63.0			
	500	HIRA	8	S	0543.0	0544.0	1.0	45.0			WR
	410	LEAR	8	S	0543.0	0544.0	1.0	290.0			QL=4 ST=2 TYP=3
	900	GORK	40	F	0543.4	0543.8	2.2	15.0			
	2950	GORK	1	S	0543.5	0544.3	1.5	4.4			
	410	SVTO	8	S	0544.0	0544.0	U	180.0			QL=4 ST=3 TYP=3
	600	GORK	40	F	0554.2	0555.2	2.2	18.0			
	900	GORK	2	S/F	0554.2	0555.6	2.7	9.8			
	2950	GORK	1	S	0554.9	0556.3	1.8	3.6			
	9100	GORK	1	S	0555.1	0555.9	6.1	5.6			
	200	HIRA	7	C	0613.0	0615.0	4.0	30.0			0
	900	GORK	40	F	0626.8	0627.8	1.7	20.0			
	2950	GORK	2	S/F	0634.7	0635.4	1.7	6.2			
	2840	PEKG	1	S	0636.0	0638.2	9.0	4.8			
	9100	GORK	1	S	0637.8	0638.4	2.5	7.4			
	900	GORK	40	F	0638.6	0640.3	1.9	7.4			
	600	GORK	46	C	0647.5	0649.1		12.0			
	600	GORK	46	C	0647.5	0648.4	2.6	13.0			
	2950	GORK	1	S	0701.3	0702.1	1.9	4.5			
	900	GORK	2	S/F	0703.5	0703.7	0.9	11.0			
	600	GORK	7	C	0741.7	0742.1		5.1			
	600	GORK	7	C	0741.7	0741.8	0.7	6.0			
	900	GORK	7	C	0741.8	0742.1		11.0			
	900	GORK	7	C	0741.8	0741.9	0.6	17.0			
	900	GORK	42	SER	0810.6	0841.6		15.0			
	900	GORK	42	SER	0810.6	0819.6	43.8	17.0			
	2950	GORK	1	S	0823.7	0824.6	1.6	4.0			
	600	GORK	2	S/F	0823.7	0823.8	0.5	6.9			
	9100	GORK	2	S/F	0840.7	0841.3	2.4	14.0			
	600	GORK	40	F	0840.9	0841.2	2.8	40.0			
	2950	GORK	1	S	0841.1	0841.4	1.4	4.0			
	900	GORK	40	F	0853.3	0853.7	1.1	7.4			
	2950	GORK	1	S	0853.5	0854.0	1.0	3.0			
	9100	GORK	1	S	0941.4	0941.9	1.1	7.4			
	15400	SVTO	48	C	1041.0	1104.0	27.0	400.0			QL=4 ST=2 TYP=8
	245	SGMR	49	GB	1056.0	1056.0	6.0	1900.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	1056.0	1056.0	784.0	1800.0			QL=4 ST=2 TYP=6
	9100	GORK	4	S/F	1101.8	1104.2	12.1	180.0			
	15400	SGMR	4	S/F	1102.0	1104.0	3.0	350.0			QL=4 ST=2 TYP=3
	600	GORK	46	C	1102.6	1103.0	2.5	10.0			
	600	GORK	46	C	1102.6	1103.7		7.7			
	8800	SGMR	8	S	1103.0	1104.0	2.0	170.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1103.0	1104.0	2.0	48.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1103.0	1104.0	4.0	200.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1103.0	1104.0	5.0	400.0			QL=4 ST=3 TYP=3
	2950	GORK	20	GRF	1133.0	1145.4	45.0	17.0			
	2800	PENT	41	F	1415.0	1553.0	137.0U	16.0			
	9500	CUBA	1	S	1456.2	1457.2	2.6	34.0	17.0		
	8800	SGMR	8	S	1457.0	1457.0	U	41.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1457.0	1457.0	U	45.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1459.0	1459.0	U	100.0			QL=4 ST=2 TYP=3
	9500	CUBA	21	GRF	1549.0	1553.0	36.0	11.0	5.0		
	9500	CUBA	2	S/F	1549.4	1550.4	4.4	16.0	8.0		
	245	SGMR	49	GB	1725.0	1725.0	U	1800.0			QL=2 ST=2 TYP=6
	2800	PENT	20	GRF	1820.0	1852.0	72.0U	11.0			
	8800	PALE	48	C	1852.0	1853.0	5.0	56.0			QL=4 ST=2 TYP=8
	9500	CUBA	21	GRF	2004.0	2018.0	25.0	15.0	7.0		
	8800	SGMR	8	S	2009.0	2010.0	1.0	24.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	2009.0	2009.0	1.0	74.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	2009.2	2010.0	2.0	16.0	8.0		

SOLAR RADIO EMISSION
Outstanding Occurrences

JULY 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
28	15400	PALE	48	C	2010.0	2010.0	U	63.0			QL=4 ST=3 TYP=8
	2800	PENT	29	PBI	2031.0	2039.0	72.0	18.0			
	2840	PEKG	3	S	2257.0	2302.0	25.0	24.6			
	2804	VORO	23	GRF	2301.1	2429.4	161.0	18.3			
	2804	VORO	2	S/F	2301.1	2301.9	2.5	19.1			
	2800	PENT	24	R	2333.0	2421.0	95.0	77.0			
	2840	PEKG	20	GRF	2346.0	2350.5	22.0	9.4			
	2804	VORO	2	S/F	2349.9	2350.5	1.8	6.6			
29	245	SVTO	43	NS	0404.0	0559.0	265.0	440.0			QL=2 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		210.0		
	245	SVTO	43	NS	1024.0	1223.0	816.0	270.0			QL=4 ST=3 TYP=1
	245	SGMR	43	NS	1056.0	1550.0	736.0	600.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1315.0E		515.0D		72.0		
	280	CUBA	44	NS	1315.0E		515.0D		56.0		
	245	PALE	43	NS	1649.0	1845.0	726.0	380.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2316.0	0811.0	629.0	460.0			QL=4 ST=2 TYP=1
	2840	PEKG	3	S	0018.0	0021.6	33.0	87.6			
	2800	HIRA	1	S	0020.0	0022.0	3.0	70.0			0
	2695	LEAR	8	S	0020.0	0021.0	2.0	74.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0020.0	0021.0	2.0	98.0			QL=4 ST=2 TYP=3
	4995	PALE	48	C	0020.0	0021.0	2.0	110.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	0020.0	0021.0	1.0	83.0			QL=4 ST=2 TYP=8
	2804	VORO	4	S/F	0020.0	0021.5	4.4	54.5			
	2695	PALE	48	C	0021.0	0021.0	U	74.0			QL=4 ST=2 TYP=8
	200	HIRA	8	S	0027.0	0027.0	1.0	65.0			WL
	2804	VORO	46	C	0231.0	0235.0U	30.1	68.0			
	2800	HIRA	3	S	0231.0	0236.0	13.0	375.0			0
	2840	PEKG	3	S	0231.0	0236.3	35.0	434.7			
	500	HIRA	47	GB	0233.0	0237.0	9.0	820.0			MR
	610	PALE	48	C	0233.0	0236.0	6.0	1400.0			QL=4 ST=2 TYP=8
	410	LEAR	48	C	0233.0	0235.0	24.0	1400.0			QL=4 ST=2 TYP=8
	610	LEAR	48	C	0233.0	0236.0	24.0	2500.0			QL=4 ST=2 TYP=8
	410	PALE	48	C	0234.0	0235.0	6.0	1300.0			QL=4 ST=2 TYP=8
	1415	LEAR	48	C	0234.0	0236.0	23.0	340.0			QL=4 ST=2 TYP=8
	2695	LEAR	48	C	0234.0	0236.0	23.0	380.0			QL=4 ST=2 TYP=8
	4995	LEAR	48	C	0234.0	0236.0	23.0	420.0			QL=4 ST=2 TYP=8
	200	HIRA	47	GB	0235.0	0236.0	7.0	630.0			ML
	4995	PALE	48	C	0235.0	0236.0	2.0	270.0			QL=4 ST=2 TYP=8
	1415	PALE	4	S/F	0235.0	0236.0	4.0	340.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0235.0	0236.0	5.0	380.0			QL=4 ST=2 TYP=3
	8800	LEAR	48	C	0235.0	0236.0	16.0	280.0			QL=4 ST=2 TYP=8
	15400	LEAR	4	S/F	0235.0	0236.0	22.0	140.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0235.0	0236.0	1285.0	1700.0			QL=4 ST=1 TYP=6
	8800	PALE	48	C	0236.0	0236.0	1.0	120.0			QL=4 ST=2 TYP=8
	15400	PALE	48	C	0237.0	0237.0	U	58.0			QL=4 ST=2 TYP=8
	245	LEAR	48	C	0239.0	0240.0	2.0	860.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	0240.0	0240.0	1.0	1100.0			QL=4 ST=2 TYP=3
	9100	GORK	1	S	0403.6	0403.8	0.5	11.0			
	2950	GORK	1	S	0453.8	0455.3	3.4	3.8			
	2950	GORK	41	F	0507.9	0510.1	20.1	4.8			
	2950	GORK	41	F	0507.9	0514.7		2.8			
	2950	GORK	41	F	0507.9	0519.7		2.8			
	2950	GORK	1	S	0619.9	0620.8	2.4	7.4			
	9100	GORK	20	GRF	0620.1	0623.2	14.3	11.0			
	900	GORK	40	F	0620.7	0621.5	3.8	4.2			
	600	GORK	40	F	0621.0	0631.2	12.9	8.2			
	9100	GORK	20	GRF	0730.4	0927.4	148.6	14.0			
	900	GORK	40	F	0731.3	0731.8	1.5	7.4			
	2950	GORK	1	S	0731.4	0731.7	0.7	4.6			
	2950	GORK	20	GRF	0734.8	0741.6	28.8	7.7			
	900	GORK	2	S/F	0736.5	0736.9	0.5	7.4			
	410	LEAR	8	S	0800.0	0800.0	U	51.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	1020.0	1039.9	34.0	141.3			
	9100	GORK	46	C	1023.5	1032.2	24.5	190.0			
	9100	GORK	46	C	1023.5	1039.6		440.0			
	245	SGMR	48	C	1029.0	1029.0	7.0	63.0			QL=2 ST=2 TYP=8
	2950	GORK	46	C	1030.2	1059.6		125.0			
	2950	GORK	46	C	1030.2	1106.6		105.0			

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

JULY 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	2950	GORK	46	C	1030.2	1039.8	47.8	160.0			
	4995	SGMR	48	C	1031.0	1032.0	6.0	89.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	1031.0	1031.0	1.0	55.0			QL=4 ST=2 TYP=8
	3000	IZMI	46	C	1031.4	1039.8	50.5	163.0	35.2		
	2695	SGMR	46	C	1032.0	1032.0	U	37.0			QL=4 ST=2 TYP=8
	610	SVTO	48	C	1032.0	1103.0	42.0	120.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	1032.0	1040.0	43.0	110.0			QL=4 ST=2 TYP=8
	4995	SVTO	48	C	1032.0	1039.0	43.0	340.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	1032.0	1039.0	43.0	520.0			QL=4 ST=2 TYP=8
	15400	SVTO	48	C	1032.0	1039.0	42.0	290.0			QL=4 ST=2 TYP=8
	410	SVTO	48	C	1035.0	1059.0	41.0	72.0			QL=4 ST=2 TYP=8
	8800	SGMR	8	S	1036.0	1036.0	1.0	54.0			QL=4 ST=2 TYP=3
	900	GORK	46	C	1037.3	1047.1		570.0			
	900	GORK	46	C	1037.3	1043.6	48.9	380.0			
	600	GORK	46	C	1037.5	1106.6		110.0			
	600	GORK	46	C	1037.5	1059.6	45.0	145.0			
	1415	SGMR	48	C	1038.0	1039.0	9.0	160.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1038.0	1039.0	9.0	130.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1038.0	1039.0	8.0	330.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1038.0	1039.0	8.0	490.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	1038.0	1039.0	2.0	240.0			QL=4 ST=2 TYP=8
	1415	SVTO	48	C	1038.0	1039.0	33.0	160.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	1040.0	1041.0	7.0	100.0			QL=2 ST=2 TYP=8
	33	UPIC	41	F	1041.5	1043.0	198.5				
	9100	GORK	30	PBI	1048.0	1048.0	92.0	57.0			
	9100	GORK	1	S	1050.1	1052.0	2.7	7.3			
	204	IZMI	25	R	1056.0		64.0D		32.0		
	410	SGMR	48	C	1059.0	1059.0	1.0	71.0			QL=4 ST=2 TYP=8
	610	SGMR	46	C	1059.0	1059.0	U	42.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1059.0	1059.0	1.0	86.0			QL=4 ST=2 TYP=8
	9100	GORK	1	S	1059.1	1059.5	2.9	11.0			
	9100	GORK	1	S	1106.0	1106.6	6.0	5.5			
	2950	GORK	29	PBI	1118.0	1118.0	63.0D	28.0			
	9100	GORK	1	S	1155.4	1156.7	2.3	11.0			
	2800	PENT	20	GRF	1416.0	1518.0	136.0U	8.0			
	245	PALE	48	C	1753.0	1754.0	3.0	1300.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	1754.0	1754.0	1.0	1000.0			QL=4 ST=3 TYP=8
	410	SGMR	8	S	1754.0	1754.0	U	66.0			QL=4 ST=3 TYP=3
	2800	PENT	20	GRF	1825.0	1854.0	67.0U	14.0			
	4995	SGMR	4	S/F	1937.0	1938.0	4.0	60.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1937.0	1938.0	4.0	62.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1937.1	1938.7	2.9	34.0	17.0		
	4995	PALE	48	C	1938.0	1939.0	1.0	66.0			QL=4 ST=2 TYP=8
	8800	PALE	46	C	1938.0	1938.0	1.0	47.0			QL=4 ST=2 TYP=8
	9500	CUBA	21	GRF	2018.0	2107.0	95.0	19.0	9.0		
	9500	CUBA	1	S	2023.7	2024.8	2.7	9.0	4.0		
	2800	PENT	29	PBI	2029.0	2034.0	123.0U	24.0			
	9500	CUBA	2	S/F	2032.2	2033.7	3.6	47.0	23.0		
	4995	PALE	48	C	2033.0	2033.0	1.0	76.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	2033.0	2033.0	1.0	57.0			QL=4 ST=2 TYP=8
	15400	SGMR	46	C	2033.0	2033.0	U	32.0			QL=4 ST=2 TYP=8
	4995	SGMR	8	S	2033.0	2033.0	2.0	60.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2033.0	2033.0	1.0	59.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	2037.0	2045.0	8.0	76.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	2045.0	2045.0	1.0	25.0			0
	2800	PENT	20	GRF	2359.0	2440.0	103.0	12.0			
30	245	SVTO	43	NS	0405.0	0457.0U	1195.0	210.0			QL=2 ST=1 TYP=1
	245	SVTO	43	NS	0434.0	0811.0	775.0	300.0			QL=2 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		280.0		
	245	SGMR	43	NS	1058.0	1341.0	713.0	390.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1310.0E		410.0D		68.0		
	280	CUBA	44	NS	1310.0E		410.0D		58.0		
	245	PALE	43	NS	1643.0	2112.0	732.0	760.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2315.0	0159.0	630.0	190.0			QL=4 ST=2 TYP=1
	410	LEAR	8	S	0022.0	0022.0	U	53.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0107.0	0107.0	U	54.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0208.0	0208.0	U	51.0			QL=4 ST=2 TYP=3
	9100	GORK	1	S	0315.5U	0315.8	1.3D	15.0			

SOLAR RADIO EMISSION
Outstanding Occurrences

JULY 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
30	9100	GORK	1	S	0348.5	0350.0	2.5	7.4			
	2804	VORO	1	S	0349.0	0349.4	1.8	4.8			
	600	GORK	2	S/F	0349.1	0350.0	1.4	8.2			
	900	GORK	41	F	0349.2	0354.6		3.7			
	900	GORK	41	F	0349.2	0349.9	5.9	7.4			
	600	GORK	4	S/F	0353.9	0354.5	1.5	25.0			
	9100	GORK	1	S	0434.3	0434.8	1.0	9.3			
	9100	GORK	3	S	0526.0	0527.1	3.0	32.0			
	2950	GORK	1	S	0526.3	0527.2	1.5	7.0			
	410	LEAR	8	S	0640.0	0640.0	U	87.0			QL=4 ST=2 TYP=3
	2950	GORK	1	S	0653.3	0654.4	3.9	4.4			
	2950	GORK	1	S	0720.5	0721.0	1.4	4.4			
	9100	GORK	1	S	0721.5	0722.4	1.5	7.4			
	9100	GORK	41	F	0821.8	0822.5	6.8	7.4			
	9100	GORK	41	F	0821.8	0827.5		7.4			
	900	GORK	40	F	0926.3	0927.3	1.6	23.0			
	900	GORK	45	C	0929.6	0930.3		115.0U			
	900	GORK	45	C	0929.6	0929.8	1.1	17.0			
	900	GORK	40	F	1024.7	1025.3	4.9	1.2			
	9100	GORK	1	S	1025.0	1025.2	0.5	14.0			
	9500	CUBA	1	S	1415.0	1415.3	1.0	12.0	6.0		
	9500	CUBA	1	S	1424.8	1425.9	4.0	20.0	10.0		
	2800	PENT	20	GRF	1430.0	1533.0	122.0U	17.0			
	9500	CUBA	1	S	1459.8	1500.0	1.2	15.0	7.0		
	9500	CUBA	1	S	1511.8	1512.0	1.1	16.0	8.0		
	245	SGMR	49	GB	1721.0	1721.0	U	570.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	1721.0	1721.0	U	79.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1729.0	1737.0	123.0U	64.0			
	245	SGMR	8	S	1736.0	1737.0	1.0	460.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1736.3	1737.2	2.0	13.0	6.0		
	410	SGMR	8	S	1737.0	1737.0	U	180.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1737.0	1737.0	U	29.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1737.0	1737.0	U	37.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1737.0	1737.0	U	67.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1737.0	1737.0	U	31.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1825.0	1825.0	U	79.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	2320.0	2322.1	13.0	32.7			
	2804	VORO	3	S	2321.9	2322.2	3.3	27.2			
31	245	SVTO	43	NS	0456.0	0746.0U	245.0	180.0			QL=2 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		60.0		
	245	SGMR	43	NS	1148.0	1211.0	664.0	270.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1155.0	1155.0	5.0	68.0			QL=2 ST=2 TYP=1
	235	CUBA	44	NS	1335.0E		495.0D		17.0		
	280	CUBA	44	NS	1335.0E		495.0D		22.0		
	245	SVTO	43	NS	1418.0	1426.0U	49.0	120.0			QL=2 ST=2 TYP=1
	245	PALE	43	NS	1650.0	2005.0	285.0	320.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1653.0	0204.0	722.0	150.0			QL=4 ST=2 TYP=1
	245	SVTO	44	NS	1701.0E	1715.0	31.0D	160.0			QL=2 ST=2 TYP=1
	245	LEAR	43	NS	2334.0	0100.0	26.0	160.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	2334.0	0117.0	26.0	390.0			QL=4 ST=1 TYP=1
	2800	PENT	41	F	0003.0	0148.0	123.0	56.0			
	2840	PEKG	20	GRF	0029.0	0033.8	32.0	25.6			
	2804	VORO	46	C	0030.3	0033.9	11.3	21.8			
	2840	PEKG	3	S	0138.0	0148.8	42.0	68.1			
	2800	HIRA	1	S	0140.0	0149.0	12.0	55.0			
	500	HIRA	1	S	0146.0	0149.0	5.0	15.0			
	410	LEAR	8	S	0148.0	0148.0	U	50.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0148.0	0148.0	1.0	38.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0148.0	0148.0	1.0	52.0			QL=4 ST=2 TYP=3
	4995	PALE	48	C	0148.0	0149.0	1.0	87.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	0148.0	0150.0	2.0	50.0			QL=4 ST=2 TYP=8
	2695	PALE	46	C	0149.0	0149.0	U	41.0			QL=4 ST=2 TYP=8
	200	HIRA	8	S	0209.0	0210.0	3.0	80.0			
	900	GORK	7	C	0313.6	0314.0		13.0			
	900	GORK	7	C	0313.6	0313.7	0.5	5.1			
	600	GORK	40	F	0343.2	0344.0	1.6	9.0			
	410	LEAR	8	S	0439.0	0439.0	U	58.0			QL=4 ST=2 TYP=3
	9100	GORK	7	C	0444.5	0445.0	1.7	16.0			

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

JULY 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
31	9100	GORK	7	C	0444.5	0445.7		7.3			
	9100	GORK	7	C	0457.5	0500.0		13.0			
	9100	GORK	7	C	0457.5	0458.3	3.5	5.6			
	2950	GORK	1	S	0459.7	0500.0	0.6	5.6			
	900	GORK	40	F	0534.7	0535.3	2.2	6.4			
	600	GORK	7	C	0547.0	0547.5	2.1	8.0			
	600	GORK	7	C	0547.0	0548.7		8.0			
	900	GORK	1	S	0557.9	0558.3	0.8	5.1			
	600	GORK	7	C	0558.0	0558.0	0.6	11.0			
	600	GORK	7	C	0558.0	0559.2	1.2	9.0			
	2950	GORK	1	S	0608.7	0609.0	0.5	4.3			
	410	LEAR	48	C	0720.0	0723.0	3.0	70.0			QL=4 ST=2 TYP=8
	610	LEAR	48	C	0720.0	0720.0	1.0	87.0			QL=4 ST=2 TYP=8
	610	SVTO	8	S	0720.0E	0721.0	1.0D	74.0			QL=2 ST=3 TYP=3
	410	SVTO	4	S/F	0720.0	0723.0	4.0	64.0			QL=4 ST=2 TYP=3
	600	GORK	46	C	0720.4	0723.1		35.0			
	900	GORK	7	C	0720.4	0722.4	3.9	2.5			
	900	GORK	7	C	0720.4	0723.7		6.4			
	600	GORK	46	C	0720.4	0720.7	3.6	110.0			
	500	HIRA	42	SER	0721.0	0724.0	7.0	30.0			
	410	SVTO	8	S	0721.0E	0723.0	2.0D	73.0			QL=2 ST=3 TYP=3
	2840	PEKG	5	S	0731.0	0733.2	9.0	33.8			
	2950	GORK	7	C	0733.0	0733.2	0.8	38.0			
	3000	IZMI	7	C	0733.0	0733.2	0.4	39.0	17.9		
	2950	GORK	7	C	0733.0	0733.6		11.0			
	410	LEAR	8	S	0817.0	0817.0	U	100.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0849.0	0849.0	U	300.0			QL=4 ST=2 TYP=3
	900	GORK	40	F	0849.4	0850.3	1.6	5.1			
	500	HIRA	8	S	0850.0	0850.0	1.0	110.0			
	600	GORK	41	F	0850.0	0850.1	3.4	22.0			
	600	GORK	41	F	0850.0	0853.2		5.0			
	410	LEAR	8	S	0917.0	0917.0	U	2000.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	0917.0	0917.0	U	2200.0			QL=4 ST=2 TYP=6
	900	GORK	2	S/F	0942.3	0942.7	0.5	11.0			
	900	GORK	7	C	0949.2	0956.0		13.0			
	900	GORK	7	C	0949.2	0952.5	19.3	17.0			
	9100	GORK	4	S/F	0952.1	0956.0	15.9	110.0			
	2950	GORK	45	C	0952.4	0953.1	9.5	11.0			
	2950	GORK	45	C	0952.4	0955.8		44.0			
	3000	IZMI	45	C	0952.8	0955.9	8.0	45.0	11.5		
	4995	SVTO	4	S/F	0953.0	0955.0	6.0	85.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0953.0	0955.0	7.0	110.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0953.0	0955.0	7.0	69.0			QL=4 ST=2 TYP=3
	600	GORK	41	F	0956.0	1001.0		5.0			
	600	GORK	41	F	0956.0	0956.2	5.3	4.0			
	9100	GORK	1	S	1009.0	1009.5	1.2	23.0			
	245	SVTO	8	S	1133.0E	1133.0U	1.0D	62.0			QL=2 ST=2 TYP=3
	2695	SGMR	8	S	1224.0	1224.0	1.0	72.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1224.0	1224.0	1.0	51.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1224.0	1224.0	U	38.0			QL=4 ST=2 TYP=3
	2800	PENT	20	GRF	1357.0	1513.0	136.0	15.0			
	245	SVTO	8	S	1621.0E	1621.0	U	89.0			QL=2 ST=3 TYP=3
	9500	CUBA	2	S/F	1628.8	1629.4	3.5	11.0	5.0		
	245	SVTO	8	S	1649.0E	1649.0	1.0D	82.0			QL=2 ST=2 TYP=3
	9500	CUBA	1	S	1940.1	1940.5	1.1	6.0	3.0		
	500	HIRA	8	S	2104.0	2104.0	1.0	15.0			0
	200	HIRA	8	S	2104.0	2104.0	1.0	110.0			0
	245	SGMR	49	GB	2104.0	2104.0	U	670.0			QL=2 ST=2 TYP=6
	410	SGMR	8	S	2104.0	2104.0	U	35.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	2104.0	2104.0	U	59.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	2105.0	2116.0	52.0	10.0			
	500	HIRA	8	S	2117.0	2117.0	1.0	65.0			0
	410	SGMR	8	S	2117.0	2117.0	U	65.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2137.0	2137.0	1.0	10.0			0
	2800	PENT	40	F	2331.0	2432.0	92.0	136.0			
	2804	VORO	41	F	2341.5	2355.0	14.5	27.5			
	2804	VORO	42	SER	2341.5	2343.8	6.6	66.5			
	2800	HIRA	4	S/F	2342.0	2344.0	5.0	70.0			
	500	HIRA	7	C	2342.0	2344.0	3.0	35.0			0

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

JULY 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
31	2695	LEAR	4	S/F	2342.0	2344.0	3.0	67.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	2342.0	2344.0	3.0	43.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2343.0	2343.0	1.0	60.0			0
	245	LEAR	49	GB	2343.0	2343.0	1.0	520.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	2343.0	2343.0	1.0	170.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	2343.0	2343.0	1.0	42.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	2343.0	2344.0	2.0	31.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2343.0	2343.0	1.0	620.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2343.0	2344.0	1.0	140.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2343.0	2345.0	2.0	61.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	2344.0	2345.0	1.0	35.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	2345.0	2345.0	U	24.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2353.0	2354.0	1.0	110.0			QL=4 ST=2 TYP=3
	2800	HIRA	1	S	2354.0	2355.0	3.0	30.0			
	2695	LEAR	8	S	2354.0	2355.0	1.0	42.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	2354.0	2355.0	1.0	35.0			QL=4 ST=2 TYP=3

Reports are received routinely from the following observatories:

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

Explanation of Type Code:

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

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

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