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

JULY 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
01	235	CUBA		NS	1430.0E		390.0D		8.0		
	280	CUBA		NS	1430.0E		390.0D		14.0		
02	127	TORN	44	NS	0930.0E		200.0D		50.0		V=1
	235	CUBA		NS	1300.0E		420.0D		5.0		
	280	CUBA		NS	1300.0E		480.0D		14.0		
	2840	PEKG	1	S	0410.0	0412.1	4.0		3.9		
03	235	CUBA		NS	1330.0E		250.0D		4.0		
	280	CUBA		NS	1330.0E		250.0D		13.0		
	245	SVTO	8	S	0828.0	0828.0	1.0	160.0			QL=4 ST=2 TYP=3
04	127	TORN	44	NS	0820.0E		510.0D		6.0		V=0
	235	CUBA		NS	1325.0E		505.0D		6.0		
	280	CUBA		NS	1325.0E		505.0D		13.0		
05	280	CUBA		NS	1340.0E		130.0D		14.0		
	235	CUBA		NS	1340.0E		140.0D		6.0		
06	127	TORN	44	NS	0630.0E		510.0D		6.0		V=0,ATM STORM
	235	CUBA		NS	1315.0E		345.0D		6.0		
	280	CUBA		NS	1315.0E		345.0D		12.0		
07	127	TORN	44	NS	0630.0E		510.0D		6.0		V=0
	235	CUBA		NS	1305.0E		525.0D		6.0		
	280	CUBA		NS	1305.0E		525.0D		13.0		
	2840	PEKG	3	S	0323.0	0328.1	10.0	30.6			
	500	HIRA	4	S/F	0324.0	0327.0	8.0	15.0			0
	2800	HIRA	1	S	0325.0	0328.0	5.0	20.0			0
	200	HIRA	8	S	0326.0	0327.0	2.0	15.0			0
	245	LEAR	8	S	0326.0	0328.0	2.0	54.0			QL=2 ST=2 TYP=3
	2804	VORO	46	C	0326.0	0328.2	4.6	13.8			
	4995	LEAR	8	S	0327.0	0328.0	1.0	26.0			QL=2 ST=2 TYP=3
	200	HIRA	8	S	0751.0	0751.0	1.0	30.0			0
	245	LEAR	8	S	0751.0	0751.0	U	150.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0751.0	0751.0	U	130.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0751.2	0751.4	0.4	72.0			
	200	HIRA	8	S	2240.0	2240.0	1.0	20.0			0
08	127	TORN	43	NS	0820.0		300.0U		7.0		V=0?,ATM. STROM
	235	CUBA		NS	1320.0E		340.0D		5.0		
	280	CUBA		NS	1320.0E		340.0D		13.0		
	500	HIRA	8	S	0122.0	0122.0	1.0	15.0			0
	204	IZMI	42	SER	1138.4	1138.6	1.5	256.0			
	245	SGMR	8	S	1139.0	1139.0	U	140.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1139.0	1139.0	U	110.0			QL=4 ST=2 TYP=3
	127	TORN	47	GB	1139.0	1139.9	1.1	1100.0	400.0		
	204	IZMI	41	F	1140.1	1140.5	0.6	73.0			
	6700	CUBA	21	GRF	1601.0	1620.0	46.0	10.0	5.0		2L
	2800	PENT	29	PBI	1602.0	1618.0	30.0U	10.0			
	6700	CUBA	2	S/F	1617.0	1618.8	3.0	8.0	4.0		4L
09	235	CUBA		NS	1330.0E		330.0D		6.0		
	280	CUBA		NS	1330.0E		330.0D		14.0		
	200	HIRA	8	S	0430.0	0430.0	1.0	5.0			0
	2840	PEKG	1	S	0736.0	0737.4	3.0	3.6			
	9100	GORK	3	S	0736.9	0737.2	1.7	37.0			
	2950	GORK	1	S	0736.9	0737.4	1.1	3.7			
	3000	IZMI	7	C	0736.9	0737.4	1.3	10.0	6.0		
	9500	CUBA	1	S	1208.0	1213.5	5.5	15.0	7.0		
	6700	CUBA	1	S	1247.8	1248.9	3.4	24.0	12.0		8L
10	235	CUBA		NS	1315.0E		465.0D		6.0		
	280	CUBA		NS	1315.0E		465.0D		14.0		
	200	HIRA	8	S	0121.0	0122.0	2.0	305.0			0
	3000	IZMI	20	GRF	0707.9	0708.4	1.8	8.0	4.0		
	500	HIRA	8	S	0708.0	0709.0	1.0	25.0			0
	200	HIRA	42	SER	2036.0	2036.0	4.0	40.0			0
	200	HIRA	8	S	2148.0	2148.0	2.0	20.0			WL

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

JULY 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
10	200	HIRA	8	S	2225.0	2225.0	1.0	10.0			0
11	235	CUBA		NS	1315.0E		515.0D		5.0		
	280	CUBA		NS	1315.0E		515.0D		13.0		
	245	LEAR	8	S	0200.0	0201.0	2.0	52.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0628.7	0628.8	0.8	8.0			
12	235	CUBA		NS	1345.0E		440.0D		5.0		
	280	CUBA		NS	1345.0E		460.0D		9.0		
	2840	PEKG	1	S	0408.0	0409.8	3.0	14.0			
	2804	VORO	1	S	0409.3	0409.8	1.2	4.6			
13	204	IZMI	43	NS	0500.0		420.0D		15.0		
	235	CUBA		NS	1400.0E		240.0D		7.0		
	280	CUBA		NS	1400.0E		240.0D		16.0		
	9100	GORK	1	S	0503.6	0504.0	0.8	11.0			
	2950	GORK	1	S	0503.8	0504.0	0.6	4.3			
	2840	PEKG	1	S	0626.0	0629.3	4.0	3.8			
	204	IZMI	42	SER	0853.5	0854.1	1.4	34.0			
	204	IZMI	41	F	1030.0	1030.2	0.3	72.0			
14	235	CUBA		NS	1315.0E		325.0D		5.0		
	280	CUBA		NS	1315.0E		325.0D		13.0		
	33	UPIC	45	C	1636.5	1637.0	1.5				
	2800	PENT	1	S	1749.0	1752.0	7.0	3.0			
	2800	PENT	4	S/F	2124.0	2132.0	16.0	47.0			
	2800	HIRA	4	S/F	2128.0	2133.0	8.0	50.0			0
	500	HIRA	8	S	2129.0	2132.0	7.0	260.0			0
	4995	SGMR	4	S/F	2130.0	2132.0	3.0	98.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2131.0	2131.0	2.0	180.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2131.0	2132.0	2.0	240.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	2131.0	2131.0	1.0	160.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2132.0	2133.0	1.0	280.0			QL=4 ST=2 TYP=3
15	235	CUBA		NS	1300.0E		300.0D		5.0		
	280	CUBA		NS	1300.0E		300.0D		13.0		
	2800	PENT	41	F	0014.0	0046.0	41.0	11.0			
	2840	PEKG	5	S	0015.0	0021.1	16.0	12.4			
	2804	VORO	40	F	0019.4	0021.1	10.7	8.5			
	200	HIRA	42	SER	0048.0	0048.0	2.0	140.0			0
	204	IZMI	42	SER	0547.6	0547.8	1.0	37.0			
	2950	GORK	21	GRF	0641.8	0645.4	17.7	11.0			
	3000	IZMI	45	C	0644.6	0651.7	14.8	90.0	20.0		
	600	GORK	46	C	0645.6	0651.6		180.0U			
	600	GORK	46	C	0645.6	0650.6U	10.1	180.0U			
	2840	PEKG	3	S	0647.0	0651.8	14.0	62.5			
	2800	HIRA	7	C	0649.0	0652.0	11.0	60.0			0
	500	HIRA	7	C	0649.0	0652.0	11.0	215.0			0
	2950	GORK	4	S/F	0649.0	0651.7	5.0	57.0			
	900	GORK	46	C	0649.3	0650.4	4.4	40.0			
	900	GORK	46	C	0649.3	0651.5		16.0			
	9100	GORK	4	S/F	0649.8	0651.6	4.0	70.0			
	410	LEAR	49	GB	0650.0	0651.0	7.0	520.0			QL=2 ST=2 TYP=6
	610	LEAR	8	S	0650.0	0650.0	2.0	100.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0650.0	0651.0	2.0	71.0			QL=2 ST=2 TYP=3
	4995	LEAR	4	S/F	0650.0	0651.0	3.0	110.0			QL=2 ST=2 TYP=3
	15400	SVTO	48	C	0650.0	0651.0	3.0	56.0			QL=4 ST=2 TYP=8
	610	SVTO	8	S	0650.0	0650.0	2.0	100.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0650.0	0651.0	2.0	62.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	0650.0	0651.0	7.0	400.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0650.0	0651.0	3.0	140.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0650.0	0651.0	3.0	98.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0651.0	0651.0	1.0	60.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0651.0	0651.0	U	39.0			QL=2 ST=2 TYP=3
	245	LEAR	4	S/F	0652.0	0655.0	6.0	210.0			QL=2 ST=2 TYP=3
	245	SVTO	4	S/F	0652.0	0657.0	6.0	190.0			QL=4 ST=2 TYP=3
	200	HIRA	7	C	0653.0	0657.0	7.0	40.0			0
	204	IZMI	7	C	0653.7	0655.6	3.5U	29.0			
	2800	PENT	27	RF	1348.0	1415.0	100.0	16.0			

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

JULY 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
15	245	SGMR	8	S	1626.0	1626.0	1.0	67.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1626.0	1626.0	1.0	53.0			QL=4 ST=2 TYP=3
16	235	CUBA		NS	1400.0E		240.0D		7.0		
	280	CUBA		NS	1400.0E		240.0D		16.0		
	200	HIRA	8	S	0126.0	0127.0	1.0	15.0			0
	245	LEAR	8	S	0126.0	0126.0	U	200.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0126.0	0126.0	1.0	240.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0127.0	0127.0	1.0	5.0			0
	2840	PEKG	3	S	0314.0	0317.7	10.0	33.1			
	2800	HIRA	3	S	0316.0	0318.0	7.0	55.0			0
	500	HIRA	8	S	0316.0	0317.0	1.0	15.0			WL
	4995	LEAR	4	S/F	0316.0	0317.0	3.0	80.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	0316.0	0317.0	3.0	88.0			QL=2 ST=2 TYP=3
	2804	VORO	4	S/F	0316.1	0317.6	3.8	45.6			
	1415	LEAR	8	S	0317.0	0317.0	1.0	37.0			QL=2 ST=2 TYP=3
	2695	LEAR	8	S	0317.0	0317.0	1.0	47.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0317.0	0317.0	2.0	68.0			QL=2 ST=2 TYP=3
	2695	PALE	8	S	0317.0	0317.0	1.0	47.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0317.0	0317.0	2.0	73.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0317.0	0317.0	1.0	78.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0457.7	0457.9	0.3	34.0			
	200	HIRA	8	S	0550.0	0550.0	1.0	200.0			0
	245	LEAR	8	S	0550.0	0550.0	U	170.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0550.0	0550.0	U	140.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	0550.2	0550.3	0.5	289.0			
	200	HIRA	8	S	0756.0	0756.0	1.0	50.0			0
	204	IZMI	7	C	0756.1	0756.2	0.4	117.0			
	204	IZMI	7	C	0841.7	0841.7	0.1	21.0			
	204	IZMI	41	F	1114.1	1114.3	0.6	69.0			
	204	IZMI	42	SER	1152.1	1152.3	0.5	36.0			
	245	SGMR	48	C	1237.0	1237.0	U	55.0			QL=4 ST=2 TYP=8
	245	SGMR	8	S	1612.0	1612.0	U	67.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1612.0	1612.0	1.0	79.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1920.0	1920.0	U	55.0			QL=4 ST=2 TYP=3
	2800	PENT	20	GRF	2144.0	2154.0	23.0	3.0			
17	235	CUBA		NS	1320.0E		205.0D		6.0		
	280	CUBA		NS	1320.0E		205.0D		14.0		
	204	IZMI	42	SER	0551.2	0554.2	3.3	29.0			
	245	LEAR	8	S	0554.0	0554.0	U	90.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0554.0	0554.0	U	93.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0630.3	0630.6	6.8	29.0			
	900	GORK	42	SER	0641.2	0730.3	91.0	9.0			
	900	GORK	42	SER	0641.2	0743.8		50.0			
	2840	PEKG	1	S	0726.0	0728.5	5.0	8.3			
	2950	GORK	1	S	0728.2	0728.6	0.8	8.0			
	3000	IZMI	7	C	0728.4	0728.5	0.8	12.0	4.0		
	900	GORK	42	SER	1014.6	1026.0		7.9			
	900	GORK	42	SER	1014.6	1014.8	15.0	9.0			
	2840	PEKG	1	S	1019.0	1020.6	5.0	8.4			
	2950	GORK	1	S	1020.0	1020.6	0.7	9.0			
	9100	GORK	20	GRF	1020.1	1021.0	24.9D	10.0			
	3000	IZMI	20	GRF	1020.2	1020.8	1.2	13.0	6.0		
	600	GORK	2	S/F	1028.6	1028.8	2.0	9.0			
	600	GORK	2	S/F	1028.6	1028.9		7.5			
	2840	PEKG	5	S	2308.0	2310.2	7.0	11.3			
	2804	VORO	2	S/F	2309.8	2310.4	1.8	7.7			
18	235	CUBA		NS	1325.0E		455.0D		6.0		
	280	CUBA		NS	1325.0E		455.0D		13.0		
	900	GORK	42	SER	0615.0	1005.0		41.0			
	900	GORK	42	SER	0615.0	0811.6		24.0			
	900	GORK	42	SER	0615.0	0620.6	261.7	24.0			
	33	UPIC	4	S/F	1752.5	1753.0	1.5				INCERTN
	6700	CUBA	1	S	2056.8	2057.4	1.2	5.0	2.0		2L
19	127	TORN	43	NS	0730.0		300.0		6.0		V=1
	235	CUBA		NS	1330.0E		435.0D		8.0		

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

JULY 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
19	280	CUBA		NS	1330.0E		435.0D		14.0		
	245	LEAR	8	S	0322.0	0323.0	1.0	430.0			QL=2 ST=2 TYP=3
	245	PALE	49	GB	0323.0	0323.0	U	510.0			QL=4 ST=2 TYP=6
	245	LEAR	8	S	0539.0	0540.0	1.0	68.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0539.0	0540.0	1.0	60.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0539.1	0539.8	1.7	65.0			
	204	IZMI	46	C	0754.4	0755.5	3.2	159.0			
	245	LEAR	8	S	0755.0	0755.0	1.0	140.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0755.0	0755.0	1.0	130.0			QL=4 ST=2 TYP=3
	127	TORN	4	S/F	0755.0	0755.9	2.8	440.0	80.0		
	2840	PEKG	45	C	0952.0	1031.7	60.0	352.5			
	600	GORK	48	C	0952.4	1001.3	62.1	3100.0			
	600	GORK	48	C	0952.4	1034.4		15000.0			
	600	GORK	48	C	0952.4	1037.5		12500.0			
	610	SVTO	49	GB	0954.0	1001.0	10.0	1600.0			QL=4 ST=2 TYP=6
	900	GORK	48	C	0954.1	1031.4		17500.0			
	900	GORK	48	C	0954.1	1000.4	51.4	1000.0			
	900	GORK	48	C	0954.1	1033.5		1430.0			
	9100	GORK	21	GRF	0954.4	1006.5	65.6D	29.0			
	2950	GORK	46	C	0954.6	1021.4		195.0			
	2950	GORK	46	C	0954.6	1035.5		225.0			
	2950	GORK	46	C	0954.6	0958.7	62.4	170.0			
	2950	GORK	46	C	0954.6	1031.9		225.0			
	3000	IZMI	45	C	0954.9	0958.6	9.8	139.0	50.0		
	2695	SVTO	4	S/F	0955.0	0958.0	7.0	150.0			QL=4 ST=2 TYP=3
	1415	SVTO	48	C	0955.0	1004.0	11.0	240.0			QL=4 ST=2 TYP=8
	4995	SVTO	4	S/F	0955.0	0957.0	13.0	290.0			QL=4 ST=2 TYP=3
	9100	GORK	4	S/F	0955.6	0957.9	5.6	110.0			
	8800	SVTO	4	S/F	0956.0	0957.0	4.0	130.0			QL=4 ST=2 TYP=3
	410	SVTO	48	C	0957.0	1002.0	7.0	130.0			QL=4 ST=2 TYP=8
	15400	SVTO	8	S	0957.0	0957.0	2.0	76.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0957.0	0958.0	3.0	200.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	0957.7	0958.5	4.0	3844.0			
	610	SGMR	4	S/F	1000.0	1001.0U	8.0	550.0			QL=2 ST=2 TYP=3
	33	UPIC	32	ABS	1000.5	1007.0	33.5				
	410	SGMR	48	C	1001.0	1001.0U	7.0	75.0			QL=2 ST=2 TYP=8
	245	SGMR	46	C	1002.0	1004.0U	6.0	11.0			QL=2 ST=2 TYP=8
	2695	SGMR	46	C	1002.0	1004.0U	6.0	46.0			QL=2 ST=2 TYP=8
	1415	SGMR	4	S/F	1002.0	1004.0U	7.0	190.0			QL=2 ST=2 TYP=3
	127	TORN	49	GB	1004.5	1004.7	12.2	970.0	60.0		
	3000	IZMI	46	C	1011.5	1031.9	42.4	234.0	56.0		
	15400	SVTO	46	C	1012.0	1016.0	11.0	40.0			QL=4 ST=2 TYP=8
	8800	SVTO	20	GRF	1012.0	1018.0	14.0	65.0			QL=4 ST=2 TYP=2
	1415	SVTO	48	C	1012.0	1034.0	29.0	7000.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	1012.0	1032.0	28.0	380.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1012.0	1032.0	34.0	370.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1012.0	1018.0	34.0	100.0			QL=4 ST=2 TYP=8
	4995	SVTO	20	GRF	1012.0	1018.0	34.0	160.0			QL=4 ST=2 TYP=2
	33	UPIC	46	C	1012.0	1019.5	13.0				
	9100	GORK	45	C	1012.6	1018.2		33.0			
	9100	GORK	45	C	1012.6	1015.5	12.8	29.0			
	1415	SGMR	48	C	1013.0	1034.0	32.0	7100.0			QL=4 ST=2 TYP=8
	610	SVTO	48	C	1014.0	1034.0	29.0	9300.0			QL=4 ST=2 TYP=8
	610	SGMR	48	C	1017.0	1034.0	27.0	8600.0			QL=4 ST=2 TYP=8
	8800	SGMR	46	C	1018.0	1022.0	28.0	29.0			QL=4 ST=2 TYP=8
	410	SGMR	49	GB	1021.0	1034.0	24.0	740.0			QL=4 ST=2 TYP=6
	410	SVTO	48	C	1021.0	1034.0	22.0	700.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	1022.0	1022.0	U	34.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1022.9	1032.9	21.5	9.0			
	245	SGMR	46	C	1030.0	1033.0	15.0	49.0			QL=4 ST=2 TYP=8
	33	UPIC	45	C	1225.0	1226.5	5.0				
	245	SVTO	8	S	1229.0	1230.0	1.0	64.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1230.0	1230.0	U	74.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1300.0	1300.0	U	60.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	1300.0	1300.0	U	65.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1432.0	1435.0	6.0	6.0			
	2800	PENT	24	R	1538.0	1613.0	54.0U	10.0			
	2800	PENT	29	PBI	1849.0	1858.0	30.0	6.0			

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

JULY 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
20	204	IZMI	43	NS	0835.0		118.0U		10.0		
	235	CUBA		NS	1325.0E		335.0D		5.0		
	280	CUBA		NS	1325.0E		335.0D		13.0		
	204	IZMI	42	SER	0452.5	0452.6	0.3	70.0			
	2840	PEKG	20	GRF	1039.0	1104.1	28.0	13.4			
	2800	PENT	20	GRF	2333.0	2344.0	26.0	4.0			
21	235	CUBA		NS	1310.0E		470.0D		6.0		
	280	CUBA		NS	1310.0E		470.0D		11.0		
	3000	IZMI	22	GRF	0506.2	0518.2	53.2	10.0	4.0		
	3000	IZMI	1	S	0610.2	0610.2	0.1	26.0	8.0		
22	235	CUBA		NS	1340.0E		440.0D		7.0		
	280	CUBA		NS	1340.0E		440.0D		13.0		
	204	IZMI	42	SER	0851.8	0855.6	4.1	8.0			
	204	IZMI	42	SER	1149.6	1150.8	1.6	12.0			
	2800	PENT	1	S	1500.0	1503.0	7.0	4.0			
23	127	TORN	43	NS	0915.0		285.0		6.0		V=1
	235	CUBA		NS	1305.0E		475.0D		6.0		
	280	CUBA		NS	1305.0E		475.0D		11.0		
	410	LEAR	8	S	0507.0	0507.0	U	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0621.0	0621.0	U	64.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0621.0	0622.0	1.0	250.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0621.0	0621.0	1.0	66.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0621.0	0622.0	2.0	310.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0621.3	0621.5	0.8	132.0			
	500	HIRA	8	S	0622.0	0623.0	3.0	315.0			
	204	IZMI	7	C	0623.3	0623.4	0.3	34.0			
	245	SGMR	49	GB	1423.0	1423.0	1.0	650.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	1423.0	1423.0	U	190.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1423.0	1423.0	1.0	640.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	1423.0	1423.0	1.0	210.0			QL=4 ST=2 TYP=3
24	204	IZMI	43	NS	0450.0		31.0		45.0		
	235	CUBA		NS	1300.0E		480.0D		6.0		
	280	CUBA		NS	1300.0E		530.0D		14.0		
	245	LEAR	4	S/F	0435.0	0438.0	3.0	85.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0441.0	0441.0	1.0	58.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0504.0	0506.6	4.0	6.3			
	3000	IZMI	20	GRF	0506.1	0506.4	1.0	10.0	6.0		
	204	IZMI	42	SER	0609.6	0614.2	8.2	29.0			
	2950	GORK	2	S/F	0905.7	0906.5	2.5	9.8			
	245	PALE	8	S	1938.0	1938.0	U	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2332.0	2333.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2332.0	2332.0	1.0	130.0			QL=4 ST=2 TYP=3
25	204	IZMI	43	NS	0702.0		88.0		15.0		
	127	TORN	43	NS	0842.0		378.0U		4.0		V=1?,ATM.STROM
	204	IZMI	43	NS	1117.0		43.0D		15.0		
	245	SGMR	43	NS	1207.0	1317.0	598.0	210.0			QL=4 ST=2 TYP=1
	235	CUBA		NS	1320.0E		302.0D		11.0		
	280	CUBA		NS	1320.0E		302.0D		24.0		
	245	LEAR	8	S	0402.0	0403.0	2.0	66.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0403.0	0403.0	1.0	78.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0927.0	0927.0	U	80.0			QL=4 ST=2 TYP=3
	127	TORN	4	S/F	0927.0	0927.9	1.5	30.0	10.0		
	204	IZMI	41	F	0927.6	0927.9	0.6	64.0			
	8800	SVTO	49	GB	0942.0	0942.0	U	6500.0			QL=4 ST=2 TYP=6
	245	SVTO	8	S	1233.0	1233.0	1.0	61.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1317.0	1317.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1525.0	1527.0	2.0	76.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1600.0	1600.0	U	66.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1608.0	1610.0	2.0	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1614.0	1614.0	1.0	60.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1645.0	1645.0	1.0	55.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1721.0	1722.0	4.0	59.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1723.0	1724.0	3.0	70.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2123.0	2124.0	1.0	53.0			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 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
26	204	IZMI	43	NS	1024.0		61.0		25.0		
	245	SGMR	43	NS	1102.0	1102.0	73.0	61.0			QL=4 ST=2 TYP=1
	235	CUBA		NS	1310.0E		470.0D		7.0		
	280	CUBA		NS	1310.0E		470.0D		16.0		
	204	IZMI	41	F	1007.5	1007.8	0.5	11.0			
	204	IZMI	7	C	1018.1	1018.2	0.1	16.0			
	2840	PEKG	5	S	1027.0	1029.5	6.0	14.7			
	127	TORN	46	C	1356.2	1357.5	1.6	6400.0	2300.0		UN CTN,ATM.STOR
	245	PALE	4	S/F	1638.0	1641.0	7.0	65.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1638.0	1639.0	3.0	90.0			QL=4 ST=2 TYP=8
	245	PALE	4	S/F	1652.0	1652.0	4.0	82.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1652.0	1652.0	U	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1652.0	1652.0	U	89.0			QL=4 ST=2 TYP=3
27	204	IZMI	43	NS	0506.0		21.0		35.0		
	127	TORN	43	NS	0813.0		467.0		7.0		V=0
	235	CUBA		NS	1305.0E		475.0D		7.0		
	280	CUBA		NS	1305.0E		475.0D		15.0		
28	204	IZMI	43	NS	0500.0		420.0D		15.0		
	127	TORN	44	NS	0630.0E		300.0D		10.0		V=1
	235	CUBA		NS	1305.0E		355.0D		6.0		
	280	CUBA		NS	1305.0E		355.0D		14.0		
	127	TORN	7	C	0820.2	0820.4	0.7	120.0	40.0		
	127	TORN	42	SER	0829.1	0830.1	6.0	150.0	50.0		
	33	UPIC	46	C	1103.5	1104.0	1.5				
	204	IZMI	41	F	1113.2	1113.4	0.3	36.0			
	33	UPIC	42	SER	1359.0	1447.0	49.0				
	2800	PENT	1	S	1443.0	1446.0	7.0	4.0			
	245	SVTO	4	S/F	1445.0	1446.0	3.0	76.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1446.0	1446.0	U	61.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	2152.0	2153.0	1.0	430.0			0
29	127	TORN	44	NS	0900.0E		240.0D		8.0		V=1,DISTURBED
	235	CUBA		NS	1300.0E		480.0D		6.0		
	280	CUBA		NS	1300.0E		480.0D		13.0		
	2840	PEKG	1	S	0831.0	0833.8	6.0	4.4			
	410	SVTO	8	S	0833.0	0833.0	1.0	75.0			QL=4 ST=2 TYP=3
	3000	IZMI	20	GRF	0833.7	0833.9	1.0	3.0	2.0		
	410	LEAR	20	GRF	0843.0	0851.0	13.0	71.0			QL=4 ST=2 TYP=2
	410	SVTO	20	GRF	0843.0	0851.0	15.0	100.0			QL=4 ST=2 TYP=2
	500	HIRA	7	C	0844.0	0845.0	12.0	55.0			0
30	127	TORN	44	NS	1030.0E		120.0D		7.0		V=0
	235	CUBA		NS	1305.0E		525.0D		5.0		
	280	CUBA		NS	2040.0E		70.0D		13.0		
	204	IZMI	41	F	0623.4	0623.9	1.0	24.0			
	204	IZMI	7	C	0641.8	0641.9	0.2	22.0			
	2950	GORK	41	F	0822.5	0822.6	0.8	5.3			
	900	GORK	28	PRE	0823.8	0827.0	5.4	3.4			
	4995	LEAR	4	S/F	0829.0	0831.0	3.0	78.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0829.0	0830.0	3.0	100.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0829.0	0831.0	3.0	88.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0829.0	0830.0	4.0	130.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0829.0	0830.0	4.0	83.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0829.0	0831.1	8.0	29.7			
	900	GORK	4	S/F	0829.1	0830.2	4.5	15.0			
	9100	GORK	4	S/F	0829.2	0830.8	6.0	115.0			
	2950	GORK	4	S/F	0829.3	0831.0	5.6	16.0			
	3000	IZMI	22	GRF	0829.6	0830.9	4.2	23.0	6.0		
	410	LEAR	8	S	0830.0	0830.0	1.0	30.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0830.0	0831.0	1.0	22.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0830.0	0831.0	2.0	64.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0830.0	0830.0	1.0	33.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0836.9	0841.8	9.2	21.0			
	2800	PENT	29	PBI	2035.0	2040.0	45.0	43.0			
	6700	CUBA	4	S/F	2039.6	2041.5	6.0	232.0	116.0		50L
	2800	HIRA	3	S	2040.0	2041.0	5.0	45.0			0
	500	HIRA	8	S	2040.0	2041.0	3.0	55.0			0

S O L A R R A D I O E M I S S I O N
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JULY 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
30	410	PALE	8	S	2040.0	2041.0	2.0	68.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2040.0	2041.0	2.0	110.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2040.0	2041.0	2.0	83.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	2040.0	2041.0	5.0	340.0			QL=4 ST=2 TYP=3
	2695	SGMR	46	C	2040.0	2040.0	3.0	35.0			QL=4 ST=2 TYP=8
	245	SGMR	4	S/F	2040.0	2041.0	3.0	260.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	2040.0	2041.0	3.0	61.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	2040.0	2041.0	3.0	100.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	2040.0	2040.0	3.0	35.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	2040.0	2041.0	3.0	140.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2040.0	2041.0	3.0	290.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	2040.0	2041.0	3.0	260.0			QL=4 ST=2 TYP=3
	9500	CUBA	4	S/F	2040.0	2041.3	4.0	212.0	106.0		
	280	CUBA		C	2040.1	2041.2	7.2	116.0			
	235	CUBA		C	2040.1	2046.3	7.2	461.0			
	8800	PALE	8	S	2041.0	2041.0	U	75.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2041.0	2041.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	2044.0	2045.0	2.0	520.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	2045.0	2045.0	3.0	610.0			QL=4 ST=2 TYP=6
31	127	TORN	44	NS	0630.0E		510.0D		50.0		V=0
	235	CUBA		NS	1400.0E		360.0D		6.0		
	280	CUBA		NS	1400.0E		360.0D		14.0		
	2840	PEKG	45	C	0358.0	0402.7	9.0	13.1			
	245	PALE	48	C	0400.0	0401.0	3.0	620.0			QL=4 ST=2 TYP=8
	2804	VORO	28	PRE	0400.3	0401.2	1.5	4.8			
	2804	VORO	2	S/F	0401.9	0402.7	1.9	13.2			
	6700	CUBA	20	GRF	1714.0	1719.0	192.0	8.0	4.0		OOL
	245	SGMR	8	S	2038.0	2038.0	1.0	430.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2039.0	2039.0	U	610.0			QL=4 ST=2 TYP=6

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.