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

OCTOBER 1999

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	33	UPIC	41	F	0542.0	0657.5	141.0				
	33	UPIC	42	SER	0807.0	0812.5	147.2				
	3000	IZMI	1	S	0809.6	0812.8	8.0U	9.0			
	245	LEAR	8	S	0811.0	0812.0	2.0	98.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0811.0	0812.0	1.0	79.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0811.7	0812.2	1.4	156.0			
	600	GORK	45	C	0812.0	0812.2	0.7	6.0			
	900	GORK	4	S/F	0812.0	0812.3	1.6	2.0			
	2950	GORK	1	S	0812.2	0812.7	1.1	2.1			
	204	IZMI	42	SER	0814.8	0820.2	6.1	9.0			
	204	IZMI	42	SER	0950.9	0951.9	1.1	261.0			
	410	LEAR	8	S	0951.0	0951.0	1.0	68.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0951.0	0951.0	1.0	32.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0951.0	0951.0	1.0	200.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0951.0	0951.0	1.0	120.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0951.0	0951.0	1.0	25.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0951.0	0951.0	1.0	75.0			QL=4 ST=2 TYP=3
	600	GORK	8	S	0951.8	0951.9	0.3	63.0			
	900	GORK	2	S/F	0951.8	0951.9	0.3	8.0			
	8800	SGMR	8	S	1450.0	1451.0	1.0	210.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1452.0	1452.0	U	42.0			QL=4 ST=3 TYP=3
	2800	PENT	1	S	1457.0	1459.0	3.0	16.0			
	1415	SGMR	8	S	1458.0	1459.0	1.0	150.0			QL=4 ST=3 TYP=3
	410	SGMR	8	S	1458.0	1459.0	1.0	250.0			QL=4 ST=3 TYP=3
	610	SGMR	49	GB	1458.0	1459.0	1.0	1300.0			QL=4 ST=3 TYP=6
	1415	SVTO	8	S	1458.0	1459.0	1.0	160.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1458.0	1459.0	1.0	250.0			QL=4 ST=2 TYP=3
	610	SVTO	49	GB	1458.0	1459.0	1.0	970.0			QL=4 ST=2 TYP=6
02	33	UPIC	42	SER	0555.0	0804.5	130.0				
	204	IZMI	42	SER	0621.7	0623.7	2.7	120.0			
	1415	LEAR	8	S	0623.0	0623.0	1.0	26.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0623.0	0623.0	1.0	170.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0623.0	0623.0	5.0	76.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0623.0	0624.0	5.0	25.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0623.0	0624.0	1.0	49.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0623.0	0624.0	1.0	20.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0623.0	0623.0	1.0	120.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0623.0	0623.0	U	22.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0623.6	0623.8	0.4	50.0			0
	900	GORK	45	C	0623.7	0624.1		25.0			
	900	GORK	45	C	0623.7	0623.8	0.6	41.0			
	2950	GORK	1	S	0800.5	0801.2	1.4	3.5			
	245	SGMR	49	GB	1242.0	1242.0	U	600.0			QL=4 ST=2 TYP=6
	245	SVTO	8	S	1242.0	1242.0	U	430.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1747.0	1816.0	105.0	7.0			
	6700	CUBA	21	GRF	1810.0	1824.5	103.8	11.0	5.0		00L
	6700	CUBA	1	S	1816.0	1816.4	1.5	5.0	2.0		00L
03	600	GORK	2	S/F	0522.1	0522.5	0.9	15.0			
	600	GORK	2	S/F	0611.4	0611.9	1.1	6.0			
	600	GORK	2	S/F	0638.8	0639.0	0.7	4.3			
	600	GORK	2	S/F	0908.2	0908.9	0.7	14.0			
	245	SVTO	8	S	1416.0	1416.0	U	52.0			QL=4 ST=2 TYP=3
04	235	CUBA	44	NS	1400.0E		470.0D		8.0		
	280	CUBA	44	NS	1400.0E		470.0D		16.0		
	245	LEAR	8	S	0138.0	0138.0	U	63.0			QL=4 ST=2 TYP=3
	3000	IZMI	1	S	0720.8	0720.9	0.3	27.0			
	2840	PEKG	5	S	0723.0	0736.0	30.0	7.7			
	2950	GORK	21	GRF	0727.0	0834.8	159.0	12.8			
	3000	IZMI	20	GRF	0733.7	0736.3	3.6	14.0			
	2950	GORK	45	C	0736.7	0739.2	4.1	10.5			
	900	GORK	42	SER	0746.2	0754.2	8.3	38.0			
	3000	IZMI	7	C	0826.0	0826.1	0.2	28.0			
	2950	GORK	6	S	0828.2	0829.0	1.1	4.8			
	33	UPIC	41	F	0927.0	1001.5	51.0				
05	2840	PEKG	20	GRF	0414.0	0429.0	20.0	7.4			

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

OCTOBER 1999

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
05	600	GORK	2	S/F	0510.7	0511.5	2.4	7.7			
	2840	PEKG	22	GRF	0524.0	0548.0	64.0	22.1			
	600	GORK	4	S/F	0531.0	0537.2	10.5	18.0			
	2950	GORK	20	GRF	0537.4	0547.2	16.0	10.0			
	5730	IRKU	1	S	0543.5	0547.8	6.5	6.0	U		
	600	GORK	7	C	0605.7	0609.3	4.7	5.2			
	600	GORK	45	C	0757.0	0805.0		71.0			
	600	GORK	45	C	0757.0	0803.3		124.0			
	600	GORK	45	C	0757.0	0801.6	27.8	11.8			
	600	GORK	45	C	0757.0	0808.7		33.0			
	600	GORK	42	SER	0826.2	0842.0		9.4			
	600	GORK	42	SER	0826.2	0829.0	20.4	4.3			
	2950	GORK	2	S/F	0850.4	0851.9	2.7	8.5			
	245	SVTO	4	S/F	1326.0	1328.0	6.0	100.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1327.0	1328.0	1.0	210.0			QL=4 ST=2 TYP=3
06	204	IZMI	43	NS	0841.0		199.0		5.0		
	280	CUBA	44	NS	1321.0E		509.0D		15.0		
	235	CUBA	44	NS	1321.0E		509.0D		8.0		
	245	SVTO	8	S	0721.0	0721.0	1.0	65.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0822.0	0822.0	U	73.0			QL=4 ST=2 TYP=3
	900	GORK	40	F	0903.0	0903.5	2.0	10.0			
	3000	IZMI	5	S	1123.1	1123.7	1.5	2.0	1.0		
07	204	IZMI	43	NS	0650.0		160.0U		5.0		
	235	CUBA	44	NS	1300.0E		480.0D		7.0		
	280	CUBA	44	NS	1300.0E		480.0D		17.0		
	2840	PEKG	1	S	0425.0	0428.0	6.0	7.2			
	5730	IRKU	4	S/F	0425.2	0428.0	44.0	16.0	U		
	2840	PEKG	1	S	0518.0	0521.0	5.0	9.0			
	5730	IRKU	4	S/F	0519.7	0521.0	73.3	10.0	U		
	2950	GORK	3	S	0520.3	0521.0	3.4	12.3			
	245	SVTO	8	S	1534.0	1535.0	1.0	50.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	2344.0	2352.0	19.0	13.0			
08	204	IZMI	43	NS	0625.0		120.0U		10.0		
	235	CUBA	44	NS	1300.0E		530.0D		7.0		
	280	CUBA	44	NS	1300.0E		530.0D		18.0		
	245	LEAR	8	S	0949.0	0949.0	1.0	53.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	0959.0	0959.0	4.0	130.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1000.0	1001.5	11.0				
	245	SVTO	8	S	1001.0	1003.0	2.0	50.0			QL=4 ST=2 TYP=3
	2950	GORK	1	S	1014.8	1015.9	4.4	2.5			
	33	UPIC	46	C	1026.5	1028.5	2.5				
	33	UPIC	46	C	1323.0	1325.0	3.5				
	2800	PENT	1	S	2055.0	2059.0	9.0	4.0			
09	280	CUBA	44	NS	1300.0E		410.0D		18.0		
	235	CUBA	44	NS	1500.0E		410.0D		7.0		
	2800	PENT	3	S	0021.0	0027.0	11.0	13.0			
	600	GORK	45	C	0636.9	0637.1	0.8	14.6			
	600	GORK	45	C	0636.9	0637.2		13.0			
	900	GORK	8	S	0817.4	0817.5	0.2	9.0			
	600	GORK	8	S	0817.4	0817.6	0.4	26.0			
	600	GORK	2	S/F	0830.7	0831.3	1.4	7.7			
	2800	PENT	1	S	1517.0	1520.0	9.0	6.0			
	2800	PENT	3	S	2129.0	2136.0	18.0	3.0			
10	235	CUBA	44	NS	1300.0E		530.0D		6.0		
	280	CUBA	44	NS	1300.0E		530.0D		17.0		
	204	IZMI	42	SER	0551.6	0551.8	0.4	16.0			
	204	IZMI	7	C	0858.5	0858.7	1.0	170.0U			
	6700	CUBA	23	GRF	1654.0	1712.0	78.0	7.0	3.0		12R
11	235	CUBA	44	NS	1300.0E		530.0D		7.0		
	280	CUBA	44	NS	1300.0E		530.0D		15.0		
	5730	IRKU	4	S/F	0342.8	0343.6	1.7	9.0	U		
	2800	PENT	20	GRF	1743.0	1754.0	57.0	11.0			

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

OCTOBER 1999

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
12	235	CUBA	44	NS	1300.0E		530.0D		7.0		
	280	CUBA	44	NS	1300.0E		530.0D		21.0		
	204	IZMI	42	SER	1139.0	1142.8	10.0U	99.0			
	204	IZMI	25	R	1149.5		10.0D		5.0		
	200	HIRA	8	S	2322.6	2323.0	0.8	130.0			0
13	204	IZMI	43	NS	0640.0		320.0D		20.0		
	245	SGMR	43	NS	1140.0	1838.0	592.0	180.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1300.0E		480.0D		15.0		
	280	CUBA	44	NS	1300.0E		480.0D		28.0		
	200	HIRA	42	SER	0021.0	0025.6	5.8	90.0			0
	200	HIRA	4	S/F	0329.4	0330.2	1.2	80.0			WL
	5730	IRKU	4	S/F	0431.5	0431.9	4.0	3.0	U		
	5730	IRKU	1	S	0450.0	0453.1	24.0	7.0	U		
	204	IZMI	41	F	0912.8	0913.5	1.6	203.0			
	6700	CUBA	1	S	1451.0	1451.5	0.8	10.0	5.0		37R
	245	LEAR	8	S	2222.0	2222.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2225.0	2226.0	1.0	78.0			QL=4 ST=2 TYP=3
14	410	PALE	43	NS	0241.0	0242.0	1279.0	74.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	0518.0	0724.0	1122.0	580.0			QL=2 ST=1 TYP=1
	245	SVTO	43	NS	0518.0	0544.0	1122.0	130.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	0518.0	0631.0	1122.0	430.0			QL=2 ST=1 TYP=1
	245	SVTO	43	NS	0518.0	0518.0	1122.0	76.0			QL=4 ST=1 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		70.0		
	410	SVTO	43	NS	1151.0	1202.0	11.0	61.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1308.0	1805.0	497.0	340.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1726.0	0001.0	626.0	300.0			QL=4 ST=2 TYP=1
	410	SGMR	43	NS	1804.0	1804.0	48.0	65.0			QL=4 ST=2 TYP=1
	245	LEAR	44	NS	2219.0E	0739.0	711.0D	420.0			QL=4 ST=2 TYP=1
	410	LEAR	8	S	0134.0	0135.0	1.0	60.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0220.0	0231.5	20.0	20.3			
	5730	IRKU	46	C	0225.5	0233.3	33.0	62.0	U		
	245	LEAR	48	C	0228.0	0231.0	4.0	460.0			QL=4 ST=2 TYP=8
	4995	LEAR	46	C	0228.0	0233.0	6.0	42.0			QL=4 ST=2 TYP=8
	200	HIRA	46	C	0228.2	0231.0	4.6	90.0			0
	2695	LEAR	8	S	0231.0	0231.0	U	28.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0231.0	0231.0	U	32.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0231.0	0232.0	1.0	50.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0237.0	0238.0	2.0	160.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0238.0	0238.0	U	130.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	0300.0	0308.0	13.0	350.0			QL=4 ST=2 TYP=8
	5730	IRKU	1	S	0311.0	0312.9	7.0	20.0	U		
	8800	LEAR	8	S	0312.0	0313.0	1.0	21.0			QL=4 ST=2 TYP=3
	5730	IRKU	20	GRF	0318.6	0320.8	10.0	7.0	U		
	5730	IRKU	1	S	0352.2	0355.0	8.3	20.0	U		
	5730	IRKU	1	S	0430.0	0432.5	5.5	4.0	U		
	5730	IRKU	1	S	0510.5	0511.6	2.5	7.0	U		
	410	SVTO	8	S	0549.0	0549.0	1.0	57.0			QL=4 ST=2 TYP=3
	2950	GORK	1	S	0635.8	0636.2	1.4	6.0			
	2840	PEKG	1	S	0636.0	0636.4	2.0	7.1			
	600	GORK	7	C	0651.1	0651.4	0.7	7.7			
	600	GORK	7	C	0651.1	0651.6		6.0			
	600	GORK	21	GRF	0723.6	0847.7	139.7	14.0			
	900	GORK	45	C	0745.3	0750.2		16.0			
	900	GORK	45	C	0745.3	0748.6	7.1	15.0			
	600	GORK	45	C	0745.3	0748.8	10.6	5.0			
	600	GORK	45	C	0745.3	0749.9		83.0			
	4995	SVTO	4	S/F	0746.0	0747.0	8.0	74.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	0746.0	0749.5	4.5				
	2950	GORK	45	C	0746.5	0748.0	10.3	22.0			
	2950	GORK	45	C	0746.5	0749.9		15.0			
	3000	IZMI	22	GRF	0746.8	0748.0	3.8	29.0			
	245	LEAR	4	S/F	0747.0	0749.0	3.0	360.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0747.0	0747.0	1.0	38.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0747.0	0748.0	3.0	61.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0747.0	0749.0	4.0	38.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0747.0	0747.0	3.0	20.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0747.0	0747.0	1.0	28.0			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

OCTOBER 1999

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
14	410	SVTO	4	S/F	0747.0	0749.0	3.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0747.0	0749.0	3.0	280.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	0747.0	0747.0	1.0	47.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0747.0	0749.2	8.0	20.6			
	610	SVTO	8	S	0749.0	0749.0	1.0	39.0			QL=4 ST=2 TYP=3
	2950	GORK	21	GRF	0835.1	0850.0	78.9	6.0			
	2950	GORK	1	S	0836.7	0837.6	2.5	5.1			
	900	GORK	21	GRF	0842.0	0851.7	48.0	6.8			
	2950	GORK	4	S/F	0853.9	0858.9	17.5	1200.0			
	4995	SVTO	49	GB	0854.0	0858.0	22.0	2000.0			QL=4 ST=2 TYP=6
	600	GORK	4	S/F	0856.5	0859.6	33.2	1850.0			
	245	SVTO	49	GB	0857.0	0858.0	6.0	2600.0			QL=2 ST=2 TYP=6
	2695	SVTO	49	GB	0857.0	0858.0	7.0	1000.0			QL=4 ST=2 TYP=6
	1415	SVTO	49	GB	0857.0	0858.0	7.0	530.0			QL=4 ST=2 TYP=6
	8800	SVTO	49	GB	0857.0	0858.0	18.0	2700.0			QL=4 ST=2 TYP=6
	3000	IZMI	45	C	0857.3	0858.8	9.4	1136.0			
	204	IZMI	45	C	0857.4	0858.8	8.8	11778.0			
	33	UPIC	49	GB	0857.5	0900.0	44.5				
	900	GORK	4	S/F	0857.8	0859.1	21.7	400.0			
	410	SVTO	49	GB	0858.0	0902.0	9.0	550.0			QL=4 ST=2 TYP=6
	610	SVTO	49	GB	0858.0	0859.0	9.0	850.0			QL=4 ST=2 TYP=6
	15400	SVTO	49	GB	0858.0	0858.0	9.0	3200.0			QL=4 ST=2 TYP=6
	204	IZMI	25	R	0959.0U		121.0D		80.0		
	245	SVTO	49	GB	1256.0	1256.0	1.0	800.0			QL=4 ST=2 TYP=6
	2800	PENT	41	F	1733.0	1914.0	119.0	14.0			
	245	SGMR	8	S	1755.0	1755.0	U	370.0			QL=2 ST=3 TYP=3
	410	SGMR	8	S	1756.0	1756.0	U	55.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1851.0	1851.0	1.0	440.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1913.0	1913.0	1.0	470.0			QL=2 ST=3 TYP=3
	245	SGMR	8	S	2030.0	2030.0	U	300.0			QL=2 ST=2 TYP=3
	245	LEAR	49	GB	2257.0	2258.0	1.0	680.0			QL=4 ST=2 TYP=6
	245	LEAR	4	S/F	2355.0	2357.0	3.0	450.0			QL=4 ST=2 TYP=3
15	410	PALE	43	NS	0241.0	0242.0	31.0	74.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0532.0	0710.0	201.0	250.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		244.0D		40.0		
	245	SGMR	43	NS	1117.0	1504.0U	601.0	320.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2221.0	0308.0	694.0	540.0			QL=4 ST=2 TYP=1
	410	PALE	4	S/F	0233.0	0236.0	3.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	0233.0	0240.0	7.0	290.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0242.0	0242.0	1.0	96.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0319.2	0319.4	0.4	160.0			0
	5730	IRKU	4	S/F	0341.5	0342.9	6.5	15.0	U		
	5730	IRKU	1	S	0656.0	0657.5	5.0	7.0	U		
	5730	IRKU	1	S	0830.5	0831.3	6.5	6.0	U		
	245	SVTO	8	S	0834.0	0835.0	2.0	120.0			QL=2 ST=2 TYP=3
	3000	IZMI	1	S	0916.1	0916.3	0.5	11.0	5.0		
	245	SVTO	8	S	1000.0	1001.0	1.0	360.0			QL=2 ST=2 TYP=3
	33	UPIC	46	C	1320.0	1322.0	2.5				
	245	SGMR	8	S	1502.0	1502.0	U	460.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1502.0	1502.0	3.0	200.0			QL=2 ST=2 TYP=3
	2800	PENT	20	GRF	1526.0	1550.0	49.0	10.0			
	2800	PENT	20	GRF	1733.0	1835.0	118.0	13.0			
	2800	PENT	1	S	2052.0	2055.0	28.0	10.0			
16	245	SVTO	43	NS	0522.0	0606.0	625.0	370.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		35.0		
	245	SGMR	43	NS	1118.0	1318.0U	599.0	370.0			QL=4 ST=2 TYP=1
	410	SVTO	43	NS	1341.0	1356.0	30.0	120.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	1500.0E		410.0D		50.0		
	235	CUBA	44	NS	1500.0E		410.0D		26.0		
	245	LEAR	43	NS	2222.0	0401.0	623.0	580.0			QL=4 ST=2 TYP=1
	200	HIRA	4	S/F	0002.0	0002.4	0.8	220.0			WL
	5730	IRKU	1	S	0122.1	0122.6	9.9	29.0	U		
	5730	IRKU	1	S	0135.5	0136.8	13.2	6.0	U		
	5730	IRKU	21	GRF	0154.0	0158.0	11.7	6.0	U		
	2840	PEKG	1	S	0221.0	0224.0	6.0	8.1			
	5730	IRKU	45	C	0255.0	0304.8	42.0	14.0	U		
	5730	IRKU	45	C	0337.0	0409.5	81.0	21.0	U		

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OCTOBER 1999

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	2840	PEKG	5	S	0456.0	0501.0	8.0	10.9			
	5730	IRKU	45	C	0459.0	0507.3	43.0	15.0	U		
	410	LEAR	8	S	0500.0	0501.0	1.0	56.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0500.0	0500.0	1.0	570.0			QL=2 ST=2 TYP=6
	200	HIRA	4	S/F	0500.4	0500.8	0.8	140.0			WL
	2950	GORK	2	S/F	0506.9	0507.1	0.6	6.2			
	200	HIRA	8	S	0642.2	0642.4	0.4	120.0			0
	200	HIRA	4	S/F	0651.8	0652.6	1.2	60.0			0
	2840	PEKG	1	S	0804.0	0807.5	10.0	4.4			
	5730	IRKU	1	S	0819.6	0820.8	10.4	13.0	U		
	33	UPIC	46	C	1048.0	1049.0	2.5				
	3000	IZMI	45	C	1057.3	1058.8	5.0U	48.0			
	245	SGMR	49	GB	1305.0	1305.0	U	500.0			QL=2 ST=2 TYP=6
	410	SGMR	8	S	1407.0	1407.0	1.0	98.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1504.0	1504.0	1.0	60.0			QL=4 ST=2 TYP=3
	2800	PENT	20	GRF	1748.0	1815.0	52.0	13.0			
	410	SGMR	8	S	2051.0	2051.0	U	47.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	2051.0	2051.0	1.0	1100.0			QL=2 ST=2 TYP=6
	245	SGMR	49	GB	2051.0	2051.0	1.0	1100.0			QL=4 ST=2 TYP=6
	200	HIRA	4	S/F	2051.0	2051.4	0.8	60.0			MR
17	245	SVTO	43	NS	0524.0	0621.0	254.0	230.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		5.0		
	235	CUBA	44	NS	1300.0E		500.0D		8.0		
	280	CUBA	44	NS	1300.0E		500.0D		18.0		
	610	SVTO	8	S	0959.0	0959.0	U	60.0			QL=4 ST=2 TYP=3
	600	GORK	4	S/F	0959.0E	0959.4	1.5D	146.0			
	3000	IZMI	1	S	0959.1	0959.5	0.8	10.0			
	900	GORK	2	S/F	0959.2	0959.3	1.6	6.5			
	600	GORK	40	F	1003.4	1004.0	2.9	103.0			
	3000	IZMI	7	C	1003.8	1004.5	3.3	29.0			
	2950	GORK	4	S/F	1003.8	1004.6	3.4	24.0			
	900	GORK	4	S/F	1003.9	1004.5	3.3	64.0			
	2695	SVTO	8	S	1004.0	1004.0	U	23.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1004.0	1004.0	U	30.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1004.0	1004.0	1.0	31.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1004.0	1004.0	1.0	51.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1122.8	1123.5	1.4	135.0			
18	235	CUBA	44	NS	1300.0E		515.0D		8.0		
	280	CUBA	44	NS	1300.0E		530.0D		19.0		
	2840	PEKG	46	C	0145.0	0153.0	14.0	21.3			
	5730	IRKU	4	S/F	0148.0	0153.6	26.0	46.0	U		
	5730	IRKU	4	S/F	0219.7	0230.5	25.3	10.0	U		
	5730	IRKU	1	S	0339.0	0341.1	12.5	3.0	U		
	5730	IRKU	1	S	0423.4	0425.0	6.3	5.0	U		
	5730	IRKU	1	S	0555.4	0555.7	2.6	3.0	U		
	6700	CUBA	21	GRF	1454.0	1732.0	183.0	12.0	6.0		13R
	2800	PENT	20	GRF	1729.0	1733.0	120.0	15.0			
	6700	CUBA	1	S	1732.8	1734.0	1.9	17.0	8.0		20R
19	280	CUBA	44	NS	1300.0E		515.0D		18.0		
	235	CUBA	44	NS	1300.0E		530.0D		8.0		
	5730	IRKU	1	S	0317.1	0320.0	27.9	6.0	U		
	5730	IRKU	1	S	0658.5	0705.5	22.5	3.0	U		
	5730	IRKU	4	S/F	0811.0	0812.3	8.0	9.0	U		
	2950	GORK	2	S/F	0811.4	0812.2	1.7	4.4			
	235	CUBA	41	F	1436.0	1436.2	1.0	30.0			
	280	CUBA	41	F	1436.0	1436.2	1.0	14.0			
	2800	PENT	1	S	1837.0	1841.0	10.0	11.0			
	6700	CUBA	20	GRF	1914.0	1943.0	66.0	18.0	9.0		3A
	2800	PENT	1	S	1926.0	1929.0	6.0	4.0			
	2800	PENT	1	S	2145.0	2203.0	28.0	12.0			
20	235	CUBA	44	NS	1300.0E		530.0D		7.0		
	280	CUBA	44	NS	1300.0E		530.0D		19.0		
	2840	PEKG	46	C	0551.0	0601.0	31.0	40.8			
	2950	GORK	45	C	0553.2	0600.8	20.7	55.0			
	2950	GORK	45	C	0553.2	0608.9		48.5			

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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
20	900	GORK	45	C	0553.7	0608.0		27.0			
	900	GORK	45	C	0553.7	0601.1	25.7	57.0			
	600	GORK	45	C	0554.0	0607.4		45.0			
	5730	IRKU	4	S/F	0554.0	0628.5	120.0D	56.0	U		
	600	GORK	45	C	0554.0	0602.8	20.2	34.0			
	2800	HIRA	46	C	0554.4	0601.2	19.5	40.0			0
	2695	LEAR	20	GRF	0556.0	0600.0	15.0	44.0			QL=4 ST=2 TYP=2
	4995	LEAR	20	GRF	0556.0	0624.0	28.0	46.0			QL=4 ST=2 TYP=2
	204	IZMI	42	SER	0556.9	0601.8	41.2	18.1			
	1415	LEAR	20	GRF	0557.0	0600.0	6.0	43.0			QL=4 ST=2 TYP=2
	610	LEAR	20	GRF	0600.0	0601.0	1.0	24.0			QL=4 ST=2 TYP=2
	410	LEAR	20	GRF	0600.0	0601.0	1.0	33.0			QL=4 ST=2 TYP=2
	8800	LEAR	20	GRF	0601.0	0602.0	1.0	24.0			QL=4 ST=2 TYP=2
	204	IZMI	7	C	0605.5	0607.6	2.6	20.7			
	2950	GORK	30	PBI	0613.9	0643.6	30.0D	29.6			
	600	GORK	42	SER	0919.5	0920.0	7.4	5.5			
	600	GORK	42	SER	0919.5	0926.5		12.0			
	900	GORK	42	SER	0919.5	0926.7	8.5	5.0			
	2950	GORK	20	GRF	0925.2	0927.0	28.3	43.0			
	2950	GORK	1	S	0925.4	0926.9	3.5	3.4			
	204	IZMI	7	C	0925.8	0929.1	5.9	32.1			
	3000	IZMI	5	S	0926.0	0927.0	2.7	8.0			
	245	SVTO	8	S	1410.0	1410.0	1.0	150.0			QL=4 ST=2 TYP=3
21	280	CUBA	44	NS	1300.0E		530.0D		18.0		
	235	CUBA	44	NS	1300.0E		530.0D		8.0		
	245	LEAR	8	S	0211.0	0211.0	1.0	120.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0211.2	0211.6	0.8	50.0			0
	410	LEAR	8	S	0214.0	0215.0	1.0	59.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0405.0	0406.0	1.0	70.0			QL=4 ST=2 TYP=3
	2950	GORK	20	GRF	0840.0	0900.0U	49.7	6.1U			
	204	IZMI	45	C	0922.4	0922.8	0.9	148.0			
	2950	GORK	21	GRF	0955.3	1013.5	64.7D	5.6			
	33	UPIC	46	C	1002.5	1003.5	3.5				
	204	IZMI	42	SER	1002.7	1003.1	3.4	79.0			
	3000	IZMI	20	GRF	1002.7	1003.7	4.5	8.0			
	2950	GORK	1	S	1003.2	1003.7	0.9	3.5			
	900	GORK	45	C	1004.3	1005.2		10.0			
	900	GORK	45	C	1004.3	1004.6	1.4	6.0			
	600	GORK	4	S/F	1004.9	1005.2	1.1	13.0			
	6700	CUBA	1	S	1334.4	1335.2	1.8	7.0	3.0		29L
	2800	PENT	1	S	1919.0	1923.0	11.0	6.0			
	200	HIRA	8	S	2353.0	2353.4	0.8	60.0			0
22	204	IZMI	43	NS	0600.0		360.0D		15.0		
	235	CUBA	44	NS	1300.0E		530.0D		11.0		
	280	CUBA	44	NS	1300.0E		530.0D		22.0		
	2840	PEKG	1	S	0416.0	0417.5	3.0	7.0			
	245	LEAR	8	S	0613.0	0614.0	1.0	76.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0731.0	0733.0	3.0	200.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0732.9	0733.3	1.7	293.0			
	245	LEAR	8	S	0733.0	0733.0	1.0	62.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0823.0	0823.0	U	77.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0823.0	0825.0	3.0	160.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0823.4	0834.1	11.7	189.0			
	245	SVTO	8	S	0825.0	0825.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0828.0	0834.0	6.0	92.0			QL=4 ST=2 TYP=3
	33	UPIC	42	SER	0828.0	0831.0	19.0				
	245	LEAR	4	S/F	0829.0	0833.0	8.0	150.0			QL=4 ST=2 TYP=3
	2950	GORK	2	S/F	0829.0	0830.1	2.1	2.6			
	2950	GORK	21	GRF	0843.9	0915.4	111.4	6.1			
	2950	GORK	2	S/F	0912.9	0914.3	2.1	7.8			
	3000	IZMI	20	GRF	0913.1	0914.2	2.1	16.0	8.0		
	245	SVTO	49	GB	1147.0	1147.0	U	650.0			QL=4 ST=2 TYP=6
	204	IZMI	45	C	1147.3	1147.4	0.7	889.0			
	245	SVTO	49	GB	1209.0	1209.0	1.0	2100.0			QL=4 ST=3 TYP=6
	410	SVTO	8	S	1209.0	1209.0	1.0	160.0			QL=4 ST=3 TYP=3
	33	UPIC	42	SER	1210.0	1239.5	42.5				
	245	SVTO	49	GB	1238.0	1240.0	3.0	680.0			QL=4 ST=3 TYP=6

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OCTOBER 1999

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	SVTO	8	S	1241.0	1241.0	U	140.0			QL=4 ST=3 TYP=3
	245	SVTO	4	S/F	1244.0	1253.0	10.0	58.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	1251.0	1252.0	3.0	270.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1252.0	1254.0	2.0	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1615.0	1616.0	1.0	160.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1640.0	1640.0	U	150.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1715.0	1718.0	3.0	96.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1715.0	1718.0	4.0	73.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1727.0	1730.0	4.0	94.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1753.0	1754.0	1.0	410.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1816.0	1825.0	41.0	15.0			
	245	PALE	8	S	1836.0	1836.0	1.0	250.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1836.0	1836.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1839.0	1840.0	1.0	91.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1840.0	1840.0	U	130.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	1908.0	1908.0	U	630.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	1908.0	1908.0	1.0	430.0			QL=4 ST=2 TYP=3
	235	CUBA	7	C	1928.0	1929.0	1.2	579.0			
	280	CUBA	7	C	1928.0	1929.0	1.2	1038.0			
	245	PALE	49	GB	1928.0	1928.0	2.0	920.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1928.0	1929.0	2.0	680.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	1929.0	1930.0	1.0	140.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1929.0	1930.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2140.0	2140.0	U	540.0			QL=4 ST=2 TYP=6
	245	PALE	8	S	2148.0	2148.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2155.0	2155.0	U	55.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2329.0	2330.0	1.0	100.0			QL=4 ST=2 TYP=3
23	204	IZMI	44	NS	0600.0E		360.0D		5.0		
	235	CUBA	44	NS	1300.0E		530.0D		12.0		
	280	CUBA	44	NS	1300.0E		530.0D		23.0		
	2840	PEKG	5	S	0048.0	0049.9	4.0	14.6			
	2840	PEKG	1	S	0213.0	0214.0	2.0	7.3			
	245	LEAR	8	S	0229.0	0229.0	U	87.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0432.0	0432.0	U	51.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0432.0	0432.0	U	54.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0511.0	0511.0	1.0	60.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0514.0	0514.0	U	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0545.0	0545.0	U	71.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0558.0	0601.0	5.0	22.6			
	2950	GORK	3	S	0559.4	0600.8	3.2	11.0			
	5730	IRKU	1	S	0559.5	0600.8	7.5	10.0	U		
	900	GORK	7	C	0707.1	0707.7	1.1	28.0			
	245	LEAR	8	S	0708.0	0710.0	2.0	53.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0907.0	0908.0	1.0	93.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0907.0	0908.0	1.0	66.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2032.0	2032.0	1.0	130.0			QL=4 ST=2 TYP=3
24	245	SGMR	44	NS	1210.0E	1250.0U	105.0D	60.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1300.0E		530.0D		12.0		
	280	CUBA	44	NS	1300.0E		530.0D		22.0		
	5730	IRKU	4	S/F	0129.2	0130.0	4.8	30.0	U		
	245	LEAR	8	S	0328.0	0328.0	2.0	98.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0328.0	0328.0	U	68.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0714.0	0714.0	U	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0714.0	0714.0	U	100.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0714.0	0714.4	0.6	147.0			
	204	IZMI	25	R	1033.0U		87.0D		18.0		
	204	IZMI	42	SER	1040.8	1041.6	2.8	119.0			
	245	SVTO	8	S	1250.0	1250.0	U	110.0			QL=2 ST=2 TYP=3
	410	SGMR	49	GB	1604.0	1605.0	3.0	910.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1605.0	1605.0	2.0	870.0			QL=4 ST=2 TYP=6
	610	SGMR	8	S	1605.0	1605.0	2.0	66.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1605.0	1606.5	1.8	29.0	14.0		22L
	245	LEAR	8	S	2302.0	2303.0	1.0	89.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2313.0	2314.0	2.0	180.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2337.0	2338.0	1.0	110.0			QL=4 ST=2 TYP=3
25	204	IZMI	43	NS	0600.0		360.0D		10.0		

S O L A R R A D I O E M I S S I O N
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OCTOBER 1999

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	235	CUBA	44	NS	1300.0E		300.0D		12.0		
	280	CUBA	44	NS	1300.0E		530.0D		26.0		
	245	LEAR	8	S	0128.0	0128.0	U	50.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0128.0	0128.0	U	51.0			QL=4 ST=2 TYP=3
	5730	IRKU	1	S	0311.8	0312.1	3.2	4.0	U		
	245	LEAR	8	S	0322.0	0322.0	U	68.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0512.0	0512.0	1.0	270.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0512.0	0513.0	2.0	150.0			QL=4 ST=2 TYP=3
	5730	IRKU	1	S	0523.6	0527.6	26.4	8.0	U		
	2840	PEKG	46	C	0627.0	0630.0	16.0	58.7			
	5730	IRKU	46	C	0628.2	0630.1	14.8	107.0	U		
	1415	LEAR	8	S	0629.0	0630.0	1.0	72.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0629.0	0629.0	1.0	68.0			QL=4 ST=2 TYP=3
	610	LEAR	49	GB	0629.0	0629.0	1.0	700.0			QL=4 ST=2 TYP=6
	15400	LEAR	8	S	0629.0	0629.0	1.0	52.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0629.0	0630.0	1.0	61.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0629.0	0630.0	1.0	65.0			QL=4 ST=2 TYP=3
	15400	SVTO	48	C	0629.0	0629.0	4.0	77.0			QL=4 ST=2 TYP=8
	2695	SVTO	8	S	0629.0	0630.0	1.0	64.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0629.0	0629.0	2.0	110.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0629.0	0630.0	1.0	66.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0629.0	0630.0	2.0	80.0			QL=4 ST=2 TYP=3
	610	SVTO	49	GB	0629.0	0629.0	1.0	520.0			QL=4 ST=2 TYP=6
	3000	IZMI	7	C	0629.3	0629.8	4.8	71.0			
	500	HIRA	8	S	0629.8	0630.0	0.4	440.0			0
	2800	HIRA	29	PBI	0630.0	0630.4	2.0	60.0			WL
	204	IZMI	41	F	0657.9	0658.0	0.8	104.0			
	2840	PEKG	1	S	0736.0	0739.0	8.0	9.0			
	245	LEAR	8	S	0743.0	0743.0	2.0	72.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0748.7	0749.4	0.7	159.0			
	245	LEAR	8	S	0749.0	0749.0	U	88.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0853.9	0854.2	0.6	392.0			
	245	LEAR	8	S	0854.0	0854.0	U	360.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0854.0	0854.0	U	180.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1144.5	1145.1	4.3	52.0			
	610	SGMR	8	S	1902.0	1902.0	2.0	120.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1902.0	1902.0	2.0	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1902.0	1902.0	2.0	140.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1906.0	1906.0	U	68.0			QL=4 ST=2 TYP=3
26	204	IZMI	44	NS	0600.0E		360.0D		20.0		
	280	CUBA	44	NS	1300.0E		530.0D		29.0		
	235	CUBA	44	NS	1300.0E		530.0D		14.0		
	245	PALE	43	NS	2209.0	2239.0	113.0	270.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2210.0	2235.0	105.0	300.0			QL=4 ST=2 TYP=1
	410	PALE	43	NS	2224.0	2225.0	94.0	71.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0012.0	0012.0	U	120.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0012.0	0012.0	U	33.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0051.0	0054.0	4.0	67.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0051.0	0051.0	1.0	42.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0051.0	0051.0	U	28.0			QL=4 ST=2 TYP=3
	5730	IRKU	1	S	0053.4	0053.6	0.8	18.0	U		
	245	LEAR	8	S	0107.0	0108.0	1.0	71.0			QL=4 ST=2 TYP=3
	5730	IRKU	1	S	0146.0	0147.0	12.5	11.0	U		
	2840	PEKG	1	S	0224.0	0226.0	4.0	3.6			
	5730	IRKU	1	S	0225.2	0226.2	3.9	26.0	U		
	5730	IRKU	1	S	0232.0	0233.5	3.6	6.0	U		
	5730	IRKU	45	C	0242.0	0255.2	27.0	6.0	U		
	5730	IRKU	45	C	0329.2	0331.8	7.1	22.0	U		
	5730	IRKU	45	C	0413.0	0426.2	17.0	5.0	U		
	5730	IRKU	4	S/F	0445.0	0446.0	3.2	13.0	U		
	5730	IRKU	20	GRF	0503.0	0517.3	26.0	5.0	U		
	245	LEAR	4	S/F	0534.0	0535.0	3.0	71.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0534.0	0535.0	1.0	48.0			QL=2 ST=2 TYP=3
	245	SVTO	4	S/F	0542.0	0543.0	3.0	72.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0543.0	0544.0	1.0	84.0			QL=4 ST=2 TYP=3
	5730	IRKU	1	S	0607.5	0608.0	2.0	16.0	U		
	410	LEAR	8	S	0617.0	0619.0	2.0	32.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0617.0	0619.0	2.0	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
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OCTOBER 1999

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	4995	LEAR	4	S/F	0618.0	0619.0	6.0	24.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0618.0	0619.0	2.0	13.0			QL=4 ST=2 TYP=3
	5730	IRKU	1	S	0618.5	0619.4	5.0	21.0	U		
	5730	IRKU	21	GRF	0628.0	0644.5	34.5	12.0	U		
	5730	IRKU	8	S	0703.0	0703.2	0.6	4.0	U		
	5730	IRKU	4	S/F	0707.5	0708.5	4.5	4.0	U		
	200	HIRA	42	SER	0709.6	0709.8	1.0	50.0			0
	3000	IZMI	20	GRF	0727.0	0736.0	16.0	23.0	12.0		
	5730	IRKU	21	GRF	0728.5	0820.0	90.0D	26.0	U		
	245	LEAR	8	S	0900.0	0901.0	1.0	490.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0900.0	0901.0	4.0	350.0			QL=2 ST=2 TYP=3
	410	SVTO	4	S/F	0901.0	0902.0	3.0	52.0			QL=2 ST=2 TYP=3
	3000	IZMI	5	S	0903.0	0904.0	4.0	13.0			
	245	LEAR	8	S	0903.0	0903.0	U	69.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1106.8	1107.7	2.8	181.0			
	3000	IZMI	7	C	1117.2	1117.6	2.9	10.0			
	3000	IZMI	5	S	1126.0	1126.1	0.5	10.0			
	3000	IZMI	20	GRF	1152.8	1153.6	3.8	14.0			
	410	SGMR	8	S	1153.0	1153.0	1.0	210.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1153.0	1153.0	1.0	80.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1258.0	1258.0	1.0	720.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	1258.0	1258.0	1.0	58.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1258.0	1258.0	1.0	52.0			QL=4 ST=3 TYP=3
	410	SGMR	8	S	1319.0	1320.0	2.0	250.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1352.0	1353.0	2.0	59.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1352.0	1353.0	2.0	110.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1352.0	1353.0	1.0	20.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1353.0	1354.0	3.0	450.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1353.0	1354.0	2.0	93.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1353.0	1354.0	2.0	500.0			QL=4 ST=3 TYP=6
	6700	CUBA	1	S	1354.0	1354.7	1.2	7.0	3.0		48L
	280	CUBA	7	C	1354.2	1354.5	1.0	1037.0			
	245	SGMR	8	S	1431.0	1431.0	1.0	150.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1431.0	1431.0	U	100.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1431.0	1431.0	U	96.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1431.0	1432.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1435.0	1435.0	1.0	120.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1435.0	1435.0	1.0	62.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1447.0	1447.0	U	320.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1447.0	1447.0	U	190.0			QL=4 ST=2 TYP=3
	235	CUBA	7	C	1454.5	1454.5	1.0	671.0			
	410	SGMR	8	S	1503.0	1503.0	U	72.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1511.0	1512.0	2.0	66.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1511.0	1512.0	2.0	130.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1540.0	1540.0	1.0	67.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1553.0	1553.0	U	270.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1553.0	1553.0	U	1500.0			QL=4 ST=2 TYP=6
	235	CUBA	6	S	1553.0	1555.3	2.3	68.0			
	280	CUBA	6	S	1553.0	1553.3	0.8	361.0			
	410	SGMR	49	GB	1623.0	1623.0	1.0	3300.0			QL=4 ST=2 TYP=6
	6700	CUBA	2	S/F	1623.5	1624.2	1.5	7.0	3.0		32L
	410	SGMR	8	S	1634.0	1634.0	1.0	110.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1650.0	1650.0	1.0	90.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1655.0	1655.0	1.0	76.0			QL=4 ST=2 TYP=3
	6700	CUBA	21	GRF	1834.0	1850.0	74.0	32.0	16.0		9L
	6700	CUBA	1	S	1840.0	1841.2	1.6	43.0	21.0		7L
	2695	SGMR	20	GRF	1841.0	1842.0	2.0	15.0			QL=4 ST=2 TYP=2
	4995	SGMR	20	GRF	1841.0	1841.0	23.0	67.0			QL=4 ST=2 TYP=2
	8800	SGMR	20	GRF	1841.0	1852.0	23.0	23.0			QL=2 ST=2 TYP=2
	15400	SGMR	20	GRF	1846.0	1857.0	18.0	24.0			QL=4 ST=2 TYP=2
	6700	CUBA	1	S	1925.2	1925.4	1.2	14.0	7.0		00L
	410	SGMR	8	S	1930.0	1930.0	1.0	310.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1950.0	1950.0	2.0	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2050.0	2050.0	U	300.0			QL=4 ST=2 TYP=3
	235	CUBA	48	C	2050.0	2057.0	18.2	79.0			
	280	CUBA	48	C	2050.0	2055.6	18.2	165.0			
	245	SGMR	8	S	2055.0	2056.0	2.0	77.0			QL=4 ST=2 TYP=3
	6700	CUBA	45	C	2112.0	2122.3	13.2	180.0	42.0		21L
	4995	PALE	4	S/F	2120.0	2122.0	3.0	160.0			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

OCTOBER 1999

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	1415	PALE	4	S/F	2120.0	2122.0	6.0	18.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2120.0	2121.0	8.0	53.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	2120.0	2122.0	8.0	150.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2120.0	2122.0	8.0	83.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2124.0	2124.2	0.4	200.0			0
	6700	CUBA	30	PBI	2125.2		32.0D	26.0			00L SUNSET
	6700	CUBA	2	S/F	2130.6	2132.3	2.4	11.0	5.0		23L
	410	LEAR	4	S/F	2241.0	2242.0	3.0	58.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	2244.0	2244.0	1.0	180.0			QL=4 ST=2 TYP=3
27	245	LEAR	43	NS	0525.0	0658.0	267.0	110.0			QL=4 ST=2 TYP=1
	245	SVTO	44	NS	0533.0E	0559.0	208.0D	110.0			QL=2 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		25.0		
	245	SGMR	43	NS	1202.0	1208.0	88.0	92.0			QL=4 ST=2 TYP=1
	245	SVTO	44	NS	1202.0E	1426.0	150.0D	100.0			QL=2 ST=2 TYP=1
	245	SGMR	43	NS	1524.0	1915.0	231.0	180.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1736.0	1737.0	27.0	240.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2249.0	0117.0	392.0	400.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0252.0	0252.0	U	130.0			QL=4 ST=2 TYP=3
	5730	IRKU	45	C	0302.0	0303.5	13.5	8.0	U		
	5730	IRKU	1	S	0404.0	0405.8	5.5	3.0	U		
	200	HIRA	47	GB	0427.0	0428.0	4.6	580.0			0
	245	LEAR	49	GB	0427.0	0427.0	2.0	750.0			QL=4 ST=3 TYP=6
	610	LEAR	4	S/F	0427.0	0428.0	3.0	250.0			QL=4 ST=3 TYP=3
	410	LEAR	4	S/F	0427.0	0428.0	3.0	240.0			QL=4 ST=3 TYP=3
	1415	LEAR	8	S	0427.0	0428.0	2.0	170.0			QL=4 ST=3 TYP=3
	2840	PEKG	5	S	0427.0	0428.5	3.0	42.7			
	500	HIRA	42	SER	0427.2	0428.0	4.0	140.0			0
	5730	IRKU	46	C	0427.4	0428.5	9.6	110.0	U		
	2695	LEAR	8	S	0428.0	0428.0	1.0	44.0			QL=4 ST=3 TYP=3
	4995	LEAR	8	S	0428.0	0428.0	1.0	53.0			QL=4 ST=3 TYP=3
	8800	LEAR	8	S	0428.0	0428.0	U	29.0			QL=4 ST=3 TYP=3
	2800	HIRA	3	S	0428.6	0429.2	1.2	40.0			0
	5730	IRKU	1	S	0442.0	0447.5	17.5	7.0	U		
	245	LEAR	8	S	0511.0	0511.0	U	53.0			QL=4 ST=2 TYP=3
	5730	IRKU	4	S/F	0531.5	0547.4	33.5	10.0	U		
	410	SVTO	8	S	0558.0	0558.0	1.0	58.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	0558.0	0558.0	1.0	600.0			QL=2 ST=2 TYP=6
	410	LEAR	8	S	0908.0	0909.0	1.0	400.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0908.0	0910.0	7.0	140.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	0908.0	0909.0	3.0	770.0			QL=4 ST=2 TYP=6
	204	IZMI	45	C	0908.6	0909.3	33.1	16187.0			
	3000	IZMI	20	GRF	0908.8	0910.4	12.7	82.0			
	8800	LEAR	8	S	0909.0	0910.0	2.0	83.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0909.0	0909.0	1.0	13000.0			QL=4 ST=2 TYP=6
	2695	LEAR	4	S/F	0909.0	0910.0	3.0	96.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0909.0	0911.0	3.0	50.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0909.0	0910.0	3.0	120.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0909.0	0911.0	3.0	93.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	0909.0	0909.0	1.0	11000.0			QL=2 ST=2 TYP=6
	8800	SVTO	4	S/F	0909.0	0910.0	3.0	130.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	0909.0	0910.0	4.0	96.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0909.0	0910.0	3.0	94.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	0909.0	0911.0	3.0	95.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0910.0	0910.0	U	28.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0910.0	0910.0	1.0	42.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0956.3	0956.8	0.8	613.0			
	204	IZMI	42	SER	1006.6	1007.6	3.4	850.0			
	610	SVTO	8	S	1007.0	1007.0	U	32.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1007.0	1007.0	U	130.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1040.9	1041.2	0.6	524.0			
	610	SVTO	8	S	1059.0	1100.0	1.0	53.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1059.0	1059.0	1.0	180.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1059.0	1059.0	1.0	2600.0			QL=4 ST=2 TYP=6
	204	IZMI	45	C	1059.7	1100.0	0.5	3252.0			
	204	IZMI	42	SER	1106.2	1107.8	7.5	516.0			
	410	SGMR	8	S	1717.0	1717.0	1.0	51.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1839.0	1840.0	1.0	55.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1840.0	1840.0	3.0	33.0			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

OCTOBER 1999

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	245	SGMR	8	S	2018.0	2018.0	U	57.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2243.0	2244.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2244.0	2244.0	U	140.0			QL=4 ST=2 TYP=3
28	204	IZMI	44	NS	0600.0E		360.0D		15.0		
	245	SGMR	43	NS	1201.0	1202.0	719.0	130.0			QL=4 ST=1 TYP=1
	245	SVTO	44	NS	1202.0E	1234.0	207.0D	150.0			QL=2 ST=2 TYP=1
	245	LEAR	49	GB	0028.0	0028.0	3.0	770.0			QL=4 ST=2 TYP=6
	200	HIRA	47	GB	0028.6	0028.8	3.0	600.0			0
	200	HIRA	8	S	0238.6	0238.8	0.4	340.0			0
	200	HIRA	47	GB	0439.8	0444.2	6.0	680.0			ML
	2840	PEKG	5	S	0448.0	0456.3	14.0	3.8			
	5730	IRKU	4	S/F	0450.5	0456.8	8.9	11.0	U		
	200	HIRA	47	GB	0455.8	0456.2	0.8	760.0			0
	500	HIRA	8	S	0456.2	0456.4	0.4	30.0			ML
	5730	IRKU	45	C	0713.8	0715.0	6.2	4.0	U		
	5730	IRKU	1	S	0733.6	0734.0	3.4	3.0	U		
	245	LEAR	8	S	0738.0	0738.0	2.0	99.0			QL=4 ST=2 TYP=3
	5730	IRKU	4	S/F	0741.5	0746.8	12.0	11.0	U		
	245	LEAR	8	S	0808.0	0809.0	1.0	74.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0808.0	0809.0	2.0	61.0			QL=4 ST=2 TYP=3
	204	IZMI	24	R	0930.0U		150.0D		20.0		
	245	LEAR	8	S	0936.0	0936.0	U	56.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0936.0	0936.0	U	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0951.0	0951.0	2.0	85.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1435.0	1435.0	U	160.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	2357.0	2357.0	U	71.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	2357.0	2357.0	1.0	41.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2357.0	2357.0	1.0	96.0			QL=4 ST=2 TYP=3
29	245	PALE	43	NS	0214.0	0224.0	56.0	290.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0214.0	0224.0	74.0	290.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		10.0		
	5730	IRKU	4	S/F	0531.5	0533.4	17.3	5.0	U		
	245	LEAR	4	S/F	0628.0	0630.0	3.0	270.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0628.0	0628.0	1.0	100.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0643.0	0644.0	2.0	80.0			QL=2 ST=2 TYP=3
	204	IZMI	42	SER	0644.8	0645.0	2.4	209.0			
	5730	IRKU	4	S/F	0647.5	0651.7	15.0	5.0	U		
	204	IZMI	42	SER	0838.5	0838.9	1.0	146.0			
	245	LEAR	8	S	2345.0	2346.0	2.0	67.0			QL=4 ST=2 TYP=3
30	204	IZMI	44	NS	0600.0E		95.0D		5.0		
	5730	IRKU	4	S/F	0402.5	0405.9	18.0	8.0	U		
31	280	CUBA	44	NS	1300.0E		530.0D		35.0		
	235	CUBA	44	NS	1300.0E		530.0D		22.0		
	245	SVTO	43	NS	1429.0	1440.0	17.0	79.0			QL=4 ST=2 TYP=1
	5730	IRKU	20	GRF	0353.0	0409.6	64.0	6.0	U		
	410	LEAR	8	S	0405.0	0405.0	1.0	93.0			QL=4 ST=2 TYP=3
	5730	IRKU	4	S/F	0652.0	0659.3	68.0	36.0	U		
	500	HIRA	46	C	0655.6	0656.2	7.0	60.0			ML
	410	LEAR	4	S/F	0656.0	0657.0	6.0	240.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0656.0	0657.0	6.0	110.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0656.0	0657.0	1.0	29.0			QL=4 ST=2 TYP=3
	410	SVTO	48	C	0656.0	0658.0	8.0	270.0			QL=4 ST=2 TYP=8
	8800	SVTO	46	C	0656.0	0659.0	5.0	29.0			QL=4 ST=2 TYP=8
	4995	SVTO	4	S/F	0656.0	0659.0	5.0	33.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	0656.0	0659.0	5.0	69.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0657.0	0659.0	4.0	63.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0657.0	0657.0	2.0	38.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0657.0	0657.0	4.0	43.0			QL=4 ST=2 TYP=3
	610	SVTO	48	C	0657.0	0657.0	4.0	78.0			QL=4 ST=2 TYP=8
	2800	HIRA	46	C	0657.4	0658.4	4.4	30.0			WL
	245	LEAR	4	S/F	0658.0	0700.0	6.0	110.0			QL=4 ST=2 TYP=3
	245	SVTO	48	C	0659.0	0700.0	5.0	100.0			QL=4 ST=2 TYP=8
	204	IZMI	25	R	0659.0E	0659.8	95.0U	269.0			
	15400	SVTO	8	S	0700.0	0700.0	U	24.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0706.0	0706.0	U	65.0			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

OCTOBER 1999

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	410	LEAR	8	S	0712.0	0713.0	1.0	58.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0712.0	0712.0	1.0	68.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1259.0	1259.0	U	78.0			QL=2 ST=2 TYP=3
	610	SVTO	8	S	1259.0	1259.0	U	110.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1422.0	1422.0	U	56.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1517.0	1517.8	1.2	8.0	4.0		9L
	245	PALE	49	GB	1810.0	1814.0	8.0	760.0			QL=4 ST=2 TYP=6
	410	PALE	4	S/F	1810.0	1814.0	8.0	89.0			QL=4 ST=2 TYP=3
	235	CUBA	7	C	1810.0	1812.1	2.6	736.0			
	280	CUBA	7	C	1810.0	1812.1	2.6	604.0			

Reports are received routinely from the following observatories:

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

Explanation of Type Code:

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

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

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