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

DECEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
01	245	SVTO	43	NS	0618.0	0742.0	204.0	210.0			QL=2 ST=2 TYP=1
	204	IZMI	44	NS	0700.0E		300.0D		65.0		
	127	TORN	44	NS	0700.0E		490.0D		20.0		V=2
	245	LEAR	43	NS	0702.0	0730.0	174.0	150.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1111.0	1225.0	227.0	180.0			QL=2 ST=2 TYP=1
	245	SGMR	43	NS	1217.0	1422.0	135.0	96.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	1300.0E		450.0D		18.0		
	235	CUBA	44	NS	1300.0E		530.0D		7.0		
	245	SGMR	43	NS	1610.0	1623.0	73.0	110.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2107.0	2137.0	173.0	240.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	2107.0	2107.0	173.0	100.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	2107.0	0027.0	173.0	440.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	2216.0	0140.0	626.0	530.0			QL=4 ST=2 TYP=1
	410	LEAR	43	NS	2220.0	0131.0	377.0	160.0			QL=4 ST=2 TYP=1
	410	PALE	43	NS	2340.0	0051.0	20.0	180.0			QL=4 ST=1 TYP=1
	410	PALE	43	NS	2340.0	0006.0	20.0	90.0			QL=4 ST=1 TYP=1
	410	PALE	43	NS	2340.0	2340.0	20.0	50.0			QL=4 ST=1 TYP=1
	2840	PEKG	45	C	0038.0	0041.7	6.0	10.6			
	200	HIRA	8	S	0536.0	0536.0	1.0	40.0			0
	245	LEAR	8	S	0620.0	0621.0	2.0	96.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0625.0	0625.0	U	58.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0636.0	0637.0	2.0	63.0			QL=4 ST=2 TYP=3
	600	GORK	46	C	0638.4	0639.1		7.6			
	600	GORK	46	C	0638.4	0638.6	1.0	6.4			
	2950	GORK	1	S	0725.4	0725.6	1.8	7.4			
	600	GORK	4	S/F	0747.9	0748.5	0.9	13.0			
	204	IZMI	42	SER	0827.4	0828.2	11.0	1657.0	3.0		
	245	SVTO	8	S	0903.0	0904.0	1.0	370.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0909.0	0909.0	U	250.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0909.0	0909.0	U	250.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	0909.0	0909.0	U	100.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0918.0	0918.0	U	87.0			QL=4 ST=2 TYP=3
	600	GORK	41	F	0918.5	0931.0	14.8	9.3			
	410	SVTO	8	S	0921.0	0921.0	U	71.0			QL=4 ST=2 TYP=3
	900	GORK	41	F	1045.3	1049.3		30.0			
	900	GORK	41	F	1045.3	1046.7	8.2	22.0			
	600	GORK	4	S/F	1051.6	1052.3	1.3	19.0			
	9100	GORK	1	S	1059.2	1100.9U	3.3	11.0U			
	410	SVTO	8	S	1132.0	1132.0	U	86.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	1202.5	1203.0	1.5				
	33	UPIC	46	C	1408.0	1409.0U	4.5				
	245	SGMR	8	S	1521.0	1521.0	1.0	180.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1937.0	1939.0	7.0	74.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1958.0	1958.0	1.0	96.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	2337.0	2337.0	1.0	620.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	2337.0	2337.0	1.0	700.0			QL=4 ST=2 TYP=6
02	245	SVTO	43	NS	0647.0	0647.0U	26.0	72.0			QL=2 ST=2 TYP=1
	204	IZMI	44	NS	0700.0E		300.0D		25.0		
	127	TORN	44	NS	0700.0E		490.0D		3.0		V=1
	410	PALE	43	NS	2105.0	2107.0	122.0	110.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2109.0	2329.0	267.0	430.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2220.0	2300.0U	182.0	630.0			QL=4 ST=2 TYP=1
	410	LEAR	8	S	0109.0	0109.0	1.0	270.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0109.0	0109.0	1.0	230.0			QL=4 ST=2 TYP=3
	600	GORK	8	S	0625.3	0625.5	0.6	27.0			
	600	GORK	3	S	0649.1	0649.2	0.3	6.7			
	600	GORK	46	C	0700.8	0704.2		19.0			
	600	GORK	46	C	0700.8	0702.7	7.5	40.0			
	900	GORK	46	C	0701.4	0704.3		11.0			
	900	GORK	46	C	0701.4	0703.3	4.9	14.0			
	2950	GORK	46	C	0702.5	0704.3		5.3			
	2950	GORK	46	C	0702.5	0703.9	2.1	4.9			
	204	IZMI	42	SER	0741.9	0742.8	1.2	208.0			
	3000	IZMI	22	GRF	0829.9	0830.4	10.5	16.0	6.0		
	2950	GORK	1	S	0830.0	0830.4	4.3	7.4			
	204	IZMI	41	F	0939.8	0939.9	0.4	98.0			
	245	LEAR	8	S	0946.0	0946.0	U	68.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1028.0	1028.0	1.0	54.0			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

DECEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
02	204	IZMI	42	SER	1033.9	1034.2	0.5	165.0			
	900	GORK	46	C	1043.8	1045.3		90.0			
	900	GORK	46	C	1043.8	1044.5	2.0	22.0			
	204	IZMI	42	SER	1045.8	1047.1	1.5	161.0			
	245	SGMR	8	S	1431.0	1432.0	1.0	63.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2207.0	2207.0	U	2100.0			QL=4 ST=2 TYP=6
03	127	TORN	44	NS	0700.0E		350.0D		1.0		V=0
	204	IZMI	43	NS	1042.5		77.5D		30.0		
	204	IZMI	42	SER	0712.7	0733.5	29.8	40.0			
	204	IZMI	42	SER	1045.2	1110.2	25.0	70.0			
04	127	TORN	43	NS	0730.0	0841.7	81.7	60.0	1.0		V=1
	204	IZMI	7	C	0850.5	0850.6	0.5	77.0			
05	127	TORN	44	NS	0710.0E		430.0D		6.0		V=2
	204	IZMI	43	NS	0828.0		179.0U		15.0		
	500	HIRA	8	S	0443.0	0443.0	1.0	90.0			0
	245	LEAR	8	S	0447.0	0447.0	1.0	210.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0721.0	0721.0	U	88.0			QL=4 ST=2 TYP=3
	8800	LEAR	20	GRF	0845.0	0901.0	68.0	77.0			QL=4 ST=2 TYP=2
	245	SVTO	8	S	0900.0	0901.0	2.0	67.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0941.4	0941.4	0.2	93.0			
	204	IZMI	7	C	1040.1	1040.1	0.1	79.0			
	245	SVTO	48	C	1129.0	1136.0	7.0	77.0			QL=4 ST=2 TYP=8
06	204	IZMI	44	NS	0700.0E		300.0D		5.0		
	127	TORN	44	NS	0710.0E		430.0D		1.0		V=0
	280	CUBA	44	NS	1610.0E		340.0D		66.0		
	235	CUBA	44	NS	1610.0E		340.0D		12.0		
	9100	GORK	3	S	0803.4	0803.7	1.0	18.0			
	245	LEAR	8	S	0853.0	0853.0	U	83.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0853.0	0853.0	1.0	75.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0902.0	0902.0	1.0	76.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0902.0	0902.0	1.0	72.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1005.2	1007.8	6.6	80.0			
	245	SVTO	8	S	1020.0	1021.0	1.0	62.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1324.0	1324.0	U	55.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1324.0	1324.0	1.0	50.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1403.0	1403.0	U	56.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1403.0	1403.0	1.0	47.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1422.0	1422.0	U	96.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1422.0	1422.0	U	80.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1513.0	1513.0	1.0	54.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1550.0	1551.0	1.0	57.0			QL=4 ST=2 TYP=3
	500	HIRA	4	S/F	2222.0	2227.0	20.0	60.0			0
	410	PALE	4	S/F	2223.0	2225.0	8.0	36.0			QL=4 ST=2 TYP=3
	610	PALE	4	S/F	2223.0	2226.0	8.0	64.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2223.0	2230.0	8.0	36.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	2223.0	2227.0	8.0	86.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2223.0	2227.0	8.0	75.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	2223.0	2225.0	8.0	58.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	2225.0	2225.0	3.0	33.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	2225.0	2226.0	6.0	77.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	2226.0	2226.0	1.0	48.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	2226.0	2227.0	1.0	23.0			QL=4 ST=2 TYP=3
	200	HIRA	3	S	2226.0	2238.0	22.0	40.0			0
	410	LEAR	8	S	2233.0	2235.0	2.0	51.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	2233.0	2235.0	8.0	390.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	2234.0	2235.0	5.0	89.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	2234.0	2241.0	7.0	250.0			QL=4 ST=2 TYP=3
07	280	CUBA	44	NS	1450.0E		420.0D		61.0		
	235	CUBA	44	NS	1450.0E		420.0D		12.0		
	245	PALE	49	GB	0019.0	0021.0	2.0	2500.0			QL=2 ST=3 TYP=6
	245	LEAR	8	S	0020.0	0020.0	U	210.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0113.0	0115.5	5.0	4.7			
	245	LEAR	8	S	0232.0	0233.0	1.0	84.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0240.0	0241.0	1.0	190.0			0

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

DECEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
07	204	IZMI	7	C	0721.7	0721.8	0.2	48.0			
	245	LEAR	8	S	0801.0	0801.0	U	61.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0801.0	0801.0	U	64.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0848.0	0848.0	0.1	13.0			
	245	SVTO	8	S	0955.0	0955.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1016.0	1016.0	1.0	120.0			QL=4 ST=2 TYP=3
08	235	CUBA	44	NS	1300.0E		530.0D		16.0		
	280	CUBA	44	NS	1450.0E		420.0D		61.0		
	410	SVTO	8	S	0814.0	0815.0	1.0	99.0			QL=4 ST=2 TYP=3
09	280	CUBA	44	NS	1300.0E		530.0D		63.0		
	235	CUBA	44	NS	1300.0E		530.0D		16.0		
	2950	GORK	1	S	0919.9	0920.2	1.1	5.6			
	3000	IZMI	5	S	0922.9	0923.2	0.5	8.0	4.0		
10	235	CUBA	44	NS	1420.0E		340.0D		14.0		
	280	CUBA	44	NS	1420.0E		340.0D		65.0		
11	127	TORN	44	NS	0700.0E		490.0D		4.0		V=0,DISTURBED
	280	CUBA	44	NS	1300.0E		240.0D		66.0		
	235	CUBA	44	NS	1300.0E		240.0D		12.0		
	410	LEAR	4	S/F	0129.0	0130.0	8.0	15.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0130.0	0130.0	7.0	100.0			QL=4 ST=2 TYP=3
12	127	TORN	44	NS	0720.0E		470.0D		2.0		V=0
	280	CUBA	44	NS	1300.0E		530.0D		74.0		
	235	CUBA	44	NS	1300.0E		530.0D		16.0		
	2840	PEKG	5	S	0444.0	0446.3	5.0	11.2			
	900	GORK	42	SER	0851.0	1003.0		17.0			
	600	GORK	42	SER	0851.0	0856.4	105.0	5.6			
	900	GORK	42	SER	0851.0	0905.5	91.5	15.0			
	600	GORK	42	SER	0851.0	0902.8		15.0			
	2950	GORK	22	GRF	0851.5	0902.4	36.1	8.3			
	204	IZMI	7	C	0902.2	0902.3	0.2	10.0			
	204	IZMI	7	C	0906.8	0906.9	0.2	10.0			
	204	IZMI	7	C	0908.5	0908.6	0.2	15.0			
	9500	CUBA	21	GRF	1440.0	1500.0	73.0	19.0	9.0		
	2695	SGMR	4	S/F	1441.0	1442.0	4.0	78.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1441.0	1442.9	3.5	19.0	9.0		
	4995	SGMR	4	S/F	1442.0	1442.0	3.0	69.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1442.0	1442.0	3.0	110.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1442.0	1442.0	1.0	55.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1442.0	1442.0	2.0	120.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1442.0	1442.0	2.0	59.0			QL=4 ST=2 TYP=3
13	127	TORN	44	NS	0720.0E		470.0D		16.0		V=1
	235	CUBA	44	NS	1300.0E		530.0D		20.0		
	280	CUBA	44	NS	1300.0E		530.0D		56.0		
	2840	PEKG	45	C	0215.0	0218.0	7.0	22.9			
	200	HIRA	8	S	0345.0	0345.0	1.0	40.0			WL
	3000	IZMI	22	GRF	0818.2	0819.7	7.1	10.0	4.0		
	600	GORK	4	S/F	0842.4	0842.6	1.0	26.0			
	900	GORK	40	F	0954.3	0954.6	2.0	20.0			
	33	UPIC	46	C	1101.0	1104.5	13.5				UNCERTN
	245	SGMR	8	S	1741.0	1742.0	2.0	74.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1741.0	1742.0	2.0	61.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1742.0	1742.0	U	81.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1742.0	1742.0	U	45.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1838.0	1838.0	U	400.0			QL=4 ST=3 TYP=3
	2695	PALE	8	S	2159.0	2200.0	2.0	39.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	2159.0	2200.0	1.0	23.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2200.0	2200.0	1.0	28.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2214.0	2214.0	U	160.0			QL=4 ST=2 TYP=3
14	127	TORN	44	NS	1110.0E		230.0D		20.0		V=0
	235	CUBA	44	NS	1400.0E		450.0D		22.0		
	280	CUBA	44	NS	1400.0E		450.0D		52.0		
	3000	IZMI	22	GRF	0910.7	0913.8	12.9	15.0	7.0		

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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
14	900	GORK	46	C	0924.2	0938.5		200.0			
	900	GORK	46	C	0924.2	0933.5	63.0	190.0			
	900	GORK	46	C	0924.2	0950.9		240.0			
	3000	IZMI	22	GRF	0925.6	0935.8	14.9	28.0	8.0		
	4995	SVTO	4	S/F	0930.0	0933.0	4.0	34.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0930.0	0930.0	2.0	130.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0930.0	0933.0	4.0	82.0			QL=4 ST=3 TYP=3
	1415	LEAR	4	S/F	0930.0	0930.0	11.0	150.0			QL=4 ST=2 TYP=3
	9100	GORK	20	GRF	0930.5	1000.0	90.0D	27.0			
	1415	SVTO	4	S/F	0935.0	0938.0	9.0	72.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0938.0	0938.0	1.0	47.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	0938.0	0938.0	6.0	81.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0942.8	0948.8	44.0	82.0			
	1415	LEAR	48	C	0945.0	0950.0	5.0	210.0			QL=4 ST=2 TYP=8
	1415	SVTO	4	S/F	0945.0	0950.0	6.0	180.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0945.0	0950.0	6.0	34.0			QL=4 ST=2 TYP=3
	2950	GORK	21	GRF	0945.0E	1000.1	75.0D	16.0U			
	4995	SVTO	4	S/F	0946.0	0948.0	3.0	6.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	0949.0	0950.0	4.0	160.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0950.0	0950.0	U	31.0			QL=4 ST=2 TYP=3
	3000	IZMI	45	C	0950.1	0950.2	0.3	941.0	145.0		
	600	GORK	46	C	0950.9	1009.3		55.0			
	600	GORK	46	C	0950.9	0957.5	43.9	70.0			
	600	GORK	46	C	0950.9	1004.7		50.0			
	410	LEAR	4	S/F	0954.0	0957.0	6.0	120.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0955.0	0957.0	2.0	61.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0956.0	0957.0	4.0	53.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0956.0	0957.0	3.0	130.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0956.0	0957.0	2.0	57.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0956.0	0957.0	2.0	110.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0956.0	0957.0	2.0	24.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1001.0	1002.0	1.0	120.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	1002.0E	1005.0	9.0D	97.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	1003.0E	1004.0	2.0D	53.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	1003.0	1004.0	2.0	71.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	1003.0	1005.0	3.0	64.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1003.0	1009.0	7.0	76.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1004.0	1009.0	6.0	42.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1004.0	1011.0	8.0	62.0			QL=4 ST=3 TYP=3
	2950	GORK	46	C	1004.8	1008.0		4.9			
	2950	GORK	46	C	1004.8	1006.3	6.2	32.0			
	2950	GORK	46	C	1004.8	1009.4		4.9			
	245	LEAR	8	S	1007.0E	1009.0	2.0D	29.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	1008.0	1009.0	1.0	64.0			QL=4 ST=2 TYP=3
	3000	IZMI	7	C	1008.6	1009.2	1.6	35.0	12.0		
	204	IZMI	7	C	1053.4	1053.5	0.3	11.0			
	245	SVTO	8	S	1302.0	1302.0	U	72.0			QL=4 ST=2 TYP=3
	6700	CUBA	20	GRF	1517.0	1525.0	31.0	17.0	8.0		9L
	2800	PENT	29	PBI	2040.0	2048.0	21.0	12.0			
	6700	CUBA	21	GRF	2042.0	2053.0	27.0D	11.0	5.0		00L
	6700	CUBA	2	S/F	2047.2	2048.6	2.0	19.0	9.0		13R
	200	HIRA	8	S	2214.0	2214.0	1.0	240.0			0
	200	HIRA	8	S	2332.0	2333.0	1.0	70.0			0
	245	LEAR	8	S	2332.0	2332.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2332.0	2332.0	1.0	150.0			QL=4 ST=2 TYP=3
15	127	TORN	44	NS	1020.0E		280.0D		11.0		V=0
	235	CUBA	44	NS	1300.0E		430.0D		23.0		
	280	CUBA	44	NS	1300.0E		530.0D		51.0		
	245	SGMR	43	NS	1906.0	1918.0	294.0	170.0			QL=4 ST=1 TYP=1
	200	HIRA	8	S	0211.0	0212.0	1.0	30.0			0
	245	LEAR	8	S	0211.0	0211.0	1.0	87.0			QL=4 ST=2 TYP=3
	9100	GORK	41	F	0745.7	0802.4		9.1			
	9100	GORK	41	F	0745.7	0746.5	30.3	6.1			
	2950	GORK	41	F	0748.7	0807.1		4.9			
	2950	GORK	41	F	0748.7	0802.3	26.6	4.9			
	900	GORK	41	F	0756.5	0802.2		5.6			
	900	GORK	41	F	0756.5	0758.5	12.2	3.4			
	600	GORK	2	S/F	0904.4	0904.6	0.4	6.2			

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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
15	600	GORK	8	S	0922.4	0922.5	0.4	28.0			
	900	GORK	1	S	0928.7	0929.6	3.3	6.7			
	600	GORK	1	S	0928.8	0929.5	2.4	3.4			
	2950	GORK	46	C	0928.9	0929.4	2.6	38.0			
	3000	IZMI	7	C	0928.9	0929.4	1.4	27.0	9.0		
	2950	GORK	46	C	0928.9	0929.7		30.0			
	9100	GORK	1	S	0929.3	0929.5	0.5	9.0			
	600	GORK	8	S	1042.8	1043.0	0.4	5.1			
	2950	GORK	2	S/F	1052.3	1055.6	5.5	7.4			
	900	GORK	41	F	1055.9	1056.1	1.1	120.0			
	900	GORK	41	F	1055.9	1056.4		37.0			
	2800	PENT	29	PBI	2117.0	2125.0	15.0U	11.0			
16	127	TORN	44	NS	0720.0E		470.0D		16.0		V=1
	235	CUBA	44	NS	1530.0E		270.0D		23.0		
	280	CUBA	44	NS	1530.0E		270.0D		51.0		
	900	GORK	40	F	0907.6	0907.8	1.4	9.0			
	2950	GORK	1	S	0910.6	0911.3	3.0	3.4			
	900	GORK	41	F	0922.2	0922.6	2.4	39.0			
	410	PALE	8	S	1751.0	1751.0	1.0	93.0			QL=4 ST=2 TYP=3
17	127	TORN	44	NS	0720.0E		230.0D		12.0		V=0
	280	CUBA	44	NS	1300.0E		240.0D		54.0		
	235	CUBA	44	NS	1300.0E		240.0D		28.0		
	610	LEAR	49	GB	0110.0	0111.0	1.0	680.0			QL=2 ST=2 TYP=6
	610	PALE	49	GB	0111.0	0111.0	U	860.0			QL=4 ST=2 TYP=6
	204	IZMI	7	C	0903.0	0903.1	0.3	9.0			
	245	SVTO	8	S	1141.0	1142.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1605.0	1605.0	1.0	91.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	2347.0	2348.0	2.0	92.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2347.0	2348.0	1.0	97.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2357.0	2357.0	1.0	40.0			0
18	280	CUBA	44	NS	1330.0E		210.0D		81.0		
	235	CUBA	44	NS	1330.0E		210.0D		27.0		
	2840	PEKG	1	S	0044.0	0047.9	6.0	5.1			
	2840	PEKG	20	GRF	0237.0	0239.9	12.0	16.2			
	245	LEAR	4	S/F	0238.0	0239.0	7.0	90.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0239.0	0240.0	1.0	260.0			0
	245	PALE	8	S	0239.0	0239.0	1.0	98.0			QL=4 ST=2 TYP=3
	200	HIRA	47	GB	0452.0	0452.0	1.0	570.0			0
	610	LEAR	8	S	0452.0	0452.0	1.0	64.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0452.0	0452.0	1.0	2200.0			QL=4 ST=2 TYP=6
	500	HIRA	8	S	0453.0	0453.0	1.0	130.0			WR
	200	HIRA	8	S	0456.0	0456.0	1.0	30.0			0
	500	HIRA	8	S	0528.0	0528.0	1.0	230.0			0
	200	HIRA	8	S	0528.0	0528.0	1.0	50.0			0
	245	LEAR	49	GB	0528.0	0528.0	U	560.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	0528.0	0528.0	U	270.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0707.9	0708.1	0.3	148.0			
	204	IZMI	42	SER	0711.7	0712.2	1.3	66.0			
	600	GORK	46	C	0716.4	0717.0		36.0			
	600	GORK	46	C	0716.4	0716.7	0.9	5.2			
	600	GORK	42	SER	0732.3	0801.3	161.2	20.0			
	600	GORK	42	SER	0732.3	0831.4		45.0U			
	410	LEAR	8	S	0823.0	0824.0	1.0	55.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0823.0	0824.0	1.0	56.0			QL=4 ST=2 TYP=3
	900	GORK	42	SER	0825.1	0842.8	69.3	10.0			
	900	GORK	42	SER	0825.1	0933.9		11.0			
	610	LEAR	8	S	0831.0	0831.0	U	220.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0831.0	0831.0	U	110.0			QL=4 ST=2 TYP=3
	2950	GORK	2	S/F	0838.1	0838.7	2.6	14.0			
	3000	IZMI	20	GRF	0838.2	0839.0	1.7	15.0	8.0		
	410	LEAR	8	S	0841.0	0841.0	2.0	82.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0841.0	0842.0	1.0	460.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0842.0	0842.0	1.0	430.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0842.0	0842.0	2.0	61.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0842.7	0842.8	0.9	9.0			
	3000	IZMI	7	C	0855.2	0856.3	1.4	6.0	3.0		

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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
18	204	IZMI	41	F	0936.6	0936.8	1.4	9.0			
	900	GORK	41	F	0942.8	0944.3		18.0			
	900	GORK	41	F	0942.8	0943.4	1.6	8.3			
	3000	IZMI	45	C	1105.6	1107.0	4.9	46.0	18.0		
	4995	SVTO	4	S/F	1106.0	1107.0	5.0	45.0			QL=4 ST=2 TYP=3
	1415	SVTO	49	GB	1106.0	1107.0	4.0	580.0			QL=4 ST=2 TYP=6
	2695	SVTO	4	S/F	1106.0	1107.0	7.0	54.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1108.0	1109.0	8.0	96.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	1108.0	1115.0	8.0	150.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	1108.0	1115.0	8.0	57.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	1108.0	1111.1	9.7	103.0			
	33	UPIC	46	C	1114.0	1114.8	2.5				
	4995	LEAR	8	S	2303.0	2304.0	2.0	41.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	2303.0	2304.0	2.0	55.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	2303.0	2305.0	2.0	23.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2304.0	2304.0	1.0	57.0			QL=4 ST=2 TYP=3
19	280	CUBA	44	NS	1600.0E		350.0D		77.0		
	235	CUBA	44	NS	1600.0E		350.0D		26.0		
	2840	PEKG	45	C	0454.0	0456.6	6.0	33.3			
	2840	PEKG	5	S	0611.0	0613.2	8.0	24.7			
	600	GORK	40	F	0750.5	0828.4	58.5	40.0U			
	204	IZMI	42	SER	0752.5	0752.7	0.5	39.0			
	900	GORK	42	SER	0756.7	0820.0U	51.8	140.0U			
	900	GORK	42	SER	0756.7	0830.8		34.0			
	204	IZMI	42	SER	0803.4	0803.7	2.7	46.0			
	204	IZMI	7	C	0814.9	0815.0	0.2	29.0			
	600	GORK	42	SER	0851.3	0931.1		10.0			
	600	GORK	42	SER	0851.3	0851.8	48.5	11.0			
	900	GORK	40	F	0931.2	0931.8	2.0	25.0			
	9100	GORK	2	S/F	0943.5	0943.6	0.4	25.0			
	9100	GORK	4	S/F	0956.0	0956.3	1.6	80.0			
	900	GORK	41	F	0958.8	1006.0		5.2			
	900	GORK	41	F	0958.8	0959.2	7.4	14.0			
	600	GORK	40	F	0959.5	0959.8	2.3	24.0			
	9100	GORK	42	SER	1005.8	1006.3	14.4	8.1			
	9100	GORK	42	SER	1005.8	1018.5		20.0			
	9100	GORK	42	SER	1005.8	1014.6		9.7			
	3000	IZMI	45	C	1015.7	1023.3	12.5	46.0	7.0		
	2950	GORK	46	C	1018.2	1023.3		46.0			
	600	GORK	46	C	1018.2	1018.4	1.1	8.3			
	900	GORK	46	C	1018.2	1021.5	11.0	10.0			
	600	GORK	46	C	1018.2	1018.7		11.0			
	900	GORK	46	C	1018.2	1022.9		48.0			
	2950	GORK	46	C	1018.2	1018.9	10.1	12.0			
	204	IZMI	42	SER	1018.4	1018.5	0.2	24.0			
	8800	LEAR	8	S	1022.0	1023.0	2.0	130.0			QL=4 ST=3 TYP=3
	15400	LEAR	8	S	1022.0	1023.0	2.0	170.0			QL=4 ST=3 TYP=3
	4995	LEAR	8	S	1022.0	1023.0	2.0	72.0			QL=4 ST=3 TYP=3
	1415	LEAR	8	S	1022.0	1023.0	2.0	27.0			QL=4 ST=3 TYP=3
	9100	GORK	46	C	1022.2	1023.2	5.1	160.0			
	9100	GORK	46	C	1022.2	1024.2		100.0			
	600	GORK	46	C	1022.4	1023.1	8.1	16.0			
	600	GORK	46	C	1022.4	1023.7		28.0			
	204	IZMI	42	SER	1022.8	1023.7	3.4	13.0			
	2695	LEAR	8	S	1023.0	1023.0	1.0	54.0			QL=4 ST=3 TYP=3
	9100	GORK	2	S/F	1035.0	1035.2	9.5	13.0			
	600	GORK	46	C	1037.4	1038.0		17.0			
	600	GORK	46	C	1037.4	1037.7	1.2	19.0			
	204	IZMI	46	C	1128.9	1129.2	3.0	229.0			
	245	SVTO	8	S	1129.0	1129.0	1.0	81.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1135.4	1135.4	0.6	11.0			
	204	IZMI	45	C	1138.4	1138.5	0.2	118.0			
	204	IZMI	7	C	1155.5	1155.6	0.4	9.0			
	245	SGMR	8	S	1257.0	1257.0	U	220.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1257.0	1257.0	1.0	240.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1413.0	1414.0	3.0	190.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1413.0	1415.0	3.0	210.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1413.0	1414.0	1.0	170.0			QL=4 ST=2 TYP=3

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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
19	410	SVTO	8	S	1414.0	1415.0	1.0	270.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1416.0	1416.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1416.0	1416.0	U	150.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1856.0	1858.0	5.0	9.0			
	245	SGMR	4	S/F	1930.0	1930.0	3.0	61.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2300.0	2300.0	1.0	45.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	2307.0	2307.0	U	36.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2307.0	2307.0	U	26.0			QL=4 ST=2 TYP=3
20	127	TORN	44	NS	1030.0E		210.0D		1.0		V=0
	280	CUBA	44	NS	1530.0E		330.0D		71.0		
	235	CUBA	44	NS	1530.0E		330.0D		30.0		
	200	HIRA	8	S	0321.0	0321.0	1.0	170.0			0
	2840	PEKG	45	C	0601.0	0603.7	8.0	44.5			
	4995	LEAR	8	S	0603.0	0603.0	1.0	71.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0603.0	0603.0	1.0	37.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0603.0	0603.0	1.0	320.0			QL=4 ST=2 TYP=3
	900	GORK	40	F	1044.5	1045.8	2.2	140.0			
	600	GORK	2	S/F	1047.7	1048.0	0.7	13.0			
	410	SVTO	8	S	1150.0	1151.0	1.0	140.0			QL=4 ST=2 TYP=3
	2800	PENT	20	GRF	2034.0	2040.0	12.0	3.0			
21	127	TORN	44	NS	0720.0E		470.0D		5.0		V=1
	280	CUBA	44	NS	1400.0E		470.0D		85.0		
	235	CUBA	44	NS	1400.0E		470.0D		23.0		
	200	HIRA	8	S	0147.0	0147.0	1.0	30.0			0
	33	UPIC	46	C	0701.0	0702.0	7.0				UNCERTN
	204	IZMI	42	SER	0733.2	0733.4	1.1	28.0			
	600	GORK	42	SER	0748.7	0749.2	9.5	7.9			
	600	GORK	42	SER	0748.7	0757.6		30.0			
	2950	GORK	23	GRF	0825.3	0859.0	135.0	8.6			
	2950	GORK	23	GRF	0825.3	0941.8		7.5			
	900	GORK	42	SER	0859.3	0941.0U		135.0U			
	900	GORK	42	SER	0859.3	1035.6		19.0			
	900	GORK	42	SER	0859.3	0859.7	97.7	22.0			
	600	GORK	2	S/F	0930.2	0930.5	0.5	18.0			
	9100	GORK	2	S/F	1029.0	1029.6	2.1	21.0			
	410	SVTO	8	S	1210.0	1211.0	2.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1211.0	1212.0	2.0	31.0			QL=4 ST=2 TYP=3
22	127	TORN	44	NS	0720.0E		230.0D		1.0		V=1
	235	CUBA	44	NS	1600.0E		330.0D		28.0		
	280	CUBA	44	NS	1600.0E		330.0D		77.0		
	410	LEAR	8	S	0605.0	0605.0	1.0	86.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0605.0	0605.0	1.0	67.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0606.0	0606.0	1.0	30.0			0
	600	GORK	2	S/F	1005.4	1005.5	0.3	3.6			
	9100	GORK	40	F	1005.8	1006.3	1.1	14.0			
	900	GORK	2	S/F	1006.8	1007.4	1.1	7.0			
	2950	GORK	2	S/F	1006.8	1009.5	5.1	8.6			
	600	GORK	46	C	1007.8	1009.2	4.0	17.0			
	600	GORK	46	C	1007.8	1009.9		16.0			
	3000	IZMI	5	S	1008.9	1009.5	1.0	10.0	5.0		
	6700	CUBA	1	S	1607.5	1607.7	0.7	9.0	4.0		00L
	245	SGMR	8	S	1659.0	1659.0	1.0	76.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	1932.5	1933.0	3.3	12.0	6.0		21L
	410	PALE	8	S	2014.0	2014.0	U	44.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2014.0	2016.0	2.0	280.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2014.0	2014.0	U	130.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	2014.0	2014.0	U	36.0			QL=2 ST=2 TYP=3
	6700	CUBA	1	S	2014.2	2014.5	0.8	14.0	7.0		00L
	2800	PENT	29	PBI	2034.0	2037.0	11.0	10.0			
	245	PALE	8	S	2128.0	2128.0	U	110.0			QL=4 ST=2 TYP=3
23	127	TORN	44	NS	0720.0E		470.0D		10.0		V=1
	245	LEAR	8	S	0232.0	0233.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0251.0	0252.0	1.0	55.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0251.0	0251.0	1.0	48.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0254.0	0254.0	1.0	37.0			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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DECEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
23	245	PALE	8	S	0254.0	0254.0	1.0	42.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0341.0	0342.0	1.0	42.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0455.0	0457.9	5.0	7.4			
	245	LEAR	8	S	0631.0	0631.0	U	73.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0717.7	0717.8	0.3	34.0			
	600	GORK	22	GRF	0853.3	0854.6	12.7	3.0			
	600	GORK	22	GRF	0853.3	0904.8		3.0			
	900	GORK	46	C	0854.9	0855.6U	1.3	130.0U			
	127	TORN	27	RF	1240.8	1256.8	67.0	100.0	30.0		
	245	SGMR	4	S/F	1242.0	1247.0	6.0	150.0			QL=4 ST=2 TYP=3
	245	SVTO	48	C	1242.0	1247.0	8.0	180.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	1254.0	1254.0	1.0	94.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	1737.0	1737.0	1.0	61.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1817.0	1817.0	U	72.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1911.0	1911.0	U	58.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	2111.0	2114.0	6.0	5.0			
24	245	LEAR	43	NS	0608.0	0746.0	112.0	130.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0720.0E		460.0D		2.0		V=1
	245	SVTO	43	NS	0732.0	0746.0	29.0	130.0			QL=4 ST=2 TYP=1
	2840	PEKG	45	C	0100.0	0102.4	11.0	24.0			
	200	HIRA	8	S	0101.0	0102.0	2.0	40.0			0
	500	HIRA	8	S	0101.0	0102.0	1.0	110.0			0
	4995	LEAR	8	S	0101.0	0102.0	1.0	32.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0101.0	0102.0	1.0	130.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0101.0	0102.0	1.0	20.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0101.0	0102.0	1.0	9.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0101.0	0102.0	1.0	180.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0102.0	0102.0	2.0	44.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0102.0	0102.0	U	140.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0102.0	0102.0	U	250.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0107.0	0108.0	2.0	40.0			0
	4995	LEAR	8	S	0107.0	0107.0	2.0	33.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0107.0	0107.0	2.0	31.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0107.0	0107.0	2.0	83.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0107.0	0107.0	1.0	100.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0107.0	0107.0	1.0	32.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0107.0	0108.0	1.0	33.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0246.0	0248.0	2.0	130.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0246.0	0248.0	2.0	180.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0608.0	0610.0	2.0	40.0			WR
	8800	SVTO	8	S	0648.0	0649.0	1.0	57.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0649.0	0649.0	U	53.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0649.0	0649.0	U	27.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0649.0	0649.0	U	46.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0649.0	0649.0	U	24.0			QL=2 ST=2 TYP=3
	204	IZMI	25	R	0700.0E		18.0D		60.0		
	245	SVTO	8	S	0703.0	0705.0	2.0	140.0			QL=4 ST=2 TYP=3
	204	IZMI	25	R	0958.0E		132.0D		30.0		
	8800	SVTO	20	GRF	1105.0	1106.0	26.0	24.0			QL=4 ST=2 TYP=2
	4995	SVTO	20	GRF	1105.0	1111.0	31.0	18.0			QL=4 ST=2 TYP=2
	15400	SVTO	20	GRF	1105.0	1113.0	31.0	14.0			QL=4 ST=2 TYP=2
	245	SVTO	48	C	1108.0	1117.0	21.0	110.0			QL=4 ST=2 TYP=8
	2695	SVTO	4	S/F	1109.0	1110.0	3.0	24.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1109.0	1111.0	3.0	20.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	1112.9	1113.3	0.5	143.0			
	245	SVTO	8	S	1145.0	1146.0	2.0	73.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1256.0	1256.0	2.0	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1256.0	1256.0	U	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1402.0	1402.0	2.0	86.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1402.0	1402.0	1.0	69.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1502.0	1502.0	U	61.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1616.0	1616.0	U	62.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1936.0	1937.0	2.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1937.0	1937.0	1.0	150.0			QL=4 ST=2 TYP=3
25	500	HIRA	8	S	0157.0	0158.0	1.0	200.0			0
	900	GORK	4	S/F	1005.1	1006.0U	1.7	140.0U			
	9100	GORK	8	S	1010.6	1010.8	0.4	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	204	IZMI	43	NS	1012.0		103.0U		5.0		
	204	IZMI	7	C	0929.6	0929.8	0.3	8.0			
	204	IZMI	45	C	0944.5	0944.6	0.2	373.0			
	900	GORK	45	C	1014.6	1015.0	0.6	7.9			
	900	GORK	46	C	1019.1	1020.1		46.0			
	900	GORK	46	C	1019.1	1019.5	1.5	37.0			
	9100	GORK	1	S	1019.5	1019.9	1.0	9.5			
	900	GORK	8	S	1027.2	1027.3	0.8	100.0			
	2950	GORK	2	S/F	1030.0	1031.4	2.5	8.3			
	9100	GORK	1	S	1031.1	1031.5	0.7	8.2			
	9100	GORK	46	C	1042.0	1046.0		12.0			
	9100	GORK	46	C	1042.0	1043.5	6.3	11.0			
	2950	GORK	46	C	1043.3	1045.3		8.4			
	2950	GORK	46	C	1043.3	1043.6	5.7	6.3			
	900	GORK	41	F	1044.5	1050.1		10.0			
	900	GORK	41	F	1044.5	1047.5	6.0	38.0			
	2950	GORK	2	S/F	1052.7	1053.7	3.8	10.0			
	9100	GORK	1	S	1053.0	1053.8	4.1	14.0			
27	235	CUBA	44	NS	1300.0E		240.0D		22.0		
	280	CUBA	44	NS	1300.0E		240.0D		78.0		
	204	IZMI	42	SER	0719.8	0720.3	0.6	13.0			
	204	IZMI	41	F	0934.2	0934.3	0.6	9.0			
	204	IZMI	42	SER	1031.8	1032.2	0.6	44.0			
	204	IZMI	41	F	1144.8	1144.9	0.3	20.0			
	6700	CUBA	21	GRF	1530.0	1545.0	67.0	23.0	11.0		00R
	6700	CUBA	2	S/F	1532.0	1533.0	2.0	11.0	5.0		25R
	245	SGMR	4	S/F	1535.0	1539.0	7.0	58.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1535.0	1540.0	14.0	380.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1538.0	1540.0	12.0	200.0			QL=4 ST=2 TYP=3
	9500	CUBA	46	C	1538.2	1540.2	5.0	179.0			
	4995	SGMR	4	S/F	1539.0	1540.0	11.0	110.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1539.0	1539.0	11.0	38.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1539.0	1540.0	11.0	48.0			QL=4 ST=2 TYP=3
	6700	CUBA	46	C	1539.0	1540.3	4.0	157.0			4R COMPLEX POL
	245	SGMR	8	S	1623.0	1624.0	1.0	82.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1735.0	1737.0	6.0	1600.0			QL=4 ST=2 TYP=6
	4995	SGMR	4	S/F	1735.0	1738.0	6.0	41.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	1736.0	1737.0	6.0	250.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1736.0	1737.0	5.0	210.0			QL=4 ST=2 TYP=3
	9500	CUBA	45	C	1736.2	1737.0	1.1	52.0			
	245	PALE	49	GB	1737.0	1737.0	U	1400.0			QL=4 ST=2 TYP=6
	610	SGMR	4	S/F	1737.0	1738.0	4.0	26.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1737.0	1737.0	4.0	48.0			QL=4 ST=3 TYP=3
	15400	SGMR	4	S/F	1737.0	1737.0	4.0	35.0			QL=4 ST=3 TYP=3
	6700	CUBA	45	C	1737.3	1738.0	1.2	57.0			7R
	245	SGMR	8	S	1742.0	1743.0	1.0	75.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1743.0	1743.0	U	88.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1816.9	1817.3	1.6	47.0	23.0		
	6700	CUBA	1	S	1817.9	1818.4	1.3	14.0	7.0		32L
	15400	SGMR	8	S	1818.0	1818.0	U	95.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1818.0	1818.0	U	46.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1835.0	1835.0	U	200.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1835.0	1835.0	1.0	170.0			QL=4 ST=2 TYP=3
	6700	CUBA	21	GRF	1851.0	2123.0	207.0D	27.0	13.0		00R SUNSET
	2800	PENT	1	S	2128.0	2130.0	3.0	4.0			
28	280	CUBA	44	NS	1400.0E		470.0D		72.0		
	235	CUBA	44	NS	1400.0E		470.0D		21.0		
	2840	PEKG	5	S	0205.0	0206.0	4.0	13.1			
	15400	LEAR	8	S	0245.0	0246.0	1.0	66.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0246.0	0246.0	U	26.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0410.0	0413.9	7.0	23.5			
	15400	LEAR	8	S	0412.0	0412.0	2.0	64.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0412.0	0412.0	2.0	98.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0412.0	0413.0	2.0	58.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0421.0	0422.0	1.0	51.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0502.0	0502.0	1.0	65.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	1027.9	1027.9	0.3	40.0			

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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
28	410	SVTO	8	S	1211.0	1211.0	1.0	69.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2337.0	2337.0	1.0	240.0			QL=4 ST=2 TYP=3
29	204	IZMI	43	NS	0700.0		300.0D		5.0		
	127	TORN	44	NS	1240.0E		80.0D		4.0		V=0
	235	CUBA	44	NS	1300.0E		530.0D		22.0		
	280	CUBA	44	NS	1300.0E		530.0D		88.0		
	8800	LEAR	20	GRF	0204.0	0220.0	48.0	29.0			QL=4 ST=2 TYP=2
	15400	LEAR	20	GRF	0211.0	0219.0	40.0	26.0			QL=4 ST=2 TYP=2
	500	HIRA	7	C	0223.0	0228.0	9.0	40.0			
	245	PALE	8	S	0238.0	0240.0	2.0	75.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0239.0	0239.0	1.0	65.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	1155.9	1156.1	0.9	15.0			
	6700	CUBA	21	GRF	1839.0	1849.0	45.0	13.0	6.0		00R
	2800	PENT	40	F	1842.0	1845.0	19.0	10.0			
	6700	CUBA	3	S	1844.0	1845.4	5.0	108.0	54.0		8R
	15400	SGMR	8	S	1845.0	1845.0	U	54.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1845.0	1845.0	1.0	110.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1845.0	1845.0	1.0	75.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2328.0	2329.0	1.0	60.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2339.0	2340.0	2.0	60.0			0
30	204	IZMI	44	NS	0700.0E		300.0D		70.0		
	245	LEAR	43	NS	0704.0	0903.0	192.0	170.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0720.0E		470.0D		7.0		V=2
	245	SVTO	43	NS	0733.0	0917.0	173.0	190.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1330.0	1337.0U	19.0	240.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1350.0E		320.0D		43.0		
	280	CUBA	44	NS	1350.0E		320.0D		117.0		
	245	LEAR	43	NS	2228.0	2235.0	30.0	81.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0002.0	0002.0	U	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0209.0	0209.0	1.0	190.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0209.0	0209.0	U	310.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0449.0	0449.0	U	69.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0507.0	0509.0	5.0	19.1			
	200	HIRA	8	S	0510.0	0510.0	1.0	440.0			0
	245	LEAR	49	GB	0510.0	0510.0	U	550.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	0510.0	0510.0	U	61.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0545.0	0545.0	1.0	110.0			0
	245	LEAR	8	S	0545.0	0545.0	U	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0559.0	0559.0	1.0	63.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0601.0	0603.0	2.0	91.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0632.0	0634.0	2.0	29.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0639.0	0639.0	1.0	60.0			0
	245	LEAR	48	C	0914.0	0917.0	7.0	250.0			QL=4 ST=2 TYP=8
	2950	GORK	20	GRF	1019.5	1026.9	25.5D	9.6			
	3000	IZMI	22	GRF	1022.7	1030.8	29.3U	17.0	10.0		
	9100	GORK	20	GRF	1024.0	1040.4	21.0D	14.6			
	410	SVTO	4	S/F	1100.0	1108.0	9.0	51.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1108.0	1108.0	1.0	51.0			QL=4 ST=3 TYP=3
	410	SVTO	8	S	1108.0	1108.0	1.0	49.0			QL=4 ST=3 TYP=3
	410	SVTO	8	S	1113.0	1113.0	U	50.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1220.0	1220.0	U	83.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1235.0	1235.0	1.0	97.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1248.0	1248.0	1.0	83.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1305.0	1305.0	1.0	72.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1320.0	1322.0	4.0	54.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1335.0	1337.0	2.0	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1348.0	1349.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1436.0	1436.0	U	69.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1447.0	1447.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1447.0	1447.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1506.0	1507.0	1.0	120.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1535.0	1535.0	2.0	110.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1714.0	1714.0	U	290.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	1845.0	1845.0	U	51.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	1845.0	1845.0	U	44.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2235.0	2236.0	1.0	120.0			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

DECEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
31	245	LEAR	43	NS	0325.0	0327.0	249.0	68.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0700.0E		300.0D		70.0		
	127	TORN	44	NS	0720.0E		470.0D		1.0		V=1
	245	LEAR	43	NS	0840.0	0840.0	34.0	270.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	1340.0E		360.0D		91.0		
	235	CUBA	44	NS	1340.0E		360.0D		26.0		
	2840	PEKG	5	S	0432.0	0434.1	5.0	11.4			
	245	LEAR	8	S	0650.0	0650.0	U	100.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0820.0	0820.0	1.0	81.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1511.0	1511.0	U	81.0			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.