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

APRIL 2005

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	SGMR	8	S	2134.0	2134.0	U	55.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	2151.0	2155.0	5.0	56.0			QL=4 ST=2 TYP=3
04	127	TORN	43	NS	0720.0		380.0		3.0		V=1
05	245	PALE	8	S	0041.0	0041.0	1.0	110.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0041.0	0041.0	U	58.0			QL=4 ST=2 TYP=3
06	4995	LEAR	8	S	0618.0	0618.0	U	58.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0624.0	0624.0	U	53.0			QL=4 ST=2 TYP=3
	33	UPIC	3	S	1150.0	1150.2	1.0				UNCERTN
08	127	TORN	43	NS	1145.0		145.0		7.0		V=1
11	127	TORN	43	NS	0920.0		260.0		5.0		V=0
	2840	PEKG	1	S	0115.0	0117.3	4.0	9.4			
	2804	VORO	2	S/F	0116.9	0117.2	1.2	5.7			
	2840	PEKG	5	S	0130.0	0132.7	8.0	11.4			
	2804	VORO	1	S	0132.3	0132.7	1.0	7.7			
	2840	PEKG	1	S	0200.0	0203.6	5.0	6.3			
	2804	VORO	4	S/F	0203.1	0203.7	1.3	10.9			
	2800	HIRA	8	S	0204.0	0204.0	1.0	10.0			0
	2804	VORO	8	S	0232.7	0232.8	0.5	3.9			
	2840	PEKG	1	S	0249.0	0250.2	4.0	5.4			
	2804	VORO	2	S/F	0250.3	0250.6	1.0	5.7			
	2840	PEKG	1	S	0824.0	0827.3	7.0	5.3			
	900	GORK	41	F	0825.2	0826.0	2.4	35.0			
	900	GORK	41	F	0825.2	0827.3		156.0			
	2950	GORK	41	F	0826.7	0827.1	3.1	5.1			
	2950	GORK	41	F	0826.7	0829.1		2.6			
	245	PALE	8	S	1737.0	1737.0	U	190.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1737.0	1737.0	U	150.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1821.0	1821.0	U	68.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1821.0	1821.0	U	70.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2058.0	2058.0	U	280.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	2058.0	2058.0	U	230.0			QL=4 ST=2 TYP=3
12	127	TORN	43	NS	1000.0		250.0		5.0		V=0
	245	LEAR	8	S	0345.0	0345.0	U	81.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0348.0	0349.0	1.0	310.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0349.0	0349.0	1.0	280.0			QL=4 ST=2 TYP=3
13	127	TORN	44	NS	1117.0E		33.0D		5.0		V=1
14	127	TORN	43	NS	0943.0		317.0		4.0		V=0
15	245	LEAR	8	S	0505.0	0505.0	U	83.0			QL=4 ST=2 TYP=3
16	127	TORN	43	NS	0938.0		322.0		5.0		V=0
	235	CUBA	44	NS	1930.0E		360.0D		19.0		
17	127	TORN	43	NS	0712.0		468.0		11.0		V=2
	2840	PEKG	45	C	0134.0	0139.1	11.0	16.2			
	2800	HIRA	7	C	0138.0	0139.0	3.0	15.0			
	245	LEAR	49	GB	0138.0	0138.0	1.0	640.0			QL=4 ST=2 TYP=6
	410	LEAR	49	GB	0138.0	0138.0	1.0	660.0			QL=4 ST=2 TYP=6
	610	LEAR	49	GB	0138.0	0139.0	1.0	550.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	0138.0	0139.0	1.0	600.0			QL=4 ST=2 TYP=6
	410	PALE	49	GB	0138.0	0139.0	2.0	740.0			QL=4 ST=2 TYP=6
	610	PALE	49	GB	0138.0	0139.0	1.0	650.0			QL=4 ST=2 TYP=6
	2840	PEKG	1	S	0247.0	0249.4	5.0	5.8			
	33	UPIC	46	C	1222.5	1224.0	3.5				
	245	SGMR	8	S	1223.0	1223.0	U	98.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1223.0	1223.0	U	97.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1223.0	1223.0	U	43.0			QL=4 ST=2 TYP=3
	2800	PENT	3	S	2059.0	2103.0	19.1	58.0			
	2695	SGMR	8	S	2103.0	2103.0	1.0	51.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	2103.0	2104.0	2.0	75.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	2103.5	2104.1	4.8	33.0	16.0		

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17	2695	PALE	8	S	2104.0	2104.0	1.0	63.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2104.0	2104.0	1.0	74.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2312.0	2312.0	U	63.0			QL=4 ST=2 TYP=3
18	127	TORN	44	NS	0630.0E		510.0D		13.0		V=2
	2950	GORK	2	S/F	0622.2	0623.2	1.4	2.0			
	245	LEAR	8	S	0635.0	0635.0	U	63.0			QL=4 ST=2 TYP=3
19	127	TORN	43	NS	0936.0		240.0		5.0		V=0
	900	GORK	42	SER	0741.0	0815.0		120.0			
	900	GORK	42	SER	0741.0	0752.4	67.0	49.0			
	2950	GORK	22	GRF	0809.0	0814.7		2.9			
	2950	GORK	22	GRF	0809.0	0809.8	9.4	2.9			
	2950	GORK	1	S	0821.0	0821.3	1.1	2.9			
	2950	GORK	1	S	0822.7	0823.1	0.7	2.9			
	2950	GORK	5	S	0824.1	0827.4	3.8	3.9			
	2950	GORK	1	S	0828.5	0829.0	1.1	2.0			
	9100	GORK	40	F	0859.6	0900.3	1.5	16.0			
	9100	GORK	46	C	0919.0	0920.7		18.0			
	9100	GORK	46	C	0919.0	0919.9	2.5	23.0			
	9100	GORK	46	C	0950.8	0953.2		50.0			
	9100	GORK	46	C	0950.8	0952.3	2.7	16.0			
20	127	TORN	43	NS	0935.0		325.0		5.0		V=1
	245	LEAR	8	S	0655.0	0655.0	U	59.0			QL=4 ST=2 TYP=3
	9100	GORK	4	S/F	0729.7	0730.0	1.1	56.0			
	127	TORN	49	GB	0838.7	0845.8	18.2	540.0	360.0		
23	127	TORN	43	NS	1110.0		95.0		4.0		V=0
24	9100	GORK	4	S/F	0647.2	0647.7	0.8	75.0			
25	9100	GORK	2	S/F	0703.6	0704.4	2.5	18.0			
	2950	GORK	2	S/F	0704.0	0704.3	1.6	2.2			
26	127	TORN	43	NS	0845.0		375.0		5.0		V=1
27	127	TORN	43	NS	0905.0		355.0		7.0		V=1,DISTURBED
28	127	TORN	44	NS	1252.0E		78.0D		7.0		V=1
	33	UPIC	45	C	0830.5	0831.0	1.0				
	33	UPIC	40	F	1431.0	1434.0U	4.0				
	245	PALE	8	S	1927.0	1927.0	U	69.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1927.0	1927.0	U	75.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2007.0	2007.0	U	57.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2039.0	2039.0	U	57.0			QL=4 ST=2 TYP=3
29	127	TORN	43	NS	0930.0		180.0D		5.0		V=1
	2840	PEKG	5	S	0015.0	0018.9	6.0	12.7			
	2800	PENT	1	S	0016.0	0019.0	6.2	10.0			
	2950	GORK	1	S	0644.5	0645.2	1.6	4.7			
	2695	SGMR	8	S	1124.0	1124.0	U	58.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1124.0	1124.0	U	78.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1928.0	1928.0	U	58.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1929.0	1929.0	U	83.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1931.0	1931.0	U	70.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1934.0	1934.0	U	59.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1938.0	1938.0	U	52.0			QL=4 ST=2 TYP=3
	2800	PENT	20	GRF	2019.0	2037.0	71.5	26.0			
	4995	SGMR	4	S/F	2035.0	2037.0	7.0	80.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	2036.0	2037.0	2.0	30.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2036.0	2037.0	2.0	37.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2037.0	2037.0	U	52.0			QL=4 ST=2 TYP=3
30	127	TORN	43	NS	0807.0		293.0		7.0		V=1
	8800	LEAR	8	S	0254.0	0254.0	1.0	65.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0254.0	0254.0	U	52.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0255.0	0255.0	U	51.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0339.0	0339.0	U	54.0			QL=4 ST=2 TYP=3

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30	33	UPIC	45 C	1213.0	1214.0	1.5				
	15400	SGMR	8 S	1851.0E	1852.0	1.0D	47.0			QL=2 ST=2 TYP=3
	15400	PALE	8 S	1852.0	1852.0	U	82.0			QL=4 ST=2 TYP=3
	410	PALE	49 GB	2319.0	2319.0	U	2300.0			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.