SOLAR RADIO EMISSION
Selected Fixed Frequency Events

JULY 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	8800	SVTO	4	S/F	0458.0	0459.0	3.0	81.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0459.0	0459.0	U	65.0			QL=4 ST=3 TYP=3
	2695	SVTO	4	S/F	0459.0	0459.0	3.0	51.0			QL=4 ST=2 TYP=3
02	2695	PALE	8	S	0352.0	0352.0	U	76.0			QL=4 ST=2 TYP=3
06	8800	LEAR	8	S	0846.0	0846.0	1.0	110.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0846.0	0846.0	1.0	97.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0846.0	0846.0	U	26.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1300.0	1300.0	U	23.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1300.0	1300.0	U	25.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1300.0	1300.0	U	49.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1300.0	1300.0	U	35.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1747.0	1747.0	U	69.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1747.0	1747.0	U	76.0			QL=4 ST=2 TYP=3
07	8800	SVTO	4	S/F	1612.0	1621.0	468.0	66.0			QL=4 ST=1 TYP=3
	2695	SGMR	48	C	1615.0	1628.0	18.0	180.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	1616.0	1628.0	17.0	160.0			QL=4 ST=2 TYP=8
	8800	SGMR	20	GRF	1617.0	1628.0	20.0	100.0			QL=4 ST=2 TYP=2
	8800	SVTO	4	S/F	1621.0	1626.0	8.0	74.0			QL=4 ST=2 TYP=3
09	2695	SGMR	4	S/F	2036.0	2037.0	9.0	55.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2043.0	2043.0	U	77.0			QL=4 ST=2 TYP=3
	2695	SGMR	49	GB	2150.0	2208.0	31.0	1600.0			QL=4 ST=2 TYP=6
	2695	PALE	49	GB	2155.0	2208.0	18.0	1500.0			QL=4 ST=3 TYP=6
	8800	SGMR	48	C	2155.0	2206.0	29.0	1000.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	2156.0	2208.0	17.0	1000.0			QL=4 ST=3 TYP=8
11	2695	SVTO	4	S/F	1500.0	1506.0	7.0	180.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1505.0	1506.0	1.0	150.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1505.0	1505.0	U	22.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1515.0	1516.0	1.0	32.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1635.0	1639.0	8.0	81.0			QL=2 ST=2 TYP=3
	8800	SGMR	8	S	2136.0	2136.0	U	28.0			QL=4 ST=2 TYP=3
12	8800	LEAR	8	S	0801.0	0802.0	2.0	43.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0801.0	0802.0	3.0	40.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0801.0	0802.0	3.0	38.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0802.0	0802.0	1.0	23.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1255.0	1300.0	8.0	320.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1256.0	1300.0	7.0	230.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1257.0	1300.0	5.0	65.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1257.0	1300.0	5.0	65.0			QL=4 ST=2 TYP=3
	2695	SVTO	48	C	1622.0	1651.0	47.0	750.0			QL=4 ST=2 TYP=8
	2695	SGMR	4	S/F	1628.0	1639.0	16.0	100.0			QL=4 ST=2 TYP=3
	8800	SVTO	48	C	1636.0	1650.0	27.0	500.0			QL=4 ST=2 TYP=8
	2695	PALE	48	C	1636.0E	1651.0U	29.0D	790.0			QL=4 ST=2 TYP=8
	2695	SGMR	49	GB	1647.0	1651.0	18.0	750.0			QL=4 ST=2 TYP=6
	8800	SGMR	49	GB	1647.0	1650.0	19.0	700.0			QL=4 ST=2 TYP=6
	8800	PALE	48	C	1648.0E	1650.0U	19.0D	800.0			QL=4 ST=2 TYP=8
13	2695	LEAR	48	C	0239.0	0246.0	45.0	250.0			QL=4 ST=2 TYP=8
	2695	PALE	4	S/F	0239.0	0246.0	1281.0	290.0			QL=4 ST=3 TYP=3
	8800	LEAR	48	C	0240.0	0246.0	51.0	420.0			QL=4 ST=2 TYP=8
	8800	PALE	4	S/F	0240.0	0246.0	1280.0	370.0			QL=4 ST=3 TYP=3
	2695	SGMR	8	S	1216.0	1217.0	1.0	67.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1216.0	1217.0	1.0	31.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1216.0	1216.0	1.0	67.0			QL=4 ST=2 TYP=3
	8800	SVTO	48	C	1359.0	1417.0	48.0	4700.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	1359.0	1419.0	48.0	1900.0			QL=4 ST=2 TYP=8
	2695	SGMR	49	GB	1401.0	1419.0	42.0	2000.0			QL=4 ST=2 TYP=6
	8800	SGMR	48	C	1401.0	1417.0	63.0	5100.0			QL=4 ST=2 TYP=8
	2695	PALE	8	S	2152.0	2152.0	1.0	250.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2152.0	2152.0	1.0	150.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2152.0	2152.0	U	150.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	2152.0	2152.0	1.0	240.0			QL=4 ST=2 TYP=3
14	2695	LEAR	8	S	0151.0	0151.0	1.0	26.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N
Selected Fixed Frequency Events

JULY 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
14	8800	LEAR	8	S	0604.0	0604.0	U	66.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0604.0	0604.0	U	81.0			QL=4 ST=3 TYP=3
	8800	LEAR	49	GB	0722.0	0723.0	1.0	820.0			QL=4 ST=2 TYP=6
	2695	LEAR	8	S	0722.0	0723.0	1.0	220.0			QL=4 ST=2 TYP=3
	8800	SVTO	48	C	1020.0	1034.0	85.0	5300.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1021.0	1059.0	75.0	3100.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	1021.0	1059.0	75.0	3400.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1021.0	1034.0	101.0	3600.0			QL=4 ST=2 TYP=8
	2695	PALE	8	S	2254.0	2255.0	1.0	100.0			QL=4 ST=2 TYP=3
15	2695	SGMR	4	S/F	2049.0	2051.0	9.0	290.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2051.0	2053.0	8.0	120.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2051.0	2051.0	9.0	280.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2051.0	2052.0	8.0	120.0			QL=4 ST=2 TYP=3
27	2695	LEAR	48	C	0444.0	0506.0	57.0	800.0			QL=4 ST=2 TYP=8
	2695	PALE	49	GB	0445.0	0457.0	12.0	720.0			QL=4 ST=2 TYP=6
	2695	SVTO	48	C	0446.0	0506.0	51.0	770.0			QL=2 ST=2 TYP=8
	8800	LEAR	48	C	0447.0	0456.0	48.0	1200.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	0449.0	0457.0	36.0	910.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	0454.0	0457.0	3.0	610.0			QL=4 ST=2 TYP=8
28	8800	SGMR	48	C	2142.0	2153.0	38.0	1700.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	2149.0	2154.0	15.0	1300.0			QL=4 ST=2 TYP=8
	2695	SGMR	4	S/F	2150.0	2154.0	19.0	60.0			QL=4 ST=2 TYP=3
29	8800	SGMR	8	S	1730.0	1731.0	1.0	63.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1731.0	1731.0	U	38.0			QL=4 ST=2 TYP=3
30	2695	SVTO	4	S/F	0511.0	0512.0	10.0	46.0			QL=4 ST=2 TYP=3
	2695	LEAR	48	C	0619.0	0636.0	59.0	2100.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	0619.0	0636.0	95.0	2100.0			QL=4 ST=2 TYP=8
	8800	LEAR	48	C	0620.0	0632.0	35.0	3000.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	0620.0	0632.0	55.0	3200.0			QL=4 ST=2 TYP=8
	2695	LEAR	20	GRF	0734.0	0751.0	20.0	68.0			QL=4 ST=2 TYP=2
	8800	SVTO	4	S/F	1646.0	1647.0	13.0	260.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1646.0	1647.0	23.0	320.0			QL=4 ST=2 TYP=3
	8800	PALE	48	C	1647.0	1647.0	15.0	320.0			QL=4 ST=2 TYP=8
	2695	SGMR	4	S/F	1647.0	1647.0	14.0	30.0			QL=4 ST=2 TYP=3
31	8800	LEAR	8	S	0911.0	0912.0	2.0	79.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0912.0	0912.0	1.0	41.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0912.0	0912.0	3.0	95.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1218.0	1220.0	8.0	190.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1218.0	1220.0	10.0	180.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1219.0	1220.0	2.0	51.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1219.0	1220.0	10.0	60.0			QL=4 ST=2 TYP=3

Reports are received routinely from the following observatories:
LEAR = Learmonth PALE = Palehua SGMR = Sagamore Hill SVTO = San Vito

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.