SOLAR RADIO EMISSION
Selected Fixed Frequency Events

SEPTEMBER 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	Int	Remarks
01	2695	PALE	8	S	1814.0	1814.0	1.0	130.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1814.0	1814.0	7.0	110.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1815.0	1821.0	8.0	20.0			QL=4 ST=2 TYP=3
05	2695	LEAR	8	S	0005.0	0006.0	2.0	100.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0005.0	0006.0	5.0	71.0			QL=4 ST=2 TYP=3
12	8800	SVTO	20	GRF	1148.0	1222.0	732.0	45.0			QL=4 ST=1 TYP=2
	2695	SVTO	20	GRF	1149.0	1222.0	731.0	40.0			QL=4 ST=1 TYP=2
	8800	SVTO	20	GRF	1154.0	1222.0	93.0	45.0			QL=4 ST=2 TYP=2
	2695	SVTO	20	GRF	1158.0	1222.0	89.0	40.0			QL=4 ST=2 TYP=2
	2695	SGMR	20	GRF	1210.0	1325.0	95.0	54.0			QL=4 ST=2 TYP=2
14	2695	SGMR	4	S/F	1443.0	1444.0	9.0	94.0			QL=4 ST=2 TYP=3
	2695	SVTO	20	GRF	1443.0	1444.0	10.0	120.0			QL=4 ST=2 TYP=2
	8800	SVTO	8	S	1451.0	1451.0	U	27.0			QL=4 ST=2 TYP=3
15	2695	LEAR	8	S	0142.0	0143.0	2.0	64.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0143.0	0143.0	1.0	70.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0147.0	0148.0	2.0	53.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0459.0	0459.0	1.0	42.0			QL=4 ST=2 TYP=3
	2695	LEAR	20	GRF	0519.0	0523.0	6.0	45.0			QL=4 ST=2 TYP=2
	8800	LEAR	20	GRF	0519.0	0530.0	16.0	39.0			QL=4 ST=2 TYP=2
	2695	LEAR	8	S	0558.0	0558.0	2.0	37.0			QL=4 ST=3 TYP=3
	2695	SVTO	8	S	0559.0	0559.0	U	24.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0822.0	0822.0	U	27.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0949.0	0952.0	5.0	76.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0949.0	0952.0	5.0	65.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0950.0E	0952.0	3.0D	46.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1053.0	1054.0	4.0	100.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1053.0	1054.0	6.0	110.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1056.0	1058.0	7.0	50.0			QL=2 ST=2 TYP=3
	2695	SVTO	4	S/F	1431.0	1433.0	12.0	190.0			QL=4 ST=2 TYP=3
	8800	SVTO	49	GB	1432.0	1435.0	11.0	520.0			QL=4 ST=2 TYP=6
	2695	SGMR	4	S/F	1708.0	1711.0	7.0	59.0			QL=4 ST=3 TYP=3
	8800	SGMR	4	S/F	1709.0	1710.0	6.0	33.0			QL=2 ST=3 TYP=3
	2695	PALE	4	S/F	1711.0	1711.0	5.0	7.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1721.0	1721.0	8.0	69.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2052.0	2055.0	7.0	150.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2055.0	2055.0	4.0	140.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2055.0	2055.0	6.0	82.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2055.0	2055.0	2.0	110.0			QL=2 ST=2 TYP=3
16	2695	LEAR	8	S	0223.0	0223.0	1.0	75.0			QL=4 ST=2 TYP=3
	2695	LEAR	48	C	0409.0	0415.0	41.0	1100.0			QL=4 ST=2 TYP=8
	8800	LEAR	48	C	0410.0	0413.0	46.0	2500.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	1418.0	1427.0	582.0	130.0			QL=4 ST=1 TYP=8
	2695	SGMR	4	S/F	1419.0	1420.0	4.0	57.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1424.0	1427.0	11.0	240.0			QL=4 ST=3 TYP=3
	2695	SGMR	4	S/F	1425.0	1427.0	10.0	140.0			QL=4 ST=3 TYP=3
	8800	SVTO	4	S/F	1425.0	1427.0	575.0	190.0			QL=4 ST=1 TYP=3
	2695	PALE	4	S/F	1711.0	1711.0	5.0	7.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1721.0	1721.0	8.0	69.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2215.0	2215.0	U	37.0			QL=4 ST=2 TYP=3
17	8800	LEAR	8	S	0041.0	0041.0	U	30.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0041.0	0041.0	1.0	33.0			QL=4 ST=2 TYP=3
18	8800	LEAR	20	GRF	0408.0	0415.0	47.0	36.0			QL=4 ST=3 TYP=2
	8800	LEAR	20	GRF	2341.0	2350.0	14.0	45.0			QL=4 ST=2 TYP=2
	2695	LEAR	20	GRF	2346.0	2353.0	7.0	13.0			QL=4 ST=2 TYP=2
19	2695	SVTO	4	S/F	0807.0	0811.0	28.0	350.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0808.0	0811.0	21.0	360.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0808.0	0811.0	36.0	260.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0809.0	0811.0	32.0	300.0			QL=4 ST=2 TYP=3
20	8800	LEAR	8	S	0108.0	0108.0	U	60.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0108.0	0108.0	1.0	66.0			QL=4 ST=3 TYP=3

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

SEPTEMBER 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	Int	Remarks
20	8800	SVTO	4	S/F	1053.0	1054.0	3.0	120.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1537.0	1538.0	3.0	28.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1537.0	1538.0	3.0	20.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1537.0	1537.0	1.0	29.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1551.0	1551.0	U	33.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1839.0	1839.0	2.0	28.0			QL=4 ST=2 TYP=3
22	8800	LEAR	8	S	0415.0	0416.0	1.0	38.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0415.0	0415.0	1.0	32.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0929.0	0935.0	7.0	22.0			QL=4 ST=3 TYP=3
	8800	SVTO	49	GB	0950.0	0950.0	5.0	680.0			QL=4 ST=2 TYP=6
	8800	SVTO	4	S/F	1035.0	1035.0	24.0	27.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1322.0	1322.0	18.0	25.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1534.0	1534.0	2.0	130.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1534.0	1534.0	1.0	120.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1534.0	1534.0	1.0	30.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1555.0	1555.0	U	27.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1603.0	1603.0	U	23.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1841.0	1841.0	U	80.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	1859.0	1859.0	U	56.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1859.0	1859.0	2.0	53.0			QL=4 ST=2 TYP=3
23	8800	LEAR	8	S	0010.0	0011.0	2.0	55.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0018.0	0018.0	1.0	28.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0018.0	0018.0	2.0	55.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0228.0	0231.0	4.0	57.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0401.0	0401.0	1.0	52.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0450.0	0454.0	7.0	47.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0450.0	0454.0	7.0	40.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1102.0	1103.0	2.0	30.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1103.0	1104.0	2.0	30.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1845.0	1845.0	U	27.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2133.0	2135.0	11.0	100.0			QL=4 ST=2 TYP=3
	8800	SGMR	20	GRF	2133.0	2139.0	11.0	64.0			QL=4 ST=2 TYP=2
	8800	PALE	8	S	2153.0	2154.0	2.0	450.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2153.0	2154.0	2.0	380.0			QL=2 ST=2 TYP=3
24	8800	LEAR	4	S/F	0330.0	0335.0	10.0	310.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0719.0	0720.0	3.0	110.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0720.0	0720.0	1.0	110.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1404.0	1405.0	3.0	100.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1404.0	1405.0	1.0	68.0			QL=4 ST=2 TYP=3
25	8800	LEAR	4	S/F	0044.0	0047.0	13.0	130.0			QL=4 ST=2 TYP=3
	8800	PALE	20	GRF	0044.0	0047.0	10.0	160.0			QL=4 ST=2 TYP=2
	2695	LEAR	4	S/F	0200.0	0209.0	10.0	490.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0202.0	0208.0	8.0	320.0			QL=4 ST=2 TYP=3
	8800	PALE	20	GRF	0206.0	0209.0	8.0	260.0			QL=4 ST=2 TYP=2
	2695	LEAR	4	S/F	0206.0	0209.0	14.0	460.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0206.0	0208.0	14.0	280.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0206.0	0209.0	12.0	480.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1222.0	1222.0	2.0	170.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1222.0	1222.0	1.0	150.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1457.0	1457.0	U	170.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1457.0	1457.0	U	140.0			QL=4 ST=2 TYP=3
27	2695	LEAR	4	S/F	0136.0	0137.0	3.0	51.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0136.0	0137.0	3.0	52.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0308.0	0309.0	3.0	54.0			QL=4 ST=2 TYP=3
28	2695	LEAR	8	S	2247.0	2247.0	U	42.0			QL=4 ST=2 TYP=3
29	8800	SGMR	4	S/F	1311.0	1311.0	4.0	49.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1311.0	1311.0	1.0	24.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1311.0	1311.0	1.0	25.0			QL=4 ST=2 TYP=3
30	8800	SVTO	8	S	0857.0	0858.0	1.0	54.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2012.0	2013.0	5.0	52.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2039.0	2040.0	3.0	73.0			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

SEPTEMBER 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
30	8800	PALE	8 S	2040.0	2040.0	1.0	71.0			QL=4 ST=2 TYP=3
	8800	LEAR	49 GB	2316.0	2319.0	18.0	1500.0			QL=4 ST=2 TYP=6
	2695	LEAR	4 S/F	2317.0	2320.0	7.0	140.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	2317.0	2320.0	5.0	130.0			QL=4 ST=2 TYP=3
	8800	PALE	49 GB	2317.0	2319.0	10.0	1700.0			QL=4 ST=2 TYP=6

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.