SOLAR RADIO EMISSION
Selected Fixed Frequency Events

MARCH 2001

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
06	8800	PALE	8	S	2141.0	2141.0	1.0	65.0			QL=4 ST=2 TYP=3
08	8800	SVTO	49	GB	1115.0	1116.0	4.0	550.0			QL=4 ST=2 TYP=6
	2695	SVTO	4	S/F	1116.0	1118.0	3.0	82.0			QL=4 ST=2 TYP=3
	8800	SGMR	20	GRF	1611.0	1645.0	47.0	51.0			QL=4 ST=2 TYP=2
09	2695	LEAR	8	S	0155.0	0155.0	1.0	120.0			QL=2 ST=2 TYP=3
	2695	PALE	8	S	0155.0	0155.0	1.0	92.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0155.0	0155.0	1.0	110.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	2321.0	2323.0	3.0	93.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	2323.0	2323.0	U	38.0			QL=2 ST=2 TYP=3
	8800	PALE	8	S	2323.0	2323.0	1.0	53.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2323.0	2323.0	1.0	97.0			QL=4 ST=2 TYP=3
10	8800	LEAR	49	GB	0402.0	0403.0	3.0	830.0			QL=2 ST=2 TYP=6
	2695	LEAR	8	S	0403.0	0403.0	2.0	110.0			QL=2 ST=2 TYP=3
	8800	PALE	8	S	0403.0	0403.0	1.0	400.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0403.0	0403.0	1.0	76.0			QL=4 ST=2 TYP=3
17	2695	SGMR	4	S/F	1714.0	1717.0	4.0	18.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1717.0	1717.0	U	24.0			QL=4 ST=2 TYP=3
19	8800	LEAR	8	S	2318.0	2318.0	2.0	62.0			QL=2 ST=2 TYP=3
	2695	LEAR	8	S	2318.0	2318.0	1.0	57.0			QL=2 ST=2 TYP=3
	2695	PALE	8	S	2318.0	2319.0	2.0	60.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2318.0	2318.0	2.0	59.0			QL=4 ST=2 TYP=3
20	8800	LEAR	8	S	0331.0	0332.0	1.0	29.0			QL=2 ST=2 TYP=3
	2695	PALE	8	S	0332.0	0332.0	U	27.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1502.0	1504.0	5.0	81.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1502.0	1504.0	4.0	30.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1502.0	1504.0	10.0	92.0			QL=4 ST=2 TYP=3
21	2695	LEAR	8	S	0234.0	0235.0	1.0	43.0			QL=2 ST=2 TYP=3
	2695	PALE	4	S/F	0234.0	0235.0	4.0	39.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0916.0	0916.0	1.0	82.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1125.0	1125.0	1.0	83.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1125.0	1125.0	1.0	150.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1125.0	1125.0	1.0	200.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1125.0	1125.0	1.0	100.0			QL=4 ST=2 TYP=3
22	2695	SVTO	8	S	1310.0	1310.0	1.0	47.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1310.0	1311.0	2.0	130.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1311.0	1311.0	U	34.0			QL=2 ST=2 TYP=3
23	8800	SGMR	8	S	1855.0	1856.0	1.0	57.0			QL=4 ST=2 TYP=3
24	2695	LEAR	8	S	0134.0	0135.0	2.0	97.0			QL=2 ST=2 TYP=3
	8800	PALE	4	S/F	0134.0	0135.0	3.0	150.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0135.0	0135.0	1.0	130.0			QL=2 ST=2 TYP=3
	2695	PALE	8	S	0135.0	0135.0	1.0	140.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1659.0	1702.0	6.0	99.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1946.0	1947.0	12.0	85.0			QL=4 ST=2 TYP=3
	8800	SGMR	20	GRF	1946.0	1955.0	18.0	37.0			QL=4 ST=2 TYP=2
	2695	SGMR	4	S/F	1946.0	1947.0	18.0	68.0			QL=4 ST=2 TYP=3
	2695	PALE	20	GRF	2010.0	2015.0	9.0	71.0			QL=4 ST=2 TYP=2
	8800	SGMR	20	GRF	2044.0	2113.0	74.0	56.0			QL=4 ST=2 TYP=2
	2695	PALE	8	S	2046.0	2048.0	2.0	41.0			QL=4 ST=2 TYP=3
	2695	SGMR	20	GRF	2059.0	2105.0	59.0	56.0			QL=4 ST=2 TYP=2
	8800	PALE	4	S/F	2315.0	2317.0	4.0	38.0			QL=4 ST=2 TYP=3
25	8800	LEAR	4	S/F	0346.0	0347.0	6.0	69.0			QL=2 ST=2 TYP=3
	8800	LEAR	49	GB	0414.0	0417.0	10.0	610.0			QL=2 ST=2 TYP=6
	2695	LEAR	4	S/F	0415.0	0417.0	5.0	170.0			QL=2 ST=2 TYP=3
	2695	PALE	4	S/F	0415.0	0418.0	5.0	160.0			QL=4 ST=2 TYP=3
	8800	PALE	49	GB	0416.0	0417.0	3.0	520.0			QL=4 ST=2 TYP=6
	2695	SVTO	4	S/F	1107.0	1112.0	6.0	26.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1108.0	1109.0	18.0	25.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1109.0	1115.0	13.0	400.0			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

MARCH 2001

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
25	2695	SVTO	4	S/F	1111.0	1115.0	8.0	210.0			QL=4 ST=3 TYP=3
	8800	SGMR	4	S/F	1112.0	1115.0	10.0	400.0			QL=2 ST=2 TYP=3
	2695	SGMR	4	S/F	1112.0	1115.0	10.0	220.0			QL=2 ST=2 TYP=3
	8800	SVTO	49	GB	1351.0	1352.0	2.0	3000.0			QL=4 ST=2 TYP=6
	2695	SGMR	20	GRF	1637.0	1638.0	44.0	170.0			QL=4 ST=2 TYP=2
	8800	SGMR	4	S/F	1637.0	1637.0	44.0	82.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1702.0	1703.0	1.0	58.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2013.0	2015.0	5.0	61.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2014.0	2014.0	U	58.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2014.0	2016.0	4.0	46.0			QL=4 ST=2 TYP=3
26	2695	SVTO	8	S	1005.0	1005.0	1.0	28.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1026.0	1026.0	1.0	24.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1309.0	1313.0	42.0	42.0			QL=4 ST=2 TYP=3
	8800	SGMR	20	GRF	1309.0	1326.0	59.0	63.0			QL=4 ST=2 TYP=2
	8800	SGMR	4	S/F	2008.0	2010.0	16.0	40.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2009.0	2010.0	15.0	27.0			QL=4 ST=2 TYP=3
27	2695	PALE	8	S	0225.0	0225.0	1.0	64.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0225.0	0225.0	1.0	120.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0232.0	0232.0	4.0	99.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0242.0	0243.0	4.0	89.0			QL=2 ST=2 TYP=3
	2695	SGMR	46	C	1447.0	1449.0	27.0	33.0			QL=4 ST=2 TYP=8
	8800	SGMR	4	S/F	1447.0	1449.0	27.0	150.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1449.0	1449.0	1.0	92.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1449.0	1449.0	1.0	22.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1627.0	1629.0	3.0	500.0			QL=2 ST=2 TYP=3
	2695	SVTO	4	S/F	1627.0	1629.0	3.0	200.0			QL=2 ST=2 TYP=3
	2695	SGMR	4	S/F	1628.0	1629.0	7.0	230.0			QL=4 ST=2 TYP=3
	8800	SGMR	49	GB	1628.0	1629.0	7.0	690.0			QL=4 ST=2 TYP=6
	8800	SGMR	4	S/F	1827.0	1828.0	4.0	43.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	1919.0	1921.0	5.0	56.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2025.0	2026.0	1.0	45.0			QL=4 ST=2 TYP=3
28	8800	LEAR	8	S	0048.0	0049.0	1.0	53.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0157.0	0158.0	2.0	62.0			QL=2 ST=2 TYP=3
	8800	SVTO	4	S/F	0631.0	0632.0	4.0	51.0			QL=4 ST=2 TYP=3
	8800	SVTO	20	GRF	0908.0	0919.0	52.0	23.0			QL=4 ST=2 TYP=2
	8800	SVTO	4	S/F	0943.0	0944.0	5.0	180.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0944.0	0944.0	1.0	150.0			QL=2 ST=2 TYP=3
	8800	SVTO	4	S/F	1045.0	1046.0	3.0	180.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1046.0	1046.0	2.0	61.0			QL=4 ST=2 TYP=3
	2695	SVTO	48	C	1112.0	1120.0	30.0	78.0			QL=4 ST=2 TYP=8
	2695	SGMR	20	GRF	1115.0	1125.0	21.0	74.0			QL=4 ST=2 TYP=2
	8800	SGMR	20	GRF	1115.0	1125.0	21.0	120.0			QL=4 ST=2 TYP=2
	8800	SVTO	20	GRF	1119.0	1148.0	39.0	100.0			QL=4 ST=2 TYP=2
	8800	SGMR	48	C	1138.0	1210.0	80.0	340.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1152.0	1214.0	66.0	250.0			QL=4 ST=2 TYP=8
	8800	SVTO	8	S	1204.0	1205.0	1.0	53.0			QL=4 ST=2 TYP=3
	2695	SVTO	48	C	1208.0	1214.0	15.0	250.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1900.0	1903.0	7.0	68.0			QL=4 ST=2 TYP=8
	2695	PALE	4	S/F	2231.0	2232.0	3.0	61.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2231.0	2233.0	7.0	96.0			QL=4 ST=2 TYP=3
	2695	PALE	20	GRF	2240.0	2309.0	33.0	130.0			QL=4 ST=2 TYP=2
	2695	LEAR	4	S/F	2255.0	2257.0	4.0	56.0			QL=2 ST=2 TYP=3
	8800	PALE	8	S	2255.0	2255.0	U	59.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2317.0	2317.0	8.0	71.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2326.0	2326.0	1.0	70.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2326.0	2327.0	6.0	100.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	2327.0	2327.0	10.0	38.0			QL=2 ST=2 TYP=3
	2695	PALE	8	S	2336.0	2337.0	1.0	110.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	2347.0	2350.0	5.0	75.0			QL=2 ST=2 TYP=3
	2695	PALE	8	S	2349.0	2350.0	1.0	100.0			QL=4 ST=2 TYP=3
29	8800	LEAR	8	S	0245.0	0245.0	U	35.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	0252.0	0253.0	4.0	200.0			QL=2 ST=2 TYP=3
	8800	PALE	8	S	0253.0	0253.0	1.0	110.0			QL=4 ST=2 TYP=3
	8800	LEAR	48	C	0958.0	1011.0	21.0	13000.0			QL=2 ST=2 TYP=8
	2695	LEAR	48	C	0958.0	1011.0	21.0	4700.0			QL=2 ST=2 TYP=8

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

MARCH 2001

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
29	2695	SVTO	49	GB	1004.0	1011.0U	27.0	3500.0			QL=4 ST=2 TYP=6
	8800	SVTO	48	C	1004.0	1011.0U	29.0	6900.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1101.0	1105.0	13.0	55.0			QL=4 ST=2 TYP=8
	8800	SGMR	4	S/F	1243.0	1245.0	8.0	57.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1247.0	1248.0	4.0	52.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1301.0	1302.0	45.0	69.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1302.0	1302.0	1.0	41.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1302.0	1302.0	44.0	61.0			QL=4 ST=2 TYP=3
30	8800	LEAR	4	S/F	0423.0	0426.0	1177.0	74.0			QL=2 ST=1 TYP=3
	2695	LEAR	4	S/F	0425.0	0427.0	1175.0	91.0			QL=2 ST=1 TYP=3
	2695	SVTO	4	S/F	0505.0E	0515.0U	11.0D	91.0			QL=4 ST=2 TYP=3
	8800	LEAR	48	C	0508.0	0513.0	25.0	380.0			QL=2 ST=2 TYP=8
	8800	SVTO	4	S/F	0512.0E	0513.0U	4.0D	220.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0513.0	0514.0	3.0	110.0			QL=2 ST=2 TYP=3
	2695	PALE	4	S/F	1652.0	1653.0	3.0	140.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2243.0	2245.0	5.0	65.0			QL=4 ST=2 TYP=3
31	8800	LEAR	4	S/F	0632.0	0633.0	4.0	53.0			QL=2 ST=3 TYP=3
	8800	SVTO	8	S	0633.0	0633.0	1.0	36.0			QL=4 ST=2 TYP=3
	8800	SVTO	20	GRF	1102.0	1104.0	25.0	520.0			QL=4 ST=2 TYP=2
	2695	SGMR	4	S/F	1103.0	1104.0	3.0	66.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1103.0	1104.0	8.0	100.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1103.0	1104.0	20.0	460.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	2347.0	2348.0	4.0	34.0			QL=2 ST=2 TYP=3
	2695	LEAR	8	S	2348.0	2348.0	U	130.0			QL=2 ST=2 TYP=3
	8800	PALE	8	S	2348.0	2348.0	U	58.0			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.