SOLAR RADIO EMISSION
Selected Fixed Frequency Events

JUNE 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	2695	LEAR	4	S/F	0611.0	0612.0	6.0	420.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0611.0	0612.0	3.0	190.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0611.0	0612.0	2.0	190.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0611.0	0612.0	6.0	420.0			QL=4 ST=2 TYP=3
	2695	LEAR	49	GB	0730.0	0731.0	3.0	620.0			QL=4 ST=2 TYP=6
	2695	SVTO	49	GB	0730.0	0731.0	3.0	610.0			QL=4 ST=2 TYP=6
	8800	SVTO	4	S/F	0730.0	0731.0	6.0	120.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0731.0	0731.0	1.0	43.0			QL=4 ST=2 TYP=3
02	2695	LEAR	20	GRF	0341.0	0349.0	13.0	91.0			QL=4 ST=2 TYP=2
	8800	LEAR	4	S/F	0343.0	0344.0	13.0	57.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0343.0	0345.0	11.0	91.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	0344.0	0344.0U	2.0	47.0			QL=2 ST=2 TYP=3
	2695	LEAR	4	S/F	0408.0	0410.0	6.0	120.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0408.0	0410.0	7.0	120.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0408.0	0409.0	7.0	62.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0409.0	0409.0	3.0	74.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0703.0	0709.0	8.0	51.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0703.0	0705.0	3.0	36.0			QL=4 ST=2 TYP=3
	8800	PALE	48	C	1918.0	1922.0	6.0	340.0			QL=4 ST=2 TYP=8
	2695	PALE	48	C	1918.0	1922.0	6.0	74.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1918.0	1922.0	15.0	410.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1918.0	1922.0	15.0	88.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	1933.0	1939.0	12.0	160.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1933.0	1939.0	12.0	200.0			QL=4 ST=2 TYP=8
	2695	PALE	8	S	1937.0	1937.0	U	32.0			QL=4 ST=2 TYP=3
	2695	SGMR	48	C	1939.0	1939.0	1.0	87.0			QL=4 ST=2 TYP=8
	8800	SGMR	4	S/F	2011.0	2016.0	21.0	140.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2012.0	2016.0	17.0	65.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2013.0	2016.0	10.0	97.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2014.0	2017.0	14.0	52.0			QL=4 ST=2 TYP=3
03	8800	LEAR	4	S/F	0841.0	0842.0	3.0	70.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0841.0	0842.0	4.0	67.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0842.0	0843.0	3.0	84.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0843.0	0843.0	1.0	84.0			QL=4 ST=2 TYP=3
	8800	SGMR	49	GB	1916.0	1919.0	16.0	1000.0			QL=4 ST=2 TYP=6
	2695	PALE	4	S/F	1917.0	1919.0	7.0	310.0			QL=4 ST=2 TYP=3
	8800	PALE	49	GB	1917.0	1919.0	4.0	980.0			QL=4 ST=2 TYP=6
	2695	SGMR	4	S/F	1917.0	1919.0	10.0	310.0			QL=4 ST=2 TYP=3
04	8800	PALE	4	S/F	2205.0	2207.0	14.0	400.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2205.0	2207.0	11.0	320.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2206.0	2210.0	10.0	330.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2206.0	2210.0	10.0	370.0			QL=4 ST=2 TYP=3
06	8800	SGMR	8	S	1318.0	1319.0	1.0	29.0			QL=4 ST=2 TYP=3
	8800	SVTO	46	C	1318.0	1321.0	4.0	45.0			QL=4 ST=2 TYP=8
	8800	SGMR	4	S/F	1330.0	1332.0	8.0	460.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1330.0	1332.0	16.0	380.0			QL=4 ST=2 TYP=3
	2695	SGMR	49	GB	1332.0	1333.0	6.0	560.0			QL=4 ST=2 TYP=6
	2695	SVTO	49	GB	1332.0	1333.0	4.0	500.0			QL=4 ST=2 TYP=6
	8800	SVTO	4	S/F	1400.0	1402.0	6.0	36.0			QL=4 ST=2 TYP=3
	2695	SVTO	48	C	1505.0	1524.0	136.0	2000.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1506.0	1524.0	61.0	2300.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	1507.0	1519.0	64.0	2600.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1508.0	1519.0	54.0	3400.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1622.0	1636.0	39.0	570.0			QL=4 ST=2 TYP=8
	2695	PALE	20	GRF	1653.0	1659.0	12.0	60.0			QL=4 ST=2 TYP=2
07	8800	LEAR	8	S	0440.0	0441.0	2.0	180.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0440.0	0441.0	3.0	120.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0440.0	0441.0	1.0	120.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0440.0	0441.0	2.0	120.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0440.0	0441.0	2.0	150.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1538.0	1547.0	48.0	200.0			QL=4 ST=3 TYP=3
	2695	SVTO	4	S/F	1538.0	1547.0	41.0	180.0			QL=4 ST=2 TYP=3
	8800	SGMR	48	C	1539.0	1545.0	47.0	350.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	1539.0	1545.0	42.0	280.0			QL=4 ST=2 TYP=8

SOLAR RADIO EMISSION
Selected Fixed Frequency Events

JUNE 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
08	8800	PALE	4	S/F	0052.0	0056.0	20.0	45.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0056.0	0056.0	1.0	26.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0525.0	0526.0	2.0	50.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0525.0	0526.0	2.0	55.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0940.0	0940.0	1.0	73.0			QL=4 ST=2 TYP=3
10	2695	SVTO	48	C	1646.0	1653.0	20.0	510.0			QL=4 ST=2 TYP=8
	8800	SVTO	4	S/F	1647.0	1653.0	27.0	270.0			QL=4 ST=2 TYP=3
	2695	SGMR	48	C	1648.0	1653.0U	25.0	550.0			QL=4 ST=2 TYP=8
	8800	SGMR	4	S/F	1648.0	1653.0U	34.0	380.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1649.0	1653.0	15.0	420.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	1654.0	1655.0	10.0	260.0			QL=4 ST=2 TYP=3
11	8800	SVTO	8	S	0927.0	0927.0	U	27.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1041.0	1043.0	9.0	37.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1042.0	1045.0	3.0	23.0			QL=4 ST=2 TYP=3
	2695	SGMR	20	GRF	1042.0	1047.0	19.0	45.0			QL=4 ST=2 TYP=2
	8800	SGMR	46	C	1042.0	1047.0	19.0	35.0			QL=4 ST=2 TYP=8
	8800	SGMR	4	S/F	1251.0	1251.0	5.0	68.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1251.0	1252.0	5.0	45.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1251.0	1251.0	2.0	51.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1251.0	1252.0	1.0	25.0			QL=4 ST=2 TYP=3
12	2695	PALE	8	S	0132.0	0132.0	U	25.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0258.0	0259.0	2.0	81.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0259.0	0259.0	U	32.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0259.0	0259.0	1.0	87.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0302.0	0302.0	U	24.0			QL=4 ST=2 TYP=3
14	8800	LEAR	8	S	0147.0	0147.0	U	27.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0421.0	0422.0	2.0	40.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0421.0	0422.0	2.0	43.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	0421.0	0422.0	1.0	37.0			QL=2 ST=2 TYP=3
	2695	LEAR	8	S	0422.0	0422.0	U	24.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1346.0	1346.0	4.0	54.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1346.0	1346.0	U	39.0			QL=4 ST=2 TYP=3
15	8800	SGMR	4	S/F	1512.0	1512.0	5.0	95.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1512.0	1514.0	2.0	27.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1512.0	1513.0	2.0	64.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1513.0	1514.0	4.0	34.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1558.0	1559.0	6.0	51.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1559.0	1559.0	5.0	29.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1941.0	1944.0	7.0	290.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1941.0	1944.0	8.0	200.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1942.0	1944.0	5.0	250.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	1943.0	1944.0	3.0	160.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2122.0	2124.0	2.0	47.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2122.0	2122.0	1.0	80.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2122.0	2124.0	5.0	63.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2122.0	2122.0	5.0	96.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	2339.0	2341.0	4.0	200.0			QL=2 ST=2 TYP=3
	2695	LEAR	8	S	2341.0	2342.0	1.0	85.0			QL=2 ST=2 TYP=3
	2695	PALE	8	S	2341.0	2342.0	1.0	59.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2341.0	2342.0	2.0	97.0			QL=4 ST=2 TYP=3
17	8800	LEAR	4	S/F	0230.0	0231.0	5.0	96.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0231.0	0233.0	4.0	51.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0231.0	0231.0	1.0	35.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0231.0	0233.0	4.0	61.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0256.0	0257.0	3.0	38.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0307.0	0307.0	U	23.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0351.0	0352.0	5.0	69.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0351.0	0352.0	5.0	87.0			QL=2 ST=2 TYP=3
18	2695	LEAR	4	S/F	0155.0	0157.0	4.0	290.0			QL=4 ST=2 TYP=3
	8800	LEAR	49	GB	0155.0	0157.0	4.0	570.0			QL=4 ST=2 TYP=6
	2695	PALE	4	S/F	0155.0	0157.0	4.0	300.0			QL=4 ST=2 TYP=3
	8800	PALE	49	GB	0156.0	0157.0	2.0	580.0			QL=4 ST=2 TYP=6

SOLAR RADIO EMISSION
Selected Fixed Frequency Events

JUNE 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
20	2695	LEAR	8	S	0649.0	0650.0	2.0	30.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0649.0	0650.0	2.0	110.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0649.0	0650.0	1.0	110.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0650.0	0650.0	U	28.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1923.0	1924.0	2.0	92.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1923.0	1924.0	2.0	77.0			QL=4 ST=2 TYP=3
21	2695	LEAR	8	S	0759.0	0759.0	U	59.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0759.0	0759.0	6.0	45.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0759.0	0759.0	U	72.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0923.0	0924.0	3.0	110.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0923.0	0925.0	3.0	69.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0924.0	0924.0	2.0	100.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0924.0	0925.0	2.0	76.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1420.0	1420.0	2.0	88.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1420.0	1420.0	1.0	37.0			QL=4 ST=2 TYP=3
23	2695	LEAR	4	S/F	0402.0	0404.0	5.0	330.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0402.0	0404.0	5.0	440.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0402.0	0404.0	5.0	340.0			QL=4 ST=2 TYP=3
	8800	LEAR	49	GB	0402.0	0404.0	10.0	500.0			QL=4 ST=2 TYP=6
	8800	PALE	4	S/F	0402.0	0404.0	15.0	480.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0403.0	0404.0	1.0	41.0			QL=4 ST=2 TYP=3
	8800	SGMR	49	GB	1421.0	1425.0	14.0	1500.0			QL=4 ST=2 TYP=6
	2695	SGMR	4	S/F	1422.0	1425.0	10.0	250.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2214.0	2217.0	4.0	71.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2214.0	2217.0	5.0	95.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2215.0	2216.0	2.0	36.0			QL=4 ST=2 TYP=3
25	2695	LEAR	4	S/F	0740.0	0742.0	3.0	33.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0741.0	0741.0	U	30.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1355.0	1355.0	3.0	56.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1355.0	1355.0	2.0	30.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1355.0	1355.0	2.0	48.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1355.0	1355.0	2.0	50.0			QL=4 ST=2 TYP=3
27	2695	SGMR	4	S/F	1243.0	1245.0	11.0	99.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1244.0	1245.0	7.0	94.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1245.0	1246.0	9.0	22.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1246.0	1247.0	1.0	24.0			QL=4 ST=2 TYP=3
28	8800	SVTO	8	S	1217.0	1217.0	1.0	27.0			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.