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

DECEMBER 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
01	8800	LEAR	8	S	0155.0	0156.0	2.0	190.0			QL=4 ST=2 TYP=3
	8800	PALE	48	C	0155.0	0156.0	1.0	190.0			QL=4 ST=2 TYP=8
	2695	LEAR	4	S/F	0648.0	0649.0	6.0	180.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0648.0	0649.0	6.0	490.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0649.0	0649.0	5.0	450.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0649.0	0649.0	5.0	160.0			QL=4 ST=2 TYP=3
02	8800	SVTO	8	S	1218.0	1219.0	1.0	72.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1219.0	1219.0	U	100.0			QL=4 ST=2 TYP=3
03	8800	LEAR	8	S	0710.0	0710.0	U	54.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1831.0	1831.0	U	60.0			QL=2 ST=2 TYP=3
04	8800	PALE	48	C	0039.0	0040.0	2.0	52.0			QL=4 ST=2 TYP=8
	2695	LEAR	4	S/F	0540.0	0542.0	5.0	16.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0541.0	0541.0	5.0	26.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0858.0	0858.0	2.0	130.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0858.0	0858.0	1.0	93.0			QL=4 ST=3 TYP=3
06	2695	LEAR	48	C	0816.0	0819.0	9.0	77.0			QL=4 ST=2 TYP=8
	8800	SVTO	4	S/F	0816.0	0821.0	6.0	31.0			QL=4 ST=2 TYP=3
	2695	SVTO	48	C	0819.0	0819.0	3.0	77.0			QL=4 ST=2 TYP=8
	8800	LEAR	46	C	0822.0	0827.0	5.0	24.0			QL=4 ST=2 TYP=8
	2695	PALE	8	S	1903.0	1904.0	1.0	89.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1903.0	1904.0	2.0	100.0			QL=4 ST=2 TYP=3
07	2695	LEAR	4	S/F	0806.0	0808.0	6.0	220.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0807.0	0808.0	3.0	74.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0807.0	0808.0	5.0	200.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0807.0	0808.0	5.0	92.0			QL=4 ST=2 TYP=3
10	8800	SVTO	48	C	0933.0	0935.0	6.0	1200.0			QL=4 ST=2 TYP=8
	8800	LEAR	4	S/F	0934.0	0935.0	9.0	1100.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0934.0	0935.0	2.0	110.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0934.0	0935.0	866.0	110.0			QL=4 ST=1 TYP=3
	2695	LEAR	45	C	0941.0	0941.0	U				QL=4 ST=2 TYP=8
11	8800	LEAR	8	S	0341.0	0342.0	2.0	86.0			QL=4 ST=2 TYP=3
	8800	SVTO	49	GB	0800.0	0805.0	25.0	5200.0			QL=4 ST=2 TYP=6
	8800	LEAR	49	GB	0801.0	0805.0	20.0	4900.0			QL=4 ST=2 TYP=6
	2695	LEAR	49	GB	0802.0	0805.0	18.0	2600.0			QL=4 ST=2 TYP=6
	2695	SVTO	49	GB	0802.0	0805.0	22.0	2200.0			QL=4 ST=2 TYP=6
	2695	SGMR	8	S	1446.0	1446.0	2.0	50.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1446.0	1446.0	2.0	71.0			QL=4 ST=2 TYP=3
12	2695	SGMR	4	S/F	1903.0	1905.0	8.0	420.0			QL=4 ST=2 TYP=3
	8800	SGMR	49	GB	1903.0	1905.0	8.0	690.0			QL=4 ST=2 TYP=6
	2695	PALE	4	S/F	1904.0	1905.0	4.0	350.0			QL=4 ST=2 TYP=3
	8800	PALE	48	C	1904.0	1905.0	4.0	560.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	2144.0	2202.0	136.0	68.0			QL=4 ST=2 TYP=8
	8800	LEAR	8	S	2316.0	2317.0	2.0	120.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2317.0	2317.0	U	110.0			QL=4 ST=2 TYP=3
13	8800	LEAR	46	C	0635.0	0636.0	11.0	35.0			QL=4 ST=2 TYP=8
	8800	SVTO	4	S/F	1119.0	1123.0	761.0	29.0			QL=4 ST=1 TYP=3
	8800	SVTO	48	C	1423.0	1426.0	9.0	2200.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1423.0	1425.0	26.0	1800.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1423.0	1426.0	26.0	3100.0			QL=4 ST=2 TYP=8
	2695	SVTO	49	GB	1423.0	1426.0	24.0	1600.0			QL=4 ST=2 TYP=6
14	2695	LEAR	48	C	0846.0	0907.0	46.0	220.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	0846.0	0907.0	46.0	220.0			QL=4 ST=2 TYP=8
	8800	LEAR	48	C	0855.0	0906.0	37.0	130.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	0855.0	0855.0	37.0	130.0			QL=4 ST=2 TYP=8
	2695	SGMR	4	S/F	1946.0E	1949.0	8.0D	100.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1948.0E	1949.0	7.0D	63.0			QL=4 ST=2 TYP=3
18	8800	LEAR	4	S/F	0442.0	0442.0	3.0	22.0			QL=2 ST=2 TYP=3
	8800	PALE	8	S	2001.0	2001.0	U	43.0			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

DECEMBER 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
19	2695	SVTO	8	S	1258.0	1258.0	U	26.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1258.0	1258.0	U	36.0			QL=4 ST=2 TYP=3
24	8800	LEAR	48	C	0027.0	0031.0	8.0	200.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	0028.0	0032.0	7.0	180.0			QL=4 ST=2 TYP=8
	2695	PALE	48	C	0029.0	0032.0	3.0	71.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1354.0	1355.0	11.0	100.0			QL=4 ST=2 TYP=8
	2695	SVTO	4	S/F	1354.0	1355.0	16.0	98.0			QL=4 ST=2 TYP=3
	8800	SGMR	48	C	1355.0	1356.0	6.0	150.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	1355.0	1356.0	6.0	240.0			QL=4 ST=2 TYP=8
	2695	SGMR	8	S	1411.0	1412.0	1.0	57.0			QL=4 ST=2 TYP=3
	8800	SGMR	20	GRF	1540.0	1608.0	109.0	55.0			QL=4 ST=2 TYP=2
	2695	LEAR	8	S	2238.0	2238.0	1.0	32.0			QL=2 ST=2 TYP=3
25	2695	LEAR	46	C	0703.0	0703.0	1.0	30.0			QL=4 ST=2 TYP=8
	8800	LEAR	4	S/F	0706.0	0707.0	3.0	60.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0707.0	0707.0	2.0	31.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0707.0	0707.0	1.0	72.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	2311.0	2312.0	2.0	41.0			QL=4 ST=2 TYP=3
	8800	PALE	46	C	2311.0	2311.0	U	44.0			QL=4 ST=2 TYP=8
	8800	LEAR	8	S	2313.0	2313.0	U	22.0			QL=4 ST=2 TYP=3
26	2695	LEAR	48	C	0438.0	0513.0	137.0	2600.0			QL=4 ST=2 TYP=8
	8800	LEAR	48	C	0439.0	0512.0	147.0	3800.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	0638.0E	0703.0U	57.0D	280.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	0642.0E	0646.0U	53.0D	140.0			QL=4 ST=2 TYP=8
	8800	SVTO	4	S/F	1224.0	1225.0	4.0	290.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1225.0	1225.0	2.0	71.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1716.0	1716.0	1.0	96.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2112.0	2113.0	1.0	67.0			QL=4 ST=3 TYP=3
27	8800	LEAR	8	S	0342.0	0342.0	U	30.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0603.0	0603.0	U	26.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1128.0	1131.0	5.0	190.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1131.0	1131.0	1.0	44.0			QL=4 ST=2 TYP=3
	8800	SGMR	48	C	1648.0	1650.0	40.0	430.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1649.0	1652.0	23.0	110.0			QL=4 ST=2 TYP=8
	2695	SGMR	4	S/F	1747.0	1749.0	5.0	44.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1749.0	1749.0	3.0	50.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1752.0	1754.0	6.0	48.0			QL=4 ST=2 TYP=3
28	8800	LEAR	49	GB	0345.0	0347.0	8.0	1100.0			QL=4 ST=2 TYP=6
	2695	LEAR	4	S/F	0345.0	0347.0	9.0	270.0			QL=4 ST=2 TYP=3
	2695	SGMR	48	C	1942.0	2005.0	42.0	760.0			QL=4 ST=2 TYP=8
	2695	PALE	48	C	1946.0	2015.0	68.0	1600.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1950.0	2004.0	31.0	1900.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	1957.0	2015.0	36.0	1100.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	2152.0	2155.0	5.0	140.0			QL=4 ST=2 TYP=8
	8800	LEAR	46	C	2158.0E	2219.0U	52.0D	48.0			QL=2 ST=2 TYP=8
	2695	LEAR	48	C	2158.0E	2158.0U	52.0D	61.0			QL=2 ST=2 TYP=8
	2695	PALE	8	S	2202.0	2202.0	1.0	34.0			QL=4 ST=2 TYP=3
29	8800	LEAR	48	C	0939.0	0943.0	9.0	130.0			QL=4 ST=2 TYP=8
	2695	LEAR	48	C	0939.0	0939.0	9.0	98.0			QL=4 ST=2 TYP=8
	2695	SVTO	4	S/F	0939.0	0939.0	4.0	100.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0939.0	0943.0	12.0	220.0			QL=4 ST=2 TYP=3
	8800	LEAR	48	C	0950.0	0951.0	3.0	92.0			QL=4 ST=2 TYP=8
	8800	SVTO	4	S/F	0951.0	0951.0	14.0	160.0			QL=4 ST=2 TYP=3
	8800	SGMR	48	C	1635.0	1639.0	16.0	320.0			QL=4 ST=2 TYP=8
	2695	PALE	4	S/F	1930.0	1930.0	4.0	63.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1930.0	1930.0	4.0	52.0			QL=4 ST=2 TYP=3
31	2695	SGMR	8	S	1843.0	1843.0	1.0	49.0			QL=4 ST=2 TYP=3