S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

APRIL 2002

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	204	IZMI	44	NS	0600.0E		360.0D		15.0		
	127	TORN	44	NS	0900.0E		500.0D		22.0		V=2
	235	CUBA	44	NS	1305.0E		175.0D		5.0		
	280	CUBA	44	NS	1305.0E		175.0D		16.0		
	900	GORK	2	S/F	0503.0	0505.6	5.0	5.8			
	245	LEAR	8	S	0534.0	0534.0	U	50.0			QL=4 ST=2 TYP=3
	900	GORK	41	F	0752.0	0752.2	1.0	12.0			
	900	GORK	41	F	0752.0	0752.7		19.0			
	900	GORK	42	SER	0919.3	0934.5	47.0	14.0			
	900	GORK	42	SER	0919.3	0957.6		32.0			
	127	TORN	7	C	1128.6	1130.0	1.9	160.0	40.0		
	2800	PENT	29	PBI	1524.0	1531.0	61.0	14.0			
	610	SVTO	4	S/F	1647.0E	1650.0	4.0D	230.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1928.0	1928.0	U	65.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2145.0	2146.0	1.0	88.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2149.0	2149.0	U	50.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2151.0	2151.0	U	83.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2152.0	2152.0	U	60.0			QL=4 ST=2 TYP=3
02	127	TORN	43	NS	0828.0		362.0		13.0		V=0
	235	CUBA	44	NS	1310.0E		290.0D		6.0		
	280	CUBA	44	NS	1310.0E		290.0D		16.0		
	2800	PENT	40	F	0020.0	0035.0	28.0	13.0			
	2804	VORO	45	C	0030.9	0034.8	7.6	9.4			
	2840	PEKG	5	S	0031.0	0036.0	8.0	10.8			
	2840	PEKG	1	S	0045.0	0047.3	5.0	4.1			
	200	HIRA	8	S	0055.0	0055.0	1.0	25.0			0
	200	HIRA	8	S	0222.0	0223.0	1.0	20.0			WR
	2840	PEKG	5	S	0431.0	0433.3	6.0	13.7			
	4995	LEAR	8	S	0433.0	0433.0	1.0	110.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0433.0	0433.0	1.0	110.0			QL=4 ST=2 TYP=3
	900	GORK	41	F	0744.1	0745.1		28.0			
	900	GORK	41	F	0744.1	0744.2	2.5	4.4			
	900	GORK	41	F	0825.1	0826.2		8.9			
	900	GORK	41	F	0825.1	0825.4	1.4	4.4			
	900	GORK	8	S	0902.8	0902.9	0.2	140.0			
	245	SVTO	8	S	0927.0	0929.0	2.0	58.0			QL=4 ST=2 TYP=3
	900	GORK	3	S	1023.4	1023.5	0.4	36.0			
	200	IZMI	46	C	1139.0	1140.0	2.6	436.0			
	245	SGMR	8	S	1139.0	1140.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1139.0	1140.0	1.0	76.0			QL=4 ST=2 TYP=3
	33	UPIC	4	S/F	1139.8	1140.5	2.2				UNCERTN
	9500	CUBA	1	S	1406.2	1406.9	1.1	15.0	7.0		
	2800	PENT	21	GRF	1539.0	1544.0	27.0	6.0			
	245	SGMR	8	S	1814.0	1814.0	U	50.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1846.0	1846.0	U	220.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1846.0	1846.0	U	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1905.0	1907.0	2.0	84.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2026.0	2026.0	U	50.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2129.0	2129.0	U	58.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2255.0	2255.0	1.0	15.0			0
	200	HIRA	8	S	2305.0	2305.0	1.0	15.0			0
03	127	TORN	43	NS	0750.0		370.0		13.0		V=0
	280	CUBA	44	NS	1310.0E		520.0D		14.0		
	245	SGMR	43	NS	1459.0	1532.0	88.0	64.0			QL=4 ST=2 TYP=1
	200	HIRA	42	SER	0101.0	0104.0	5.0	15.0			0
	245	LEAR	8	S	0119.0	0119.0	1.0	66.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0119.0	0119.0	U	64.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0212.0	0212.0	1.0	30.0			0
	200	HIRA	8	S	0315.0	0316.0	1.0	30.0			0
	245	LEAR	8	S	0315.0	0315.0	1.0	69.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0315.0	0315.0	U	160.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0402.0	0402.0	1.0	15.0			0
	200	HIRA	8	S	0412.0	0412.0	1.0	15.0			0
	200	HIRA	8	S	0424.0	0424.0	1.0	20.0			0
	9100	GORK	46	C	0538.2	0538.7		10.0			
	9100	GORK	46	C	0538.2	0538.8	1.0	31.0			
	245	LEAR	4	S/F	0721.0	0723.0	8.0	330.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

APRIL 2002

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
03	245	LEAR	8	S	0723.0	0723.0	U	320.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	0723.0	0723.0	U	190.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0731.8	0732.4	0.9	20.0			
	204	IZMI	42	SER	0817.8	0817.9	3.1	134.0			
	204	IZMI	7	C	0912.6	0912.6	0.1	10.0			
	900	GORK	40	F	0918.8	0919.7	1.9	9.0			
	245	LEAR	8	S	0927.0	0927.0	1.0	73.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0927.0	0927.0	1.0	65.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0927.4	0928.1	1.0	67.0			
	127	TORN	8	S	0934.0	0934.6	1.0	200.0	100.0		
	204	IZMI	41	F	0958.3	0958.4	1.0	19.0			
	245	LEAR	48	C	1001.0	1001.0	U	55.0			QL=4 ST=3 TYP=8
	245	SVTO	8	S	1001.0	1001.0	1.0	54.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1001.4	1001.9	0.7	12.0			
	245	SGMR	48	C	1130.0	1133.0	3.0	360.0			QL=4 ST=2 TYP=8
	204	IZMI	42	SER	1130.2	1131.7	2.6	178.0			
	204	IZMI	46	C	1132.9	1133.4	1.1	705.0			
	410	SGMR	8	S	1133.0	1133.0	1.0	470.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1133.0	1133.0	U	41.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1135.5	1135.8	1.4	37.0			
	245	SGMR	8	S	1402.0	1402.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1402.0	1402.0	U	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1406.0	1406.0	U	150.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1419.0	1419.0	3.0	120.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	1419.0	1419.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1421.0	1422.0	1.0	63.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1422.0	1422.0	U	21.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1422.0	1422.0	1.0	23.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1427.0	1430.0	3.0	330.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1429.0	1430.0	1.0	210.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1512.0	1512.0	U	65.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1536.0	1536.0	U	70.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1536.0	1536.0	U	50.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1536.0	1536.0	U	54.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1641.0	1641.0	U	59.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1645.0	1645.0	U	57.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1742.0	1744.0	2.0	1000.0			QL=4 ST=3 TYP=3
	245	SGMR	49	GB	1742.0	1743.0	2.0	850.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	1744.0	1744.0	U	30.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1903.0	1903.0	U	64.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1903.0	1903.0	U	32.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1907.0	1907.0	3.0	55.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1909.0	1909.0	U	76.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1943.0	1943.0	U	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2013.0	2014.0	1.0	59.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2014.0	2014.0	U	63.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2014.0	2014.0	U	34.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2024.0	2025.0	1.0	65.0			0
	245	PALE	8	S	2024.0	2025.0	1.0	160.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	2024.0	2024.0	1.0	160.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2315.0	2315.0	1.0	70.0			0
	2840	PEKG	5	S	2350.0	2352.8	7.0	15.9			
04	127	TORN	44	NS	0750.0E		330.0D		15.0		V=0
	235	CUBA	44	NS	1315.0E		515.0D		5.0		
	2804	VORO	27	RF	0425.6	0438.8	16.9	8.1			
	410	SVTO	8	S	0545.0	0545.0	U	84.0			QL=4 ST=2 TYP=3
	410	SVTO	48	C	0557.0	0557.0	3.0	100.0			QL=4 ST=2 TYP=8
	2840	PEKG	3	S	0645.0	0652.3	22.0	18.7			
	610	LEAR	4	S/F	0650.0	0652.0	3.0	15.0			QL=4 ST=2 TYP=3
	500	HIRA	4	S/F	0651.0	0655.0	6.0	15.0			0
	200	HIRA	8	S	0651.0	0651.0	1.0	35.0			0
	245	LEAR	49	GB	0651.0	0652.0	2.0	2300.0			QL=4 ST=3 TYP=6
	410	LEAR	8	S	0651.0	0652.0	2.0	31.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0651.0	0652.0	1.0	12.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0651.0	0652.0	2.0	16.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	0651.0	0652.0	3.0	2400.0			QL=4 ST=2 TYP=6
	600	GORK	40	F	0651.3	0652.2	1.4	13.0			
	900	GORK	40	F	0651.3	0651.5	2.5	12.0			

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

APRIL 2002

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
04	204	IZMI	7	C	0651.5	0651.5	0.1	35.0			
	3000	IZMI	22	GRF	0651.6	0652.3	2.7	20.0	6.0		
	9100	GORK	5	S	0652.4	0654.2	5.6	6.5			
	204	IZMI	41	F	0653.9	0654.8	1.5	22.0			
	245	SVTO	8	S	0706.0	0706.0	U	66.0			QL=4 ST=2 TYP=3
	2950	GORK	46	C	0751.3	0752.3	4.9	18.0			
	2950	GORK	46	C	0751.3	0753.5		8.2			
	245	LEAR	49	GB	0808.0	0808.0	1.0	1400.0			QL=4 ST=3 TYP=6
	200	HIRA	47	GB	0809.0	0809.0	1.0	755.0			0
	245	SVTO	49	GB	0809.0	0809.0	U	1300.0			QL=4 ST=2 TYP=6
	127	TORN	8	S	0809.0	0809.1	0.7	7200.0	3600.0		DISTURBED
	204	IZMI	46	C	0809.0	0809.2	1.2	3890.0			
	410	SVTO	8	S	0833.0	0834.0	1.0	91.0			QL=4 ST=2 TYP=3
	410	SVTO	48	C	0838.0	0838.0	3.0	66.0			QL=4 ST=2 TYP=8
	3000	IZMI	20	GRF	0903.1	0903.8	0.9	9.0			
	900	GORK	42	SER	0909.2	0929.2		30.0			
	900	GORK	42	SER	0909.2	0909.3	26.6	9.5			
	204	IZMI	42	SER	0949.4	0949.7	0.4	62.0			
	245	SVTO	48	C	1006.0	1006.0	2.0	290.0			QL=4 ST=2 TYP=8
	204	IZMI	46	C	1006.4	1006.5	0.7	394.0			
	204	IZMI	41	F	1042.9	1046.2	5.0	13.0			
	33	UPIC	46	C	1043.0	1044.0	4.0				
	4995	SVTO	8	S	1044.0	1045.0	1.0	31.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1044.0	1045.0	1.0	51.0			QL=4 ST=2 TYP=3
	3000	IZMI	22	GRF	1044.7	1045.3	1.5	8.0	4.0		
	15400	SVTO	8	S	1045.0	1045.0	U	23.0			QL=4 ST=2 TYP=3
	610	SVTO	48	C	1104.0	1107.0	4.0	97.0			QL=2 ST=2 TYP=8
	245	SGMR	48	C	1144.0	1145.0	3.0	100.0			QL=4 ST=2 TYP=8
	245	SGMR	8	S	1148.0	1149.0	1.0	170.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1148.5	1149.2	1.7	185.0			
	245	SVTO	8	S	1149.0	1149.0	U	140.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1151.0	1151.0	1.0	180.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1151.0	1151.0	U	46.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1151.0	1151.0	U	63.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1151.0	1151.0	1.0	150.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1151.0	1151.0	U	66.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1151.0	1151.0	U	75.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1151.7	1151.8	1.0	1097.0			
	204	IZMI	42	SER	1154.2	1154.6	0.7	20.0			
	245	SGMR	48	C	1217.0	1217.0	U	54.0			QL=4 ST=2 TYP=8
	245	SGMR	8	S	1334.0	1334.0	U	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1334.0	1334.0	U	87.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1411.0	1411.0	U	260.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1411.0	1411.0	U	210.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1434.0	1434.0	1.0	54.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1434.0	1434.0	U	40.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1434.1	1434.4	1.4	21.0	10.0		
	245	SGMR	8	S	1453.0	1453.0	U	52.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1527.0	1530.0	4.8	81.0	40.0		
	610	SGMR	8	S	1529.0	1529.0	U	29.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1529.0	1530.0	1.0	47.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1529.0	1530.0	1.0	58.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1529.0	1530.0	1.0	64.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1529.0	1530.0	1.0	86.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1529.0	1529.0	1.0	94.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1529.0	1530.0	1.0	44.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1529.0	1530.0	1.0	51.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1529.0	1530.0	1.0	66.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1529.0	1530.0	1.0	84.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1529.0	1529.0	1.0	84.0			QL=4 ST=2 TYP=3
	33	UPIC	4	S/F	1529.5	1529.8	1.0				
	245	SGMR	8	S	1531.0	1532.0	1.0	310.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1532.0	1532.0	U	250.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1535.0	1535.0	5.0	67.0			QL=4 ST=2 TYP=8
	245	SVTO	48	C	1535.0	1535.0	3.0	57.0			QL=4 ST=2 TYP=8
	235	CUBA	7	C	1541.7	1541.9	6.2	29.0	15.0		
	245	PALE	8	S	1942.0	1942.0	U	190.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1942.0	1942.0	U	140.0			QL=4 ST=2 TYP=3
	2804	VORO	45	C	2302.5	2303.0	4.3	30.5			

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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
04	200	HIRA	42	SER	2303.0	2305.0	9.0	20.0			0
	245	PALE	8	S	2303.0	2303.0	U	97.0			QL=4 ST=2 TYP=3
05	127	TORN	44	NS	0640.0E		460.0D		15.0		V=0
	245	LEAR	48	C	0452.0	0452.0	2.0	250.0			QL=4 ST=2 TYP=8
	245	SVTO	48	C	0452.0	0452.0	2.0	170.0			QL=4 ST=2 TYP=8
	2840	PEKG	1	S	0452.0	0455.4	6.0	8.5			
	200	HIRA	8	S	0559.0	0559.0	1.0	200.0			0
	204	IZMI	42	SER	0629.9	0630.5	1.1	1673.0			
	200	HIRA	8	S	0630.0	0631.0	1.0	380.0			0
	245	LEAR	8	S	0630.0	0630.0	U	370.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0630.0	0630.0	U	270.0			QL=4 ST=2 TYP=3
	200	HIRA	47	GB	0723.0	0725.0	6.0	575.0			WR
	245	LEAR	49	GB	0723.0	0724.0	2.0	860.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	0723.0	0724.0	2.0	610.0			QL=4 ST=2 TYP=6
	204	IZMI	41	F	0723.2	0723.5	0.8	193.0			
	2950	GORK	2	S/F	0724.8	0725.0	0.8	7.7			
	204	IZMI	46	C	0724.8	0724.9	0.8	2202.0			
	900	GORK	42	SER	0737.4	0959.2		100.0			
	900	GORK	42	SER	0737.4	0833.3	144.1	75.0			
	410	SVTO	8	S	0741.0	0741.0	U	110.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0746.0	0746.0	1.0	61.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0845.2	0845.2	0.1	16.0			
	410	LEAR	8	S	0908.0	0908.0	U	56.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1013.5	1013.6	0.5	68.0			
	204	IZMI	7	C	1018.6	1018.8	0.3	22.0			
	900	GORK	41	F	1035.7	1037.2	5.3	3.0			
	900	GORK	41	F	1035.7	1037.6		3.0			
	600	GORK	40	F	1036.5	1037.7	2.5	160.0			
	2950	GORK	7	C	1037.5	1037.8		5.3			
	2950	GORK	7	C	1037.5	1037.9	1.6	4.2			
	204	IZMI	7	C	1040.8	1040.9	0.1	6.0			
	245	SVTO	8	S	1046.0	1046.0	U	98.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	1046.9	1047.0	0.3	15.0			
	610	SVTO	8	S	1103.0	1103.0	U	230.0			QL=4 ST=2 TYP=3
	2800	PENT	21	GRF	1511.0	1519.0	14.0	5.0			
	245	PALE	8	S	2247.0	2247.0	U	75.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2247.0E	2247.0U	U	98.0			QL=4 ST=3 TYP=3
	200	HIRA	8	S	2248.0	2248.0	1.0	70.0			0
	2800	PENT	1	S	2335.0	2344.0	13.0	10.0			
	2804	VORO	42	SER	2338.3	2338.9	3.1	5.5			
	2804	VORO	42	SER	2338.3	2343.9	7.6	8.2			
	2840	PEKG	5	S	2341.0	2344.2	7.0	15.7			
06	127	TORN	44	NS	0820.0E		400.0D		17.0		V=0
	2804	VORO	8	S	0305.0	0305.1	0.9	7.9			
	2840	PEKG	3	S	0607.0	0614.5	14.0	18.5			
	204	IZMI	42	SER	0610.2	0610.7	0.7	12.0			
	3000	IZMI	22	GRF	0612.9	0614.2	3.9	15.1	6.5		
	245	LEAR	8	S	0617.0	0617.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0617.0	0618.0	1.0	85.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0617.2	0618.0	1.5	245.0			
	200	HIRA	8	S	0618.0	0618.0	1.0	95.0			0
	33	UPIC	3	S	0710.0	0710.5	1.0				
	127	TORN	46	C	0859.2	0900.0	1.6	1070.0	120.0		
	204	IZMI	41	F	0909.0	0910.0	1.8	85.0			
	204	IZMI	42	SER	0914.4	0914.7	1.7	17.0			
	204	IZMI	42	SER	1021.5	1021.8	0.5	6.0			
	610	SVTO	8	S	1103.0	1103.0	2.0	65.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2108.0	2108.0	U	70.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2108.0	2109.0	1.0	56.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2114.0	2114.0	U	53.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2131.0	2131.0	1.0	150.0			QL=4 ST=2 TYP=3
07	127	TORN	44	NS	0640.0E		500.0D		19.0		V=1
	200	HIRA	8	S	0003.0	0003.0	1.0	20.0			0
	200	HIRA	8	S	0159.0	0200.0	2.0	30.0			WR
	245	LEAR	4	S/F	0635.0	0635.0	6.0	74.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0635.0	0635.0	U	60.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 2002

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
07	204	IZMI	41	F	0635.4	0635.6	0.4	33.0			
	900	GORK	46	C	0758.3	0758.4	2.0	15.0			
	900	GORK	46	C	0758.3	0758.6		10.0			
	900	GORK	42	SER	1006.3	1008.2		140.0U			
	900	GORK	42	SER	1006.3	1007.9	21.7	140.0U			
	33	UPIC	42	SER	1243.0	1340.0	101.0				
	245	SGMR	8	S	1244.0	1244.0	U	430.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1244.0	1244.0	U	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1244.0	1244.0	U	350.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1244.0	1244.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1339.0	1340.0	1.0	450.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1340.0	1340.0	U	1600.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	1340.0	1340.0	U	2400.0			QL=4 ST=3 TYP=6
	1415	SGMR	49	GB	1419.0	1419.0	2.0	590.0			QL=4 ST=3 TYP=6
	1415	SVTO	49	GB	1419.0	1419.0	1.0	570.0			QL=4 ST=2 TYP=6
	9500	CUBA	20	GRF	1421.0	1506.0	64.0	7.0	3.0		
	245	SGMR	48	C	1814.0	1814.0	2.0	54.0			QL=4 ST=2 TYP=8
	410	SGMR	8	S	1816.0	1816.0	U	32.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1907.0	1907.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1942.0	1942.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2131.0	2131.0	U	51.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2335.0	2335.0	1.0	15.0			0
08	127	TORN	43	NS	0850.0		300.0		15.0		V=1
	235	CUBA	44	NS	1600.0E		350.0D		7.0		
	280	CUBA	44	NS	1600.0E		350.0D		17.0		
	410	LEAR	8	S	0014.0	0014.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0019.0	0019.0	2.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0019.0	0019.0	U	110.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0020.0	0020.0	1.0	105.0			0
	200	HIRA	8	S	0035.0	0035.0	1.0	35.0			0
	2804	VORO	40	F	0103.8	0106.6	6.8	6.1			
	245	PALE	8	S	0129.0	0130.0	1.0	180.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0130.0	0130.0	1.0	130.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0130.0	0131.0	1.0	56.0			QL=4 ST=2 TYP=3
	410	PALE	48	C	0130.0	0130.0	U	73.0			QL=4 ST=2 TYP=8
	500	HIRA	8	S	0131.0	0131.0	1.0	25.0			0
	200	HIRA	8	S	0131.0	0131.0	1.0	190.0			0
	410	LEAR	8	S	0210.0	0211.0	1.0	300.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0214.0	0214.0	U	140.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0259.0	0302.0	5.0	82.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0259.0	0301.0	3.0	72.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0259.0	0301.0	3.0	58.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0259.0	0301.0	6.0	20.6			
	1415	LEAR	8	S	0300.0	0301.0	2.0	5.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0300.0	0301.0	2.0	17.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0300.0	0301.0	2.0	40.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0300.0	0301.0	2.0	24.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0300.0	0302.0	4.0	46.0			QL=4 ST=2 TYP=3
	2804	VORO	2	S/F	0300.1	0301.1	3.1	19.8			
	500	HIRA	8	S	0301.0	0302.0	3.0	215.0			0
	200	HIRA	8	S	0302.0	0302.0	1.0	20.0			0
	410	PALE	8	S	0356.0	0356.0	U	280.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0357.0	0358.0	1.0	465.0			0
	410	LEAR	8	S	0357.0	0357.0	1.0	370.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0451.0	0451.0	U	440.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0451.0	0451.0	U	33.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0451.0	0451.0	U	230.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0452.0	0452.0	1.0	415.0			0
	2840	PEKG	5	S	0519.0	0521.9	8.0	21.1			
	200	HIRA	8	S	0521.0	0521.0	1.0	10.0			0
	500	HIRA	7	C	0533.0	0534.0	2.0	45.0			0
	245	LEAR	8	S	0548.0	0548.0	1.0	50.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0549.0	0549.0	1.0	20.0			0
	200	HIRA	8	S	0559.0	0559.0	1.0	15.0			0
	245	LEAR	8	S	0559.0	0559.0	U	83.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0559.0	0559.0	U	60.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0637.1	0637.5	0.9	9.0			
	204	IZMI	7	C	0708.1	0708.2	0.3	11.0			

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

APRIL 2002

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	900	GORK	8	S	0756.8	0757.0	0.5	135.0			
	204	IZMI	41	F	0811.3	0811.6	0.4	16.0			
	204	IZMI	42	SER	0812.9	0813.3	0.5	10.0			
	900	GORK	41	F	0905.3	0906.0		14.0			
	900	GORK	41	F	0905.3	0905.5	1.1	115.0			
	204	IZMI	41	F	0926.5	0926.9	0.9	54.0			
	204	IZMI	42	SER	0943.9	0946.0	2.5	19.0			
	33	UPIC	3	S	0945.0	0945.5	1.0				
	3000	IZMI	5	S	1108.4	1109.1	1.1	8.0	3.7		
	245	SGMR	8	S	1119.0	1119.0	U	51.0			QL=4 ST=2 TYP=3
	3000	IZMI	7	C	1119.4	1120.0	3.4	20.0	6.9		
	204	IZMI	41	F	1119.5	1119.8	0.6	124.0			
	610	SVTO	8	S	1144.0	1144.0	U	68.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1457.0	1457.0	U	54.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1457.0	1457.0	U	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1652.0	1652.0	1.0	280.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1652.0	1652.0	1.0	160.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1834.0	1834.0	U	250.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1834.0	1834.0	U	210.0			QL=4 ST=2 TYP=3
	2800	PENT	3	S	1838.0	1847.0	14.0	13.0			
	410	SGMR	8	S	1841.0	1841.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1854.0	1854.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1926.0	1926.0	1.0	320.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1930.0	1930.0	1.0	470.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1930.0	1930.0	U	48.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2127.0	2127.0	1.0	10.0			0
	500	HIRA	4	S/F	2319.0	2321.0	3.0	45.0			0
	245	PALE	8	S	2319.0	2319.0	U	29.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2319.0	2320.0	1.0	35.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2320.0	2320.0	U	65.0			QL=4 ST=2 TYP=3
09	245	LEAR	43	NS	0202.0	0204.0	376.0	72.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	0204.0	0328.0	148.0	100.0			QL=4 ST=2 TYP=1
	204	IZMI	43	NS	0600.0		60.0U		15.0		
	127	TORN	44	NS	0630.0E		190.0D		21.0		V=2
	245	SGMR	43	NS	1214.0	1424.0	249.0	230.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1310.0E		110.0D		5.0		
	280	CUBA	44	NS	1310.0E		110.0D		20.0		
	2804	VORO	32	ABS	0010.0	0156.2	290.0	14.7			
	2800	PENT	8	S	0035.0	0040.0	21.0	238.0			
	2840	PEKG	3	S	0036.0	0040.5	19.0	271.0			
	410	LEAR	49	GB	0038.0	0039.0	4.0	830.0			QL=4 ST=2 TYP=6
	245	PALE	48	C	0038.0	0042.0	8.0	3700.0			QL=4 ST=2 TYP=8
	245	PALE	48	C	0038.0	0042.0	9.0	3700.0			QL=4 ST=3 TYP=8
	245	PALE	48	C	0038.0	0041.0	1402.0	1700.0			QL=4 ST=3 TYP=8
	410	PALE	49	GB	0038.0	0039.0	1402.0	770.0			QL=4 ST=3 TYP=6
	2804	VORO	4	S/F	0038.9	0040.5	18.1	220.9			
	2800	HIRA	3	S	0039.0	0040.0	8.0	255.0			0
	245	LEAR	48	C	0039.0	0043.0	9.0	3100.0			QL=4 ST=3 TYP=8
	1415	LEAR	8	S	0039.0	0040.0	2.0	360.0			QL=4 ST=3 TYP=3
	2695	LEAR	8	S	0039.0	0040.0	2.0	260.0			QL=4 ST=3 TYP=3
	610	LEAR	4	S/F	0039.0	0040.0	3.0	460.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0039.0	0040.0	3.0	570.0			QL=4 ST=3 TYP=3
	610	PALE	8	S	0039.0	0039.0	2.0	470.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0039.0	0039.0	2.0	400.0			QL=4 ST=3 TYP=3
	2695	PALE	8	S	0039.0	0039.0	2.0	230.0			QL=4 ST=3 TYP=3
	4995	PALE	8	S	0039.0	0040.0	2.0	560.0			QL=4 ST=3 TYP=3
	8800	PALE	4	S/F	0039.0	0040.0	3.0	1000.0			QL=4 ST=3 TYP=3
	15400	PALE	4	S/F	0039.0	0040.0	3.0	1200.0			QL=4 ST=3 TYP=3
	500	HIRA	47	GB	0039.0	0041.0	13.0	785.0			0
	200	HIRA	47	GB	0039.0	0046.0	12.0	1135.0			0
	8800	LEAR	4	S/F	0039.0	0040.0	1401.0	1200.0			QL=4 ST=1 TYP=3
	8800	PALE	4	S/F	0039.0	0040.0	1401.0	1000.0			QL=4 ST=3 TYP=3
	15400	PALE	4	S/F	0039.0	0040.0	1401.0	1200.0			QL=4 ST=3 TYP=3
	15400	LEAR	8	S	0040.0	0040.0	2.0	1200.0			QL=4 ST=3 TYP=3
	8800	LEAR	8	S	0045.0	0045.0	1.0	32.0			QL=4 ST=3 TYP=3
	410	LEAR	8	S	0046.0	0046.0	2.0	85.0			QL=4 ST=3 TYP=3
	610	LEAR	8	S	0046.0	0046.0	U	39.0			QL=4 ST=3 TYP=3
	410	PALE	48	C	0046.0	0046.0	1.0	73.0			QL=4 ST=3 TYP=8

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

APRIL 2002

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
09	610	PALE	8	S	0046.0	0046.0	U	38.0			QL=4 ST=3 TYP=3
	245	PALE	49	GB	0115.0	0116.0	1.0	770.0			QL=4 ST=2 TYP=6
	410	PALE	48	C	0142.0	0149.0	10.0	81.0			QL=4 ST=3 TYP=8
	410	LEAR	48	C	0147.0	0150.0	4.0	100.0			QL=4 ST=2 TYP=8
	245	PALE	48	C	0153.0	0153.0	U	58.0			QL=4 ST=3 TYP=8
	410	LEAR	8	S	0156.0	0157.0	1.0	55.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0538.0	0538.0	U	660.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0538.0	0538.0	U	44.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	0538.0	0538.0	1.0	540.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	0538.0	0538.0	U	66.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0539.0	0539.0	1.0	345.0			0
	9100	GORK	3	S	0625.5	0625.8	0.5	115.0			
	500	HIRA	8	S	0641.0	0642.0	1.0	35.0			0
	200	HIRA	8	S	0641.0	0642.0	1.0	15.0			0
	410	LEAR	8	S	0641.0	0641.0	U	55.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0641.0	0641.0	U	37.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0641.0	0641.0	U	58.0			QL=4 ST=3 TYP=3
	610	SVTO	8	S	0641.0	0641.0	U	35.0			QL=4 ST=3 TYP=3
	600	GORK	4	S/F	0641.0	0641.4	0.7	70.0			
	410	SVTO	4	S/F	0642.0	0648.0	8.0	5.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0644.0	0644.0	U	3.0			QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0721.0	0731.0	17.0	33.9			
	2800	HIRA	1	S	0727.0	0731.0	8.0	30.0			0
	2950	GORK	46	C	0727.2	0730.0		25.3			
	2950	GORK	46	C	0727.2	0728.3	7.1	8.1			
	900	GORK	2	S/F	0727.3	0730.1	4.2	4.4			
	204	IZMI	22	GRF	0727.3	0730.7	7.9	28.0	12.0		
	600	GORK	46	C	0727.7	0729.0	1.8	6.6			
	600	GORK	46	C	0727.7	0730.2		25.0			
	9100	GORK	20	GRF	0729.1	0730.1	6.9	11.0			
	9100	GORK	4	S/F	0750.8	0751.0	0.5	150.0			
	204	IZMI	42	SER	0758.0	0758.3	0.7	15.0			
	204	IZMI	42	SER	0918.2	0918.3	0.5	15.0			
	204	IZMI	7	C	0939.4	0939.5	0.2	12.0			
	245	SGMR	8	S	1214.0	1214.0	U	86.0			QL=4 ST=2 TYP=3
	33	UPIC	4	S/F	1214.0	1214.5	1.7				
	127	TORN	8	S	1214.4	1214.7	1.2	450.0	220.0		
	4995	SVTO	4	S/F	1258.0	1301.0	8.0	240.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1259.0	1301.0	4.0	190.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1259.0	1301.0	5.0	260.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1259.0	1301.0	6.0	270.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1259.0	1301.0	5.0	160.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1259.0	1301.0	6.0	200.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1259.0	1301.0	10.0	110.0			QL=4 ST=2 TYP=3
	9500	CUBA	4	S/F	1259.0	1301.8	5.8	154.0	77.0		
	610	SGMR	8	S	1300.0	1302.0	2.0	82.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1301.0	1301.0	1.0	85.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1301.0	1301.0	2.0	110.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1301.0	1302.0	1.0	65.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1301.0	1301.0	3.0	89.0			QL=4 ST=2 TYP=3
	9500	CUBA	29	PBI	1304.8	1304.8	22.2	25.0	12.0		
	245	SVTO	8	S	1343.0	1343.0	U	110.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1420.0	1424.0	4.0	170.0			QL=4 ST=2 TYP=3
	33	UPIC	4	S/F	1420.0	1420.5	1.8				
	245	SVTO	8	S	1424.0	1424.0	U	220.0			QL=4 ST=3 TYP=3
	245	PALE	8	S	1725.0	1725.0	U	73.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1732.0	1733.0	2.0	75.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1846.0	1846.0	U	68.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1846.0	1846.0	U	60.0			QL=4 ST=2 TYP=3
	500	HIRA	7	C	2325.0	2331.0	8.0	25.0			0
	410	LEAR	8	S	2330.0	2330.0	1.0	91.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2330.0	2330.0	2.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2331.0	2331.0	U	55.0			QL=4 ST=2 TYP=3
10	245	PALE	43	NS	0153.0	0208.0	62.0	89.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0155.0	0159.0	79.0	71.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0630.0E		510.0D		15.0		V=1
	204	IZMI	43	NS	0809.0		84.0		20.0		
	245	LEAR	43	NS	0854.0	0854.0	47.0	60.0			QL=4 ST=2 TYP=1

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 2002

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
10	235	CUBA	44	NS	1310.0E		520.0D		8.0		
	280	CUBA	44	NS	1310.0E		520.0D		19.0		
	245	PALE	43	NS	2032.0	2112.0	398.0	100.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	2047.0	2138.0	88.0	100.0			QL=4 ST=2 TYP=1
	410	PALE	8	S	0006.0	0006.0	U	53.0			QL=4 ST=2 TYP=3
	2804	VORO	1	S	0007.5	0009.4	3.9	3.7			
	2800	PENT	40	F	0022.0	0059.0	46.0	58.0			
	2804	VORO	1	S	0028.8	0029.2	1.2	4.0			
	2840	PEKG	3	S	0040.0	0059.5	24.0	60.3			
	2804	VORO	46	C	0042.2	0049.8	25.4	61.8			
	2800	HIRA	7	C	0043.0	0100.0	19.0	150.0			0
	500	HIRA	7	C	0044.0	0056.0	19.0	20.0			0
	1415	LEAR	8	S	0048.0	0049.0	1.0	94.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0048.0	0050.0	2.0	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0107.0	0107.0	U	59.0			QL=4 ST=2 TYP=3
	2800	HIRA	3	S	0148.0	0150.0	8.0	80.0			0
	410	PALE	8	S	0254.0	0254.0	1.0	54.0			QL=4 ST=2 TYP=3
	2800	HIRA	8	S	0305.0	0306.0	2.0	65.0			0
	500	HIRA	8	S	0305.0	0306.0	2.0	10.0			0
	200	HIRA	8	S	0305.0	0306.0	2.0	190.0			0
	2804	VORO	46	C	0421.7	0424.8	8.3	34.2			
	2840	PEKG	45	C	0422.0	0424.8	10.0	26.9			
	500	HIRA	4	S/F	0423.0	0424.0	5.0	40.0			0
	2800	HIRA	1	S	0424.0	0425.0	4.0	35.0			0
	1415	LEAR	8	S	0424.0	0426.0	2.0	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0510.0	0510.0	U	91.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0510.0	0510.0	U	62.0			QL=4 ST=2 TYP=3
	600	GORK	46	C	0548.0	0548.2	1.1	12.0			
	600	GORK	46	C	0548.0	0548.3		15.0			
	600	GORK	40	F	0549.7	0551.5	2.3	10.0			
	900	GORK	40	F	0633.5	0634.2	1.2	7.3			
	204	IZMI	7	C	0633.8	0633.8	0.1	7.0			
	2840	PEKG	45	C	0640.0	0649.5	23.0	14.5			
	3000	IZMI	22	GRF	0645.2	0656.3	15.4	24.0	5.0		
	9100	GORK	20	GRF	0647.2	0653.6	14.3	13.0			
	410	LEAR	8	S	0648.0	0648.0	U	77.0			QL=4 ST=2 TYP=3
	600	GORK	1	S	0649.3	0649.7	0.7	6.0			
	900	GORK	46	C	0655.9	0656.2	3.4	9.8			
	900	GORK	46	C	0655.9	0656.5		15.0			
	1415	LEAR	8	S	0656.0	0656.0	U	59.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0656.0	0656.0	1.0	64.0			QL=4 ST=2 TYP=3
	600	GORK	40	F	0656.3	0657.9	2.3	11.0			
	245	LEAR	8	S	0742.0	0742.0	1.0	80.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0742.3	0742.6	2.0	16.0			
	2950	GORK	40	F	0756.1	0756.3	0.9	9.0			
	245	LEAR	8	S	0759.0	0759.0	U	500.0			QL=4 ST=2 TYP=3
	600	GORK	40	F	0817.8	0822.4		7.3			
	600	GORK	40	F	0817.8	0821.9	10.0	17.0			
	410	LEAR	8	S	0821.0	0821.0	U	60.0			QL=4 ST=2 TYP=3
	900	GORK	41	F	0827.6	0829.0		28.0			
	900	GORK	41	F	0827.6	0828.4		15.0			
	900	GORK	41	F	0827.6	0827.8	1.5	8.5			
	600	GORK	46	C	0834.9	0835.5	1.1	11.0			
	600	GORK	46	C	0834.9	0835.8		11.0			
	900	GORK	4	S/F	0835.1	0835.5	1.1	26.0			
	900	GORK	46	C	0837.7	0838.2	2.0	33.0			
	600	GORK	46	C	0837.7	0838.2	1.9	12.0			
	600	GORK	46	C	0837.7	0839.3		17.0			
	900	GORK	46	C	0837.7	0838.7		20.0			
	245	LEAR	8	S	0842.0	0842.0	U	62.0			QL=4 ST=2 TYP=3
	600	GORK	2	S/F	0845.1	0845.9	1.4	11.0			
	900	GORK	41	F	0937.3	0938.0	1.9	12.0			
	900	GORK	41	F	0937.3	0939.0		11.0			
	900	GORK	41	F	0937.3	0938.5		8.5			
	600	GORK	40	F	0939.4	0939.9	0.7	11.0			
	900	GORK	40	F	0957.2	0958.2	1.3	9.8			
	900	GORK	41	F	1002.1	1003.0		6.1			
	900	GORK	41	F	1002.1	1002.2	1.0D	23.0			
	1415	SVTO	48	C	1226.0	1229.0	7.0	150.0			QL=4 ST=3 TYP=8

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

APRIL 2002

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
10	2695	SGMR	48	C	1226.0	1228.0	17.0	530.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1226.0	1230.0	17.0	950.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1226.0	1228.0	17.0	1200.0			QL=4 ST=2 TYP=8
	2695	SVTO	48	C	1226.0	1228.0	10.0	510.0			QL=4 ST=3 TYP=8
	4995	SVTO	48	C	1226.0	1230.0	11.0	910.0			QL=4 ST=2 TYP=8
	4995	SVTO	48	C	1226.0	1230.0	11.0	910.0			QL=4 ST=3 TYP=8
	8800	SVTO	48	C	1226.0	1228.0	12.0	1100.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	1226.0	1228.0	12.0	1100.0			QL=4 ST=3 TYP=8
	8800	SVTO	49	GB	1226.0	1228.0	12.0	1100.0			QL=4 ST=2 TYP=6
	610	SVTO	4	S/F	1226.0	1229.0	11.0	190.0			QL=4 ST=2 TYP=3
	33	UPIC	32	ABS	1226.0	1234.0	54.0				
	127	TORN	48	C	1226.0	1231.2	20.0	500.0	20.0		
	1415	SVTO	48	C	1227.0	1229.0	6.0	150.0			QL=4 ST=2 TYP=8
	2695	SVTO	49	GB	1227.0	1228.0	9.0	510.0			QL=4 ST=2 TYP=6
	1415	SGMR	48	C	1227.0	1230.0	16.0	150.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	1227.0	1228.0	16.0	780.0			QL=4 ST=2 TYP=8
	15400	SVTO	48	C	1227.0	1228.0	10.0	740.0			QL=4 ST=3 TYP=8
	410	SVTO	48	C	1228.0	1230.0	5.0	160.0			QL=4 ST=3 TYP=8
	610	SVTO	48	C	1228.0	1229.0	9.0	190.0			QL=4 ST=3 TYP=8
	610	SGMR	48	C	1228.0	1229.0	15.0	65.0			QL=4 ST=2 TYP=8
	245	SVTO	48	C	1229.0	1233.0	8.0	280.0			QL=4 ST=3 TYP=8
	410	SVTO	4	S/F	1229.0	1230.0	4.0	160.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1229.0	1233.0	14.0	410.0			QL=4 ST=2 TYP=8
	410	SGMR	48	C	1229.0	1230.0	14.0	100.0			QL=4 ST=2 TYP=8
	127	TORN	47	GB	1230.0	1231.2	10.0	500.0	190.0		
	33	UPIC	46	C	1231.0	1232.0	2.0				
	15400	SVTO	49	GB	1237.0	1237.0	U	52.0			QL=4 ST=2 TYP=6
	33	UPIC	48	C	1244.0	1245.0	10.0				
	610	SGMR	4	S/F	1301.0	1302.0	3.0	190.0			QL=4 ST=2 TYP=3
	610	SVTO	48	C	1301.0	1302.0	3.0	270.0			QL=4 ST=3 TYP=8
	610	SVTO	48	C	1302.0	1302.0	U	270.0			QL=4 ST=2 TYP=8
	410	SGMR	8	S	1305.0	1305.0	U	33.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1848.0	1850.0	6.0	16.0			
	610	PALE	48	C	1853.0	1856.0	6.0	160.0			QL=4 ST=3 TYP=8
	610	SGMR	48	C	1853.0	1856.0	4.0	170.0			QL=4 ST=2 TYP=8
	2800	PENT	49	GB	1857.0	1903.0	33.0	438.0			
	610	SGMR	8	S	1858.0	1859.0	1.0	89.0			QL=4 ST=2 TYP=3
	410	SGMR	48	C	1901.0	1902.0	14.0	610.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1901.0	1903.0	14.0	490.0			QL=4 ST=2 TYP=8
	4995	SGMR	4	S/F	1901.0	1903.0	14.0	380.0			QL=4 ST=2 TYP=3
	235	CUBA	27	RF	1901.0E	2150.0	169.0D	30.0	15.0		
	280	CUBA	27	RF	1901.0	2150.0	169.0	45.0	22.0		
	235	CUBA	7	C	1901.6	1903.2	2.1	13.0	7.0		
	280	CUBA	7	C	1901.6	1903.9	2.9	410.0	205.0		
	610	SGMR	48	C	1902.0	1903.0	12.0	330.0			QL=4 ST=2 TYP=8
	1415	SGMR	48	C	1902.0	1903.0	12.0	300.0			QL=4 ST=2 TYP=8
	245	SGMR	49	GB	1902.0	1902.0	13.0	7700.0			QL=4 ST=2 TYP=6
	8800	SGMR	4	S/F	1902.0	1904.0	13.0	320.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1902.0	1904.0	13.0	180.0			QL=4 ST=2 TYP=3
	9500	CUBA	4	S/F	1902.0	1904.1	5.1	215.0	107.0		
	9500	CUBA	29	PBI	1907.1	1907.1	13.7	29.0	14.0		
	245	SGMR	8	S	1959.0	1959.0	1.0	420.0			QL=4 ST=2 TYP=3
	235	CUBA	7	C	2140.7	2141.3	1.2	54.0	27.0		
	280	CUBA	7	C	2140.7	2141.3	1.2	146.0	73.0		
11	245	LEAR	43	NS	0016.0	0056.0	287.0	130.0			QL=4 ST=3 TYP=1
	245	LEAR	43	NS	0016.0	0056.0	1424.0	130.0			QL=4 ST=3 TYP=1
	410	PALE	43	NS	0040.0	0056.0	40.0	85.0			QL=4 ST=2 TYP=1
	410	LEAR	43	NS	0043.0	0056.0	96.0	84.0			QL=4 ST=3 TYP=1
	410	LEAR	43	NS	0043.0	0056.0	1397.0	84.0			QL=4 ST=3 TYP=1
	235	CUBA	44	NS	1305.0E		415.0D		5.0		
	280	CUBA	44	NS	1305.0E		415.0D		15.0		
	2840	PEKG	1	S	0044.0	0046.3	7.0	5.2			
	2804	VORO	2	S/F	0044.7	0046.6	4.7	6.5			
	2804	VORO	4	S/F	0137.1	0139.8	8.4	72.2			
	2840	PEKG	3	S	0144.0	0149.8	15.0	13.5			
	1415	LEAR	8	S	0148.0	0149.0	2.0	74.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0148.0	0149.0	2.0	66.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0148.0	0149.0	2.0	99.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

APRIL 2002

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
11	8800	LEAR	8	S	0148.0	0149.0	2.0	120.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0148.0	0149.0	2.0	100.0			QL=4 ST=2 TYP=3
	15400	PALE	48	C	0148.0	0149.0	2.0	67.0			QL=4 ST=2 TYP=8
	2695	PALE	8	S	0148.0	0149.0	2.0	68.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0148.0	0149.0	2.0	130.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0148.0	0149.0	3.0	100.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0149.0	0149.0	1.0	64.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0304.0	0306.3	9.0	82.1			
	2695	PALE	8	S	0305.0	0306.0	1.0	52.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0305.0	0306.0	1.0	61.0			QL=4 ST=2 TYP=3
	2804	VORO	4	S/F	0305.6	0306.4	1.8	60.8			
	245	LEAR	8	S	0306.0	0306.0	U	270.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0306.0	0306.0	U	26.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0306.0	0306.0	U	52.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0306.0	0306.0	U	68.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0402.0	0402.0	U	120.0			QL=4 ST=2 TYP=3
	900	GORK	41	F	0756.6	0756.7	3.4	11.0			
	900	GORK	41	F	0756.6	0759.8		9.3			
	204	IZMI	7	C	0824.1	0824.1	0.2	14.0			
	204	IZMI	42	SER	0824.9	0825.4	1.3	127.0			
	2840	PEKG	1	S	0840.0	0843.1	7.0	4.8			
	900	GORK	2	S/F	0952.8	0953.2	0.8	11.0			
	2800	PENT	3	S	1613.0	1620.0	19.0U	87.0			
	2695	SGMR	8	S	1619.0	1620.0	2.0	95.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1619.0	1620.0	2.0	87.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2300.0	2301.0	1.0	20.0			0
12	245	LEAR	43	NS	0502.0	0634.0	192.0	230.0			QL=4 ST=2 TYP=1
	410	LEAR	43	NS	0505.0	0534.0	98.0	84.0			QL=4 ST=2 TYP=1
	204	IZMI	43	NS	0600.0		156.0		35.0		
	235	CUBA	44	NS	1315.0E		405.0D		7.0		
	280	CUBA	44	NS	1315.0E		405.0D		17.0		
	245	SGMR	43	NS	2116.0	2215.0	59.0	120.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2145.0	2146.0	135.0	89.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	2251.0	0208.0	225.0	110.0			QL=4 ST=3 TYP=1
	2804	VORO	41	F	0306.4	0309.0	3.6	2.5			
	2804	VORO	41	F	0306.4	0306.5	0.9	3.2			
	2840	PEKG	3	S	0442.0	0454.6	26.0	139.4			
	200	HIRA	42	SER	0448.0	0448.0	8.0	25.0			0
	2800	HIRA	3	S	0448.0	0454.0	14.0	125.0			0
	500	HIRA	7	C	0448.0	0454.0	32.0	170.0			0
	200	HIRA	21	GRF	0448.0	0609.0	127.0	40.0			0
	410	LEAR	48	C	0451.0	0453.0	3.0	87.0			QL=4 ST=2 TYP=8
	2695	LEAR	4	S/F	0451.0	0453.0	5.0	120.0			QL=4 ST=2 TYP=3
	610	LEAR	48	C	0452.0	0453.0	5.0	210.0			QL=4 ST=2 TYP=8
	1415	LEAR	48	C	0452.0	0454.0	4.0	70.0			QL=4 ST=2 TYP=8
	4995	LEAR	8	S	0453.0	0454.0	2.0	85.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	0453.0E	0454.0U	5.0D	170.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	0453.0E	0455.0U	4.0D	69.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0453.0E	0454.0U	5.0D	120.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0454.0E	0454.0U	3.0D	77.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0457.0E	0457.0U	1.0D	47.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	0458.0	0458.0	U	52.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	0458.0E	0458.0U	U	45.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0558.0	0558.0	1.0	30.0			0
	204	IZMI	7	C	0600.9	0600.9	0.2	38.0			
	15400	LEAR	8	S	0858.0	0858.0	U	77.0			QL=4 ST=2 TYP=3
	900	GORK	41	F	0946.2	0947.1	1.7	8.0			
	900	GORK	41	F	0946.2	0947.7		8.0			
	600	GORK	41	F	0946.8	0947.2	1.2	14.0			
	600	GORK	41	F	0946.8	0947.9		5.1			
	9100	GORK	5	S	0955.4	0957.5	4.3	11.0			
	600	GORK	8	S	1025.1	1025.2	0.3	16.0			
	900	GORK	2	S/F	1027.8	1029.2	4.0	7.0			
	600	GORK	40	F	1027.8	1028.2	3.2	70.0			
	245	SVTO	8	S	1028.0	1028.0	U	140.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1028.0	1028.0	2.0	400.0			QL=4 ST=2 TYP=3
	2950	GORK	3	S	1028.0	1028.2	0.6	28.0			
	204	IZMI	42	SER	1028.1	1028.2	2.8	76.0			

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

APRIL 2002

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
12	3000	IZMI	20	GRF	1028.1	1028.2	0.6	24.0	5.0		
	204	IZMI	7	C	1159.6	1159.7	0.2	14.0			
	2695	SGMR	48	C	1308.0	1309.0	4.0	81.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1308.0	1308.0	4.0	140.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1308.0	1308.0	4.0	150.0			QL=4 ST=2 TYP=8
	15400	SGMR	46	C	1308.0	1308.0	4.0	49.0			QL=4 ST=2 TYP=8
	610	SGMR	4	S/F	1308.0	1309.0	4.0	61.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1308.0	1309.0	2.0	68.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1308.0	1309.0	2.0	120.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1308.0	1309.0	2.0	110.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1308.0	1309.0	2.0	49.0			QL=4 ST=2 TYP=3
	9500	CUBA	45	C	1308.6	1309.0	3.4	98.0	49.0		
	1415	SGMR	46	C	1309.0	1310.0	3.0	37.0			QL=4 ST=2 TYP=8
	410	SGMR	8	S	1309.0	1309.0	U				QL=4 ST=2 TYP=3
	610	SVTO	8	S	1309.0	1309.0	U	87.0			QL=4 ST=2 TYP=3
	2800	PENT	24	R	1451.0	1600.0	100.0U	32.0			
	4995	SGMR	4	S/F	1559.0	1600.0	3.0	84.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1559.0	1600.0	3.0	75.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1559.0	1600.0	3.0	58.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1600.0	1600.0	2.0	23.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1600.0	1600.0	U	69.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1609.8	1610.1	2.1	52.0	26.0		
	2800	PENT	3	S	1729.0	1756.0	123.0U	70.0			
	9500	CUBA	22	GRF	1730.0	1756.0	77.0	55.0	27.0		
	410	SGMR	48	C	1741.0	1741.0	1.0	59.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1741.0	1756.0	41.0	94.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1743.0	1756.0	22.0	94.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	1743.0	1807.0	43.0	58.0			QL=4 ST=2 TYP=8
	610	SGMR	46	C	1744.0	1744.0	1.0	44.0			QL=4 ST=2 TYP=8
	4995	PALE	46	C	1745.0	1747.0	2.0	42.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	1746.0	1747.0	1.0	65.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1752.0	1756.0	5.0	58.0			QL=4 ST=2 TYP=8
	245	SGMR	8	S	1825.0	1826.0	1.0	70.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1825.0	1825.0	U	27.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1947.0	1947.0	U	63.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2038.0	2038.0	U	78.0			QL=4 ST=2 TYP=3
13	280	CUBA	44	NS	1330.0E		500.0D		16.0		
	410	SGMR	43	NS	2035.0	2041.0	6.0	87.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	2035.0	2041.0	205.0	87.0			QL=4 ST=1 TYP=1
	410	SGMR	43	NS	2035.0	2041.0	205.0	87.0			QL=4 ST=3 TYP=1
	245	SGMR	43	NS	2131.0	2212.0	41.0	360.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2145.0	0308.0	408.0	100.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0413.0	0413.0	U	61.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0458.0	0458.0	U	100.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0458.0	0458.0	U	90.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0519.0	0519.0	U	140.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0519.0	0519.0	U	88.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0648.1	0652.4	4.7	38.0			
	245	SVTO	8	S	0650.0	0650.0	U	59.0			QL=4 ST=2 TYP=3
	9100	GORK	1	S	0901.8	0903.9	3.6	8.0			
	900	GORK	42	SER	0908.4	0958.0		9.0			
	900	GORK	42	SER	0908.4	0919.3	50.4	12.0			
	9100	GORK	1	S	0935.2	0936.0	3.8	6.5			
	3000	IZMI	7	C	1009.6	1011.6	3.0	11.0	5.0		
	9100	GORK	20	GRF	1010.0	1012.0	7.2	8.1			
	2950	GORK	1	S	1010.0	1011.7	3.3	9.1			
	204	IZMI	7	C	1010.4	1010.4	0.1	6.0			
	3000	IZMI	20	GRF	1025.9	1104.9	71.1	12.0	6.0		
	9100	GORK	1	S	1051.8	1052.0	0.6	9.6			
	9500	CUBA	2	S/F	1333.8	1335.3	3.0	14.0	7.0		
	410	SGMR	8	S	1501.0	1501.0	U	90.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2035.0	2035.0	U	60.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2041.0	2041.0	U	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2131.0	2131.0	U	56.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	2132.0	2132.0	1.0	30.0			0
	500	HIRA	8	S	2135.0	2135.0	1.0	25.0			0
	2800	PENT	29	PBI	2154.0	2201.0	38.0U	8.0			
	200	HIRA	8	S	2213.0	2213.0	1.0	200.0			0

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 2002

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
13	245	LEAR	8	S	2339.0	2339.0	U	79.0			QL=4 ST=2 TYP=3
	2800	PENT	40	F	2353.0	2420.0	47.0	16.0			
14	235	CUBA	44	NS	1330.0E		390.0D		9.0		
	280	CUBA	44	NS	1330.0E		390.0D		19.0		
	245	SGMR	43	NS	1450.0	1607.0	220.0	170.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1639.0	1639.0	25.0	94.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1658.0	1806.0	107.0	130.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2041.0	0356.0	473.0	800.0			QL=4 ST=2 TYP=1
	410	LEAR	43	NS	2351.0	2351.0	9.0	61.0			QL=4 ST=3 TYP=1
	245	LEAR	8	S	0050.0	0050.0	U	370.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0050.0	0050.0	1.0	420.0			QL=4 ST=2 TYP=3
	2804	VORO	23	GRF	0315.5	0338.7	72.2	10.1			
	2840	PEKG	45	C	0320.0	0324.7	9.0	18.4			
	2804	VORO	45	C	0322.9	0324.7	3.8	14.4			
	4995	LEAR	8	S	0323.0	0324.0	2.0	59.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0324.0	0324.0	1.0	36.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0324.0	0324.0	1.0	47.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0404.0	0405.0	2.0	62.0			QL=4 ST=2 TYP=3
	410	PALE	48	C	0405.0	0405.0	U	51.0			QL=4 ST=2 TYP=8
	2840	PEKG	45	C	0448.0	0451.5	11.0	58.3			
	2800	HIRA	3	S	0449.0	0451.0	4.0	55.0			0
	245	LEAR	8	S	0449.0	0449.0	U	51.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0449.0	0451.0	3.0	100.0			QL=4 ST=2 TYP=3
	2804	VORO	2	S/F	0449.2	0451.4	3.9	34.6			
	4995	LEAR	8	S	0450.0	0451.0	1.0	110.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0450.0	0451.0	1.0	59.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0450.0	0451.0	1.0	43.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0450.0	0451.0	2.0	65.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0450.0	0451.0	4.0	84.0			QL=2 ST=2 TYP=3
	2840	PEKG	5	S	0534.0	0536.6	8.0	44.6			
	2800	HIRA	3	S	0536.0	0537.0	3.0	45.0			0
	500	HIRA	8	S	0536.0	0536.0	1.0	25.0			0
	410	LEAR	8	S	0536.0	0536.0	U	140.0			QL=4 ST=2 TYP=3
	9100	GORK	2	S/F	0536.1	0536.6	1.5	21.0			
	2950	GORK	4	S/F	0536.2	0536.7	6.0	54.0			
	600	GORK	46	C	0536.3	0536.7	1.1	31.0			
	900	GORK	2	S/F	0536.3	0536.9	2.1	6.7			
	600	GORK	46	C	0536.3	0536.9		26.0			
	204	IZMI	7	C	0633.2	0633.3	0.2	6.0			
	204	IZMI	42	SER	0641.3	0641.3	0.4	16.0			
	2840	PEKG	3	S	0649.0	0652.6	8.0	23.2			
	8800	SVTO	8	S	0651.0	0652.0	1.0	110.0			QL=4 ST=2 TYP=3
	9100	GORK	46	C	0651.2	0652.4		100.0			
	9100	GORK	46	C	0651.2	0651.8	3.0	47.0			
	3000	IZMI	7	C	0651.5	0652.5	1.8	31.0	9.0		
	2950	GORK	4	S/F	0651.7	0652.5	2.3	25.0			
	4995	LEAR	8	S	0652.0	0652.0	U	54.0			QL=4 ST=3 TYP=3
	8800	LEAR	8	S	0652.0	0652.0	U	100.0			QL=4 ST=3 TYP=3
	15400	LEAR	8	S	0652.0	0652.0	U	53.0			QL=4 ST=3 TYP=3
	4995	SVTO	8	S	0652.0	0652.0	U	53.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0652.0	0652.0	U	47.0			QL=4 ST=2 TYP=3
	9100	GORK	29	PBI	0654.2	0654.2	9.8	8.2			
	600	GORK	2	S/F	0654.3	0654.6	0.6	13.0			
	245	LEAR	8	S	0727.0	0728.0	1.0	940.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0728.0	0728.0	1.0	360.0			0
	245	SVTO	49	GB	0728.0	0728.0	U	670.0			QL=4 ST=2 TYP=6
	204	IZMI	42	SER	0728.1	0729.2	4.8	46.0			
	3000	IZMI	22	GRF	0729.2	0736.8	19.6	11.0	2.0		
	245	LEAR	8	S	0730.0	0730.0	U	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0730.0	0730.0	U	110.0			QL=4 ST=2 TYP=3
	600	GORK	42	SER	0730.0	0730.4	15.0	4.5			
	600	GORK	42	SER	0730.0	0736.5		5.6			
	245	LEAR	8	S	0734.0	0734.0	1.0	1500.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0734.0	0734.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	0734.0	0734.0	1.0	1200.0			QL=4 ST=3 TYP=6
	410	SVTO	8	S	0734.0	0735.0	1.0	360.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0734.0	0737.1	6.0	9.4			
	204	IZMI	46	C	0734.4	0735.2	3.0	558.0			

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

APRIL 2002

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	2950	GORK	1	S	0734.7	0736.7	4.1	8.8			
	200	HIRA	8	S	0735.0	0735.0	2.0	285.0			0
	9100	GORK	22	GRF	0736.2	0741.5		8.0			
	9100	GORK	22	GRF	0736.2	0736.9	9.0	13.0			
	900	GORK	8	S	0738.5	0738.7	0.4	16.0			
	245	LEAR	8	S	0740.0	0740.0	U	70.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0740.5	0741.1	1.3	22.0			
	33	UPIC	46	C	0746.5	0748.0	13.0				
	204	IZMI	42	SER	0846.1	0846.9	1.2	31.0			
	900	GORK	41	F	1004.6	1007.3		13.0			
	900	GORK	41	F	1004.6	1004.8	3.2	11.0			
	900	GORK	41	F	1004.6	1005.8		29.0			
	9500	CUBA	2	S/F	1338.3	1339.1	2.6	15.0	7.0		
	245	SGMR	8	S	1450.0	1450.0	U	62.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1519.0	1519.0	U	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1532.0	1532.0	U	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1538.0	1538.0	2.0	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1601.0	1601.0	U	91.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1606.0	1606.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1612.0	1612.0	U	60.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1639.0	1639.0	U	54.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1650.0	1650.0	U	68.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1913.0	1913.0	1.0	95.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1913.0	1913.0	U	67.0			QL=4 ST=2 TYP=3
	2800	PENT	40	F	2045.0	2054.0	49.0	11.0			
	245	SGMR	48	C	2141.0	2141.0	U	55.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	2154.0	2200.0	8.0	110.0			QL=4 ST=2 TYP=8
	410	SGMR	8	S	2200.0	2200.0	U	59.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	2221.0	2223.0	5.0	80.0			QL=4 ST=2 TYP=8
	2800	PENT	1	S	2222.0	2225.0	6.0	8.0			
	245	LEAR	48	C	2253.0	2255.0	5.0	120.0			QL=4 ST=3 TYP=8
	410	LEAR	48	C	2253.0	2253.0	U	52.0			QL=4 ST=3 TYP=8
	410	PALE	8	S	2253.0	2253.0	U	60.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	2305.0	2311.0	7.0	150.0			QL=4 ST=2 TYP=8
	410	LEAR	8	S	2311.0	2311.0	1.0	480.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	2312.0	2312.0	1.0	40.0			
	245	PALE	8	S	2312.0	2312.0	U	210.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2312.0	2312.0	U	900.0			QL=4 ST=2 TYP=3
	2800	PENT	3	S	2332.0	2410.0	67.0	57.0			
15	410	PALE	43	NS	0014.0	0047.0	127.0	140.0			QL=4 ST=2 TYP=1
	410	PALE	43	NS	0352.0	0358.0	42.0	100.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0432.0	0712.0U	197.0	110.0			QL=4 ST=3 TYP=1
	204	IZMI	43	NS	0600.0		360.0D		40.0		
	127	TORN	44	NS	0900.0E		380.0D		95.0		V=2
	245	SGMR	43	NS	1043.0	1120.0	797.0	530.0			QL=4 ST=3 TYP=1
	410	SVTO	43	NS	1142.0	1142.0	162.0	300.0			QL=4 ST=3 TYP=1
	235	CUBA	44	NS	1305.0E		355.0D		32.0		
	280	CUBA	44	NS	1305.0E		355.0D		69.0		
	410	PALE	43	NS	1729.0	1756.0	30.0	74.0			QL=4 ST=2 TYP=1
	410	SGMR	43	NS	1747.0	1756.0	28.0	65.0			QL=4 ST=2 TYP=1
	410	PALE	43	NS	2208.0	2217.0	220.0	80.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2252.0	0108.0	154.0	230.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2313.0	0105.0	47.0	250.0			QL=4 ST=3 TYP=1
	410	LEAR	43	NS	2351.0	0025.0	309.0	100.0			QL=4 ST=2 TYP=1
	1415	LEAR	48	C	0000.0	0004.0	5.0	780.0			QL=4 ST=2 TYP=8
	2800	HIRA	7	C	0000.0	0011.0	16.0	55.0			
	8800	PALE	48	C	0000.0	0006.0	26.0	210.0			QL=4 ST=2 TYP=8
	15400	LEAR	48	C	0000.0	0006.0	52.0	150.0			QL=4 ST=2 TYP=8
	2804	VORO	45	C	0000.0	0005.9	17.5	61.5			
	2840	PEKG	45	C	0000.0	0005.9	20.0	56.9			
	8800	LEAR	48	C	0001.0	0006.0	10.0	160.0			QL=4 ST=2 TYP=8
	4995	LEAR	48	C	0002.0	0005.0	9.0	100.0			QL=4 ST=2 TYP=8
	4995	PALE	48	C	0003.0	0010.0	12.0	120.0			QL=4 ST=2 TYP=8
	245	PALE	48	C	0006.0	0024.0	22.0	260.0			QL=4 ST=2 TYP=8
	2695	LEAR	8	S	0010.0	0010.0	1.0	59.0			QL=4 ST=2 TYP=3
	2695	PALE	46	C	0010.0	0010.0	1.0	43.0			QL=4 ST=2 TYP=8
	15400	PALE	48	C	0010.0	0010.0	1.0	75.0			QL=4 ST=2 TYP=8
	610	LEAR	46	C	0031.0	0031.0	1.0	31.0			QL=4 ST=2 TYP=8

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

APRIL 2002

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
15	2804	VORO	28	PRE	0247.4	0250.4	12.6	3.4			
	500	HIRA	7	C	0255.0	0331.0	60.0	245.0			
	2804	VORO	46	C	0300.0	0314.6	50.0	41.0			
	1415	PALE	48	C	0304.0	0314.0	27.0	180.0			QL=4 ST=2 TYP=8
	610	LEAR	48	C	0304.0	0314.0	33.0	280.0			QL=4 ST=2 TYP=8
	610	PALE	48	C	0304.0	0314.0	42.0	220.0			QL=4 ST=2 TYP=8
	1415	LEAR	48	C	0306.0	0314.0	14.0	160.0			QL=4 ST=2 TYP=8
	2840	PEKG	45	C	0310.0E	0316.8	15.0D	17.2			
	2695	PALE	46	C	0313.0	0314.0	4.0	43.0			QL=4 ST=2 TYP=8
	2695	LEAR	46	C	0314.0	0314.0	2.0	37.0			QL=4 ST=2 TYP=8
	4995	PALE	46	C	0314.0	0314.0	2.0	44.0			QL=4 ST=2 TYP=8
	245	LEAR	48	C	0318.0	0318.0	U	510.0			QL=2 ST=2 TYP=8
	410	LEAR	48	C	0322.0	0323.0	4.0	140.0			QL=2 ST=2 TYP=8
	410	LEAR	48	C	0322.0	0332.0	16.0	170.0			QL=2 ST=2 TYP=8
	200	HIRA	8	S	0325.0	0326.0	1.0	50.0			
	2840	PEKG	45	C	0326.0	0330.8	8.0	6.8			
	410	PALE	48	C	0329.0	0339.0	17.0	180.0			QL=2 ST=2 TYP=8
	245	PALE	48	C	0334.0	0346.0	18.0	830.0			QL=2 ST=2 TYP=8
	245	LEAR	48	C	0344.0	0346.0	9.0	530.0			QL=2 ST=2 TYP=8
	204	IZMI	42	SER	0711.8	0712.5	1.7	11.0			
	245	LEAR	8	S	0712.0	0712.0	U	140.0			QL=4 ST=2 TYP=3
	900	GORK	2	S/F	0835.6	0836.0	0.6	12.0			
	245	LEAR	49	GB	0849.0	0852.0	4.0	1300.0			QL=4 ST=2 TYP=6
	410	LEAR	49	GB	0849.0	0851.0	3.0	1200.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	0849.0	0851.0	4.0	1800.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	0851.0	0852.0	2.0	1400.0			QL=4 ST=2 TYP=6
	204	IZMI	42	SER	0851.3	0851.4	0.7	3142.0			
	204	IZMI	42	SER	0852.7	0852.9	0.7	7000.0			
	245	SVTO	8	S	0906.0	0906.0	1.0	55.0			QL=4 ST=3 TYP=3
	900	GORK	41	F	0925.7	0926.4		18.0			
	900	GORK	41	F	0925.7	0925.9	1.1	26.0			
	245	LEAR	48	C	0947.0	0947.0	2.0	74.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	0952.0	0952.0	1.0	120.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0952.0	0952.0	2.0	490.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0952.3	0952.3	1.8	333.0			
	245	SVTO	48	C	1029.0	1029.0	1.0	54.0			QL=4 ST=3 TYP=8
	245	SVTO	8	S	1029.0	1029.0	1.0	54.0			QL=4 ST=3 TYP=3
	204	IZMI	25	R	1051.0		45.0		170.0		
	610	SVTO	8	S	1106.0	1107.0	1.0	100.0			QL=4 ST=3 TYP=3
	610	SVTO	8	S	1106.0	1107.0	1.0	180.0			QL=4 ST=3 TYP=3
	245	SVTO	49	GB	1119.0	1120.0	1.0	550.0			QL=4 ST=2 TYP=6
	127	TORN	4	S/F	1119.1	1119.6	1.1	370.0	170.0		DISTURBED
	410	SGMR	48	C	1139.0	1142.0	3.0	200.0			QL=4 ST=2 TYP=8
	204	IZMI	42	SER	1142.7	1142.9	0.3	419.0			
	2800	PENT	3	S	1733.0	1741.0	26.0	36.0			
	245	SGMR	4	S/F	1741.0	1743.0	6.0	320.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1741.0	1742.0	6.0	68.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1741.0	1744.0	3.0	57.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1741.0	1743.0	4.0	34.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1742.0	1742.0	2.0	26.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1743.0	1743.0	1.0	24.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1924.0	1925.0	1.0	94.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1924.0	1924.0	1.0	71.0			QL=4 ST=2 TYP=3
	410	PALE	48	C	2105.0	2107.0	5.0	51.0			QL=4 ST=2 TYP=8
	410	PALE	8	S	2115.0	2115.0	U	220.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	2306.0	2311.8	20.0	41.2			
	2800	HIRA	1	S	2309.0	2312.0	7.0	30.0			0
	2804	VORO	42	SER	2309.4	2321.4	12.0	7.1			
	2804	VORO	42	SER	2309.4	2311.8	9.1	28.7			
	15400	PALE	48	C	2310.0	2311.0	3.0	63.0			QL=4 ST=2 TYP=8
	4995	PALE	8	S	2310.0	2311.0	2.0	62.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2310.0	2311.0	2.0	100.0			QL=4 ST=2 TYP=3
	2695	PALE	46	C	2311.0	2311.0	U	31.0			QL=4 ST=2 TYP=8
	410	PALE	48	C	2347.0	2426.0	41.0	110.0			QL=4 ST=2 TYP=8
	1415	PALE	48	C	2359.0	2405.0	7.0	1200.0			QL=4 ST=2 TYP=8
16	245	LEAR	43	NS	0423.0	0512.0	179.0	540.0			QL=4 ST=3 TYP=1
	245	SVTO	43	NS	0430.0	0511.0U	172.0	240.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		70.0		

S O L A R R A D I O E M I S S I O N
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APRIL 2002

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
16	127	TORN	44	NS	0630.0E		510.0D		340.0		V=1
	245	SGMR	43	NS	1327.0	1515.0	190.0	290.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1646.0	1802.0	709.0	450.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1713.0	1802.0	146.0	350.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1900.0E		170.0D		55.0		
	280	CUBA	44	NS	1900.0E		170.0D		59.0		
	245	SGMR	43	NS	2006.0	2209.0	169.0	290.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2247.0	0010.0	666.0	190.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2252.0	0108.0	154.0	230.0			QL=4 ST=3 TYP=1
	245	LEAR	8	S	0108.0	0108.0	U	230.0			QL=4 ST=3 TYP=3
	200	HIRA	8	S	0114.0	0115.0	2.0	25.0			0
	245	LEAR	8	S	0126.0	0126.0	U	160.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0214.0	0214.0	1.0	255.0			WL
	245	LEAR	8	S	0214.0	0214.0	U	130.0			QL=2 ST=3 TYP=3
	200	HIRA	8	S	0336.0	0336.0	1.0	200.0			WL
	410	LEAR	8	S	0505.0	0505.0	U	110.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0505.0	0505.0	2.0	55.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0801.0	0801.0	1.0	290.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0801.0	0801.0	U	190.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0911.0	0911.0	U	53.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1002.0	1002.0	U	260.0			QL=4 ST=2 TYP=3
	410	SVTO	48	C	1005.0	1009.0	6.0	160.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	1008.0	1009.0	1.0	150.0			QL=4 ST=3 TYP=3
	410	SVTO	48	C	1021.0	1044.0	23.0	800.0			QL=2 ST=2 TYP=8
	3000	IZMI	22	GRF	1039.4	1043.3	7.7	28.0	8.9		
	4995	SVTO	8	S	1041.0	1043.0	2.0	49.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1041.0	1043.0	2.0	61.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	1041.0	1043.0	4.0	300.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1041.0	1043.0	3.0	53.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	1041.5	1042.0	1.0				
	610	SGMR	8	S	1043.0	1044.0	1.0	250.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1043.0	1043.0	U	33.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1043.0	1043.0	U	41.0			QL=4 ST=2 TYP=3
	245	SGMR	46	C	1044.0	1046.0	2.0	29.0			QL=4 ST=2 TYP=8
	410	SGMR	48	C	1044.0	1044.0	2.0	550.0			QL=4 ST=2 TYP=8
	204	IZMI	46	C	1045.8	1045.9	3.8	171.0			
	15400	SVTO	48	C	1306.0	1310.0	9.0	72.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1306.0	1311.0	16.0	66.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1306.0	1311.0	17.0	110.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	1306.0	1311.0	17.0	68.0			QL=4 ST=2 TYP=8
	2695	SGMR	46	C	1310.0	1311.0	1.0	30.0			QL=4 ST=1 TYP=8
	245	SGMR	46	C	1315.0	1319.0	8.0	32.0			QL=4 ST=2 TYP=8
	2695	SGMR	46	C	1315.0	1319.0	8.0	21.0			QL=4 ST=2 TYP=8
	2800	PENT	20	GRF	1754.0	1821.0	67.0	7.0			
	2800	PENT	21	GRF	2130.0	2208.0	63.0U	14.0			
	410	LEAR	8	S	2333.0	2333.0	U	110.0			QL=4 ST=2 TYP=3
17	245	SVTO	43	NS	0441.0	0448.0	31.0	57.0			QL=4 ST=2 TYP=1
	245	SVTO	44	NS	0540.0E	0754.0	141.0D	150.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		105.0		
	127	TORN	44	NS	0630.0E		510.0D		990.0		V=1
	33	UPIC	43	NS	0749.0		322.0				
	245	SVTO	43	NS	1041.0	1101.0U	67.0	62.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1114.0	1129.0	75.0	110.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1320.0E		510.0D		6.0		
	280	CUBA	44	NS	1320.0E		510.0D		19.0		
	245	PALE	43	NS	2344.0	0319.0	291.0	160.0			QL=4 ST=2 TYP=1
	200	HIRA	8	S	0126.0	0126.0	1.0	25.0			ML
	2804	VORO	1	S	0150.5	0150.7	1.1	3.2			
	200	HIRA	8	S	0151.0	0151.0	1.0	120.0			WL
	500	HIRA	8	S	0655.0	0655.0	1.0	25.0			0
	9100	GORK	48	C	0711.0	0815.0	229.0D	420.0			
	9100	GORK	48	C	0711.0	0857.7		2000.0			
	2840	PEKG	47	GB	0717.0	0857.4	183.0	3511.8			
	900	GORK	47	GB	0739.0	0904.0	201.0D	30300.0			
	3000	IZMI	45	C	0741.4	0808.2	30.3	433.0			
	2695	LEAR	48	C	0746.0	0816.0	974.0	930.0			QL=4 ST=1 TYP=8
	2695	LEAR	48	C	0746.0	0857.0	974.0	4100.0			QL=4 ST=1 TYP=8
	4995	LEAR	48	C	0746.0	0815.0	974.0	800.0			QL=4 ST=1 TYP=8

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

APRIL 2002

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
17	4995	LEAR	48	C	0746.0	0857.0	974.0	3500.0			QL=4 ST=1 TYP=8
	8800	LEAR	48	C	0746.0	0815.0	974.0	480.0			QL=4 ST=1 TYP=8
	8800	LEAR	48	C	0746.0	0857.0	974.0	2300.0			QL=4 ST=1 TYP=8
	2695	LEAR	48	C	0747.0	0845.0	126.0	4100.0			QL=4 ST=2 TYP=8
	4995	LEAR	48	C	0747.0	0845.0	126.0	3500.0			QL=4 ST=2 TYP=8
	8800	LEAR	48	C	0748.0	0845.0	125.0	2300.0			QL=4 ST=2 TYP=8
	1415	LEAR	48	C	0748.0	0847.0	972.0	3500.0			QL=4 ST=1 TYP=8
	1415	LEAR	48	C	0750.0	0845.0	123.0	3500.0			QL=4 ST=2 TYP=8
	1415	SVTO	48	C	0751.0	0847.0	174.0	3600.0			QL=4 ST=2 TYP=8
	610	LEAR	48	C	0753.0	0842.0	120.0	16000.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	0753.0	0857.0	139.0	2400.0			QL=4 ST=2 TYP=8
	610	SVTO	48	C	0753.0	0905.0	168.0	20000.0			QL=4 ST=2 TYP=8
	4995	SVTO	48	C	0753.0	0857.0	164.0	4200.0			QL=4 ST=3 TYP=8
	2695	SVTO	48	C	0753.0	0857.0	172.0	3000.0			QL=4 ST=2 TYP=8
	410	LEAR	48	C	0756.0	0846.0	964.0	3000.0			QL=4 ST=1 TYP=8
	410	LEAR	48	C	0756.0	0853.0	964.0	9200.0			QL=4 ST=1 TYP=8
	410	LEAR	48	C	0757.0	0845.0	116.0	9200.0			QL=4 ST=2 TYP=8
	410	SVTO	48	C	0757.0	0907.0	164.0	19000.0			QL=4 ST=2 TYP=8
	245	SVTO	48	C	0801.0	0901.0	160.0	4500.0			QL=2 ST=3 TYP=8
	204	IZMI	46	C	0802.8	0817.7	28.7	316.0			
	15400	LEAR	48	C	0803.0	0845.0	110.0	240.0			QL=4 ST=2 TYP=8
	15400	SVTO	48	C	0803.0	0857.0	150.0	930.0			QL=4 ST=2 TYP=8
	245	LEAR	48	C	0805.0	0814.0	955.0	570.0			QL=2 ST=1 TYP=8
	245	LEAR	49	GB	0805.0	0816.0	955.0	890.0			QL=2 ST=1 TYP=6
	127	TORN	24	R	0812.0				2660.0		
	3000	IZMI	46	C	0812.1	0857.8	124.3	3528.0			
	245	LEAR	48	C	0830.0	0831.0	1.0	220.0			QL=2 ST=2 TYP=8
	204	IZMI	46	C	0832.0	0905.5	144.1	1110.0			
	245	LEAR	48	C	0836.0	0844.0	77.0	890.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	1001.0E	1023.0U	73.0D	150.0			QL=4 ST=2 TYP=8
	410	SGMR	48	C	1002.0E	1013.0U	72.0D	250.0			QL=4 ST=2 TYP=8
	1415	SGMR	48	C	1008.0E	1016.0U	66.0D	300.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1008.0E	1016.0U	66.0D	230.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1014.0E	1016.0U	60.0D	200.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1032.0E	1033.0U	28.0D	62.0			QL=4 ST=2 TYP=8
	3000	IZMI	7	C	1124.1	1124.4	0.7	19.0	10.9		
	245	SVTO	8	S	1413.0	1413.0	U	290.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1413.0	1413.0	U	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1559.0	1559.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1559.0	1559.0	U	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1643.0	1643.0	U	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1657.0	1657.0	2.0	82.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1702.0	1702.0	U	77.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1912.0	1913.0	1.0	290.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1912.0	1912.0	1.0	210.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1932.0	1933.0	1.0	210.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1933.0	1933.0	U	290.0			QL=4 ST=2 TYP=3
	200	HIRA	47	GB	2010.0	2010.0	1.0	635.0			0
	245	PALE	8	S	2010.0	2010.0	1.0	2400.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2010.0	2010.0	U	2000.0			QL=4 ST=3 TYP=3
	245	PALE	8	S	2125.0	2126.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2126.0	2126.0	U	130.0			QL=4 ST=2 TYP=3
18	245	LEAR	43	NS	0000.0	0000.0	20.0	57.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0223.0	0223.0	20.0	68.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0312.0	0319.0	58.0	160.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		20.0		
	127	TORN	44	NS	0740.0E		440.0D		100.0		V=2
	245	SGMR	43	NS	1734.0	1734.0	67.0	140.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1752.0	1802.0	49.0	110.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1800.0E		230.0D		10.0		
	280	CUBA	44	NS	1800.0E		230.0D		22.0		
	200	HIRA	8	S	0101.0	0101.0	1.0	115.0			0
	245	LEAR	8	S	0101.0	0101.0	U	73.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0109.0	0109.0	1.0	40.0			0
	410	LEAR	8	S	0109.0	0109.0	U	400.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0143.0	0145.0	3.0	100.0			WR
	245	LEAR	8	S	0145.0	0145.0	U	160.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0504.0	0504.0	U	200.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N
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APRIL 2002

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
18	245	SVTO	8	S	0504.0	0504.0	U	140.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0505.0	0505.0	1.0	155.0			0
	204	IZMI	7	C	0604.7	0604.7	0.1	32.0			
	2840	PEKG	20	GRF	0636.0	0640.6	12.0	11.3			
	900	GORK	46	C	0638.7	0642.3	9.1	10.0			
	900	GORK	46	C	0638.7	0645.4		6.8			
	1415	LEAR	48	C	0640.0	0640.0	5.0	130.0			QL=4 ST=2 TYP=8
	1415	SVTO	48	C	0640.0	0640.0	5.0	140.0			QL=4 ST=2 TYP=8
	9100	GORK	20	GRF	0856.2	0857.9	22.8	15.0			
	900	GORK	42	SER	0856.7	0857.5	37.1	29.0			
	900	GORK	42	SER	0856.7	0928.7		43.0			
	245	LEAR	4	S/F	0910.0	0911.0	3.0	87.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0911.0	0911.0	U	74.0			QL=4 ST=2 TYP=3
	33	UPIC	42	SER	1001.0	1030.0U	160.0				
	204	IZMI	42	SER	1042.3	1042.4	0.4	29.0			
	245	SGMR	8	S	1138.0	1138.0	2.0	57.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1212.0	1212.0	U	60.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1317.0	1317.0	U	92.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1317.0	1317.0	U	73.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1429.0	1429.0	1.0	120.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	1430.0	1430.0	U	97.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1700.0	1700.0	1.0	77.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1734.0	1734.0	U	150.0			QL=4 ST=2 TYP=3
19	204	IZMI	44	NS	0600.0E		360.0D		10.0		
	127	TORN	44	NS	0630.0E		510.0D		19.0		V=1
	235	CUBA	44	NS	1300.0E		530.0D		6.0		
	280	CUBA	44	NS	1300.0E		530.0D		17.0		
	2804	VORO	1	S	0011.6	0012.2	1.2	3.6			
	245	LEAR	8	S	0629.0	0629.0	U	57.0			QL=4 ST=2 TYP=3
	9100	GORK	4	S/F	0646.8	0647.7	2.7	37.0			
	2840	PEKG	1	S	0657.0	0700.0	8.0	6.4			
	9100	GORK	46	C	0659.8	0700.5	5.0	46.0			
	9100	GORK	46	C	0659.8	0703.5		9.8			
	500	HIRA	8	S	0700.0	0700.0	4.0	25.0			0
	200	HIRA	8	S	0700.0	0700.0	5.0	60.0			0
	245	LEAR	8	S	0700.0	0700.0	U	98.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0700.0	0700.0	U	75.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0700.0	0700.0	U	55.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0700.2	0700.4	0.8	139.0			
	204	IZMI	41	F	0702.9	0703.4	1.1	43.0			
	204	IZMI	42	SER	0939.0	0939.5	0.8	157.0			
	204	IZMI	42	SER	1001.3	1001.8	1.9	73.0			
	9500	CUBA	2	S/F	1350.0	1350.5	1.5	14.0	7.0		
	2800	PENT	21	GRF	1535.0	1549.0	57.0U	5.0			
	9500	CUBA	2	S/F	2006.0	2006.8	1.8	17.0	8.0		
20	127	TORN	44	NS	0630.0E		510.0D		30.0		V=1
	235	CUBA	44	NS	1320.0E		510.0D		6.0		
	280	CUBA	44	NS	1320.0E		510.0D		15.0		
	2840	PEKG	1	S	0423.0	0426.0	9.0	4.3			
	204	IZMI	42	SER	0647.0	0647.1	1.0	106.0			
	9100	GORK	1	S	0929.4	0929.8	1.0	6.6			
	900	GORK	46	C	0936.3	0936.5	0.7	33.0			
	900	GORK	46	C	0936.3	0936.7		29.0			
	204	IZMI	42	SER	1155.3	1155.6	1.1	90.0			
	245	SVTO	8	S	1331.0	1331.0	U	67.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1332.0	1332.0	U	63.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1738.6	1738.7	0.7	14.0	7.0		
	245	SGMR	8	S	1945.0	1945.0	U	58.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2013.0	2013.0	U	61.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	2013.0	2013.0	U	53.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2032.0	2032.0	U	57.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2311.0	2311.0	1.0	10.0			0
	2840	PEKG	1	S	2323.0	2326.5	9.0	6.1			
	2804	VORO	2	S/F	2325.7	2326.4	1.8	6.6			
21	127	TORN	43	NS	0745.0		435.0		14.0		V=0
	235	CUBA	44	NS	1300.0E		420.0D		6.0		

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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
21	280	CUBA	44	NS	1300.0E		420.0D		15.0		
	2800	PENT	47	GB	0040.0	0115.0	35.0U	566.0			
	2840	PEKG	47	GB	0040.0	0226.3	201.0	1731.3			
	2800	HIRA	47	GB	0044.0	0131.0	178.0	1960.0			0
	4995	PALE	48	C	0057.0	0123.0	144.0	2900.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	0058.0	0123.0	140.0	2800.0			QL=4 ST=2 TYP=8
	2695	PALE	48	C	0058.0	0227.0	150.0	1800.0			QL=4 ST=2 TYP=8
	200	HIRA	7	C	0102.0	0131.0	123.0	185.0			0
	500	HIRA	47	GB	0106.0	0212.0	160.0	2690.0			WL
	1415	PALE	45	C	0108.0	0203.0	134.0				QL=4 ST=2 TYP=8
	15400	PALE	48	C	0110.0	0123.0	102.0	1400.0			QL=4 ST=2 TYP=8
	410	PALE	48	C	0111.0	0111.0	2.0	160.0			QL=4 ST=1 TYP=8
	610	PALE	46	C	0111.0	0111.0	2.0	44.0			QL=4 ST=1 TYP=8
	245	PALE	48	C	0111.0	0111.0	20.0	500.0			QL=4 ST=2 TYP=8
	410	LEAR	4	S/F	0111.0	0111.0	1369.0	140.0			QL=4 ST=1 TYP=3
	410	PALE	48	C	0111.0	0121.0	1369.0	240.0			QL=4 ST=1 TYP=8
	610	PALE	48	C	0111.0	0121.0	1369.0	800.0			QL=4 ST=1 TYP=8
	410	PALE	4	S/F	0135.0	0135.0	1345.0	44.0			QL=4 ST=1 TYP=3
	245	LEAR	48	C	0143.0	0227.0	83.0	760.0			QL=4 ST=2 TYP=8
	610	PALE	48	C	0145.0	0210.0	80.0	13000.0			QL=4 ST=2 TYP=8
	410	PALE	48	C	0146.0	0220.0	66.0	4900.0			QL=4 ST=2 TYP=8
	245	PALE	48	C	0206.0	0227.0	38.0	730.0			QL=4 ST=2 TYP=8
	15400	LEAR	48	C	0336.0	0336.0	32.0	79.0			QL=4 ST=2 TYP=8
	2804	VORO	29	PBI	0340.6	0340.6	90.0				
	9100	GORK	21	GRF	0510.0U	0510.0U	107.5D	21.0			
	9100	GORK	7	C	0613.6	0614.2	3.7	26.0			
	9100	GORK	7	C	0613.6	0616.6		23.0			
	204	IZMI	7	C	0642.2	0642.4	0.2	31.0			
	410	PALE	8	S	1727.0	1728.0	1.0	110.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1727.0	1728.0	1.0	52.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	1727.0	1728.0	1.0	40.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1727.0	1727.0	2.0	100.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1727.0	1728.0	2.0	60.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1727.0	1727.0	2.0	68.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1727.0	1728.0	2.0	25.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1728.0	1728.0	1.0	26.0			QL=4 ST=2 TYP=3
	2800	PENT	20	GRF	1749.0	1803.0	27.0	4.0			
	9500	CUBA	20	GRF	1801.0	1805.0	11.0	23.0	11.0		
	2800	PENT	1	S	1921.0	1924.0	4.0	3.0			
	245	SGMR	8	S	2039.0	2039.0	U	51.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2040.0	2040.0	1.0	35.0			0
	2800	PENT	1	S	2150.0	2153.0	6.0	6.0			
	200	HIRA	8	S	2211.0	2212.0	1.0	30.0			0
22	127	TORN	44	NS	0630.0E		510.0D		14.0		V=1
	204	IZMI	43	NS	1058.0		62.0D		5.0		
	235	CUBA	44	NS	1305.0E		505.0D		6.0		
	280	CUBA	44	NS	1305.0E		505.0D		15.0		
	2800	PENT	3	S	0001.0	0018.0	25.0	21.0			
	2840	PEKG	3	S	0013.0	0018.8	14.0	21.5			
	2804	VORO	42	SER	0015.4	0016.6	2.6	8.4			
	2804	VORO	42	SER	0015.4	0018.8	3.6	18.6			
	1415	LEAR	8	S	0018.0	0018.0	1.0	86.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0039.0	0039.0	1.0	30.0			0
	200	HIRA	7	C	0515.0	0517.0	9.0	230.0			0
	245	LEAR	8	S	0515.0	0517.0	2.0	520.0			QL=4 ST=2 TYP=3
	245	SVTO	48	C	0515.0	0517.0	3.0	380.0			QL=4 ST=2 TYP=8
	410	LEAR	8	S	0516.0	0517.0	1.0	300.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0516.0	0517.0	2.0	330.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0516.0	0517.0	1.0	54.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0517.0	0518.0	2.0	185.0			0
	610	LEAR	8	S	0517.0	0517.0	U	52.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0543.0	0544.0	1.0	30.0			0
	2840	PEKG	3	S	0543.0	0545.7	10.0	114.1			
	15400	LEAR	46	C	0544.0	0544.0	U	32.0			QL=4 ST=2 TYP=8
	2695	LEAR	8	S	0544.0	0544.0	1.0	82.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0544.0	0544.0	U	68.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0544.0	0545.0	2.0	86.0			QL=4 ST=2 TYP=3
	9100	GORK	46	C	0544.7	0546.3		20.0			

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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
22	9100	GORK	46	C	0544.7	0545.5	4.4	32.0			
	2800	HIRA	3	S	0545.0	0546.0	4.0	90.0			0
	4995	SVTO	8	S	0545.0	0545.0	U	61.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0611.0	0611.0	1.0	10.0			0
	204	IZMI	7	C	0611.2	0611.2	0.1	22.0			
	204	IZMI	41	F	0713.8	0713.8	0.2	49.0			
	200	HIRA	8	S	0714.0	0714.0	1.0	15.0			0
	204	IZMI	41	F	0728.3	0728.5	0.7	16.0			
	127	TORN	7	C	0729.0	0729.3	1.1	180.0	50.0		
	204	IZMI	7	C	0731.1	0731.3	0.3	9.0			
	204	IZMI	41	F	0736.6	0738.6	2.5	42.0			
	200	HIRA	7	C	0738.0	0740.0	4.0	110.0			0
	245	LEAR	8	S	0738.0	0738.0	1.0	170.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0738.0	0738.0	U	65.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0739.0	0739.0	U	120.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0739.0	0739.0	U	77.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0739.4	0739.9	2.2	353.0			
	204	IZMI	7	C	0743.6	0743.7	0.3	8.0			
	204	IZMI	41	F	0744.6	0744.7	0.3	21.0			
	204	IZMI	42	SER	0754.8	0756.1	1.7	58.0			
	127	TORN	42	SER	0755.2	0755.7	12.9	1700.0	6.0		
	245	SVTO	49	GB	0800.0	0802.0	2.0	530.0			QL=4 ST=2 TYP=6
	204	IZMI	42	SER	0800.8	0801.9	1.5	106.0			
	410	SVTO	8	S	0802.0	0802.0	U	79.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	0802.3	0802.6	0.9	2571.0			
	245	LEAR	8	S	0806.0	0806.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0806.0	0806.0	U	110.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0806.7	0807.2	1.0	166.0			
	204	IZMI	42	SER	0808.7	0809.4	1.0	62.0			
	204	IZMI	42	SER	0813.1	0813.2	0.3	8.0			
	204	IZMI	42	SER	0824.1	0824.8	0.8	11.0			
	245	SVTO	8	S	0831.0	0832.0	1.0	150.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0833.3	0833.4	0.6	808.0			
	900	GORK	4	S/F	1004.8	1005.1	1.2	28.0			
	15400	SVTO	8	S	1204.0	1205.0	1.0	99.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1204.0	1205.0	3.0	240.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1204.0	1205.0	3.0	430.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1205.0	1206.0	1.0	31.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1205.0	1206.0	3.0	210.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1205.0	1206.0	5.0	390.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1205.0	1206.0	5.0	100.0			QL=4 ST=2 TYP=3
	33	UPIC	3	S	1216.0	1216.5	1.0				
	127	TORN	7	C	1328.8	1329.0	1.4	100.0	3.0		
	245	SGMR	8	S	1451.0	1451.0	U	53.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	2114.0	2117.0	3.0	130.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	2122.0	2122.0	U	61.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2229.0	2229.0	1.0	190.0			QL=4 ST=2 TYP=3
23	127	TORN	44	NS	0630.0E		510.0D		11.0		V=1
	280	CUBA	44	NS	1305.0E		525.0D		16.0		
	245	LEAR	8	S	0204.0	0204.0	U	180.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0204.0	0204.0	U	240.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0610.9	0611.2	0.7	15.0			
	204	IZMI	41	F	0613.2	0613.4	0.4	18.0			
	204	IZMI	7	C	0750.8	0750.9	0.2	5.0			
	245	SVTO	8	S	0802.0	0803.0	2.0	96.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0802.0	0803.0	1.0	100.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0803.0	0803.0	U	86.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0806.0	0806.0	1.0	400.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0806.0	0806.0	1.0	310.0			QL=4 ST=3 TYP=3
	204	IZMI	42	SER	0806.6	0807.2	1.2	349.0			
	200	HIRA	8	S	0807.0	0807.0	1.0	180.0			0
	410	LEAR	8	S	0807.0	0807.0	U	49.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0807.0	0807.0	U	150.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0926.9	0927.1	0.7	160.0			
	33	UPIC	45	C	1220.5	1221.8	2.0				
	127	TORN	4	S/F	1220.9	1221.6	1.1	180.0	40.0		
	410	SGMR	8	S	1352.0	1352.0	U	360.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1352.0	1352.0	U	340.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

APRIL 2002

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
24	127	TORN	44	NS	0630.0E		510.0D		17.0		V=2
	235	CUBA	44	NS	1315.0E		515.0D		10.0		
	280	CUBA	44	NS	1315.0E		515.0D		21.0		
	245	LEAR	8	S	0246.0	0246.0	U	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0504.0	0505.0	1.0	52.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	0729.0	0730.0	3.0	55.0			QL=4 ST=2 TYP=8
	204	IZMI	42	SER	0729.4	0730.4	7.7	21.0			
	500	HIRA	4	S/F	0730.0	0730.0	5.0	25.0			0
	200	HIRA	7	C	0730.0	0732.0	7.0	40.0			0
	2840	PEKG	3	S	0730.0	0733.5	11.0	11.3			
	204	IZMI	41	F	0731.8	0732.0	1.0	93.0			
	3000	IZMI	22	GRF	0731.9	0733.6	5.7	15.0	5.0		
	410	LEAR	8	S	0802.0	0802.0	U	130.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0802.0	0802.0	U	150.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0844.2	0844.6	1.1	9.0			
	204	IZMI	41	F	0924.6	0925.8	1.8	87.0			
	127	TORN	4	S/F	0925.0	0925.9	1.9	700.0	130.0		
	204	IZMI	42	SER	1018.5	1018.7	4.7	25.0			
	127	TORN	4	S/F	1018.7	1019.0	1.9	90.0	20.0		
	204	IZMI	46	C	1124.9	1125.2	0.9	1934.0			
	245	SVTO	49	GB	1125.0	1125.0	U	2500.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	1125.0	1125.0	U	910.0			QL=4 ST=2 TYP=6
	127	TORN	8	S	1125.2	1125.4	1.0	3000.0	1400.0		
	204	IZMI	42	SER	1125.9	1126.0	4.6	29.0			
	33	UPIC	42	SER	1314.5	1315.0	28.0				
	245	SVTO	49	GB	1315.0	1316.0	1.0	630.0			QL=4 ST=2 TYP=6
	127	TORN	47	GB	1315.2	1316.2	1.7	1200.0	140.0		
	245	SVTO	8	S	1340.0	1341.0	1.0	110.0			QL=4 ST=2 TYP=3
	2800	PENT	21	GRF	1540.0	1551.0	52.0U	10.0			
	245	SVTO	8	S	1707.0	1707.0	2.0	130.0			QL=4 ST=2 TYP=3
	235	CUBA	6	S	1744.8	1745.7	1.2	58.0	29.0		
	280	CUBA	6	S	1744.8	1745.7	1.2	116.0	58.0		
	245	PALE	8	S	1745.0	1745.0	U	400.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1745.0	1745.0	U	100.0			QL=4 ST=2 TYP=3
	235	CUBA	7	C	1750.1	1750.3	0.4	415.0	208.0		
	280	CUBA	7	C	1750.1	1750.3	0.4	406.0	203.0		
	9500	CUBA	1	S	2149.7	2150.3	1.1	13.0	6.0		
	245	PALE	8	S	2229.0	2230.0	1.0	170.0			QL=4 ST=2 TYP=3
25	127	TORN	44	NS	0630.0E		510.0D		20.0		V=2
	204	IZMI	43	NS	0820.0		220.0U		5.0		
	235	CUBA	44	NS	1305.0E		525.0D		6.0		
	280	CUBA	44	NS	1305.0E		525.0D		17.0		
	245	LEAR	48	C	0353.0	0353.0	1.0	100.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	0353.0	0353.0	U	160.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	0359.0	0400.0	3.0	69.0			QL=4 ST=2 TYP=8
	2840	PEKG	3	S	0547.0	0555.9	18.0	21.8			
	245	LEAR	8	S	0554.0	0555.0	2.0	1200.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	0554.0	0555.0	3.0	1200.0			QL=4 ST=2 TYP=6
	2800	HIRA	1	S	0555.0	0556.0	2.0	20.0			0
	500	HIRA	4	S/F	0555.0	0556.0	3.0	80.0			WL
	200	HIRA	47	GB	0555.0	0555.0	3.0	555.0			0
	410	LEAR	8	S	0555.0	0556.0	1.0	69.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0555.0	0555.0	1.0	37.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0555.0	0555.0	1.0	52.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0555.0	0556.0	1.0	44.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0555.0	0556.0	1.0	40.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0555.0	0555.0	2.0	120.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0555.0	0556.0	1.0	44.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	0555.0	0555.5	2.5				
	15400	SVTO	8	S	0556.0	0556.0	U	24.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0559.0	0559.0	U	52.0			QL=4 ST=2 TYP=3
	600	GORK	3	S	0654.2	0655.7	3.4	50.0			
	900	GORK	2	S/F	0655.0	0656.0	3.1	15.0			
	9100	GORK	46	C	0655.1	0656.1		29.0			
	9100	GORK	46	C	0655.1	0655.6	1.9	21.0			
	9100	GORK	46	C	0655.1	0655.8		22.0			
	204	IZMI	41	F	0832.2	0832.5	0.6	32.0			
	245	LEAR	8	S	0906.0	0906.0	U	250.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

APRIL 2002

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
25	245	SVTO	8	S	0906.0	0906.0	U	230.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0909.0	0909.0	U	77.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0909.0	0909.0	U	50.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1044.0	1044.0	U	290.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1849.0	1857.0	43.0U	9.0			
	245	PALE	8	S	1851.0	1851.0	U	140.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	1922.0	1923.0	2.0	99.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	1935.0	1936.0	1.0	67.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	2122.0	2122.0	1.0	120.0			QL=4 ST=2 TYP=8
26	245	SVTO	43	NS	0546.0	0615.0	194.0	100.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		70.0		
	127	TORN	44	NS	0630.0E		510.0D		35.0		V=3
	235	CUBA	44	NS	1315.0E		515.0D		11.0		
	280	CUBA	44	NS	1315.0E		515.0D		23.0		
	245	SVTO	43	NS	1441.0	1444.0	36.0	83.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2034.0	2037.0	54.0	86.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2330.0	2352.0	40.0	100.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0016.0	0016.0	1.0	68.0			QL=4 ST=3 TYP=3
	2804	VORO	1	S	0131.9	0133.7	5.3	6.5			
	245	LEAR	8	S	0305.0	0305.0	U	81.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0309.0	0309.0	U	66.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0309.0	0309.0	U	60.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1432.0	1432.0	1.0	210.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1659.0	1659.0	U	69.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1659.0	1659.0	U	56.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1707.0	1707.0	U	57.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1736.0	1736.0	U	75.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	1804.0	1804.0	U	89.0			QL=4 ST=2 TYP=8
	410	PALE	8	S	1804.0	1804.0	U	43.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1955.0	1956.0	1.0	85.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	2016.0	2019.0	4.0	64.0			QL=4 ST=2 TYP=8
	2800	PENT	20	GRF	2036.0	2122.0	65.0	11.0			
27	245	SVTO	43	NS	0458.0	0523.0	258.0	110.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		45.0		
	127	TORN	44	NS	0630.0E		510.0D		37.0		V=2
	235	CUBA	44	NS	1305.0E		525.0D		11.0		
	280	CUBA	44	NS	1305.0E		525.0D		26.0		
	245	SVTO	43	NS	1440.0	1457.0	37.0	100.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2348.0	0358.0	290.0	190.0			QL=4 ST=2 TYP=1
	2840	PEKG	1	S	0741.0	0747.1	9.0	5.0			
	610	SVTO	8	S	1028.0	1028.0	U	69.0			QL=4 ST=2 TYP=3
	3000	IZMI	22	GRF	1031.6	1104.4	56.5	10.0	4.0		
	2800	PENT	21	GRF	1517.0	1606.0	75.0U	13.0			
28	127	TORN	44	NS	0630.0E		510.0D		12.0		V=0
	235	CUBA	44	NS	1310.0E		290.0D		9.0		
	280	CUBA	44	NS	1310.0E		290.0D		20.0		
	245	PALE	43	NS	1818.0	1831.0	163.0	90.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1822.0	1823.0	107.0	73.0			QL=4 ST=2 TYP=1
	245	LEAR	48	C	0458.0	0458.0	1.0	72.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	0458.0	0458.0	U	53.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	0503.0	0503.0	1.0	58.0			QL=4 ST=2 TYP=8
	245	LEAR	8	S	0531.0	0531.0	U	160.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0531.0	0531.0	U	110.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0541.0	0542.0	1.0	30.0			
	245	LEAR	8	S	0546.0	0547.0	1.0	73.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	0732.0	0732.0	U	81.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	0732.0	0732.0	U	51.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0948.7	0948.9	0.6	24.0			
	245	SGMR	8	S	1347.0	1347.0	U	100.0			QL=4 ST=2 TYP=3
	2800	PENT	21	GRF	2045.0	2107.0	64.0	11.0			
29	245	LEAR	43	NS	0123.0	0427.0	214.0	74.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0534.0	0727.0	250.0	240.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		30.0		
	127	TORN	44	NS	0630.0E		490.0D		14.0		V=2
	245	SVTO	43	NS	0710.0	0727.0	120.0	170.0			QL=2 ST=3 TYP=1

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

APRIL 2002

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	245	SVTO	43	NS	1018.0	1018.0	122.0	130.0			QL=2 ST=2 TYP=1
	245	LEAR	8	S	0026.0	0026.0	U	260.0			QL=4 ST=3 TYP=3
	245	LEAR	8	S	0059.0	0059.0	U	54.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0146.0	0146.0	U	190.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0146.0	0146.0	U	180.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0221.0	0224.3	9.0	16.7			
	2804	VORO	2	S/F	0223.4	0224.2	1.5	10.9			
	245	LEAR	8	S	0528.0	0528.0	U	55.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0534.0	0534.0	U	59.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0641.4	0641.5	0.2	41.0			
	245	SVTO	8	S	0647.0	0647.0	U	60.0			QL=4 ST=2 TYP=3
	204	IZMI	25	R	0704.0		63.0		60.0		
	410	SVTO	8	S	0902.0	0902.0	U	58.0			QL=2 ST=2 TYP=3
	2950	GORK	4	S/F	0918.0	0925.3U	10.3	7.0U			
	2840	PEKG	1	S	0920.0	0925.2	10.0	7.9			
	3000	IZMI	7	C	0924.9	0925.2	2.0	8.0	2.0		
	9100	GORK	20	GRF	0925.0	0938.0	26.0	11.0			
	245	SVTO	8	S	0926.0	0926.0	U	150.0			QL=2 ST=2 TYP=3
	204	IZMI	46	C	0926.1	0926.5	0.9	478.0			
	204	IZMI	42	SER	0927.2	0927.8	1.0	37.0			
	2840	PEKG	3	S	0932.0	0937.7	15.0	26.5			
	600	GORK	4	S/F	0935.0	0937.7	7.2	18.0			
	2950	GORK	4	S/F	0935.3	0937.7	4.7	26.0			
	245	LEAR	8	S	0936.0	0936.0	U	220.0			QL=4 ST=2 TYP=3
	245	SVTO	48	C	0936.0	0936.0	1.0	150.0			QL=2 ST=2 TYP=8
	3000	IZMI	45	C	0936.1	0937.7	3.5	24.0	9.0		
	204	IZMI	46	C	0936.4	0936.8	2.4	308.0			
	127	TORN	4	S/F	0936.7	0938.3	2.8	2500.0	430.0		
	410	SVTO	8	S	0937.0	0938.0	1.0	56.0			QL=2 ST=2 TYP=3
	600	GORK	46	C	0954.6	0955.1	1.6	19.0			
	600	GORK	46	C	0954.6	0955.7		8.8			
	410	SVTO	8	S	0955.0	0955.0	U	51.0			QL=2 ST=2 TYP=3
	204	IZMI	7	C	1005.1	1005.2	0.3	18.0			
	245	SVTO	8	S	1010.0	1010.0	1.0	170.0			QL=2 ST=2 TYP=3
	3000	IZMI	40	F	1031.6	1034.4	20.8U	8.0	3.0		
	204	IZMI	42	SER	1048.6	1049.1	1.0	355.0			
	204	IZMI	42	SER	1055.9	1056.0	2.0	134.0			
	3000	IZMI	7	C	1057.6	1057.8	0.3	6.0	2.0		
	204	IZMI	42	SER	1132.9	1133.7	2.0	78.0			
	127	TORN	42	SER	1201.0	1203.8	9.5	20.0	20.0		
	245	SVTO	8	S	1706.0	1706.0	1.0	59.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1709.0	1709.0	1.0	76.0			QL=4 ST=2 TYP=3
30	127	TORN	43	NS	0840.0		370.0		11.0		V=1,ATM.STORM
	235	CUBA	44	NS	1300.0E		530.0D		6.0		
	280	CUBA	44	NS	1300.0E		530.0D		20.0		
	204	IZMI	42	SER	0643.1	0645.8	10.5	25.0			
	500	HIRA	7	C	0647.0	0651.0	7.0	20.0			0
	245	LEAR	8	S	0647.0	0647.0	U	69.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0647.0	0647.0	1.0	58.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0647.0	0647.0	1.0	74.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0647.6	0647.8	0.4	79.0			
	200	HIRA	7	C	0648.0	0648.0	4.0	30.0			WL
	245	LEAR	8	S	0650.0	0650.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0650.0	0650.0	1.0	140.0			QL=4 ST=3 TYP=3
	204	IZMI	41	F	0650.4	0650.5	0.4	84.0			
	245	LEAR	8	S	0724.0	0724.0	U	54.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	0724.0	0724.0	U	56.0			QL=4 ST=2 TYP=3
	9100	GORK	2	S/F	0819.6	0821.3	2.6	10.0			
	204	IZMI	42	SER	1043.7	1043.8	0.5	29.0			
	410	SGMR	8	S	1230.0	1230.0	U	56.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1230.0	1230.0	U	69.0			QL=4 ST=2 TYP=3
	245	SVTO	48	C	1527.0	1527.0	U	56.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	1528.0	1528.0	1.0	69.0			QL=4 ST=2 TYP=8
	410	SGMR	8	S	1528.0	1528.0	1.0	42.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1538.0	1538.0	U	55.0			QL=4 ST=2 TYP=8
	410	SGMR	8	S	1538.0	1539.0	U	20.0			QL=4 ST=2 TYP=3