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

SEPTEMBER 2003

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	245	SVTO	8	S	0602.0	0602.0	U	57.0			QL=4 ST=4 TYP=3
	245	SVTO	8	S	0602.0	0602.0	U	57.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1019.6	1019.8	0.8	80.0			
	204	IZMI	42	SER	1020.6	1020.9	0.8	26.0			
	204	IZMI	42	SER	1034.2	1034.6	0.9	45.0			
	204	IZMI	7	C	1041.3	1041.4	0.3	9.0			
	245	SGMR	8	S	1222.0	1222.0	U	51.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1222.0	1222.0	U	51.0			QL=4 ST=2 TYP=3
02	127	TORN	43	NS	0747.0		373.0		10.0		V=0
03	127	TORN	43	NS	0700.0		300.0		10.0		V=0
	235	CUBA	44	NS	1300.0E		525.0D		7.0		
	245	PALE	8	S	0131.0	0132.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0338.0	0338.0	U	330.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0338.0	0338.0	U	380.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0809.8	0810.4	1.0	20.0			
	33	UPIC	45	C	0946.5	0947.8	2.0				
	204	IZMI	41	F	0947.7	0947.8	0.3	16.0			
04	127	TORN	43	NS	0700.0		420.0		13.0		V=1
	280	CUBA	44	NS	1300.0E		525.0D		17.0		
	204	IZMI	42	SER	0824.1	0824.6	1.0	20.0			
	204	IZMI	42	SER	0828.7	0829.3	2.1	29.0			
	204	IZMI	42	SER	0834.2	0834.6	0.7	74.0			
05	235	CUBA	44	NS	1315.0E		345.0D		7.0		
	280	CUBA	44	NS	1315.0E		345.0D		16.0		
	245	LEAR	8	S	0448.0	0448.0	U	58.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0448.0	0448.0	U	51.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0654.9	0654.9	0.1	16.0			
	245	SVTO	8	S	0740.0	0741.0	1.0	260.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0807.0	0807.0	U	130.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	2319.0	2322.7	8.0	5.8			
06	127	TORN	44	NS	0600.0E		240.0D		9.0		V=0
	204	IZMI	42	SER	0917.2	0917.4	0.6	14.0			
07	127	TORN	43	NS	0705.0		175.0D		7.0		V=0
	245	PALE	43	NS	2217.0	2230.0	54.0	88.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2217.0	2222.0	103.0	55.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	2217.0	2222.0	103.0	57.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	2217.0	2230.0	103.0	88.0			QL=4 ST=1 TYP=1
	204	IZMI	7	C	1016.8	1016.9	0.4	12.0			
	204	IZMI	7	C	1046.7	1046.8	0.2	46.0			
	204	IZMI	42	SER	1146.1	1146.2	0.4	24.0			
	8800	SVTO	8	S	1201.0	1201.0	U	96.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1403.0	1404.0	1.0	180.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1403.0	1404.0	2.0	160.0			QL=4 ST=2 TYP=3
	127	TORN	4	S/F	1403.0	1404.2	2.9	470.0	160.0		
	410	SGMR	8	S	1404.0	1404.0	U	29.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1404.0	1404.0	U	29.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1404.0	1404.0	U	32.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1404.0	1404.0	U	23.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1404.0	1404.0	1.0	27.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1404.0	1404.0	1.0	31.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1404.0	1404.0	U	24.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	1404.5	1405.5	2.5				
	280	CUBA	7	C	1409.2	1416.5	11.8	35.0U	18.0U		
	235	CUBA	7	C	1409.2	1414.6	11.8	19.0	10.0		
	410	SVTO	8	S	1416.0	1417.0	1.0	60.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2325.0	2325.0	U	65.0			QL=4 ST=2 TYP=3
08	127	TORN	43	NS	0820.0		100.0		7.0		V=0
	204	IZMI	42	SER	0726.0	0726.2	0.5	15.0			
	245	LEAR	8	S	2339.0	2339.0	U	55.0			QL=4 ST=2 TYP=3
09	127	TORN	43	NS	0710.0		150.0		8.0		V=0
	3000	IZMI	20	GRF	0737.5	0739.3	2.0	12.0	5.6		

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SEPTEMBER 2003

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	9500	CUBA	1	S	1444.5	1444.8	1.2	17.0	8.0		
10	127	TORN	43	NS	0712.0		198.0		7.0		V=0
	2840	PEKG	1	S	0611.0	0614.5	6.0	3.6			
11	127	TORN	43	NS	0715.0		465.0		7.0		V=0,DISTURBED
	500	HIRA	8	S	0716.0	0716.0	1.0	100.0			0
	610	LEAR	8	S	0716.0	0716.0	U	85.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0716.0	0716.0	U	98.0			QL=4 ST=2 TYP=3
12	127	TORN	43	NS	0715.0		315.0		7.0		V=0
	33	UPIC	3	S	0803.0	0804.0	1.5				
	33	UPIC	3	S	0824.5	0825.0	1.0				
	2840	PEKG	1	S	0947.0	0950.3	7.0	2.3			
	245	PALE	8	S	1941.0	1941.0	1.0	180.0			QL=4 ST=4 TYP=3
	245	PALE	8	S	1941.0	1941.0	1.0	180.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1941.0	1941.0	U	78.0			QL=4 ST=4 TYP=3
	410	PALE	8	S	1941.0	1941.0	U	78.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1942.0	1942.0	U	73.0			QL=4 ST=2 TYP=3
13	2840	PEKG	1	S	0734.0	0739.3	7.0	6.4			
	2840	PEKG	1	S	0952.0	0954.6	5.0	6.5			
	33	UPIC	42	SER	1134.5	1135.0	38.5				UNCERTN
14	127	TORN	43	NS	0820.0		140.0		8.0		V=0
	2840	PEKG	3	S	0121.0	0124.8	10.0	22.3			
	2804	VORO	3	S	0123.3	0124.6	5.0	22.3			
15	127	TORN	43	NS	0720.0		310.0		7.0		V=0
	33	UPIC	45	C	1416.0	1416.8	1.5				
	33	UPIC	46	C	1454.5	1455.0	2.0				
16	127	TORN	44	NS	0640.0E		440.0D		6.0		V=1
	245	LEAR	8	S	0011.0	0011.0	U	53.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0111.0	0114.5	6.0	4.3			
	204	IZMI	42	SER	0734.0	0734.1	0.9	20.0			
	2840	PEKG	1	S	0829.0	0832.9	7.0	6.6			
17	204	IZMI	43	NS	0600.0		360.0D		10.0		
	127	TORN	43	NS	0813.0		317.0		6.0		V=0
	235	CUBA	44	NS	1320.0E		400.0D		10.0		
	280	CUBA	44	NS	1320.0E		400.0D		20.0		
	500	HIRA	8	S	0410.0	0410.0	1.0	10.0			0
	500	HIRA	7	C	0502.0	0512.0	17.0	10.0			0
18	127	TORN	43	NS	0742.0		310.0		6.0		V=0
	235	CUBA	44	NS	1330.0E		500.0D		5.0		
	280	CUBA	44	NS	1330.0E		500.0D		22.0		
	500	HIRA	8	S	0036.0	0036.0	1.0	10.0			0
	204	IZMI	42	SER	1018.2	1032.0	35.0	82.0			
19	127	TORN	44	NS	0620.0E		440.0D		9.0		V=0
	235	CUBA	44	NS	1400.0E		300.0D		7.0		
	280	CUBA	44	NS	1400.0E		300.0D		21.0		
20	204	IZMI	43	NS	0600.0		360.0D		10.0		
	127	TORN	44	NS	0620.0E		403.0D		8.0		V=1
	235	CUBA	44	NS	1315.0E		480.0D		7.0		
	280	CUBA	44	NS	1315.0E		480.0D		21.0		
	500	HIRA	7	C	0058.0	0059.0	3.0	10.0			0
	500	HIRA	8	S	0319.0	0319.0	1.0	10.0			0
	2840	PEKG	45	C	0934.0	0941.7	15.0	11.6			
	2800	PENT	21	GRF	1510.0	1526.0	82.0U	6.0			
	9500	CUBA	2	S/F	1524.8	1527.4	6.2	7.0	3.0		
	245	SGMR	8	S	1544.0	1544.0	U	63.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1550.0	1550.0	U	81.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1550.0	1550.0	U	57.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1931.0	1931.0	U	92.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1931.0	1931.0	U	60.0			QL=4 ST=2 TYP=3

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SEPTEMBER 2003

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	245	SGMR	8	S	1946.0	1946.0	U	57.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1947.0	1947.0	U	68.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2030.0	2030.0	U	72.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	2207.0	2207.0	1.0	15.0			0
21	245	LEAR	43	NS	0102.0	0111.0	188.0	130.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0102.0	0108.0	1378.0	66.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	0102.0	0111.0	1378.0	130.0			QL=4 ST=1 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		20.0		
	245	PALE	8	S	0102.0	0102.0	U	67.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	0111.0	0111.0	3.0	210.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0134.0	0134.0	U	54.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0200.0	0200.0	U	140.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0807.0	0807.0	1.0	30.0			0
	204	IZMI	42	SER	0808.2	0810.6	4.9	53.0			
	245	LEAR	8	S	0922.0	0922.0	U	74.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0922.0	0922.0	1.0	61.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1019.0	1020.0	1.0	50.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1354.0	1354.0	U	67.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1554.0	1600.0	12.0	2.0			
	2800	PENT	1	S	2050.0	2057.0	14.0	5.0			
22	127	TORN	43	NS	0742.0		148.0		7.0		V=1
	245	PALE	8	S	2009.0	2010.0	1.0	61.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2009.0	2010.0	1.0	56.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2115.0	2115.0	U	110.0			QL=4 ST=2 TYP=3
23	204	IZMI	43	NS	0600.0		220.0U		10.0		
	127	TORN	44	NS	0620.0E		520.0D		8.0		V=0
	2840	PEKG	1	S	0612.0	0615.0	7.0	5.8			
	8800	SGMR	8	S	1451.0	1451.0	2.0	60.0			QL=4 ST=2 TYP=3
24	204	IZMI	44	NS	0600.0E		153.0D		15.0		
	127	TORN	44	NS	0620.0E		520.0D		10.0		V=1
	245	LEAR	8	S	0035.0	0035.0	U	62.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0228.0	0228.0	1.0	15.0			0
	245	LEAR	8	S	0432.0	0432.0	1.0	320.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0432.0	0433.0	2.0	230.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0432.0	0434.0	2.0	76.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0432.0	0434.3	5.0	20.2			
	500	HIRA	7	C	0433.0	0434.0	2.0	105.0			0
	2800	HIRA	8	S	0434.0	0434.0	1.0	20.0			0
	4995	LEAR	8	S	0434.0	0434.0	U	73.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0434.0	0434.0	U	180.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0434.0	0434.0	U	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0530.0	0530.0	U	96.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0530.0	0530.0	U	33.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0530.0	0530.0	U	74.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0530.0	0530.0	1.0	38.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0531.0	0531.0	1.0	10.0			0
	2840	PEKG	3	S	0620.0	0624.7	10.0	12.9			
	500	HIRA	8	S	0624.0	0625.0	1.0	75.0			0
	410	LEAR	49	GB	0624.0	0624.0	1.0	600.0			QL=4 ST=2 TYP=6
	610	LEAR	8	S	0624.0	0624.0	U	58.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	0624.0	0624.0	1.0	1800.0			QL=4 ST=2 TYP=6
	610	SVTO	8	S	0624.0	0624.0	U	58.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0624.0	0624.0	1.0	34.0			QL=4 ST=2 TYP=3
	3000	IZMI	20	GRF	0624.6	0624.9	0.6	13.0	6.8		
	2800	HIRA	1	S	0625.0	0625.0	1.0	15.0			0
	410	LEAR	8	S	0630.0	0632.0	2.0	150.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0631.0	0632.0	2.0	40.0			0
	410	SVTO	8	S	0632.0	0632.0	U	110.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0705.0	0705.0	U	200.0			QL=4 ST=2 TYP=3
	410	LEAR	48	C	0713.0	0718.0	5.0	3400.0			QL=4 ST=2 TYP=8
	610	LEAR	4	S/F	0713.0	0716.0	3.0	480.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0713.0	0716.2	6.0	34.6			
	500	HIRA	47	GB	0714.0	0718.0	4.0	580.0			WR
	1415	LEAR	8	S	0715.0	0715.0	U	39.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0715.0	0716.0	1.0	71.0			QL=4 ST=2 TYP=3

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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
24	610	SVTO	8	S	0715.0	0716.0	1.0	380.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0715.0	0715.0	1.0	35.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0715.0	0716.0	1.0	100.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0715.0	0716.0	1.0	73.0			QL=4 ST=2 TYP=3
	3000	IZMI	22	GRF	0715.6	0716.1	0.9	52.0	22.8		
	2800	HIRA	8	S	0716.0	0716.0	1.0	35.0			0
	410	SVTO	48	C	0716.0	0718.0	2.0	2600.0			QL=4 ST=3 TYP=8
	410	SVTO	49	GB	0716.0	0718.0	2.0	2600.0			QL=4 ST=2 TYP=6
	2695	SVTO	8	S	0716.0	0716.0	U	35.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0716.0	0716.0	U	32.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0716.5	0716.6	0.3	31.0			
	245	LEAR	49	GB	0717.0	0717.0	1.0	620.0			QL=4 ST=2 TYP=6
	204	IZMI	42	SER	0717.5	0718.1	0.9	117.0			
	245	SVTO	49	GB	0718.0	0718.0	U	1700.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	0758.0	0758.0	1.0	330.0			QL=4 ST=2 TYP=3
	610	LEAR	49	GB	0758.0	0758.0	2.0	770.0			QL=4 ST=2 TYP=6
	610	SVTO	49	GB	0758.0	0758.0	1.0	670.0			QL=4 ST=2 TYP=6
	500	HIRA	8	S	0759.0	0759.0	1.0	305.0			0
	410	LEAR	8	S	0818.0	0818.0	1.0	100.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0818.0	0818.0	1.0	110.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0818.9	0819.2	1.5	145.0			
	245	SVTO	8	S	0853.0	0854.0	2.0	340.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0853.0	0854.9	4.0	8.1			
	204	IZMI	46	C	0853.8	0854.7	1.2	422.0			
	245	LEAR	8	S	0854.0	0854.0	1.0	410.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0854.0	0854.0	U	87.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0854.0	0854.0	U	120.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0854.0	0854.0	1.0	94.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0854.0	0854.0	U	110.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	0854.0	0854.8	2.0				
	3000	IZMI	40	F	0854.5	0854.8	0.7	10.0			
	610	SVTO	8	S	0933.0	0934.0	2.0	63.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0933.3	0933.3	1.9	30.0			
	410	LEAR	8	S	0934.0	0934.0	U	36.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0934.0	0934.0	U	60.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0934.0	0934.0	U	68.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0934.0	0937.1	6.0	9.9			
	410	SVTO	8	S	1037.0	1037.0	1.0	110.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1037.8	1037.9	0.5	137.0			
	610	SGMR	8	S	1155.0	1155.0	1.0	65.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1155.0	1155.0	1.0	22.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1157.0	1157.0	1.0	470.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1157.0	1157.0	1.0	470.0			QL=4 ST=3 TYP=3
	610	SVTO	8	S	1157.0	1157.0	1.0	470.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1406.0	1407.0	1.0	590.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	1406.0	1407.0	1.0	500.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	1406.0	1407.0	1.0	170.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1407.0	1407.0	U	110.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1407.0	1407.0	U	38.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1407.0	1407.0	U	74.0			QL=4 ST=2 TYP=3
	8800	SGMR	49	GB	1454.0	1456.0	2.0	590.0			QL=4 ST=2 TYP=6
	2800	PENT	20	GRF	1513.0	1531.0	44.0	3.0			
	2800	PENT	1	S	1731.0	1738.0	14.0	6.0			
	245	PALE	8	S	1739.0	1739.0	U	110.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1739.0	1739.0	U	62.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1739.0	1739.0	U	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1739.0	1739.0	U	74.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1739.0	1739.0	U	68.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1739.0	1739.0	U	140.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2010.0	2010.0	U	60.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2014.0	2014.0	U	74.0			QL=4 ST=2 TYP=3
25	127	TORN	44	NS	0720.0E		400.0D		12.0		V=2
	245	SGMR	43	NS	1417.0	1428.0	13.0	110.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1417.0	1417.0	13.0	100.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1417.0	1428.0	583.0	110.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	1417.0	1417.0	583.0	100.0			QL=4 ST=1 TYP=1
	245	SGMR	43	NS	1521.0	1535.0	46.0	160.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1521.0	1524.0	519.0	160.0			QL=4 ST=1 TYP=1

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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
25	410	LEAR	8	S	0233.0	0233.0	U	59.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0234.0	0234.0	1.0	10.0			0
	2840	PEKG	20	GRF	0913.0	0917.4	18.0	8.7			
	204	IZMI	42	SER	1033.2	1108.5	47.6	26.0			
	245	SGMR	8	S	1248.0	1248.0	U	60.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1248.0	1248.0	U	67.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1300.0	1300.0	2.0	91.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1307.0	1308.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1307.0	1308.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1512.0	1512.0	U	81.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1512.0	1512.0	U	81.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1512.0	1512.0	U	54.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1523.0	1523.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1530.0	1530.0	U	59.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1537.0	1537.0	U	66.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1557.0	1557.0	U	75.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1557.0	1557.0	U	22.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2045.0	2046.0	1.0	75.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2330.0	2330.0	U	79.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2341.0	2341.0	U	120.0			QL=4 ST=2 TYP=3
26	204	IZMI	43	NS	0600.0		360.0D		15.0		
	127	TORN	44	NS	0620.0E		240.0D		20.0		V=2
	204	IZMI	42	SER	0808.1	0810.2	6.0	43.0			
	204	IZMI	42	SER	1018.1	1020.3	3.0	37.0			
	33	UPIC	4	S/F	1019.8	1020.0	1.2				
	204	IZMI	42	SER	1141.8	1141.9	1.5	27.0			
	245	SGMR	8	S	1454.0	1454.0	U	180.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1454.0	1454.0	U	150.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1454.0	1454.0	U	230.0			QL=4 ST=2 TYP=3
	2800	PENT	20	GRF	1459.0	1511.0	68.0	7.0			
	2800	PENT	8	S	1746.0	1751.0	10.0	29.0			
	410	SGMR	49	GB	1750.0	1751.0	1.0	550.0			QL=4 ST=2 TYP=6
	4995	SGMR	8	S	1750.0	1751.0	1.0	67.0			QL=4 ST=2 TYP=3
	9500	CUBA	3	S	1750.2	1750.8	1.8	36.0	18.0		
	245	PALE	8	S	1751.0	1751.0	U	300.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	1751.0	1751.0	U	670.0			QL=4 ST=2 TYP=6
	610	PALE	8	S	1751.0	1751.0	U	79.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	1751.0	1751.0	U	59.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1751.0	1751.0	U	180.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1751.0	1751.0	U	94.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1911.0	1915.0	8.0	5.0			
	245	PALE	8	S	1953.0	1954.0	1.0	75.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2331.0	2331.0	U	130.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2331.0	2331.0	U	160.0			QL=4 ST=2 TYP=3
27	204	IZMI	44	NS	0600.0E		360.0D		15.0		
	127	TORN	44	NS	0620.0E		520.0D		90.0		V=2
	245	LEAR	8	S	0005.0	0005.0	U	270.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0548.0	0549.0	1.0	180.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0626.0	0626.0	1.0	10.0			0
	245	LEAR	8	S	0808.0	0808.0	U	55.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0819.0	0821.0	2.0	63.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0821.0	0821.0	U	70.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0824.0	0824.0	1.0	62.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	1031.5	1031.5	0.1	14.0			
	204	IZMI	42	SER	1040.2	1042.5	3.8	38.0			
	33	UPIC	45	C	1045.0	1047.0	2.5				UNCERTN
	204	IZMI	25	R	1106.0		54.0D		30.0		
	3000	IZMI	40	F	1109.0U	1159.5	51.0D	16.0			
	245	SVTO	4	S/F	1155.0	1157.0	5.0	54.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1157.0	1157.0	U	52.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1209.0	1217.0	8.0	280.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1214.0	1214.0	U	66.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1216.0	1217.0	3.0	310.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1240.0	1240.0	U	65.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1240.0	1242.0	2.0	78.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1242.0	1242.0	U	90.0			QL=4 ST=2 TYP=3
	2800	PENT	21	GRF	2115.0	2132.0	71.0	21.0			

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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
27	500	HIRA	8	S	2306.0	2306.0	1.0	10.0			WR
28	204	IZMI	44	NS	0600.0E		360.0D		50.0		
	127	TORN	44	NS	0620.0E		370.0D		40.0		V=1
	245	LEAR	8	S	0409.0	0409.0	U	100.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	0412.0	0415.0	3.0	61.0			QL=4 ST=2 TYP=8
	245	LEAR	8	S	0424.0	0424.0	U	66.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0434.0	0434.0	U	87.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0522.0	0522.0	1.0	10.0			0
	245	LEAR	8	S	0632.0	0632.0	U	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0632.0	0632.0	U	58.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1228.0	1228.0	U	76.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1245.0	1245.0	U	70.0			QL=4 ST=2 TYP=3
29	127	TORN	44	NS	0620.0E		430.0D		14.0		V=1
	204	IZMI	41	F	0804.1	0804.3	0.5	71.0			
	204	IZMI	42	SER	0825.7	0827.7	3.7	157.0			
	204	IZMI	46	C	0829.8	0830.1	0.7	2730.0			
	245	LEAR	49	GB	0830.0	0830.0	U	660.0			QL=4 ST=2 TYP=6
	127	TORN	47	GB	0830.0	0830.2	0.7	2400.0	260.0		DISTURBED
	9500	CUBA	2	S/F	1518.0	1518.4	1.5	12.0	3.0		
	8800	SGMR	8	S	1609.0	1609.0	1.0	96.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	2127.0	2144.0	65.0U	36.0			
	2800	HIRA	1	S	2144.0	2145.0	3.0	35.0			0
	500	HIRA	8	S	2149.0	2149.0	1.0	10.0			0
30	127	TORN	44	NS	0910.0E		210.0D		5.0		V=1
	204	IZMI	43	NS	1006.0		114.0D		10.0		
	2800	PENT	8	S	0027.0	0031.0	9.0	13.0			
	2840	PEKG	45	C	0027.0	0031.3	10.0	21.4			
	2804	VORO	46	C	0028.3	0031.3	7.5	19.8			
	500	HIRA	42	SER	0029.0	0031.0	17.0	40.0			WR
	2800	HIRA	1	S	0031.0	0031.0	1.0	15.0			0
	245	LEAR	8	S	0046.0	0046.0	U	56.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0046.0	0046.0	U	61.0			QL=4 ST=2 TYP=3
	2804	VORO	40	F	0301.3	0302.3	1.4	4.4			
	2840	PEKG	3	S	0507.0	0511.8	12.0	19.6			
	2804	VORO	2	S/F	0509.9	0511.6	3.3	16.6			
	2800	HIRA	1	S	0512.0	0512.0	1.0	15.0			0
	2840	PEKG	45	C	0754.0	0756.8	10.0	6.2			
	3000	IZMI	40	F	0756.6	0758.4	2.0	8.0			
	2840	PEKG	3	S	0846.0	0850.3	14.0	20.6			
	204	IZMI	42	SER	0847.2	0847.3	0.7	65.0			
	245	LEAR	8	S	0848.0	0848.0	1.0	210.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0848.0	0848.0	1.0	75.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	0848.0	0848.8	1.8	276.0			
	33	UPIC	46	C	0848.5	0850.5	6.0				
	3000	IZMI	40	F	0848.9	0850.6	4.4	12.0			
	204	IZMI	42	SER	0850.0	0850.5	1.6	121.0			
	33	UPIC	42	SER	0902.0	0912.0	11.5				
	127	TORN	48	C	0910.0	0911.5	1.8	160.0	40.0		
	204	IZMI	42	SER	0911.9	0912.1	1.3	25.0			
	2840	PEKG	3	S	2315.0	2320.1	13.0	14.8			
	2800	HIRA	1	S	2318.0	2320.0	3.0	15.0			0