SOLAR RADIO EMISSION
Outstanding Occurrences

MAY 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
01	280	CUBA	44	NS	1330.0E		150.0D		17.0		
	235	CUBA	44	NS	1330.0E		150.0D		7.0		
	204	IZMI	42	SER	0603.1	0603.4	21.8	30.0			
	204	IZMI	7	C	0605.6	0605.6	0.1	10.0			
	204	IZMI	41	F	0730.5	0730.6	0.3	16.0			
	204	IZMI	41	F	0916.6	0916.7	0.2	8.0			
	2840	PEKG	3	S	0957.0	1001.2	12.0	33.6			
	3000	IZMI	7	C	1000.2	1001.4	2.9	42.0	10.0		
	2695	SVTO	8	S	1001.0	1001.0	U	27.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1001.0	1001.0	U	61.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1001.0	1001.0	U	27.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	1021.9	1021.9	0.2	14.0			
	204	IZMI	41	F	1029.6	1029.6	0.2	60.0			
	245	SGMR	8	S	1437.0	1437.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1437.0	1437.0	1.0	120.0			QL=4 ST=2 TYP=3
	280	CUBA	7	C	1437.1	1437.5	2.3		48.0		
	235	CUBA	7	C	1437.1	1437.5	2.3				
	2800	PENT	20	GRF	1442.0	1522.0	61.0	13.0			
	245	SGMR	8	S	1819.0	1819.0	2.0	200.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1853.0	1907.0	40.0U	118.0			
	4995	SGMR	4	S/F	1901.0	1907.0	21.0	390.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1903.0	1908.0	14.0	360.0			QL=4 ST=2 TYP=3
	8800	PALE	48	C	1904.0	1912.0	17.0	350.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1904.0	1912.0	18.0	300.0			QL=4 ST=2 TYP=8
	2695	PALE	20	GRF	1905.0	1912.0	26.0	150.0			QL=4 ST=2 TYP=2
	15400	PALE	48	C	1906.0	1907.0	8.0	170.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	1906.0	1912.0	16.0	170.0			QL=4 ST=2 TYP=8
	2695	SGMR	20	GRF	1906.0	1907.0	16.0	110.0			QL=4 ST=2 TYP=2
	1415	SGMR	4	S/F	1911.0	1911.0	11.0	47.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2017.0	2018.0	1.0	300.0			0
	245	PALE	49	GB	2017.0	2018.0	4.0	920.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	2017.0	2017.0	1.0	830.0			QL=4 ST=2 TYP=6
02	204	IZMI	43	NS	1022.8		97.2D		10.0		
	127	TORN	43	NS	1100.0		240.0U		4.0		V=1,UNCERTAIN
	280	CUBA	44	NS	1300.0E		240.0D		14.0		
	235	CUBA	44	NS	1300.0E		240.0D		8.0		
	2800	PENT	4	S/F	0027.0	0036.0	20.0	90.0			
	2840	PEKG	3	S	0029.0	0036.1	20.0	110.1			
	500	HIRA	8	S	0031.0	0032.0	2.0	40.0			0
	2800	HIRA	3	S	0032.0	0036.0	9.0	80.0			0
	4995	LEAR	4	S/F	0033.0	0036.0	6.0	210.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0034.0	0036.0	4.0	82.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0035.0	0036.0	1.0	55.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0035.0	0036.0	1.0	25.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0120.0	0120.0	1.0	20.0			0
	245	LEAR	8	S	0120.0	0120.0	U	58.0			QL=2 ST=2 TYP=3
	2840	PEKG	45	C	0624.0	0630.9	37.0	88.3			
	2950	GORK	46	C	0627.6	0630.2	13.0	65.0			
	2950	GORK	46	C	0627.6	0630.9		80.0			
	3000	IZMI	45	C	0627.8	0630.8	61.7	93.0			
	2800	HIRA	4	S/F	0628.0	0631.0	6.0	80.0			0
	4995	LEAR	4	S/F	0628.0	0630.0	5.0	91.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0628.0	0629.0	9.0	93.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0628.7	0628.8	2.9	72.0			
	200	HIRA	8	S	0629.0	0630.0	1.0	30.0			0
	2695	LEAR	8	S	0629.0	0630.0	2.0	62.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0629.0	0630.0	2.0	26.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0629.0	0630.0	2.0	53.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0629.0	0630.0	2.0	42.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0951.4	0951.7	0.5	8.0			
	204	IZMI	7	C	0954.1	0954.1	0.1	17.0			
	245	SVTO	8	S	0957.0	0957.0	U	73.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0957.0	0957.0	U	82.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0957.0	0957.0	U	85.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0957.3	0957.4	0.4	71.0			
	410	SGMR	8	S	1041.0	1041.0	2.0	110.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1041.0	1041.0	1.0	240.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	1100.5	1100.5	0.1	14.0			

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

MAY 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
02	245	PALE	8	S	1747.0	1747.0	U	95.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1747.0	1747.0	U	66.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1753.0	1754.0	1.0	92.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1753.0	1753.0	1.0	64.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1931.0	1931.8	3.0	8.0	4.0		
	245	PALE	8	S	1946.0	1946.0	U	89.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1946.0	1946.0	U	63.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2003.0	2003.0	1.0	170.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2003.0	2005.0	2.0	48.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2003.0	2003.0	1.0	100.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2004.0	2004.0	1.0	40.0			0
	9500	CUBA	1	S	2144.0	2144.5	1.5	9.0	4.0		
03	204	IZMI	44	NS	0600.0E		150.0D		60.0		
	204	IZMI	44	NS	0830.0E		210.0D		20.0		
	127	TORN	44	NS	0900.0E		250.0D		8.0		V=1,DISTURBED
	280	CUBA	44	NS	1300.0E		530.0D		15.0		
	235	CUBA	44	NS	1300.0E		530.0D		9.0		
	200	HIRA	8	S	0024.0	0025.0	1.0	15.0			0
	500	HIRA	8	S	0034.0	0035.0	1.0	30.0			WR
	200	HIRA	8	S	0332.0	0332.0	1.0	35.0			0
	3000	IZMI	20	GRF	0817.0	0835.7	23.2	6.0	2.0		
	245	LEAR	8	S	0824.0	0824.0	1.0	110.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0824.0	0824.0	2.0	120.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	0824.4	0824.9	0.7	134.0			
	6700	CUBA	20	GRF	1946.0	1954.0	48.0	8.0	4.0		00L
	245	PALE	8	S	2246.0	2247.0	1.0	69.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	2246.0	2247.0	8.0	76.0			QL=4 ST=2 TYP=3
04	245	LEAR	43	NS	0404.0	0406.0	16.0	64.0			QL=2 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		45.0		
	127	TORN	44	NS	0630.0E		510.0D		40.0		V=2,DISTURBED
	280	CUBA	44	NS	1300.0E		530.0D		22.0		
	235	CUBA	44	NS	1300.0E		530.0D		16.0		
	245	LEAR	8	S	0136.0	0136.0	1.0	61.0			QL=2 ST=2 TYP=3
	204	IZMI	42	SER	0622.9	0622.9	0.1	61.0			
	204	IZMI	7	C	0737.8	0737.9	0.2	83.0			
	200	HIRA	8	S	0738.0	0738.0	1.0	30.0			WL
	3000	IZMI	7	C	1117.7	1118.5	1.7	9.0	3.0		
	2800	PENT	40	F	1428.0	1457.0	51.0	8.0			
	245	SGMR	8	S	1640.0	1641.0	2.0	53.0			QL=4 ST=2 TYP=3
	6700	CUBA	20	GRF	1817.0	1858.0	158.0	16.0	8.0		8L
	2800	PENT	21	GRF	1833.0	1917.0	58.0	8.0			
	200	HIRA	8	S	2055.0	2055.0	1.0	20.0			0
	245	SGMR	8	S	2055.0	2055.0	U	67.0			QL=4 ST=2 TYP=3
05	204	IZMI	44	NS	0600.0E		360.0D		10.0		
	127	TORN	44	NS	0740.0E		130.0D		20.0		V=1
	280	CUBA	44	NS	1300.0E		320.0D		15.0		
	235	CUBA	44	NS	1300.0E		320.0D		10.0		
	2840	PEKG	20	GRF	0210.0	0216.0	11.0	5.1			
	2840	PEKG	1	S	0455.0	0457.9	5.0	7.4			
	2950	GORK	1	S	0503.1	0503.6	0.9	9.1			
	204	IZMI	7	C	0620.9	0621.0	0.3	35.0			
	200	HIRA	8	S	0621.0	0621.0	1.0	20.0			0
	204	IZMI	7	C	0631.1	0631.2	0.3	28.0			
	2950	GORK	21	GRF	0837.0	0850.3	13.3	30.0			
	2840	PEKG	20	GRF	0839.0	0851.3	41.0	33.0			
	3000	IZMI	45	C	0843.3	0851.2U	19.5	36.0U			
	2950	GORK	42	SER	0850.9	0851.2	2.1	8.2			
	2950	GORK	42	SER	0850.9	0852.4		5.5			
	33	UPIC	42	SER	0852.0	0903.5	37.0				
	204	IZMI	41	F	0858.7	0858.9	0.7	12.0			
	204	IZMI	7	C	1116.1	1116.2	0.3	11.0			
	204	IZMI	7	C	1125.4	1125.5	0.2	11.0			
	410	SVTO	8	S	1127.0	1127.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1407.0	1407.0	U	68.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1407.0	1407.0	U	68.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1802.0	1813.0	90.0U	13.0			

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

MAY 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
05	6700	CUBA	20	GRF	1809.0	1817.0	117.0	14.0	7.0		8R
	9500	CUBA	20	GRF	1811.0	1822.0U	117.0	11.0	5.0		
	200	HIRA	8	S	2318.0	2318.0	1.0	15.0			0
06	127	TORN	44	NS	0940.0E		190.0D		7.0		V=0
	235	CUBA	44	NS	1300.0E		530.0D		6.0		
	200	HIRA	8	S	0004.0	0004.0	1.0	30.0			0
	200	HIRA	8	S	0652.0	0652.0	1.0	10.0			MR
	200	HIRA	8	S	0748.0	0749.0	1.0	5.0			0
	204	IZMI	42	SER	0748.1	0748.3	0.3	21.0			
	2950	GORK	1	S	1047.6	1048.0	1.7	4.3			
	3000	IZMI	5	S	1047.6	1048.2	4.3	7.0	2.0		
	3000	IZMI	5	S	1143.2	1144.0	3.5	9.0	4.0		
07	280	CUBA	44	NS	1300.0E		530.0D		14.0		
	235	CUBA	44	NS	1300.0E		530.0D		6.0		
	2840	PEKG	1	S	0232.0	0233.9	5.0	6.5			
	410	SVTO	8	S	0445.0	0446.0	1.0	67.0			QL=4 ST=2 TYP=3
	2800	PENT	24	R	1525.0	1556.0	67.0U	7.0			
	245	SGMR	8	S	1629.0	1629.0	U	120.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1629.0	1629.0	U	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1629.0	1629.0	U	110.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1629.0	1629.0	U	58.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1650.0	1650.0	U	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1650.0	1650.0	U	100.0			QL=4 ST=2 TYP=3
08	280	CUBA	44	NS	1300.0E		530.0D		12.0		
	235	CUBA	44	NS	1300.0E		530.0D		5.0		
	2800	HIRA	29	PBI		0055.0		40.0			0
	2800	PENT	29	PBI	0035.0	0051.0	75.0	43.0			
	2840	PEKG	45	C	0036.0	0047.7	41.0	30.4			
	2800	HIRA	7	C	0040.0	0051.0	15.0	40.0			0
	204	IZMI	7	C	0721.8	0722.0	0.3	24.0			
	200	HIRA	8	S	0722.0	0722.0	1.0	10.0			0
	204	IZMI	41	F	0728.7	0728.8	0.5	14.0			
	245	SVTO	8	S	1205.0	1205.0	1.0	67.0			QL=4 ST=2 TYP=3
	2800	PENT	21	GRF	1608.0	1618.0	24.0U	3.0			
09	280	CUBA	44	NS	1300.0E		530.0D		13.0		
	235	CUBA	44	NS	1300.0E		530.0D		6.0		
	204	IZMI	42	SER	0655.3	0655.6	2.5	48.0			
	410	SVTO	8	S	0815.0	0816.0	1.0	160.0			QL=4 ST=3 TYP=3
	410	LEAR	8	S	0816.0	0816.0	U	72.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1749.0	1752.0	33.0U	20.0			
	410	PALE	4	S/F	1751.0	1752.0	3.0	110.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1752.0	1752.0	1.0	13.0	6.0		19L
	245	PALE	8	S	1752.0	1752.0	2.0	90.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1752.0	1752.0	U	61.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1752.0	1752.0	1.0	73.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1752.0	1752.2	0.8	10.0	5.0		
10	204	IZMI	43	NS	1137.0		23.0D		25.0		
	280	CUBA	44	NS	1300.0E		530.0D		14.0		
	235	CUBA	44	NS	1300.0E		530.0D		6.0		
	4995	LEAR	8	S	0246.0	0246.0	U	30.0			QL=4 ST=2 TYP=3
	500	HIRA	7	C	0349.0	0353.0	7.0	40.0			0
	200	HIRA	8	S	0429.0	0429.0	1.0	5.0			0
	500	HIRA	8	S	0446.0	0447.0	1.0	10.0			0
	200	HIRA	8	S	0446.0	0446.0	1.0	160.0			0
	204	IZMI	41	F	0721.7	0722.3	0.9	13.0			
	245	SVTO	8	S	0933.0	0933.0	U	110.0			QL=4 ST=3 TYP=3
	204	IZMI	41	F	0940.7	0940.9	0.7	106.0			
	204	IZMI	42	SER	0943.8	0944.9	1.1	26.0			
	3000	IZMI	20	GRF	1020.7	1038.2	66.7	11.0	5.0		
	2800	PENT	41	F	1440.0	1455.0	65.0	16.0			
	9500	CUBA	2	S/F	1454.6	1455.5	2.2	12.0	6.0		
	6700	CUBA	2	S/F	1454.6	1455.5	2.7	13.0	6.0		26L
	500	HIRA	8	S	2103.0	2103.0	1.0	70.0			0

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MAY 2001

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11	204	IZMI	44	NS	0600.0E		30.0D		10.0		
	204	IZMI	43	NS	0924.0		156.0D		10.0		
	280	CUBA	44	NS	1500.0E		410.0D		18.0		
	235	CUBA	44	NS	1500.0E		410.0D		8.0		
	200	HIRA	8	S	0349.0	0349.0	1.0	15.0			0
	204	IZMI	25	R	0630.0		64.0		36.0		
	900	GORK	21	GRF	0635.0	0751.0	128.0	13.0			
	900	GORK	46	C	0642.5	0645.2	7.2	13.0			
	900	GORK	46	C	0642.5	0648.3		16.0			
	900	GORK	40	F	0653.8	0657.6	4.6	11.0			
	900	GORK	46	C	0705.3	0706.5	3.6	9.8			
	900	GORK	46	C	0705.3	0707.6		22.0			
	500	HIRA	4	S/F	0712.0	0716.0	8.0	50.0			WR
	900	GORK	4	S/F	0712.0	0716.3	6.5	260.0			
	245	LEAR	8	S	0713.0	0713.0	1.0	45.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0713.0	0713.0	2.0	27.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0713.0	0713.0	2.0	27.0			QL=4 ST=3 TYP=3
	410	SVTO	4	S/F	0713.0	0715.0	4.0	22.0			QL=4 ST=3 TYP=3
	410	SVTO	4	S/F	0713.0	0715.0	7.0	22.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	0713.0	0715.0	7.0	22.0			QL=4 ST=3 TYP=3
	1415	SVTO	4	S/F	0713.0	0715.0	3.0	33.0			QL=4 ST=3 TYP=3
	1415	SVTO	4	S/F	0713.0	0715.0	7.0	33.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	0713.0	0715.0	7.0	33.0			QL=4 ST=3 TYP=3
	610	LEAR	4	S/F	0714.0	0716.0	3.0	130.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	0714.0	0716.0	3.0	140.0			QL=4 ST=3 TYP=3
	204	IZMI	42	SER	0920.3	0920.4	0.4	15.0			
	204	IZMI	41	F	0921.1	0921.1	0.3	34.0			
	204	IZMI	41	F	1031.8	1031.9	0.3	12.0			
	245	SVTO	48	C	1222.0	1256.0	108.0	6200.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	1223.0	1256.0	106.0	6800.0			QL=4 ST=2 TYP=8
	410	SGMR	48	C	1226.0	1256.0	103.0	540.0			QL=4 ST=2 TYP=8
	410	SVTO	48	C	1226.0	1257.0	100.0	1300.0			QL=4 ST=2 TYP=8
	33	UPIC	46	C	1432.0	1432.5	6.0				
	6700	CUBA	21	GRF	1919.0	2022.0	116.0D	6.0	3.0		18R SUNSET
	610	SGMR	4	S/F	1941.0	1942.0	5.0	90.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	2019.8	2020.4	1.8	6.0	3.0		OOL
	200	HIRA	8	S	2031.0	2031.0	1.0	10.0			WR
	245	SGMR	8	S	2103.0	2103.0	U	72.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	2318.0	2320.8	5.0	23.8			
	2800	PENT	1	S	2319.0	2320.0	2.0	19.0			
	500	HIRA	8	S	2320.0	2320.0	1.0	55.0			0
	610	LEAR	8	S	2320.0	2320.0	U	150.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2320.0	2320.0	U	190.0			QL=4 ST=2 TYP=3
12	204	IZMI	44	NS	0600.0E		360.0D		20.0		
	127	TORN	44	NS	1100.0E		240.0D		20.0		V=2
	245	SGMR	43	NS	1301.0	1308.0	109.0	100.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	1310.0E		520.0D		44.0		
	235	CUBA	44	NS	1310.0E		520.0D		24.0		
	245	SVTO	43	NS	1317.0	1337.0	40.0	100.0			QL=2 ST=2 TYP=1
	245	PALE	43	NS	1722.0	1743.0	210.0	99.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1747.0	1920.0	173.0	370.0			QL=4 ST=2 TYP=1
	2800	PENT	40	F	0036.0	0039.0	6.0	16.0			
	2800	PENT	47	GB	0036.0E	0036.0U	1.0U	50.0U			
	2840	PEKG	45	C	0038.0	0039.4	4.0	23.4			
	610	LEAR	49	GB	0039.0	0039.0	1.0	720.0			QL=4 ST=2 TYP=6
	2695	LEAR	8	S	0039.0	0040.0	1.0	40.0			QL=4 ST=2 TYP=3
	610	PALE	49	GB	0039.0	0039.0	U	900.0			QL=4 ST=2 TYP=6
	200	HIRA	47	GB	0226.0	0227.0	1.0	715.0			0
	245	LEAR	49	GB	0226.0	0226.0	U	2900.0			QL=4 ST=2 TYP=6
	410	LEAR	49	GB	0226.0	0226.0	U	690.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	0226.0	0226.0	1.0	2400.0			QL=4 ST=2 TYP=6
	410	PALE	49	GB	0226.0	0226.0	1.0	890.0			QL=4 ST=2 TYP=6
	2950	GORK	21	GRF	0453.5	0501.4	18.5	10.0			
	2840	PEKG	5	S	0458.0	0500.2	5.0	16.6			
	9100	GORK	3	S	0459.8	0500.2	0.9	23.0			
	2950	GORK	3	S	0459.8	0500.2	1.4	13.0			
	200	HIRA	8	S	0535.0	0536.0	1.0	15.0			0
	245	LEAR	8	S	0637.0	0637.0	1.0	59.0			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

MAY 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
12	245	SVTO	8	S	0637.0	0637.0	2.0	60.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0731.2	0731.8	0.7	41.0			
	200	HIRA	8	S	0743.0	0743.0	1.0	40.0			0
	204	IZMI	7	C	0743.4	0743.5	0.3	101.0			
	204	IZMI	7	C	0849.3	0849.3	0.1	26.0			
	204	IZMI	42	SER	1052.6	1052.8	0.3	43.0			
	245	SGMR	8	S	1103.0	1103.0	2.0	190.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1103.0	1103.0	2.0	79.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1103.0	1103.0	1.0	190.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1103.6	1103.8	1.9	240.0			
	245	SVTO	8	S	1109.0	1111.0	2.0	130.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1110.5	1111.0	3.0				
	245	SGMR	8	S	1111.0	1111.0	U	110.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	1111.0	1111.3	0.6	833.0			
	245	SGMR	8	S	1243.0	1243.0	2.0	64.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1243.0	1243.0	1.0	58.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1244.0	1245.0	2.0				
	245	SVTO	8	S	1301.0	1301.0	U	91.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1304.0	1304.0	1.0	64.0			QL=4 ST=2 TYP=3
	2800	PENT	21	GRF	1404.0	1529.0	112.0	11.0			
	9500	CUBA	20	GRF	1410.0	1437.0	71.0	11.0	5.0		
	6700	CUBA	20	GRF	1411.0	1427.0	88.0	7.0	3.0		11L
	6700	CUBA	21	GRF	1711.0	1726.0	162.0	11.0	5.0		17R
	9500	CUBA	21	GRF	1715.0	1724.0	78.0	11.0	5.0		
	9500	CUBA	2	S/F	1715.0	1721.3	6.4	41.0	20.0		
	6700	CUBA	2	S/F	1715.0	1721.3	10.5	73.0	36.0		27R
	33	UPIC	45	C	1716.0	1716.5	1.5				
	410	SGMR	48	C	1717.0	1721.0	6.0	110.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	1717.0	1721.0	6.0	84.0			QL=4 ST=2 TYP=8
	610	SGMR	4	S/F	1717.0	1718.0	6.0	120.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1718.0	1721.0	5.0	40.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1718.0	1718.0	5.0	34.0			QL=4 ST=2 TYP=3
	2695	SVTO	48	C	1718.0	1718.0	3.0	50.0			QL=2 ST=2 TYP=8
	4995	SVTO	48	C	1718.0	1721.0	3.0	62.0			QL=2 ST=2 TYP=8
	8800	SVTO	48	C	1719.0	1721.0	2.0	53.0			QL=2 ST=2 TYP=8
	245	SGMR	4	S/F	1720.0	1721.0	3.0	69.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1721.0	1721.0	2.0	11.0			QL=4 ST=2 TYP=3
	2800	PENT	21	GRF	1735.0	1813.0	46.0	10.0			
	2800	PENT	29	PBI	1908.0	1912.0	17.0	6.0			
	2840	PEKG	45	C	2323.0	2336.9		154.3			
	2840	PEKG	45	C	2323.0	2343.4	57.0	258.0			
	8800	PALE	49	GB	2326.0	2327.0	5.0	520.0			QL=4 ST=2 TYP=6
	15400	PALE	8	S	2326.0	2327.0	2.0	230.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2326.0	2327.0	3.0	130.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	2326.0	2327.0	14.0	430.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	2326.0	2327.0	15.0	480.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	2326.0	2327.0	34.0	400.0			QL=4 ST=1 TYP=3
	2800	HIRA	7	C	2326.0	2337.0	51.0	185.0			0
	500	HIRA	8	S	2327.0	2327.0	3.0	480.0			0
	200	HIRA	8	S	2327.0	2327.0	1.0	1840.0			0
	245	PALE	49	GB	2327.0	2327.0	1.0	2400.0			QL=4 ST=2 TYP=6
	410	PALE	49	GB	2327.0	2327.0	1.0	12000.0			QL=4 ST=2 TYP=6
	610	PALE	49	GB	2327.0	2327.0	2.0	540.0			QL=4 ST=2 TYP=6
	1415	PALE	8	S	2327.0	2327.0	2.0	73.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	2327.0	2327.0	14.0	2500.0			QL=4 ST=2 TYP=6
	410	LEAR	49	GB	2327.0	2327.0	14.0	4900.0			QL=4 ST=2 TYP=6
	610	LEAR	49	GB	2327.0	2327.0	14.0	520.0			QL=4 ST=2 TYP=6
	2695	LEAR	4	S/F	2327.0	2336.0	13.0	230.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	2327.0	2327.0	14.0	160.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	2328.0	2328.0	13.0	37.0			QL=4 ST=2 TYP=3
	1415	PALE	48	C	2331.0	2336.0	8.0	160.0			QL=4 ST=2 TYP=8
	610	PALE	4	S/F	2331.0	2333.0	7.0	240.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2331.0	2336.0	8.0	190.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	2331.0	2336.0	9.0	350.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2331.0	2336.0	9.0	360.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	2331.0	2336.0	9.0	210.0			QL=4 ST=2 TYP=3
	500	HIRA	7	C	2332.0	2335.0	70.0	245.0			WR
	200	HIRA	27	RF	2332.0	0008.0	98.0	145.0			0
	410	PALE	48	C	2333.0	2337.0	7.0	490.0			QL=4 ST=2 TYP=8

SOLAR RADIO EMISSION
Outstanding Occurrences

MAY 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
12	245	PALE	48	C	2337.0	2343.0	6.0	190.0			QL=4 ST=2 TYP=8
	1415	LEAR	4	S/F	2341.0	2349.0	9.0	59.0			QL=4 ST=3 TYP=3
	245	LEAR	8	S	2342.0	2343.0	2.0	140.0			QL=4 ST=3 TYP=3
	2695	LEAR	8	S	2342.0	2343.0	2.0	100.0			QL=4 ST=3 TYP=3
	4995	LEAR	8	S	2342.0	2343.0	1.0	46.0			QL=4 ST=3 TYP=3
	245	PALE	48	C	2343.0	2347.0	4.0	190.0			QL=4 ST=2 TYP=8
	410	PALE	8	S	2343.0	2343.0	U	27.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2343.0	2343.0	U	56.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2343.0	2343.0	1.0	33.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2343.0	2343.0	U	24.0			QL=4 ST=2 TYP=3
	410	LEAR	20	GRF	2346.0	2354.0	29.0	270.0			QL=4 ST=2 TYP=2
	245	LEAR	20	GRF	2346.0	0007.0	35.0	290.0			QL=4 ST=3 TYP=2
	1415	LEAR	48	C	2347.0	0007.0	28.0	350.0			QL=4 ST=2 TYP=8
	2695	LEAR	48	C	2347.0	0002.0	28.0	250.0			QL=4 ST=2 TYP=8
	610	LEAR	20	GRF	2347.0	2351.0	28.0	140.0			QL=4 ST=2 TYP=2
	1415	PALE	48	C	2347.0	0007.0	25.0	450.0			QL=4 ST=3 TYP=8
	2695	PALE	48	C	2347.0	0002.0	24.0	190.0			QL=4 ST=3 TYP=8
	610	PALE	20	GRF	2347.0	2351.0	26.0	150.0			QL=4 ST=2 TYP=2
	610	PALE	20	GRF	2347.0	2351.0	26.0	150.0			QL=4 ST=3 TYP=2
	4995	PALE	20	GRF	2347.0	2354.0	20.0	73.0			QL=4 ST=3 TYP=2
	410	PALE	48	C	2347.0	2354.0	32.0	440.0			QL=4 ST=3 TYP=8
	245	PALE	20	GRF	2347.0	0008.0	32.0	300.0			QL=4 ST=3 TYP=2
	15400	PALE	8	S	2349.0	2349.0	U	28.0			QL=4 ST=3 TYP=3
	8800	PALE	4	S/F	2349.0	2353.0	8.0	46.0			QL=4 ST=3 TYP=3
	4995	LEAR	4	S/F	2350.0	2354.0	22.0	79.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	2353.0	2354.0	14.0	48.0			QL=4 ST=2 TYP=3
13	245	LEAR	43	NS	0015.0	0015.0	1425.0	100.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	0019.0	0031.0	23.0	130.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0038.0	0040.0	11.0	93.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0333.0	0034.0	27.0	150.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	0336.0	0340.0	6.0	70.0			QL=4 ST=2 TYP=1
	204	IZMI	43	NS	0713.0		287.0D		20.0		
	127	TORN	44	NS	1010.0E		230.0D		3.0		V=1
	280	CUBA	44	NS	1300.0E		530.0D		21.0		
	235	CUBA	44	NS	1300.0E		530.0D		9.0		
	245	LEAR	20	GRF	0024.0	0030.0	14.0	130.0			QL=4 ST=2 TYP=2
	410	PALE	8	S	0026.0	0026.0	1.0	46.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0028.0	0029.0	5.0	130.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0028.0	0029.0	4.0	100.0			QL=4 ST=2 TYP=3
	610	PALE	4	S/F	0028.0	0029.0	3.0	160.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	0028.0	0029.0	4.0	130.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0029.0	0029.0	1.0	24.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0121.0	0121.0	U	65.0			QL=4 ST=2 TYP=3
	8800	LEAR	48	C	0255.0	0308.0	18.0	240.0			QL=4 ST=2 TYP=8
	2840	PEKG	45	C	0258.0	0308.8	32.0	110.7			
	2695	LEAR	48	C	0300.0	0308.0	10.0	220.0			QL=4 ST=2 TYP=8
	4995	LEAR	48	C	0300.0	0308.0	10.0	210.0			QL=4 ST=2 TYP=8
	4995	PALE	48	C	0300.0	0308.0	10.0	220.0			QL=4 ST=2 TYP=8
	15400	LEAR	48	C	0301.0	0308.0	9.0	100.0			QL=4 ST=2 TYP=8
	1415	LEAR	8	S	0301.0	0301.0	1.0	26.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0301.0	0302.0	1.0	25.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0301.0	0301.0	1.0	35.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	0301.0	0301.0	1.0	50.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0301.0	0301.0	4.0	120.0			QL=4 ST=2 TYP=3
	2800	HIRA	7	C	0301.0	0309.0	12.0	105.0			0
	500	HIRA	47	GB	0302.0	0302.0	1.0	1075.0			0
	245	LEAR	48	C	0302.0	0303.0	8.0	2200.0			QL=4 ST=2 TYP=8
	410	LEAR	48	C	0302.0	0307.0	8.0	2300.0			QL=4 ST=2 TYP=8
	610	LEAR	49	GB	0302.0	0302.0	8.0	2200.0			QL=4 ST=2 TYP=6
	410	PALE	48	C	0302.0	0307.0	8.0	1800.0			QL=4 ST=2 TYP=8
	610	PALE	49	GB	0302.0	0302.0	8.0	2000.0			QL=4 ST=2 TYP=6
	200	HIRA	47	GB	0303.0	0308.0	5.0	1470.0			0
	245	PALE	48	C	0303.0	0303.0	7.0	2000.0			QL=4 ST=2 TYP=8
	500	HIRA	47	GB	0303.0	0308.0	41.0	555.0			0
	200	HIRA	7	C	0307.0	0308.0	40.0	175.0			0
	245	LEAR	20	GRF	0315.0	0318.0	18.0	190.0			QL=4 ST=2 TYP=2
	245	PALE	20	GRF	0316.0	0318.0	20.0	160.0			QL=4 ST=2 TYP=2
	410	LEAR	4	S/F	0317.0	0321.0	13.0	450.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

MAY 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
13	410	PALE	49	GB	0317.0	0321.0	19.0	560.0			QL=4 ST=2 TYP=6
	610	LEAR	4	S/F	0318.0	0320.0	5.0	160.0			QL=4 ST=2 TYP=3
	610	PALE	4	S/F	0318.0	0321.0	5.0	120.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0320.0	0320.0	U	23.0			QL=4 ST=2 TYP=3
	500	HIRA	7	C	0358.0	0402.0	17.0	55.0			0
	200	HIRA	42	SER	0535.0	0535.0	5.0	25.0			0
	2950	GORK	20	GRF	0726.0	0816.6	123.0	16.0			
	9100	GORK	20	GRF	0814.9	0818.3	13.3	11.0			
	900	GORK	41	F	0816.1	0817.6	4.1	7.0			
	204	IZMI	41	F	0824.9	0825.3	0.8	51.0			
	200	HIRA	8	S	0825.0	0826.0	1.0	10.0			0
	245	SVTO	8	S	0838.0	0838.0	U	60.0			QL=4 ST=2 TYP=3
	204	IZMI	25	R	1114.0		46.0D		30.0		
	6700	CUBA	20	GRF	1249.0	1405.0	143.0	26.0	13.0		4L
	2800	PENT	29	PBI	1353.0	1403.0	64.0	13.0			
	245	SGMR	4	S/F	1404.0	1405.0	3.0	57.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1405.0	1405.0	U	58.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1828.0	1829.0	1.0	100.0			QL=4 ST=2 TYP=3
	2800	PENT	24	R	1911.0	1915.0	21.0U	4.0			
	6700	CUBA	21	GRF	1914.0	2053.0	146.0D	15.0	7.0		2R SUNSET
	9500	CUBA	1	S	1915.0	1915.8	2.0	13.0	6.0		
	6700	CUBA	1	S	1915.0	1915.8	2.2	13.0	6.0		28R
	2800	PENT	7	C	2046.0	2101.0		11.0			
14	204	IZMI	44	NS	0600.0E		110.0D		20.0		
	235	CUBA	44	NS	1300.0E		530.0D		7.0		
	280	CUBA	44	NS	1310.0E		520.0D		16.0		
	2840	PEKG	5	S	0321.0	0323.8	5.0	13.9			
	200	HIRA	8	S	0337.0	0338.0	1.0	10.0			0
	245	LEAR	8	S	0429.0	0429.0	U	59.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1133.7	1133.8	0.3	28.0			
	33	UPIC	48	C	1332.5	1334.0	7.0				
	33	UPIC	46	C	1434.0	1439.5	8.0				
	33	UPIC	4	S/F	1632.0	1632.5	1.0				
	2800	PENT	21	GRF	2129.0	2145.0	63.0U	11.0			
	200	HIRA	8	S	2148.0	2148.0	1.0	15.0			0
	200	HIRA	8	S	2208.0	2208.0	1.0	25.0			0
	245	PALE	8	S	2208.0	2208.0	U	360.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2208.0	2208.0	U	180.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2218.0	2220.0	2.0	30.0			0
	200	HIRA	8	S	2244.0	2245.0	1.0	10.0			WR
	200	HIRA	8	S	2248.0	2248.0	1.0	5.0			0
	200	HIRA	8	S	2254.0	2254.0	1.0	30.0			WR
15	280	CUBA	44	NS	1300.0E		530.0D		16.0		
	235	CUBA	44	NS	1300.0E		530.0D		7.0		
	2840	PEKG	5	S	0255.0	0257.9	8.0	40.7			
	2800	HIRA	1	S	0256.0	0258.0	5.0	35.0			0
	500	HIRA	8	S	0257.0	0258.0	5.0	95.0			WL
	245	LEAR	49	GB	0300.0	0301.0	1.0	780.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	0300.0	0301.0	2.0	1100.0			QL=4 ST=2 TYP=6
	200	HIRA	47	GB	0301.0	0303.0	2.0	505.0			0
	200	HIRA	8	S	0450.0	0450.0	1.0	20.0			0
	410	LEAR	4	S/F	0454.0	0456.0	3.0	56.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0455.0	0456.0	2.0	310.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0455.0	0456.0	1.0	350.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0455.0	0456.0	1.0	80.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0456.0	0456.0	1.0	60.0			0
	200	HIRA	8	S	0456.0	0457.0	2.0	45.0			0
	610	LEAR	8	S	0456.0	0456.0	1.0	48.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0456.0	0456.0	U	45.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	0456.0	0457.0	1.5				
	200	HIRA	8	S	0516.0	0516.0	1.0	50.0			0
	204	IZMI	42	SER	0604.6	0605.5	1.1	76.0			
	200	HIRA	8	S	0605.0	0606.0	1.0	15.0			0
	245	LEAR	4	S/F	0606.0	0607.0	3.0	290.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0606.8	0607.6	2.9	237.0			
	200	HIRA	8	S	0608.0	0608.0	1.0	45.0			0
	2840	PEKG	1	S	0917.0	0919.6	6.0	3.3			

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

MAY 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
15	9100	GORK	3	S	0919.2	0919.6	1.3	10.0			
	3000	IZMI	5	S	0919.2	0919.7	1.0	7.0	3.0		
	33	UPIC	45	C	0919.5	0920.0	1.5				
	245	SGMR	8	S	1204.0	1204.0	1.0	56.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	1336.0	1336.5	1.0				
	33	UPIC	45	C	1358.0	1359.5	2.0				
	2800	PENT	29	PBI	1436.0	1442.0	43.0	5.0			
	245	PALE	8	S	1902.0	1903.0	1.0	98.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1902.0	1902.0	1.0	70.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1937.0	1938.0	1.0	110.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1937.0	1937.0	1.0	84.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2121.0	2121.0	1.0	25.0			0
16	280	CUBA	44	NS	1300.0E		530.0D		15.0		
	235	CUBA	44	NS	1300.0E		530.0D		8.0		
	500	HIRA	8	S	0639.0	0639.0	1.0	200.0			0
	200	HIRA	8	S	0740.0	0740.0	1.0	15.0			0
	204	IZMI	7	C	0740.2	0740.3	0.3	98.0			
	3000	IZMI	5	S	1039.6	1039.9	1.4	5.0	2.0		
	2800	PENT	29	PBI	1532.0	1543.0	60.0U	8.0			
	2800	PENT	1	S	1914.0	1918.0	8.0	6.0			
17	204	IZMI	43	NS	0600.0		360.0D		15.0		
	2840	PEKG	1	S	0154.0	0158.7	9.0	5.2			
	245	LEAR	8	S	0351.0	0351.0	1.0	130.0			QL=4 ST=2 TYP=3
	3000	IZMI	20	GRF	0648.4	0650.4	4.9	15.0	7.0		
	9100	GORK	45	C	0958.7	0959.3	2.1	28.0			
	9100	GORK	45	C	0958.7	0959.6		37.0			
	4995	SVTO	8	S	0959.0	0959.0	1.0	38.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0959.0	0959.0	1.0	41.0			QL=4 ST=2 TYP=3
	2950	GORK	4	S/F	0959.4	0959.6	1.1	5.2			
	2800	PENT	29	PBI	2039.0	2045.0	113.0U	102.0			
	1415	SGMR	4	S/F	2042.0	2045.0	3.0	35.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2042.0	2045.0	8.0	87.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	2042.0	2044.0	8.0	130.0			QL=4 ST=2 TYP=3
	2800	HIRA	3	S	2043.0	2045.0	5.0	85.0			0
	245	SGMR	4	S/F	2043.0	2047.0	4.0	43.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2043.0	2044.0	7.0	110.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	2043.0	2044.0	7.0	70.0			QL=4 ST=2 TYP=3
	6700	CUBA	4	S/F	2043.5	2044.8	2.5	116.0	58.0		6R
	410	SGMR	8	S	2045.0	2047.0	2.0	18.0			QL=4 ST=2 TYP=3
	2800	HIRA	1	S	2137.0	2139.0	2.0	20.0			0
	200	HIRA	8	S	2159.0	2159.0	1.0	20.0			0
	2840	PEKG	5	S	2315.0	2319.1	7.0U	46.7			
	2800	HIRA	3	S	2317.0	2319.0	9.0	40.0			0
	200	HIRA	8	S	2330.0	2333.0	3.0	30.0			0
18	204	IZMI	44	NS	0600.0E		360.0D		20.0		
	200	HIRA	8	S	0446.0	0446.0	1.0	40.0			0
	3000	IZMI	20	GRF	0631.4	0634.4	3.8	16.0	6.0		
	9100	GORK	1	S	0633.0	0634.4	3.2	11.0			
	2950	GORK	1	S	0633.2	0634.4	2.2	7.8			
	900	GORK	40	F	1020.6	1024.3	15.4	32.0			
	2800	PENT	20	GRF	1438.0	1505.0	69.0	12.0			
	200	HIRA	8	S	2016.0	2017.0	2.0	20.0			WL
19	127	TORN	44	NS	0720.0E		280.0D		5.0		V=1
	280	CUBA	44	NS	1300.0E		530.0D		14.0		
	235	CUBA	44	NS	1300.0E		530.0D		5.0		
	9100	GORK	3	S	0523.0	0523.9	2.2	14.0			
	2950	GORK	1	S	0525.3	0525.9	1.2	10.0			
	200	HIRA	47	GB	0742.0	0743.0	2.0	1180.0			0
	33	UPIC	46	C	0742.5	0744.5	3.5				
	245	LEAR	8	S	0743.0	0743.0	U	240.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0853.0	0857.3	8.0	5.7			
	33	UPIC	46	C	0855.5	0857.5	2.5				
	2840	PEKG	1	S	0934.0	0936.6	5.0	7.5			
	127	TORN	4	S/F	0941.3	0942.3	2.8	250.0	60.0		
	33	UPIC	46	C	1436.5	1437.0	1.5				

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

MAY 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
19	2800	PENT	20	GRF	2056.0	2111.0	17.0	7.0			
20	127	TORN	44	NS	0630.0E		510.0D		7.0		V=0
	280	CUBA	44	NS	1300.0E		530.0D		15.0		
	235	CUBA	44	NS	1300.0E		530.0D		7.0		
	2800	PENT	29	PBI	0005.0	0014.0	50.0	10.0			
	2840	PEKG	20	GRF	0011.0	0014.2	13.0	10.7			
	2840	PEKG	1	S	0238.0	0240.9	5.0	3.7			
	2840	PEKG	3	S	0557.0	0602.7	40.0	386.1			
	2800	HIRA	3	S	0601.0	0603.0	9.0	110.0			0
	200	HIRA	47	GB	0601.0	0603.0	2.0	520.0			0
	4995	LEAR	4	S/F	0601.0	0602.0	4.0	410.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0601.0	0602.0	4.0	350.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0601.0	0602.0	2.0	270.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0601.0	0602.0	4.0	340.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0601.0	0602.0	3.0	280.0			QL=4 ST=2 TYP=3
	500	HIRA	4	S/F	0601.0	0604.0	12.0	45.0			0
	9100	GORK	3	S	0601.4	0602.7	3.2	220.0			
	900	GORK	4	S/F	0601.5	0603.4	2.7	260.0			
	900	GORK	4	S/F	0601.5	0603.7		210.0			
	245	LEAR	48	C	0602.0	0605.0	4.0	390.0			QL=4 ST=2 TYP=8
	410	LEAR	8	S	0602.0	0602.0	1.0	48.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0602.0	0602.0	1.0	260.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0602.0	0603.0	3.0	75.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0602.0	0602.0	4.0	360.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0602.0	0605.0	5.0	460.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	0602.0	0602.0	5.0	250.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0602.0	0602.0	4.0	320.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0602.0	0602.0	1078.0	200.0			QL=4 ST=1 TYP=3
	200	HIRA	47	GB	0604.0	0606.0	2.0	1220.0			0
	410	SVTO	8	S	0604.0	0604.0	1.0	41.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0604.0	0604.0	1.0	42.0			QL=4 ST=2 TYP=3
	900	GORK	29	PBI	0604.2	0604.2	22.8	70.0			
	33	UPIC	48	C	0608.0	0609.0	8.0				
	2840	PEKG	1	S	0917.0	0920.5	6.0	5.8			
	200	HIRA	8	S	0920.0	0920.0	1.0	160.0			0
	245	LEAR	8	S	0920.0	0920.0	U	240.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	0929.5	0931.0	2.5				
	33	UPIC	46	C	1138.0	1139.0	2.0				
	127	TORN	7	C	1139.0	1139.4	1.4	1200.0	180.0		
	4995	SGMR	8	S	1415.0	1415.0	2.0	120.0			QL=4 ST=2 TYP=3
	6700	CUBA	22	GRF	1815.0	1840.0	67.0D	9.0	4.0		00L
21	127	TORN	44	NS	0850.0E		260.0D		7.0		V=1
	280	CUBA	44	NS	1300.0E		510.0D		16.0		
	235	CUBA	44	NS	1300.0E		530.0D		6.0		
	245	SGMR	43	NS	2007.0	2015.0	8.0	54.0			QL=4 ST=2 TYP=1
	2840	PEKG	45	C	0306.0	0320.1	28.0	219.1			
	500	HIRA	7	C	0313.0	0315.0	8.0	70.0			ML
	2800	HIRA	4	S/F	0313.0	0320.0	16.0	120.0			0
	200	HIRA	7	C	0313.0	0315.0	13.0	290.0			ML
	410	SGMR	49	GB	1429.0	1430.0	2.0	570.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	1430.0	1430.0	1.0	140.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1430.0	1430.0	1.0	36.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	1430.0	1430.0	U	600.0			QL=4 ST=2 TYP=6
	245	SVTO	8	S	1430.0	1430.0	U	200.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1450.0	1458.0	48.0	13.0			
	2800	PENT	20	GRF	1733.0	1821.0	84.0	11.0			
	245	SGMR	8	S	1935.0	1936.0	1.0	54.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1951.0	1951.0	2.0	170.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1951.0	1951.0	5.0	120.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2029.0	2030.0	1.0	56.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	2249.0	2251.5	5.0	4.9			
22	245	LEAR	49	GB	0257.0	0257.0	1.0	590.0			QL=4 ST=2 TYP=6
	200	HIRA	47	GB	0258.0	0258.0	1.0	1080.0			0
	610	SVTO	8	S	1334.0	1334.0	1.0	66.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1407.0	1407.0	U	63.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1611.0	1612.0	1.0	54.0			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

MAY 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
22	245	PALE	8	S	1754.0	1755.0	2.0	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1754.0	1755.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1758.0	1758.0	1.0	300.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1758.0	1758.0	1.0	200.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1946.0	1946.0	U	64.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2036.0	2036.0	1.0	15.0			0
	245	SGMR	8	S	2144.0	2145.0	1.0	62.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	2205.0	2208.0	11.0	9.5			
	200	HIRA	8	S	2221.0	2222.0	1.0	60.0			0
	245	PALE	8	S	2221.0	2221.0	1.0	430.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2221.0	2221.0	U	290.0			QL=4 ST=2 TYP=3
	500	HIRA	4	S/F	2240.0	2243.0	8.0	45.0			WL
	200	HIRA	4	S/F	2240.0	2244.0	10.0	70.0			0
	245	PALE	4	S/F	2241.0	2244.0	4.0	210.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	2241.0	2244.0	4.0	160.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2243.0	2243.0	1.0	68.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2243.0	2243.0	U	30.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2243.0	2243.0	U	47.0			QL=4 ST=2 TYP=3
23	245	LEAR	43	NS	0009.0	0009.0	15.0	55.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0149.0	0152.0	58.0	83.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0349.0	0356.0	121.0	90.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	1300.0E		530.0D		23.0		
	235	CUBA	44	NS	1300.0E		530.0D		15.0		
	245	SGMR	43	NS	1725.0	1803.0	362.0	200.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0056.0	0057.0	2.0	160.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0128.0	0129.0	2.0	75.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0247.0	0248.0	2.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0344.0	0344.0	2.0	120.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0345.0	0345.0	U	60.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0349.0	0349.0	1.0	57.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0404.0	0404.0	U	180.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0404.0	0404.0	1.0	320.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0930.0	0931.0	1.0	60.0			WL
	245	SVTO	8	S	0930.0	0930.0	U	270.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1033.0	1033.0	1.0	75.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1033.0	1033.0	1.0	78.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1041.0	1041.0	1.0	72.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1238.0	1238.0	U	170.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1238.0	1238.0	U	200.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1501.0	1502.0	1.0	76.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1502.0	1502.0	U	62.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	2005.0	2008.0	3.0	86.0			QL=4 ST=2 TYP=8
24	245	LEAR	43	NS	0411.0	0419.0	71.0	87.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0830.0E		330.0D		8.0U		V=1,DISTURBED
	280	CUBA	44	NS	1400.0E		120.0D		47.0		
	235	CUBA	44	NS	1400.0E		120.0D		13.0		
	245	SGMR	43	NS	1456.0	1507.0	89.0	140.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1513.0	1552.0	72.0	180.0			QL=2 ST=2 TYP=1
	245	LEAR	8	S	0300.0	0300.0	U	71.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0300.0	0300.0	U	180.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0358.0	0358.0	U	150.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0530.0	0531.7	4.0	91.3			
	245	SVTO	4	S/F	0750.0	0758.0	10.0	62.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0758.0	0759.0	1.0	58.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1435.0	1435.0	U	63.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1435.0	1435.0	U	79.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1438.0	1438.0	U	74.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1438.0	1438.0	U	84.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1507.0	1508.0	1.0	80.0			QL=4 ST=2 TYP=3
	2695	PALE	48	C	1934.0	1938.0	9.0	110.0			QL=4 ST=2 TYP=8
	1415	PALE	4	S/F	1934.0	1937.0	4.0	100.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1934.0	1936.0	9.0	99.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1934.0	1938.0	9.0	96.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1935.0	1937.0	6.0	34.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1935.0	1937.0	8.0	110.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1936.0	1937.0	1.0	32.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1936.0	1937.0	4.0	110.0			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

MAY 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
24	245	SGMR	46	C	1936.0	1940.0	7.0	41.0			QL=4 ST=2 TYP=8
	410	SGMR	4	S/F	1936.0	1937.0	5.0	70.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1936.0	1938.0	7.0	93.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1936.0	1939.0	7.0	73.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	1937.0	1937.0	1.0	45.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	1937.0	1939.0	4.0	60.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	2235.0	2239.0	4.0	65.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	2235.0	2235.0	U	52.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	2353.0	2359.0	44.0	16.0			
	2840	PEKG	5	S	2356.0	2359.2	10.0	17.1			
25	245	LEAR	43	NS	0300.0	0641.0	390.0	550.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	0356.0	0426.0	46.0	200.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0426.0	0426.0U	1174.0	67.0			QL=2 ST=1 TYP=1
	245	SVTO	43	NS	0426.0	0553.0U	1174.0	470.0			QL=2 ST=1 TYP=1
	410	LEAR	43	NS	0433.0	0604.0	238.0	120.0			QL=4 ST=2 TYP=1
	410	SVTO	43	NS	0434.0	0440.0	1166.0	100.0			QL=2 ST=1 TYP=1
	410	SVTO	43	NS	0434.0	0558.0	1166.0	200.0			QL=2 ST=1 TYP=1
	33	UPIC	43	NS	0456.0	0656.0	402.0				
	127	TORN	44	NS	0630.0E		510.0D		760.0		V=1
	245	SGMR	43	NS	0936.0	1026.0	343.0	120.0			QL=4 ST=3 TYP=1
	280	CUBA	44	NS	1300.0E		390.0D		18.0		
	235	CUBA	44	NS	1300.0E		390.0D		23.0		
	245	LEAR	49	GB	0606.0	0606.0	1.0	520.0			QL=4 ST=2 TYP=6
	410	LEAR	4	S/F	0617.0	0619.0	4.0	120.0			QL=4 ST=3 TYP=3
	245	SVTO	4	S/F	0617.0	0619.0	3.0	270.0			QL=4 ST=3 TYP=3
	410	SVTO	4	S/F	0617.0	0619.0	3.0	120.0			QL=4 ST=3 TYP=3
	245	LEAR	49	GB	0619.0	0619.0	U	330.0			QL=4 ST=3 TYP=6
	245	LEAR	49	GB	0627.0	0628.0	6.0	340.0			QL=4 ST=3 TYP=6
	245	LEAR	49	GB	0641.0	0647.0	11.0	470.0			QL=4 ST=3 TYP=6
	500	HIRA	8	S	0655.0	0655.0	1.0	40.0			O
	200	HIRA	8	S	0655.0	0656.0	1.0	190.0			MR
	2840	PEKG	5	S	0708.0	0711.9	8.0	10.3			
	200	HIRA	8	S	0813.0	0813.0	1.0	265.0			MR
	245	SVTO	4	S/F	1200.0	1202.0	3.0	99.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1608.0	1609.0	1.0	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1628.0	1628.0	U	56.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1854.0	1855.0	3.0	51.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1951.0	1952.0	3.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1951.0	1952.0	1.0	74.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2030.0	2030.0	1.0	63.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	2150.0	2215.0	42.0	11.0U			
	410	PALE	8	S	2213.0	2213.0	1.0	85.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	2228.0	2228.0	1.0	510.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	2324.0	2325.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2326.0	2326.0	U	620.0			QL=4 ST=2 TYP=6
	245	PALE	8	S	2350.0	2350.0	U	96.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2350.0	2350.0	U	270.0			QL=4 ST=2 TYP=3
26	245	PALE	43	NS	0006.0	0023.0	160.0	140.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0700.0E		480.0D		70.0		V=2
	280	CUBA	44	NS	1300.0E		300.0D		10.0		
	235	CUBA	44	NS	1300.0E		300.0D		14.0		
	245	SGMR	43	NS	1326.0	1822.0	596.0	410.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1408.0	1413.0	152.0	200.0			QL=2 ST=2 TYP=1
	245	PALE	43	NS	1724.0	1950.0	671.0	330.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2325.0	2330.0	605.0	230.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0023.0	0023.0	2.0	120.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0513.0	0514.0	1.0	20.0			WL
	245	LEAR	8	S	0521.0	0523.0	2.0	86.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0521.0	0523.0	2.0	92.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1207.0	1207.0	U	31.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1207.0	1207.0	U	59.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1207.0	1207.0	1.0	30.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1207.0	1207.0	U	33.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1207.0	1207.0	1.0	80.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1207.0	1207.0	1.0	28.0			QL=2 ST=3 TYP=3
	245	SGMR	4	S/F	1304.0	1308.0	4.0	58.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1326.0	1327.0	1.0	50.0			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

MAY 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
26	245	PALE	49	GB	1822.0	1822.0	3.0	680.0			QL=4 ST=2 TYP=6
27	245	SVTO	43	NS	0431.0	0441.0	479.0	260.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0630.0E		420.0D		30.0		V=2
	245	SGMR	43	NS	1019.0	1041.0	131.0	200.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	1400.0E		470.0D		15.0		
	235	CUBA	44	NS	1400.0E		470.0D		11.0		
	245	SGMR	8	S	1014.0	1014.0	U	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1017.0	1018.0	1.0	240.0			QL=4 ST=2 TYP=3
28	280	CUBA	44	NS	1300.0E		530.0D		14.0		
	235	CUBA	44	NS	1300.0E		530.0D		8.0		
	245	SVTO	8	S	1328.0	1329.0	1.0	57.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1328.0	1328.0	U	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1352.0	1352.0	1.0	88.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1352.0	1352.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1449.0	1449.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1449.0	1449.0	U	120.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1459.0	1459.0	2.0	54.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1905.0	1906.0	1.0	82.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1906.0	1906.0	U	74.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2155.0	2155.0	U	88.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2155.0	2155.0	U	71.0			QL=4 ST=2 TYP=3
29	204	IZMI	43	NS	0947.0		133.0D		8.0		
	245	SGMR	43	NS	1353.0	1416.0	46.0	62.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1353.0	1353.0	62.0	71.0			QL=2 ST=3 TYP=1
	280	CUBA	44	NS	1400.0E		310.0D		17.0		
	235	CUBA	44	NS	1400.0E		310.0D		9.0		
	245	SVTO	43	NS	1453.0	1353.0	2.0	71.0			QL=2 ST=2 TYP=1
	245	LEAR	8	S	0439.0	0441.0	2.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0439.0	0441.0	2.0	140.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0522.0	0524.8	5.0	12.9			
	2950	GORK	3	S	0524.2	0524.8	1.5	12.0			
	9100	GORK	3	S	0524.4	0524.8	2.0	11.0			
	204	IZMI	7	C	0602.4	0602.5	0.1	13.0			
	33	UPIC	3	S	0830.0	0830.5	1.5				
	204	IZMI	7	C	0830.5	0830.7	0.4	9.0			
	200	HIRA	8	S	0831.0	0831.0	1.0	5.0			0
	204	IZMI	42	SER	1118.6	1119.3	1.9	95.0			
	245	SGMR	8	S	1241.0	1242.0	1.0	56.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1343.0	1343.0	U	92.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1343.0	1343.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1411.0	1412.0	3.0	91.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1413.0	1413.0	U	25.0			QL=2 ST=2 TYP=3
	245	SGMR	4	S/F	1805.0	1806.0	3.0	71.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1805.0	1807.0	3.0	11.0			QL=4 ST=2 TYP=3
	200	HIRA	7	C	2147.0	2149.0	3.0	340.0			0
	500	HIRA	8	S	2149.0	2149.0	1.0	10.0			0
	245	PALE	8	S	2149.0	2149.0	U	260.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2149.0	2149.0	U	190.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2305.0	2305.0	U	58.0			QL=2 ST=2 TYP=3
30	280	CUBA	44	NS	1405.0E		295.0D		14.0		
	235	CUBA	44	NS	1405.0E		295.0D		7.0		
	200	HIRA	7	C	0005.0	0006.0	3.0	55.0			0
	204	IZMI	41	F	0955.4	0955.8	0.6	22.0			
	204	IZMI	42	SER	1021.7	1040.0	46.3	78.0			
	245	SGMR	4	S/F	1400.0	1401.0	3.0	50.0			QL=4 ST=2 TYP=3
31	204	IZMI	43	NS	1000.0		120.0D		10.0		
	280	CUBA	44	NS	1300.0E		180.0D		15.0		
	235	CUBA	44	NS	1300.0E		180.0D		8.0		
	200	HIRA	8	S	0142.0	0142.0	1.0	10.0			0
	200	HIRA	42	SER	0533.0	0533.0	4.0	15.0			0