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Solar - Geophysical Data

NO. 480 AUGUST 1984

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DATA FOR
FEBRUARY 1984
SEPTEMBER 1981

Michael A. Chinnery, Director
NATIONAL GEOPHYSICAL DATA CENTER
BOULDER, COLORADO

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*Solar radio noise bursts observed at Athens, Learmonth, Manila, Palehua and Sagamore Hill during Aug 1979 through Oct 1980 appear in SOLAR-GEOPHYSICAL DATA, No. 461, Part II, pages 103-235.

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OUTSTANDING OCCURRENCES

FEBRUARY 1984

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	208	VORO	44	NS	0000.0E		240.0D	63.0			
	200	GORK	44	NS	0631.0E		325.0D		30.0		
	100	GORK	44	NS	0631.0E		326.0D		30.0		
	204	IZMI	44	NS	0700.0E		300.0D	70.0			
	127	TORN	43	NS	0720.0		220.0D		103.0		V=1
	430	KRAK	44	NS	0800.0E	1243.0	360.0D	10.0			
	260	ONDR	44	NS	0810.0E		355.0D	117.0			
	536	ONDR	44	NS	0810.0E		311.0D	30.0			
	245	SGMR	43	NS	1221.0	1647.8	551.0D	150.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1741.0	1845.1	599.0D	210.0			QL=6 ST=2 TYP=1
	200	HIRA	44	NS	2137.0E	0337.0	620.0D	30.0	15.0		WR
	410	LEAR	43	NS	2223.0	0439.6	749.0D	56.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2223.0	0726.5	749.0D	139.0			QL=6 ST=2 TYP=1
	9400	TYKW	5	S	0010.9	0011.1	0.5	11.0	3.0		
	9400	TYKW	21	GRF	0017.0	0031.0	45.0	4.0	2.0		
	3750	TYKW	5	S	0023.0	0033.0	25.0	1.5	0.7		
	9400	TYKW	5	S	0040.7	0041.3	1.5	9.0	3.0		
	9400	TYKW	5	S	0052.4	0052.8	2.5	4.0	1.5		
	9400	TYKW	21	GRF	0109.0	0130.0	50.0	3.0	1.5		
	9400	TYKW	5	S	0132.0	0133.0	7.0U	6.0	2.0U		INTERFERENCE
	3750	TYKW	21	GRF	0150.0	0306.0	290.0	8.0	4.0		
	2000	TYKW	21	GRF	0200.0	0309.0	240.0	3.0	1.5		
	3750	TYKW	45	C	0213.0	0214.5	7.0	100.0	17.0		
	2000	TYKW	45	C	0213.0	0214.7	7.0	42.0	5.0		
	2840	PEKG	3	S	0213.0	0214.8	6.0	54.1	19.2		
	1000	TYKW	45	C	0213.0	0214.8	5.0	21.0	6.0		
	9400	TYKW	21	GRF	0213.0	0315.0	230.0	8.0	4.0		
	500	HIRA	45	C	0213.3	0214.3	2.3	210.0	90.0		WL
	2902	YUNN	6	S	0213.3	0215.7	5.0	80.0			
	610	PALE	47	GB	0213.8	0215.0	2.2	68.0			QL=6 ST=2 TYP=5
	100	HIRA	46	C	0213.9	0214.2	1.3	1400.0	356.0		
	17000	NOBE	1	S	0213.9	0214.6	4.0	32.0			L
	9400	TYKW	45	C	0214.0	0214.7	3.0	60.0	24.0		
	245	LEAR	47	GB	0214.0	0214.0	.6	540.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	0214.0	0214.1	.6	430.0			QL=6 ST=2 TYP=5
	4995	PALE	47	GB	0214.0	0214.3	2.1	119.0			QL=6 ST=2 TYP=5
	410	PALE	47	GB	0214.0	0214.3	1.6	200.0			QL=6 ST=2 TYP=5
	4995	LEAR	47	GB	0214.0	0214.3	1.8	110.0			QL=6 ST=2 TYP=5
	410	LEAR	47	GB	0214.0	0214.5	1.6	230.0			QL=6 ST=2 TYP=5
	1415	LEAR	8	S	0214.0	0214.6	1.8	35.0			QL=6 ST=2 TYP=3
	2695	PALE	47	GB	0214.0	0214.6	1.8	73.0			QL=6 ST=2 TYP=5
	2695	LEAR	47	GB	0214.0	0214.6	1.6	73.0			QL=6 ST=2 TYP=5
	8800	LEAR	47	GB	0214.0	0214.6	2.5	67.0			QL=6 ST=2 TYP=5
	610	LEAR	47	GB	0214.0	0215.0	1.8	60.0			QL=6 ST=2 TYP=5
	1415	PALE	8	S	0214.1	0214.6	1.5	35.0			QL=6 ST=2 TYP=3
	15400	PALE	8	S	0214.1	0214.6	1.0	35.0			QL=6 ST=2 TYP=3
	8800	PALE	47	GB	0214.1	0214.6	1.7	80.0			QL=6 ST=2 TYP=5
	15400	LEAR	4	S/F	0214.1	0214.8	2.0	38.0			QL=6 ST=2 TYP=3
	2930	VORO	3	S	0215.0	0217.0	8.0	132.0			
	208	VORO	3	S	0216.0	0218.0	3.0	200.0D			
	200	HIRA	46	C	0216.7	0217.8	1.7	230.0	95.0		WR
	9400	TYKW	30	PBI	0217.0		40.0	6.0	3.0		
	1000	TYKW	29	PBI	0218.0		10.0	1.5	0.5		
	2000	TYKW	29	PBI	0220.0		9.0	1.5	0.5		
	3750	TYKW	29	PBI	0220.0		10.0	2.0	1.0		
	610	PALE	8	S	0228.0	0228.3	.3	15.0			QL=6 ST=2 TYP=3
	410	PALE	8	S	0228.0	0228.3	.5	31.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0230.0	0230.9	4.0	3.0	1.0		
	3750	TYKW	5	S	0239.0	0242.0	15.0	3.0	1.5		
	9400	TYKW	5	S	0240.0	0241.0	11.0	3.0	1.0		
	9400	TYKW	21	GRF	0320.0	0330.0	160.0	10.0	5.0		
	2000	TYKW	21	GRF	0320.0	0348.0	140.0	4.0	2.0		
	3750	TYKW	21	GRF	0320.0	0349.0	150.0	8.0	4.0		
	9400	TYKW	5	S	0407.0	0407.8	1.5	6.0	1.5		
	410	LEAR	4	S/F	0407.1	0409.1	2.4	38.0			QL=6 ST=2 TYP=3
	610	LEAR	47	GB	0407.3	0409.8	2.5	92.0			QL=6 ST=2 TYP=5
	3750	TYKW	5	S	0407.5	0407.8	1.0	3.0	1.0		
	2000	TYKW	5	S	0407.5	0407.8	1.0	2.0	0.5		
	3750	TYKW	5	S	0417.0	0420.0	8.0	2.0	0.7		
	9400	TYKW	45	C	0417.0	0421.7	5.0	6.0	3.0		
	9400	TYKW	30	PBI	0422.0		20.0	3.0	1.5		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

FEBRUARY 1984

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	9400	TYKW	5	S	0429.0	0429.4	1.5	3.0	1.0		
	9400	TYKW	5	S	0443.0	0444.4	3.5	3.0	1.0		
	650	GORK	20	GRF	0554.0E	0730.0	366.0D	11.5	6.0		
	9100	GORK	23	GRF	0604.2	0817.4	342.0	28.0			
	9400	TYKW	21	GRF	0611.0	0625.0	35.0	8.0	4.0		
	15000	KISV	2	S/F	0624.6	0625.3	2.0	10.0			
	9400	TYKW	5	S	0630.8	0631.1	1.0	6.0	2.0		
	9400	TYKW	5	S	0640.0	0640.7	1.5	8.0	3.0		
	2950	GORK	20	GRF	0645.3	0812.0	190.0	7.5	2.5		
	6100	KISV	45	C	0709.2	0709.8	2.0	9.0			
	6100	KISV			0709.2	0710.3		7.0			
	9400	TYKW	5	S	0709.5	0709.9	2.0	14.0	4.0		
	9100	GORK	1	S	0709.6	0709.9	1.2	16.0	8.0		
	6100	KISV	1	S	0747.7	0748.3	1.0	4.0			
	430	KRAK	8	S	0839.5	0839.5	.2	28.0			
	11800	BERN	3	S	1011.2	1013.2	12.0	16.0			
	5200	BERN	3	S	1011.2	1013.2	12.0	15.0			
	8400	BERN	3	S	1011.2	1013.4	12.0	19.0			
	6100	KISV	2	S/F	1011.9	1013.2	6.0	12.0			
	15000	KISV	2	S/F	1012.3	1013.2	2.0	11.0			
	9100	GORK	1	S	1012.3	1013.2	1.8	18.0	10.0		
	430	KRAK	8	S	1023.3	1023.3	.4	120.0			
	2950	GORK	1	S	1039.5	1039.7	.7	3.0	1.5		
	3100	CRIM	26	FAL	1047.0	1250.0		10.0			
	200	GORK	8	S	1056.6	1056.9	1.7	790.0			
	810	KRAK	8	S	1207.3	1207.3	.2	15.0			
	536	ONDR	46	C	1228.0	1232.5	10.0	13.0	7.0		
	9400	HUAN	2	S/F	1232.4	1233.2	4.7	22.7	7.4		0
	9400	HUAN	20	GRF	1339.6	1400.9	33.0	4.0	1.7		0
	2800	OTTA	20	GRF	1350.0	1500.0	185.0	5.6	3.0		
	9400	HUAN	22	GRF	1714.9	1728.7	15.5	6.7	3.2		0
	9400	HUAN	20	GRF	1735.9	1741.6	17.6	5.3	1.3		0
	9400	HUAN	22	GRF	1800.2	1825.0	28.9	9.3	4.6		L
	9400	HUAN	28	PRE	1850.4	1934.6	44.2	12.0	4.5		0
	2800	OTTA	28	PRE	1920.0	1935.0	15.0	27.0	9.0		
	8800	PALE	49	GB	1934.1	1934.5	13.5	320.0			QL=6 ST=2 TYP=6
	1415	PALE	49	GB	1934.3	1936.5	13.3	73.0			QL=6 ST=2 TYP=6
	9400	HUAN	47	GB	1934.6	1956.2U	35.6	1137.9	611.6		L
	2800	OTTA	47	GB	1935.5	1955.0	94.5	2025.0	668.0		
	2695	PALE	49	GB	1936.0	1936.5	11.6	60.0			QL=6 ST=2 TYP=6
	4995	PALE	49	GB	1936.1	1936.5	11.5	60.0			QL=6 ST=2 TYP=6
	15400	SGMR	49	GB	1936.1	1940.5	14.7	219.0			QL=6 ST=2 TYP=6
	15400	PALE	47	GB	1936.3	1936.5	11.3	33.0			QL=6 ST=2 TYP=5
	410	SGMR	47	GB	1936.3	1938.5	14.5	40.0			QL=6 ST=2 TYP=5
	610	SGMR	47	GB	1936.3	1938.6	14.5	39.0			QL=6 ST=2 TYP=5
	245	SGMR	47	GB	1936.8	1939.8	14.0	59.0			QL=6 ST=2 TYP=5
	610	PALE	47	GB	1937.3	1940.1	10.3	35.0			QL=6 ST=2 TYP=5
	1415	SGMR	49	GB	1937.3E	1940.5	13.5D	330.0			QL=6 ST=2 TYP=6
	2695	SGMR	49	GB	1937.3E	1940.5	13.5D	390.0			QL=6 ST=2 TYP=6
	4995	SGMR	49	GB	1937.3E	1940.5	13.5D	440.0			QL=6 ST=2 TYP=6
	8800	SGMR	49	GB	1937.3E	1940.5	13.5D	390.0			QL=6 ST=2 TYP=6
	410	PALE	47	GB	1938.0	1938.8	1.3	64.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	1942.8	1943.6	4.8	119.0			QL=6 ST=2 TYP=5
	245	SGMR	47	GB	1950.8	1951.3	13.0	139.0			QL=6 ST=2 TYP=5
	4995	SGMR	49	GB	1950.8	1952.1	13.0	1600.0			QL=6 ST=2 TYP=6
	410	SGMR	4	S/F	1950.8	1952.8	13.0	42.0			QL=6 ST=2 TYP=3
	610	SGMR	47	GB	1950.8	1953.0	13.0	139.0			QL=6 ST=2 TYP=5
	15400	SGMR	49	GB	1950.8	1953.0	13.0	680.0			QL=6 ST=2 TYP=6
	1415	SGMR	49	GB	1950.8	1953.1	13.0	1100.0			QL=6 ST=2 TYP=6
	2695	SGMR	49	GB	1950.8	1953.1	13.0	1600.0			QL=6 ST=2 TYP=6
	8800	SGMR	49	GB	1950.8	1953.1	13.0	1199.0			QL=6 ST=2 TYP=6
	4995	SGMR	49	GB	2003.8	2004.0	17.5	1100.0			QL=6 ST=2 TYP=6
	15400	SGMR	47	GB	2003.8	2004.0	17.5	430.0			QL=6 ST=2 TYP=5
	2695	SGMR	49	GB	2003.8	2004.0	17.5	1199.0			QL=6 ST=2 TYP=6
	1415	SGMR	49	GB	2003.8	2004.0	17.5	1100.0			QL=6 ST=2 TYP=6
	610	SGMR	47	GB	2003.8	2004.0	17.5	119.0			QL=6 ST=2 TYP=5
	8800	SGMR	49	GB	2003.8	2004.0	17.5	820.0			QL=6 ST=2 TYP=6
	245	SGMR	47	GB	2003.8	2004.0	17.5	95.0			QL=6 ST=2 TYP=5
	410	SGMR	4	S/F	2003.8	2004.0	4.8	22.0			QL=6 ST=2 TYP=3
	9400	HUAN	30	PBI	2010.2	2010.2	77.3	145.4	22.3		L
	1415	SGMR	47	GB	2021.3	2021.3	45.8	330.0			QL=6 ST=2 TYP=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
01	15400	SGMR	47	GB	2021.3	2021.3	18.0	189.0			QL=6 ST=2 TYP=5
	4995	SGMR	47	GB	2021.3	2021.3	46.0	490.0			QL=6 ST=2 TYP=5
	8800	SGMR	47	GB	2021.3	2021.3	38.3	400.0			QL=6 ST=2 TYP=5
	2695	SGMR	49	GB	2021.3	2021.3	53.7	550.0			QL=6 ST=2 TYP=6
	610	SGMR	47	GB	2021.3	2021.6	32.0	54.0			QL=6 ST=2 TYP=5
	245	SGMR	4	S/F	2021.3	2022.6	10.2	46.0			QL=6 ST=2 TYP=3
	9400	HUAN	2	S/F	2055.9	2057.5	2.6	4.0	0.8		0
	9400	HUAN	2	S/F	2107.5	2109.3	3.3	5.3	4.2		L
	2800	OTTA	29	PBI	2110.0	2110.0	130.0D	50.0			
	9400	HUAN	2	S/F	2152.0	2152.7	2.4	16.0	5.5		0
	15400	PALE	8	S	2152.5	2152.6	.5	44.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	2152.6	2152.6	.2	21.0			QL=6 ST=2 TYP=3
	8800	PALE	47	GB	2307.3	2307.5	.5	210.0			QL=3 ST=2 TYP=5
	9400	TYKW	5	S	2322.3	2323.0U	1.5	4.0	1.5		
	4995	LEAR	8	S	2326.1	2326.5	.7	22.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	2326.1	2326.5	.5	25.0			QL=6 ST=2 TYP=3
	15400	LEAR	8	S	2326.3	2326.5	.5	45.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	2335.0	2335.3	2.0	6.0	1.5		
	245	LEAR	8	S	2342.5	2343.3	1.1	17.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	2342.5	2343.6	1.8	21.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	2349.0	2351.5	7.0	3.0	1.0		
02	208	VORO	44	NS	0000.0E		240.0D		25.0		
	204	IZMI	43	NS	0700.0		300.0	30.0			
	260	ONDR	44	NS	0938.0E		282.0D	34.0			
	245	SGMR	43	NS	1220.0	2031.3	554.0D	270.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1746.0	0124.3	619.0D	280.0			QL=6 ST=3 TYP=1
	410	PALE	43	NS	1746.0	2101.6	619.0D	210.0			QL=1 ST=3 TYP=1
	410	SGMR	43	NS	2048.0	2113.5	46.0D	42.0			QL=6 ST=2 TYP=1
	200	HIRA	44	NS	2136.0E	0451.0	620.0D	20.0	8.0		0
	245	LEAR	43	NS	2223.0	0119.0	749.0D	360.0			QL=6 ST=2 TYP=1
	410	LEAR	43	NS	2223.0	0410.6	749.0D	42.0			QL=6 ST=2 TYP=1
	9400	TYKW	5	S	0019.0	0019.3	1.0	4.0	1.5		
	3750	TYKW	21	GRF	0019.0	0050.0	200.0	5.0	2.5		
	2000	TYKW	20	GRF	0030.0	0050.0	120.0	3.0	1.5		
	9400	TYKW	21	GRF	0033.0	0101.0	200.0	8.0	4.0		
	9400	TYKW	5	S	0036.0	0036.4	2.0	3.0	1.0		
	410	PALE	8	S	0038.3	0038.5	.5	44.0			QL=6 ST=2 TYP=3
	3750	TYKW	21	GRF	0115.0	0141.0	70.0	3.0	1.5		
	3750	TYKW	5	S	0125.0	0126.0	7.0	1.5	0.5		
	8800	PALE	8	S	0130.3	0130.5	.3	27.0			QL=6 ST=2 TYP=3
	9400	TYKW	20	GRF	0133.0	0140.0	55.0	8.0	3.0		
	500	HIRA	24	R	0224.0	0247.0	216.0	15.0	7.0		0
	9400	TYKW	5	S	0232.0	0236.0	20.0	5.0	2.0		
	9400	TYKW	45	C	0258.0	0259.7	4.0	19.0	8.0		
	8800	LEAR	8	S	0258.8	0259.8	2.0	17.0			QL=6 ST=2 TYP=3
	17000	NOBE	1	S	0259.0	0259.8	1.7	46.0			L
	15400	LEAR	8	S	0259.5	0259.6	.5	46.0			QL=6 ST=2 TYP=3
	17000	NOBE	29	PBI	0300.7	0300.7	10.0	11.0			0
	9400	TYKW	29	PBI	0302.0		25.0	6.0	3.0		
	410	LEAR	8	S	0321.5	0321.6	.3	40.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0321.6	0321.8	.5	48.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0335.0	0335.5	1.5	3.0	1.0		
	9400	TYKW	5	S	0338.5	0338.8	1.5	5.0	1.5		
	2000	TYKW	21	GRF	0402.0	0425.0	150.0	1.5	0.7		
	2000	TYKW	5	S	0403.0	0408.0	12.0	1.0	0.5		
	9400	TYKW	5	S	0404.0	0407.5	10.0	3.0	1.5		
	3750	TYKW	5	S	0404.0	0407.5	12.0	2.0	1.0		
	9400	TYKW	21	GRF	0404.0	0423.0	140.0	4.0	2.0		
	3750	TYKW	21	GRF	0404.0	0430.0	150.0	4.0	2.0		
	3750	TYKW	21	GRF	0442.0	0500.0	70.0	6.0	3.0		
	3750	TYKW	45	C	0442.5	0444.0	4.5	24.0	8.0		
	4995	LEAR	4	S/F	0442.8	0443.6	2.3	20.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	0442.8	0444.0	10.0	39.0			QL=6 ST=3 TYP=3
	9400	TYKW	45	C	0443.0	0444.1	9.0	12.0	8.0		
	2840	PEKG	3	S	0443.0	0444.2	5.0	11.0	3.2		
	2000	TYKW	45	C	0443.0	0444.2	4.0	14.0	7.0		
	8800	LEAR	8	S	0443.1	0443.8	1.2	28.0			QL=6 ST=2 TYP=3
	1415	LEAR	4	S/F	0443.3	0444.6	3.8	11.0			QL=6 ST=2 TYP=3
	17000	NOBE	20	GRF	0443.4	0444.9	10.0	8.0			0
	15400	LEAR	8	S	0443.8	0444.6	2.0	23.0			QL=6 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
02	2000	TYKW	30	PBI	0447.0		95.0	4.0	2.0		
	3750	TYKW	29	PBI	0447.0		10.0	3.0	1.5		
	1000	TYKW	20	GRF	0450.0	0455.0	50.0	3.0	1.5		
	9400	TYKW	30	PBI	0452.0		50.0	8.0	4.0		
	9400	TYKW	21	GRF	0459.0	0514.0	35.0	4.0	2.0		
	9400	TYKW	5	S	0500.0	0503.0	9.0	3.0	1.0		
	2000	TYKW	5	S	0502.0	0505.5	20.0	2.5	1.0		
	3750	TYKW	45	C	0504.0	0505.3	7.0	7.0	2.5		
	3750	TYKW	29	PBI	0511.0		20.0	2.0	1.0		
	3750	TYKW	5	S	0543.0	0543.3	1.5	4.0	1.5		
	9400	TYKW	5	S	0543.0	0543.3	1.0	5.0	1.5		
	2000	TYKW	5	S	0543.0	0543.4	2.0	3.0	1.0		
	9400	TYKW	5	S	0548.5	0549.0	1.5	3.0	1.0		
	9400	TYKW	5	S	0555.0	0556.4	5.0	6.0	2.0		
	2950	GORK	23	GRF	0603.0E	0742.0	280.0D	7.5			
	9100	GORK	21	GRF	0603.0U	0811.1	316.0U	20.0			
	650	GORK	21	GRF	0630.0U	1151.0	330.0D	20.0	10.0		
	950	GORK	41	F	0948.2	0948.6	9.4	13.0			
	950	GORK			0948.2	0953.0		15.0			
	950	GORK			0948.2	0953.6		13.0			
	15000	KISV	40	F	0948.5	0949.3	2.0	15.0			
	9500	POTS	42	SER	0949.0	0949.4	18.0	28.0			
	8800	ATHN	8	S	0949.0	0949.1	1.5	35.0			QL=5 ST=2 TYP=3
	3000	IZMI	42	SER	0949.0	0949.2	10.0	14.0			
	650	GORK	41	F	0949.0	0953.2	10.2	13.5			
	650	GORK			0949.0	0956.6		27.0			
	3000	POTS	42	SER	0949.0	0957.8	16.0	19.0			
	650	GORK			0949.0	0958.9		23.0			
	11800	BERN	41	F	0949.1	0949.3	13.0	26.0			
	8400	BERN	41	F	0949.1	0949.3	13.0	40.0			
	2950	GORK	41	F	0949.1	0949.3	3.3	13.7			
	4995	ATHN	8	S	0949.1	0949.3	1.9	22.0			QL=5 ST=2 TYP=3
	9100	GORK	41	F	0949.1	0949.3	16.6	50.0			
	5200	BERN	41	F	0949.1	0949.3	13.0	42.0			
	6100	KISV	42	SER	0949.1	0949.4	10.0	37.0			
	6100	KISV			0949.1	0953.2		16.0			
	2950	GORK			0949.1	0953.3		9.1			
	9100	GORK			0949.1	0953.3		22.0			
	9100	GORK			0949.1	0956.8		18.0			
	6100	KISV			0949.1	0956.8		17.0			
	3100	BERN	41	F	0949.1	0957.7	13.0	30.0			
	6100	KISV			0949.1	0957.7		20.0			
	2950	GORK			0949.1	0957.7		13.7			
	9100	GORK			0949.1	1003.8		12.0			
	1470	POTS	42	SER	0950.0	0957.6	10.0	4.0			
	6100	KISV	1	S	1003.6	1003.8	1.0	3.0			
	33	UPIC	45	C	1046.6	1048.0	1.6				
	29	UPIC	45	C	1046.7	1048.0	1.8				
	410	SGMR	8	S	1359.1	1359.1	.4	27.0			QL=6 ST=2 TYP=3
	2800	OTTA	21	GRF	1540.0	1800.0	240.0	8.2	4.1		
	610	SGMR	49	GB	1645.3	1645.6	.8	740.0			QL=6 ST=2 TYP=6
	2800	OTTA	1	S	1645.7	1646.0	1.3	7.2	3.0		
	2800	OTTA	4	S/F	1652.5	1652.8	2.0	20.0	7.0		
	9400	HUAN	21	GRF	1724.2	1739.0	45.5	3.9	3.3		L
	9400	HUAN	1	S	1727.7	1728.2	2.1	15.7	3.9		0
	15400	SGMR	47	GB	1727.8	1728.1	1.0	74.0			QL=6 ST=2 TYP=5
	8800	SGMR	8	S	1728.0	1728.1	.3	18.0			QL=6 ST=2 TYP=3
	9400	HUAN	1	S	1742.6	1743.8	2.4	5.2	1.8		0
	9400	HUAN	1	S	1758.4	1759.8	2.5	3.9	1.8		L
	9400	HUAN	20	GRF	1817.1	1844.1	33.0	2.6	1.0		0
	9400	HUAN	2	S/F	1939.0	1941.7	5.1	6.6	2.2		0
	9400	HUAN	20	GRF	2101.8	2107.3	13.0	5.2	3.3		0
	3750	TYKW	20	GRF	2302.0	2313.0	35.0	2.0	1.0		
	9400	TYKW	5	S	2342.0	2342.9	2.0	19.0	8.0		
	15400	LEAR	47	GB	2342.1	2342.6	1.7	56.0			QL=6 ST=2 TYP=5
	8800	LEAR	8	S	2342.3	2342.8	.8	17.0			QL=6 ST=2 TYP=3
	17000	NOBE	1	S	2342.3	2342.8	4.0	62.0			L
	15400	PALE	8	S	2342.5	2342.6	.8	43.0			QL=6 ST=2 TYP=3
	9400	TYKW	29	PBI	2344.0		6.0	6.0	3.0		
	3750	TYKW	45	C	2351.0	2355.0	7.0	3.0	1.0		
	9400	TYKW	5	S	2352.0	2354.0	5.0	3.0	1.0		

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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
02	9400	TYKW	20	GRF	2358.0	0007.0U	35.0	4.0	2.0D		
	3750	TYKW	20	GRF	2359.0	0009.0	35.0	1.5	0.7		
03	208	VORO	44	NS	0000.0E		240.0D		13.0		
	200	GORK	44	NS	0601.0E		328.0D		5.0		
	260	ONDR	44	NS	0813.0E		387.0D	21.0			
	245	PALE	43	NS	1741.0	2143.8	614.0D	61.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1746.0	0124.3	618.0D	280.0			QL=6 ST=2 TYP=1
	410	PALE	43	NS	1746.0	2101.6	618.0D	210.0			QL=1 ST=2 TYP=1
	245	SGMR	44	NS	2051.5E	2054.3		25.0			QL=1 ST=3 TYP=1
	245	LEAR	43	NS	2223.0	0431.3	749.0D	22.0			QL=6 ST=2 TYP=1
	2000	TYKW	5	S	0053.5	0054.4	2.0	2.0	0.7		
	3750	TYKW	5	S	0054.0	0054.3	1.0	3.0	1.0		
	3750	TYKW	5	S	0100.0	0106.4	15.0	1.5	0.5		
	410	LEAR	8	S	0112.0	0112.3	1.3	18.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	0112.3	0112.8	.8	210.0			QL=6 ST=2 TYP=5
	3750	TYKW	20	GRF	0120.0	0140.0	80.0	3.0	1.5		
	500	HIRA	8	S	0200.7	0200.8	.1	100.0			0
	3750	TYKW	20	GRF	0249.0	0257.0	60.0	4.0	2.0		
	2000	TYKW	20	GRF	0250.0	0302.0	40.0	2.0	1.0		
	9400	TYKW	20	GRF	0252.0	0303.0	45.0	8.0	4.0		
	245	LEAR	47	GB	0316.0	0317.1	2.1	68.0			QL=6 ST=2 TYP=5
	9400	TYKW	21	GRF	0338.0	0345.0	70.0	6.0	3.0		
	610	LEAR	8	S	0354.8	0355.1	.5	34.0			QL=6 ST=2 TYP=3
	3750	TYKW	28	PRE	0402.0	0407.0	5.0	1.5	0.7		
	2000	TYKW	28	PRE	0403.0	0407.0	4.0	1.0	0.5		
	500	HIRA	27	RF	0406.2	0436.0	106.0	10.0	4.0		0
	4995	LEAR	47	GB	0406.8	0408.8	10.0	83.0			QL=6 ST=2 TYP=5
	3750	TYKW	45	C	0407.0	0408.8	8.0	83.0	18.0		
	9400	TYKW	45	C	0407.0	0408.8	7.0	55.0	11.0		
	2000	TYKW	45	C	0407.0	0408.9	8.0	34.0	10.0		
	1000	TYKW	45	C	0407.0	0408.9	7.0	12.0	5.0		
	2695	LEAR	47	GB	0407.0	0408.8	10.8	78.0			QL=2 ST=2 TYP=5
	1415	LEAR	47	GB	0407.0	0408.8	7.8	50.0			QL=6 ST=2 TYP=5
	15400	LEAR	4	S/F	0407.1	0408.8	3.0	43.0			QL=6 ST=2 TYP=3
	17000	NOBE	1	S	0407.3	0408.7	3.0	34.0			0
	2902	YUNN	4	S/F	0407.3	0409.8	15.9	92.0			
	500	HIRA	42	SER	0407.5	0408.4	4.0	500.0			0
	610	LEAR	47	GB	0407.8	0408.5	3.3	130.0			QL=6 ST=2 TYP=5
	8800	LEAR	47	GB	0408.1	0409.8	2.0	58.0			QL=6 ST=2 TYP=5
	1000	TYKW	30	PBI	0414.0		30.0	2.0	1.0		
	9400	TYKW	5	S	0414.0	0415.2	3.0	10.0	4.0		
	2000	TYKW	29	PBI	0415.0		20.0	2.0	1.0		
	3750	TYKW	29	PBI	0415.0		20.0	2.0	1.0		
	9400	TYKW	29	PBI	0417.0		15.0	4.0	2.0		
	1000	TYKW	45	C	0421.0	0422.3	2.0	6.0	1.5		
	3750	TYKW	21	GRF	0500.0	0528.0	160.0	5.0	2.5		
	9400	TYKW	21	GRF	0505.0	0526.0	50.0	6.0	3.0		
	2000	TYKW	21	GRF	0507.0	0550.0	150.0	2.0	1.0		
	9400	TYKW	5	S	0552.0	0552.4	2.0	4.0	1.5		
	9100	GORK	21	GRF	0554.8	0632.2	360.0	22.0			
	2000	TYKW	21	GRF	0555.0	0638.0	95.0	3.0	1.5		
	1000	TYKW	5	S	0556.0	0557.3	4.0	3.0	1.0		
	2000	TYKW	5	S	0556.0	0557.8	4.0	1.5	0.5		
	3750	TYKW	20	GRF	0556.0	0633.0	100.0	6.0	3.0		
	9400	TYKW	20	GRF	0557.0	0615.0	80.0	4.0	2.0U		INTERFERENCE
	8800	LEAR	20	GRF	0629.1	0634.3	44.9	13.0			QL=6 ST=2 TYP=2
	4995	LEAR	20	GRF	0629.3	0635.0	40.7	7.0			QL=6 ST=2 TYP=2
	610	LEAR	8	S	0630.5	0630.6	.1	28.0			QL=6 ST=2 TYP=3
	650	GORK	4	S/F	0644.5	0645.3U	1.1	9.5D	4.5		
	950	GORK	4	S/F	0644.6	0645.2	.9	39.0			
	3100	CRIM	26	FAL	0658.0	0920.0		7.0			
	650	GORK	20	GRF	0755.0U	0958.0	255.0D	6.0	3.0		
	6100	KISV	1	S	0804.4	0805.8	8.0	4.0			
	9100	GORK	1	S	0805.1	0805.8	4.1	7.0	3.0		
	9100	GORK	1	S	0851.9	0852.9	1.8	5.0	2.5		
	2950	GORK	1	S	1018.4	1018.6	1.8	4.6	2.0		
	430	KRAK	8	S	1018.5	1018.5	.2	180.0			
	810	KRAK	8	S	1018.5	1018.5	.2	8.0			
	808	ONDR	8	S	1019.0	1019.0	.5	9.0			
	6100	KISV	1	S	1019.2	1019.5	1.0	3.0			

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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
03	430	KRAK	8	S	1019.5	1019.5	.2	250.0			
	810	KRAK	8	S	1019.5	1019.5	.2	26.0			
	9100	GORK	2	S/F	1105.5	1107.6	3.4	10.0	5.0		
	6100	KISV	21	GRF	1110.0	1123.4	44.0	14.0			
	3100	CRIM	20	GRF	1120.0	1130.0	30.0	8.0	3.0		
	2950	GORK	1	S	1128.8	1129.7	2.9	4.5	1.5		
	430	KRAK	8	S	1155.7	1155.8	.4	270.0			
	808	ONDR	8	S	1158.0	1158.0	.5	21.0			
	1470	POTS	1	S	1158.5	1158.6	1.0	4.5			
	9400	HUAN	1	S	1228.1	1229.7	3.2	5.3	2.8		0
	9400	HUAN	1	S	1300.6	1302.9	5.5	6.6	2.7		L
	9400	HUAN	22	GRF	1342.8	1357.0	27.0	8.0	2.8		0
	9400	HUAN	21	GRF	1418.6	1423.8	22.4	6.6	2.4		0
	9400	HUAN	1	S	1432.7	1433.3	1.7	16.0	7.8		0
	8800	ATHN	8	S	1433.0	1433.5	1.1	23.0			QL=4 ST=2 TYP=3
	9500	POTS	3	S	1433.0	1433.5	2.0	16.0			
	8800	SGMR	8	S	1433.1	1433.3	.5	22.0			QL=6 ST=2 TYP=3
	15400	SGMR	8	S	1433.1	1433.3	.5	18.0			QL=6 ST=2 TYP=3
	245	SGMR	47	GB	1443.0	1443.1	.6	180.0			QL=6 ST=2 TYP=5
	9400	HUAN	4	S/F	1511.5	1517.0	11.9	20.0	6.0		0
	2800	OTTA	4	S/F	1516.0	1517.0	8.0	18.6	4.6		
	610	SGMR	47	GB	1521.6	1521.8	.4	74.0			QL=6 ST=2 TYP=5
	245	SGMR	47	GB	1546.3	1547.6	1.5	460.0			QL=1 ST=2 TYP=5
	9400	HUAN	1	S	1558.2	1559.1	2.9	4.0	1.8		L
	2800	OTTA	1	S	1657.9	1658.0	2.0	6.2	2.0		
	2800	OTTA	3	S	1959.0	2000.7	5.0	24.8	7.4		
	9400	HUAN	3	S	1959.3	2000.2	2.9	20.0	5.8		L
	2695	SGMR	47	GB	1959.6	2000.3	1.7	66.0			QL=6 ST=2 TYP=5
	4995	PALE	8	S	1959.8	2000.1	1.3	26.0			QL=6 ST=2 TYP=3
	4995	SGMR	8	S	1959.8	2000.1	1.3	29.0			QL=6 ST=2 TYP=3
	2695	PALE	8	S	2000.0	2000.5	1.1	22.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	2000.1	2000.1	.4	24.0			QL=6 ST=2 TYP=3
	8800	SGMR	8	S	2000.1	2000.1	.4	18.0			QL=6 ST=2 TYP=3
	9400	HUAN	1	S	2009.5	2011.9	3.7	5.3	1.9		0
	2695	PENT	3	S	2011.7	2012.0	2.0	10.8	5.0		
	9400	HUAN	22	GRF	2026.6	2041.0	32.2	8.0	1.7		0
	2800	OTTA	23	GRF	2034.0	2037.0	27.0	6.2	3.1		
	2800	OTTA	1	S	2040.0	2041.0	3.0	5.6	2.3		
	610	LEAR	4	S/F	2257.0	2300.8	4.6	7.0			QL=6 ST=2 TYP=3
	410	LEAR	4	S/F	2257.6	2300.8	6.0	6.0			QL=6 ST=2 TYP=3
	1415	LEAR	4	S/F	2258.8	2301.0	2.8	10.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	2259.6	2301.0	2.2	15.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	2259.6	2303.1	4.2	38.0			QL=5 ST=2 TYP=3
	8800	LEAR	4	S/F	2259.8	2301.5	2.2	23.0			QL=6 ST=2 TYP=3
	15400	LEAR	4	S/F	2300.0	2301.1	2.5	42.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	2344.3	2344.5	.3	10.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	2344.3	2344.5	.3	8.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	2353.6	2353.8	.2	11.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	2354.3	2355.1	1.5	15.0			QL=6 ST=2 TYP=3
04	208	VORO	44	NS	0000.0E		240.0D		10.0		
	245	SGMR	43	NS	1249.5	1907.1	527.5D	35.0			QL=5 ST=3 TYP=1
	245	LEAR	8	S	0017.8	0018.6	1.8	20.0			QL=6 ST=2 TYP=3
	610	LEAR	4	S/F	0020.8	0024.0	5.8	48.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0021.3	0021.6	.5	11.0			QL=6 ST=2 TYP=3
	1415	LEAR	4	S/F	0021.8	0024.1	5.3	4.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0022.5	0024.1	1.6	34.0			QL=6 ST=2 TYP=3
	4995	LEAR	8	S	0023.1	0024.0	1.9	9.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0023.7	0024.3	1.3	4.0	1.5		
	2000	TYKW	5	S	0023.7	0024.3	1.5	2.5	1.0		
	3750	TYKW	5	S	0023.7	0024.3	2.5	9.0	2.5		
	2695	LEAR	8	S	0023.8	0024.1	1.5	8.0			QL=5 ST=2 TYP=3
	8800	LEAR	8	S	0023.8	0025.3	2.0	10.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0027.8	0028.8	2.0	13.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	0027.8	0031.8	11.0	5.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0028.3	0028.5	.3	13.0			QL=6 ST=2 TYP=3
	4995	LEAR	20	GRF	0028.5	0032.0	10.3	4.0			QL=6 ST=2 TYP=2
	1415	LEAR	20	GRF	0029.1	0032.0	8.7	4.0			QL=6 ST=2 TYP=2
	245	LEAR	4	S/F	0029.3	0030.8	3.5	23.0			QL=6 ST=2 TYP=3
	410	LEAR	4	S/F	0030.0	0030.8	2.8	3.0			QL=6 ST=2 TYP=3
	610	LEAR	4	S/F	0030.1	0032.1	7.4	13.0			QL=6 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
04	1000	TYKW	45	C	0032.0	0032.4	1.0	10.0	3.0		
	245	LEAR	8	S	0046.8	0046.8	.2	17.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0059.0	0059.1	.1	15.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0101.1	0101.3	.4	15.0			QL=6 ST=2 TYP=3
	208	VORO	6	S	0102.0	0103.0	2.0	58.0			
	100	HIRA	46	C	0102.0	0102.8	1.7	110.0	24.0		
	200	HIRA	46	C	0102.3	0103.0	1.3	73.0	41.0		WR
	245	LEAR	8	S	0102.8	0103.1	1.0	43.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0112.8	0113.5	1.8	17.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0116.8	0117.1	.7	13.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0128.8	0130.1	1.7	17.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0131.5	0131.6	.1	19.0			QL=6 ST=2 TYP=3
	100	HIRA	42	SER	0142.6	0144.3	2.0	120.0			
	200	HIRA	42	SER	0143.0	0144.0	2.0	75.0			0
	245	LEAR	8	S	0143.5	0144.6	1.8	32.0			QL=6 ST=2 TYP=3
	17000	NOBE	1	S	0206.5	0207.6	4.0	10.0			L
	15400	LEAR	4	S/F	0206.5	0207.8	8.1	16.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0207.0	0207.7	3.0	3.0	1.0		
	245	LEAR	4	S/F	0210.8	0216.0	6.7	28.0			QL=6 ST=2 TYP=3
	3750	TYKW	20	GRF	0234.0	0250.0	70.0	1.5	0.7		
	245	LEAR	8	S	0255.3	0255.8	.8	11.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0312.3	0312.3	.2	22.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0414.0	0414.4	2.0	2.0	0.7		
	2000	TYKW	5	S	0447.0	0447.3	1.0	1.0	0.3		
	3750	TYKW	5	S	0447.0	0447.3	1.0	1.0	0.3		
	2902	YUNN	2	S/F	0550.0	0606.8	26.0	50.0			
	15000	KISV	20	GRF	0553.0	0606.5	22.0	9.0			
	9400	TYKW	5	S	0554.0	0555.5	4.0	6.0	3.0		
	3750	TYKW	45	C	0554.0	0555.5	4.0	8.0	2.0		
	4995	LEAR	4	S/F	0554.1	0555.3	5.0	11.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	0554.3	0555.3	4.8	15.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	0554.6	0555.5	2.5	10.0			QL=2 ST=2 TYP=3
	500	HIRA	8	S	0554.8	0555.3	.5	80.0			0
	1000	TYKW	5	S	0555.0	0555.3	2.0	2.0	0.5		
	2000	TYKW	45	C	0555.0	0555.5	3.0	3.0	1.5		
	1415	LEAR	8	S	0555.0	0555.6	1.1	5.0			QL=6 ST=2 TYP=3
	610	LEAR	47	GB	0555.1	0555.3	1.2	150.0			QL=6 ST=2 TYP=5
	3750	TYKW	30	PBI	0558.0		20.0	2.0	1.0		
	2000	TYKW	30	PBI	0558.0		20.0	1.0	0.5		
	9400	TYKW	30	PBI	0558.0		15.0	3.0	1.5		
	8800	LEAR	4	S/F	0600.1	0606.3	8.9	25.0			QL=6 ST=2 TYP=3
	2840	PEKG	3	S	0603.0	0606.5	7.0	22.4	9.6		
	500	HIRA	6	S	0604.6	0605.1	1.0	60.0	20.0		0
	410	LEAR	8	S	0604.8	0605.1	.5	15.0			QL=6 ST=2 TYP=3
	6100	KISV			0604.8	0605.6		22.0			
	6100	KISV	45	C	0604.8	0606.3	2.5	33.0			
	4995	LEAR	4	S/F	0604.8	0606.3	7.2	34.0			QL=6 ST=2 TYP=3
	610	LEAR	47	GB	0604.8	0606.3	2.0	90.0			QL=6 ST=2 TYP=5
	2695	LEAR	4	S/F	0604.8	0606.6	7.0	36.0			QL=6 ST=2 TYP=3
	1415	LEAR	4	S/F	0604.8	0606.6	5.0	13.0			QL=6 ST=2 TYP=3
	3750	TYKW	45	C	0605.0	0606.5	7.0	31.0	8.0		
	1000	TYKW	45	C	0605.0	0606.7	5.0	5.0	1.5		
	9100	GORK	3	S	0605.0	0606.2	2.7	16.8	8.0		
	2950	GORK	3	S	0605.0	0606.6	3.9	22.4	10.0		
	650	GORK	4	S/F	0606.1	0606.4	.8	20.0	5.5		
	9400	TYKW	5	S	0607.0E	0607.0U	3.0D	7.0	2.0D		
	500	HIRA	8	S	0607.0	0607.0	.3	19.0	8.0		0
	6100	KISV	29	PBI	0607.3	0607.5	10.0	8.0			
	2000	TYKW	5	S	0608.0E	0608.0U	5.0D	5.0	1.5D		
	430	KRAK	8	S	0853.3	0853.3	.2	9.0			
	430	KRAK	8	S	0918.5	0918.5	.4	130.0			
	8400	BERN	46	C	0955.5	0956.0	15.0U	52.0			
	11800	BERN	46	C	0955.5	0956.0	15.0U	63.0			
	9100	GORK	45	C	0955.6	0956.0	1.5	57.0			
	9100	GORK			0955.6	0956.7		42.0			
	6100	KISV	45	C	0955.7	0956.0	1.0	10.0			
	6100	KISV			0955.7	0956.7		8.0			
	410	LEAR	8	S	0955.8	0955.8	.2	16.0			QL=6 ST=2 TYP=3
	15400	LEAR	8	S	0955.8	0956.0	1.2	28.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	0955.8	0956.0	2.5	48.0			QL=6 ST=2 TYP=3
	15000	KISV	45	C	0955.8	0956.1	3.0	42.0			

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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
04	8800	ATHN	4	S/F	0955.8	0956.1	2.3	42.0			QL=6 ST=2 TYP=3
	9500	POTS	4	S/F	0955.8	0956.1	1.5	47.0			
	15000	KISV			0955.8	0956.7		28.0			
	6100	KISV	29	PBI	0956.7	0956.9	16.0	7.0			
	9100	GORK	29	PBI	0957.1	0957.2	12.6	13.0	5.0		
	430	KRAK	40	F	1028.3	1042.4	18.0	10.0			
	29	UPIC	45	C	1036.0	1036.7U	2.9				
	33	UPIC	45	C	1036.0	1036.8	2.6				
	430	KRAK	2	S/F	1050.4	1050.5	1.5	7.0	2.0		
	430	KRAK	42	SER	1108.5	1110.5	32.0	9.0			
	430	KRAK			1108.5	1130.6		10.0			
	33	UPIC	45	C	1204.4	1204.5	.9				
	29	UPIC	45	C	1204.5	1204.8	1.7				
	430	KRAK	45	C	1245.5	1249.5	7.0	48.0	10.0		
	430	KRAK	45	C	1303.0	1306.0	6.0	30.0	7.0		
	430	KRAK	45	C	1325.0	1327.5	5.5	70.0	14.0		
	2800	OTTA	240	R	1430.0	1440.0	10.0	2.6	1.3		
	9400	HUAN	23	GRF	1446.4	1454.1	13.9	2.6	1.3		0
	2800	OTTA	22	GRF	1655.0	1730.0	50.0	1.6	0.8		
	9400	HUAN	3	S	1758.3	1759.7	3.0	45.6	18.7		L
	2800	OTTA	3	S	1759.0	1800.5	5.0	21.0	7.0		
	4995	SGMR	8	S	1759.1	1759.6	2.0D	37.0			QL=1 ST=2 TYP=3
	8800	SGMR	47	GB	1759.1	1759.6	3.0D	53.0			QL=1 ST=2 TYP=5
	2695	SGMR	8	S	1759.6	1800.6	1.2D	32.0			QL=1 ST=2 TYP=3
	9400	HUAN	29	PBI	1801.3	1801.3	25.2	6.5	3.5		L
	2800	OTTA	29	PBI	1804.0	1804.0	50.0	2.6	1.3		
	2800	OTTA	1	S	2116.0	2117.0	3.0	2.6	1.5		
	610	PALE	8	S	2117.8	2118.1	.3	15.0			QL=6 ST=2 TYP=3
	9400	HUAN	3	S	2144.2	2145.8	4.1	196.6	46.2		L
	8800	PALE	47	GB	2145.6	2146.0	2.5	219.0			QL=6 ST=2 TYP=5
	15400	PALE	47	GB	2145.6	2146.0	1.7	260.0			QL=6 ST=2 TYP=5
	4995	PALE	8	S	2145.8	2146.0	.8	46.0			QL=6 ST=2 TYP=3
	9400	HUAN	29	PBI	2148.3	2148.3	25.7	19.5	11.3		L
	410	LEAR	8	S	2226.0	2226.1	.5	26.0			QL=6 ST=2 TYP=3
05	245	LEAR	43	NS	0507.0	0637.5	345.0D	20.0			QL=6 ST=2 TYP=1
	127	TORN	43	NS	1030.0		230.0				V=1
	245	LEAR	43	NS	2225.0	0017.0	746.0D	16.0			QL=1 ST=2 TYP=1
	3750	TYKW	21	GRF	0005.0	0030.0	50.0	2.0	1.0		
	9400	TYKW	45	C	0012.0	0012.7	4.0	21.0	5.0		
	3750	TYKW	5	S	0012.0	0012.7	2.0	8.0	3.0		
	4995	LEAR	8	S	0012.0	0012.6	1.8	13.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	0012.0	0012.6	3.1	21.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	0012.3	0012.6	1.0	27.0			QL=6 ST=2 TYP=3
	3750	TYKW	29	PBI	0014.0		5.0	1.5	0.7		
	500	HIRA	8	S	0017.6	0017.6	.1	70.0			WR
	3750	TYKW	20	GRF	0106.0	0135.0	70.0	2.0	1.0		
	500	HIRA	8	S	0125.3	0125.3	.6	8.0	3.0		WR
	245	LEAR	49	GB	0125.6	0125.6	.5	680.0			QL=6 ST=2 TYP=6
	245	PALE	49	GB	0125.6	0125.6	.5	820.0			QL=6 ST=3 TYP=6
	610	LEAR	8	S	0125.6	0125.6	.7	20.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0125.6	0125.6	.5	18.0			QL=6 ST=2 TYP=3
	410	PALE	8	S	0125.6	0125.6	.4	36.0			QL=6 ST=3 TYP=3
	245	LEAR	8	S	0209.8	0210.0	.3	11.0			QL=1 ST=2 TYP=3
	9400	TYKW	5	S	0240.0	0241.5	3.0	5.0	1.5		
	245	PALE	47	GB	0240.3	0240.5	.8	94.0			QL=6 ST=2 TYP=5
	610	LEAR	8	S	0240.5	0240.8	.6	6.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	0240.6	0240.8	.5	91.0			QL=6 ST=2 TYP=5
	9400	TYKW	5	S	0414.0	0414.4	1.0	3.0	1.0		
	3750	TYKW	5	S	0423.0	0424.3	5.0	1.5	0.5		
	2000	TYKW	5	S	0423.0	0424.3	3.0	2.0	0.7		
	2000	TYKW	5	S	0441.0	0443.0	4.0	1.0	0.3		
	245	LEAR	47	GB	0442.0	0442.1	.3	77.0			QL=6 ST=2 TYP=5
	500	HIRA	45	C	0442.4	0442.4	1.4	20.0	3.0		0
	410	LEAR	8	S	0442.8	0442.8	.3	21.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0526.4	0526.7	1.0	3.0	1.0		
	245	LEAR	8	S	1032.0	1032.1	.3	25.0			QL=6 ST=2 TYP=3
	430	KRAK	8	S	1053.7	1054.2	.8	13.0			
	29	UPIC	2	S/F	1105.4	1105.7	.7				
	33	UPIC	2	S/F	1105.5	1106.0	1.5				
	204	IZMI	41	F	1130.0	1132.3	5.0	100.0			

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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
05	9400	HUAN	1	S	1634.9	1636.6	3.8	5.4	2.5		0
	2800	OTTA	4	S/F	1635.0	1636.5	3.0	31.0	10.4		
	2695	SGMR	4	S/F	1635.1	1636.6	2.7	36.0			QL=6 ST=2 TYP=3
	1415	SGMR	4	S/F	1635.5	1636.8	2.6	27.0			QL=6 ST=2 TYP=3
	4995	SGMR	8	S	1636.1	1636.3	.7	21.0			QL=6 ST=2 TYP=3
	245	SGMR	47	GB	1640.3	1640.6	1.5	130.0			QL=6 ST=2 TYP=5
	245	PALE	8	S	2156.6	2156.6	.2	18.0			QL=6 ST=3 TYP=3
	3750	TYKW	5	S	2243.0	2243.3	3.0	4.0	1.5		
06	208	VORO	44	NS	0000.0E		240.0D		10.0		
	200	HIRA	43	NS	0100.0	0415.0	420.0D	5.0	3.0		WR
	127	TORN	43	NS	0932.0	1302.0	328.0	20.0			V=1
	245	SGMR	43	NS	1741.0	2103.8	237.0D	92.0			QL=6 ST=2 TYP=1
	200	HIRA	44	NS	2135.0E	0015.0	215.0D	25.0	7.0		MR
	245	LEAR	43	NS	2225.0	0000.1	217.0	250.0			QL=6 ST=2 TYP=1
	410	LEAR	8	S	0033.1	0033.1	.2	11.0			QL=1 ST=2 TYP=3
	245	LEAR	8	S	0033.1	0033.1	.2	10.0			QL=1 ST=2 TYP=3
	3750	TYKW	5	S	0042.0	0048.0	20.0	1.0	0.5		
	245	LEAR	47	GB	0126.3E	0126.8	1.0D	81.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	0126.6	0126.8	.5	79.0			QL=6 ST=2 TYP=5
	3750	TYKW	21	GRF	0529.0	0550.0	110.0	2.0	1.0		
	2000	TYKW	21	GRF	0529.0	0550.0	80.0	1.5	0.7		
	2000	TYKW	5	S	0530.0	0530.3	1.0	6.0	1.5		
	3750	TYKW	45	C	0530.0	0531.8	5.0	2.0	0.5		
	9400	HUAN	2	S/F	1354.5	1355.1	2.7	5.4	2.2		0
	9400	HUAN	20	GRF	1427.8	1436.0	19.8	4.0	1.9		0
	9400	HUAN	20	GRF	1556.6	1616.3	33.0	3.4	1.2		0
	2800	OTTA	20	GRF	1910.0	2105.0	170.0	3.2	1.6		
	3750	TYKW	21	GRF	2323.0	2340.0	110.0	4.0	2.0		
	2000	TYKW	21	GRF	2323.0	2345.0	110.0	2.0	1.0		
	3750	TYKW	5	S	2324.0	2327.0	10.0	5.0	1.5		
	9400	TYKW	21	GRF	2325.0	2344.0	90.0	8.0	4.0		RAIN
	2000	TYKW	5	S	2326.0	2327.1	3.0	4.0	1.5		
	9400	TYKW	5	S	2326.5	2326.8	1.5	9.0	1.5		
	8800	PALE	8	S	2327.0	2327.1	.3	13.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	2359.8		.5	290.0			QL=6 ST=2 TYP=5
07	208	VORO	44	NS	0000.0E		120.0D		11.0		
	100	HIRA	43	NS	0140.0	0428.0	390.0D	35.0	10.0		
	100	GORK	44	NS	0830.0E		90.0D		10.0		
	245	PALE	43	NS	1740.0	0000.8	616.0D	169.0			QL=6 ST=2 TYP=1
	200	HIRA	44	NS	2134.0E	2347.0	630.0D	20.0	7.0		WR
	245	LEAR	43	NS	2230.0	0130.1	740.0D	130.0			QL=6 ST=2 TYP=1
	9400	TYKW	45	C	0000.0	0002.2	3.0	6.0	3.0		
	9400	TYKW	29	PBI	0003.0		10.0	3.0	1.5		
	3750	TYKW	21	GRF	0018.0	0030.0	55.0	3.0	1.5		
	3750	TYKW	5	S	0019.0	0020.3	5.0	1.5	0.5		
	9400	TYKW	21	GRF	0019.0	0028.0	30.0	2.0	1.0		
	1000	TYKW	5	S	0019.5	0019.7	0.5	3.0	1.0		
	2000	TYKW	5	S	0019.5	0019.8	1.0	1.5	0.5		
	9400	TYKW	5	S	0019.5	0020.3	1.5	5.0	1.5		
	500	HIRA	8	S	0114.7	0114.9	.6	13.0			0
	3750	TYKW	5	S	0222.0	0230.0	20.0	2.0	1.0		
	245	LEAR	4	S/F	0226.8	0229.8	3.5	35.0			QL=6 ST=2 TYP=3
	100	HIRA	42	SER	0227.0	0229.8	3.0	74.0			
	200	HIRA	42	SER	0227.3	0229.3	2.8	115.0			WR
	3750	TYKW	20	GRF	0440.0	0530.0	140.0	4.0	2.0		
	200	HIRA	42	SER	0441.3	0441.6	2.1	130.0			WR
	245	LEAR	8	S	0441.8	0442.0	.3	29.0			QL=6 ST=2 TYP=3
	2000	TYKW	20	GRF	0503.0	0543.0	105.0	3.0	1.5		
	6100	KISV	22	GRF	0602.0	0616.0	102.0	4.0			
	200	HIRA	41	F	0627.0	0629.3	2.6	120.0			0
	100	HIRA	46	C	0628.8	0629.3	1.0	62.0	27.0		
	200	HIRA	41	F	0655.1	0655.7	1.3	294.0			0
	100	HIRA	41	F	0655.3	0656.3	1.1	53.0			
	245	LEAR	8	S	0655.6	0656.1	1.2	45.0			QL=6 ST=2 TYP=3
	2950	GORK	20	GRF	0718.7	0900.0	160.0	4.4	2.0		
	6100	KISV	20	GRF	0847.0	0857.0	49.0	5.0			
	3100	CRIM	20	GRF	0915.0	0920.0	32.0	4.0	1.0		
	204	IZMI	41	F	1015.3	1015.5	.5	120.0			
	6100	KISV	21	GRF	1024.6	1031.0	68.0	10.0			

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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
07	3100	CRIM	20	GRF	1025.0	1030.0	40.0	6.0	2.0		
	9100	GORK	20	GRF	1025.4	1033.5	54.0	8.0			
	2950	GORK	20	GRF	1025.7	1033.0	47.0	4.5	2.0		
	100	GORK	8	S	1051.5	1051.8	.7	490.0			
	113	POTS	4	S/F	1051.7	1051.7	.2	140.0	35.0		III
	204	IZMI	5	S	1100.5	1100.8	.3	70.0	35.0		
	113	POTS	8	S	1208.3	1208.4	.1	100.0	35.0		III
	9400	HUAN	20	GRF	1415.2	1422.0	27.8	6.8	2.2		0
	2800	OTTA	240	R	1427.0	1443.0	16.0	1.8	0.9		
	245	SGMR	47	GB	1454.3	1454.6	.7	94.0			QL=6 ST=3 TYP=5
	2800	OTTA	20	GRF	1507.0	1510.0	20.0	1.2	0.8		
	2800	OTTA	20	GRF	1600.0	1610.0	55.0	1.6	1.0		
	2800	OTTA	20	GRF	1845.0	1925.0	135.0	4.8	2.4		
	2695	PENT	4	S/F	2228.0	2234.5	11.0	14.2	5.4		
	3750	TYKW	45	C	2229.0	2234.2	9.0	11.0	5.0		
	9400	TYKW	5	S	2230.0	2234.0	15.0	10.0	3.0		RAIN
	2000	TYKW	45	C	2232.0U	2234.6	8.0U	6.0	2.0U		
	500	HIRA	45	C	2232.2	2234.3	5.0	8.0	4.0		WL
	3750	TYKW	29	PBI	2238.0		15.0	2.0	1.0		
08	208	VORO	44	NS	0000.0E		300.0D		14.0		
	200	GORK	44	NS	0531.0E		389.0D		5.0		
	204	IZMI	43	NS	0700.0		300.0	60.0			
	127	TORN	43	NS	0725.0	1102.8	455.0	340.0	24.0		V=1
	430	KRAK	43	NS	0947.0	1040.4	250.0D	16.0			
	245	SGMR	44	NS	1213.0E	1413.3		150.0			QL=6 ST=3 TYP=1
	410	SGMR	43	NS	1723.1	1844.1	258.9D	19.0			QL=6 ST=2 TYP=1
	410	PALE	43	NS	1744.0	1913.1	614.0D	56.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1744.0	2042.3	614.0D	930.0			QL=6 ST=2 TYP=1
	100	HIRA	44	NS	2134.0E	0140.0	630.0D	25.0	8.0		
	200	HIRA	44	NS	2134.0E	0219.0	630.0D	25.0	10.0		WL
	245	LEAR	43	NS	2226.0	0534.8	744.0D	270.0			QL=6 ST=2 TYP=1
	410	LEAR	43	NS	2226.0	0913.8	744.0D	29.0			QL=6 ST=2 TYP=1
	9400	TYKW	21	GRF	0040.0	0100.0	100.0	8.0	4.0		RAIN
	410	LEAR	4	S/F	0050.5	0053.1	7.5	19.0			QL=6 ST=2 TYP=3
	17000	NOBE	20	GRF	0124.2	0126.8	15.0	6.0			0
	2000	TYKW	45	C	0125.0	0125.6	3.0	12.0	6.0		
	9400	TYKW	45	C	0125.0	0126.0	9.0	16.0	7.0		
	1000	TYKW	5	S	0125.0	0126.0	3.0	5.0	2.0		
	3750	TYKW	45	C	0125.0	0126.0	3.0	38.0	7.0		
	2840	PEKG	1	S	0125.0	0126.2	4.0	9.9	3.4		
	2695	LEAR	4	S/F	0125.0	0125.8	3.0	19.0			QL=6 ST=2 TYP=3
	1415	LEAR	4	S/F	0125.0	0126.0	2.6	10.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	0125.0	0126.0	6.0	11.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	0125.0	0126.6	7.0	19.0			QL=6 ST=2 TYP=3
	410	LEAR	4	S/F	0125.8	0134.0	14.2	19.0			QL=6 ST=2 TYP=3
	3750	TYKW	29	PBI	0128.0		30.0	3.0	1.5		
	2000	TYKW	29	PBI	0128.0		55.0	2.0	1.0		
	9400	TYKW	29	PBI	0134.0		20.0	4.0	2.0		
	9400	TYKW	5	S	0210.0	0212.3	8.0	4.0	1.5		
	200	HIRA	42	SER	0608.0	0613.8	26.0	580.0			MR
	2950	GORK	20	GRF	0624.4	0749.0	300.0D	7.5			
	6100	KISV	25	R	0733.0	0751.0	18.0	12.0			
	3100	CRIM	24	R	0733.0	0900.0		6.0			
	9100	GORK	20	GRF	0737.0	0756.4	54.0	10.0			
	430	KRAK	42	SER	0834.5	0840.7	47.0	30.0			
	430	KRAK			0834.5	0853.4		23.0			
	610	LEAR	8	S	0841.3	0841.5	.3	11.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0841.3	0841.6	.3	30.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	0841.3	0842.8	1.5	119.0			QL=6 ST=2 TYP=5
	204	IZMI	5	S	0841.4	0841.5	.2	330.0	160.0		
	113	POTS	41	F	0841.5	0841.5	1.4	100.0	3.0		III
	234	POTS	41	F	0841.5	0841.5	1.4	370.0	2.0		III
	33	UPIC	42	SER	0846.8		310.7				
	29	UPIC	42	SER	0846.9	0847.0	310.3				
	204	IZMI	5	S	0858.4	0858.5	.7	300.0	160.0		
	6100	KISV	1	S	0859.2	0903.6	16.0	4.0			
	430	KRAK	8	S	1015.2	1015.2	.8	35.0			
	430	KRAK	8	S	1030.0	1030.5	.8	24.0			
	430	KRAK	4	S/F	1053.3	1054.4	3.2	18.0	8.0		
	234	POTS	4	S/F	1126.3	1126.4	.4	200.0	7.0		

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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
08	6100	KISV	21	GRF	1130.0	1135.6	205.0	4.0			
	2800	OTTA	45	C	1418.5	1420.0	3.0	2.4	1.0		
	1415	SGMR	8	S	1419.6	1419.8	.9	25.0			QL=6 ST=2 TYP=3
	610	SGMR	47	GB	1419.6	1420.0	.9	200.0			QL=6 ST=2 TYP=5
	410	SGMR	8	S	1419.6	1420.1	1.0	48.0			QL=6 ST=2 TYP=3
	8800	SGMR	8	S	1419.8	1420.0	.5	15.0			QL=6 ST=2 TYP=3
	2800	OTTA	240	R	1445.0	1515.0	30.0	2.4	1.2		
	9400	HUAN	20	GRF	1509.2	1515.6	31.6	4.1	3.1		0
	2800	OTTA	240	R	1600.0	1640.0	40.0	3.0	1.5		
	9400	HUAN	20	GRF	1836.7	1848.6	26.5	4.8	1.8		0
	2800	OTTA	20	GRF	1950.0	2015.0	85.0	5.0	2.4		
	9400	HUAN	20	GRF	1950.7	2033.8	90.1	6.8	4.7		0
	2800	OTTA	260	FAL	2120.0	2135.0	15.0	-2.2	-1.1		
	100	HIRA	46	C	2218.0	2218.2	1.7	520.0	210.0		
09	208	VORO	44	NS	0000.0E		300.0D		15.0		
	200	GORK	44	NS	0550.0E		372.0D		15.0		
	100	GORK	44	NS	0630.0E		350.0D		5.0		
	204	IZMI	44	NS	0700.0E		300.0D	60.0			
	430	KRAK	43	NS	0839.7		225.0	16.0			
	127	TORN	43	NS	0910.0	1056.0	350.0	270.0	10.0		V=2
	245	SGMR	43	NS	1212.0	1931.3		1500.0			QL=6 ST=3 TYP=1
	410	SGMR	43	NS	1401.6	1748.6	462.4D	45.0			QL=6 ST=2 TYP=1
	410	PALE	43	NS	1740.0	1748.3	615.0D	44.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1740.0	1840.3	615.0D	300.0			QL=6 ST=2 TYP=1
	100	HIRA	44	NS	2132.0E	0138.0	630.0D	45.0	15.0		
	245	LEAR	43	NS	2227.0	0834.8	742.0D	219.0			QL=5 ST=2 TYP=1
	3750	TYKW	21	GRF	0045.0	0108.0	85.0	5.0	2.5		
	3750	TYKW	5	S	0049.0	0054.0	12.0	2.0	1.0		
	9400	TYKW	20	GRF	0050.0	0108.0	85.0	10.0	5.0		
	2000	TYKW	20	GRF	0100.0	0108.0	60.0	2.0	1.0		
	100	HIRA	41	F	0217.0	0217.5	2.6	110.0			
	200	HIRA	42	SER	0232.5	0237.8	18.7	470.0			ML
	100	HIRA	42	SER	0318.3	0318.9	1.7	85.0			
	200	HIRA	46	C	0318.7	0319.1	1.0	105.0	56.0		WR
	100	HIRA	41	F	0328.0	0329.1	2.1	155.0			
	100	HIRA	42	SER	0342.0	0344.8	4.0	570.0			
	200	HIRA	42	SER	0342.3	0345.1	5.3	260.0			WR
	3750	TYKW	5	S	0411.0	0413.0	6.0	1.5	0.5		
	200	HIRA	42	SER	0447.9	0448.1	4.3	67.0			MR
	2000	TYKW	21	GRF	0530.0	0546.0	120.0	2.0	1.0		
	3750	TYKW	5	S	0543.0	0545.0	9.0	2.0	0.7		
	9100	GORK	21	GRF	0554.0E	0616.6	114.0D	16.0	8.5		
	2000	TYKW	5	S	0555.0	0555.3	0.7	4.0	1.0		
	2840	PEKG	1	S	0555.0	0556.6	3.0	5.2	2.3		
	3750	TYKW	5	S	0555.0	0556.7	3.0	12.0	3.0		
	4995	ATHN	8	S	0555.8	0556.5	1.2	13.0			QL=6 ST=2 TYP=3
	8800	ATHN	8	S	0555.8	0556.5	1.2	22.0			QL=6 ST=2 TYP=3
	2695	LEAR	8	S	0555.8	0557.3	1.5	10.0			QL=6 ST=2 TYP=3
	9400	TYKW	45	C	0556.0	0556.7	3.0	13.0	3.0		
	2000	TYKW	5	S	0556.0	0556.7	2.0	3.0	1.0		
	100	HIRA	46	C	0556.0	0556.3	1.0	2500.0	840.0		
	245	LEAR	47	GB	0556.1E	0556.6	.7D	83.0			QL=6 ST=2 TYP=5
	4995	LEAR	8	S	0556.5	0556.6	.3	17.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0556.5	0556.6	.3	18.0			QL=6 ST=2 TYP=3
	3750	TYKW	29	PBI	0558.0		10.0	1.5	0.7		
	650	GORK	21	GRF	0607.4U	0710.8	99.5U	3.0	1.5		
	2950	GORK	21	GRF	0608.3	1151.5	343.2D	12.0	6.0		
	100	HIRA			0610.7	0611.6		2800.0			
	100	HIRA	42	SER	0610.7	0614.7	6.7	5300.0			
	2000	TYKW	5	S	0611.5	0612.1	2.0	2.0	0.7		
	9400	TYKW	5	S	0611.6	0612.0	2.0	6.0	2.0		
	15000	KISV	1	S	0611.6	0615.4	7.0	19.0			
	3750	TYKW	5	S	0611.7	0612.1	2.0	8.0	2.5		
	9100	GORK	1	S	0611.8	0612.0	.6	8.0	4.0		
	6100	KISV			0611.8	0612.1		10.0			
	2695	LEAR	8	S	0611.8	0612.1	.8	8.0			QL=6 ST=3 TYP=3
	4995	LEAR	8	S	0611.8	0612.1	1.0	10.0			QL=6 ST=3 TYP=3
	8800	LEAR	8	S	0611.8	0612.1	.7	9.0			QL=6 ST=3 TYP=3
	6100	KISV	45	C	0611.8	0615.6	75.0	48.0			
	2840	PEKG	1	S	0612.0	0612.4	1.0	3.9	1.2		

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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
09	3750	TYKW	5	S	0614.0	0615.3	4.0	50.0	14.0		
	2840	PEKG	45	C	0614.0	0615.5	7.0	33.6	11.2		
	4995	LEAR	4	S/F	0614.3	0615.1	5.0	46.0			QL=6 ST=2 TYP=3
	100	GORK	46	C	0614.4	0615.0	3.0	8000.0			
	9400	TYKW	5	S	0614.5	0615.3	2.5	30.0	12.0		
	2000	TYKW	5	S	0614.5	0615.4	4.5	31.0	10.0		
	1000	TYKW	45	C	0614.6	0615.0	2.5	67.0	5.0		
	950	GORK	4	S/F	0614.6	0615.0	2.3	97.0			
	4995	ATHN	8	S	0614.6	0615.3	1.5	46.0			QL=6 ST=3 TYP=3
	8800	ATHN	8	S	0614.6	0615.3	1.0	43.0			QL=6 ST=3 TYP=3
	9100	GORK	3	S	0614.6	0615.3	1.6	30.0	15.0		
	2695	LEAR	4	S/F	0614.6	0615.3	5.7	46.0			QL=6 ST=2 TYP=3
	2950	GORK	3	S	0614.7	0615.3	2.0	31.0	15.0		
	245	LEAR	47	GB	0614.8	0615.0	1.2	130.0			QL=6 ST=2 TYP=5
	200	GORK	4	S/F	0614.8	0615.1	1.4	1200.0			
	8800	LEAR	4	S/F	0614.8	0615.1	2.3	33.0			QL=6 ST=2 TYP=3
	1415	LEAR	4	S/F	0614.8	0615.3	3.8	24.0			QL=6 ST=2 TYP=3
	17000	NOBE	1	S	0614.8	0615.3	3.0	15.0			0
	15400	LEAR	4	S/F	0614.8	0615.3	2.2	18.0			QL=6 ST=2 TYP=3
	1415	ATHN	8	S	0614.8	0615.5	1.8	17.0			QL=6 ST=3 TYP=3
	2695	ATHN	8	S	0614.8	0615.5	1.8	43.0			QL=6 ST=3 TYP=3
	100	GORK			0615.8	0615.8		480.0			
	9400	TYKW	29	PBI	0617.0		25.0	4.0	2.0		
	3750	TYKW	29	PBI	0618.0		40.0	5.0	2.5		
	2000	TYKW	30	PBI	0619.0		65.0	3.0	1.5		
	2000	TYKW	5	S	0623.0	0623.9	2.0	2.0	0.5		
	650	GORK	4	S/F	0623.1	0623.7	1.5	4.7	2.3		
	1000	TYKW	45	C	0623.5	0623.7	1.0	3.0	1.0		
	8800	ATHN	8	S	0639.6	0640.0	1.4	39.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0655.0	0655.9	3.0	6.0	1.5		
	650	GORK	1	S	0656.7	0657.0	.7	6.2	3.0		
	100	GORK	46	C	0742.7	0743.3	2.1	50.0			
	100	GORK			0742.7	0743.9		40.0			
	100	GORK			0742.7	0744.6		40.0			
	9100	GORK	21	GRF	0755.1	1134.7	219.6D	24.0	12.5		
	650	GORK	21	GRF	0820.6	1015.0	249.0D	5.7	2.5		
	15400	LEAR	8	S	0911.5	0912.1	.8	15.0			QL=5 ST=2 TYP=3
	4995	LEAR	8	S	0912.0	0912.1	.5	6.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0912.0	0912.1	.5	11.0			QL=6 ST=2 TYP=3
	2695	LEAR	8	S	0912.0	0912.1	.5	6.0			QL=2 ST=2 TYP=3
	1415	LEAR	8	S	0912.0	0912.1	.5	20.0			QL=6 ST=2 TYP=3
	204	IZMI	5	S	0913.2	0913.3	.3	640.0	250.0		
	204	IZMI	5	S	0927.0	0927.2	.5	270.0	150.0		
	3100	BERN	21	GRF	0940.0	0952.4	50.0U	11.0			
	11800	BERN	21	GRF	0940.0	0952.4	50.0U	60.0			
	8400	BERN	21	GRF	0940.0	0952.4	50.0U	51.0			
	5200	BERN	21	GRF	0940.0	0952.4	50.0U	26.0			
	6100	KISV	1	S	0947.4	0948.3	4.0	7.0			
	8800	LEAR	8	S	0951.6	0952.3	1.7	39.0			QL=5 ST=2 TYP=3
	6100	KISV	1	S	0951.9	0952.4	3.0	24.0			
	15000	KISV	1	S	0951.9	0952.4	1.0	29.0			
	4995	LEAR	8	S	0952.0	0952.3	.8	25.0			QL=5 ST=2 TYP=3
	9100	GORK	3	S	0952.0	0952.4	.9	35.0	10.0		
	9500	POTS	3	S	0952.0	0952.4	1.0	30.0			
	15400	LEAR	8	S	0952.1	0952.3	.5	20.0			QL=5 ST=2 TYP=3
	2695	LEAR	8	S	0952.1	0952.3	.7	10.0			QL=2 ST=2 TYP=3
	810	KRAK	8	S	0952.2	0952.2	.2	76.0			
	950	GORK	3	S	0952.2	0952.4	.4	26.0			
	3000	POTS	4	S/F	0952.2	0952.4	.7	10.0			
	2950	GORK	1	S	0952.2	0952.5	.5	5.2	2.5		
	650	GORK	8	S	0952.4	0952.4	.2	18.0			
	204	IZMI	5	S	0957.5	0957.7	.3	540.0	200.0		
	610	LEAR	8	S	1000.1	1000.3	.2	35.0			QL=5 ST=2 TYP=3
	410	LEAR	47	GB	1000.1E	1000.3	.2D	110.0			QL=5 ST=2 TYP=5
	200	GORK	4	S/F	1005.5	1005.8	.6	380.0			
	204	IZMI	41	F	1052.0	1054.2	3.0	700.0			
	29	UPIC	3	S	1144.0	1144.1	.6				
	33	UPIC	3	S	1144.0	1144.2	.5				
	234	POTS	4	S/F	1211.3	1211.6	.4	370.0	20.0		
	2800	OTTA	20	GRF	1300.0	1350.0	155.0	6.4	3.2		
	245	SGMR	47	GB	1323.0	1323.1	1.1	189.0			QL=6 ST=2 TYP=5

SOLAR RADIO EMISSION
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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
09	410	SGMR	8	S	1323.3	1323.6	.8	31.0			QL=6 ST=2 TYP=3
	234	POTS	4	S/F	1410.0	1410.1	.4	380.0	40.0		
	234	POTS	4	S/F	1418.2	1418.4	.4	390.0	50.0		
	2800	OTTA	21	GRF	1550.0	1640.0	115.0	3.0	2.0		
	2800	OTTA	1	S	1722.0	1724.6	8.0	4.0	1.4		
	2800	OTTA	32	ABS	1755.0	1840.0	75.0	-4.4	-2.9		
	2800	OTTA	21	GRF	2000.0	2050.0	120.0	5.8	3.9		
	9400	HUAN	22	GRF	2006.5	2015.0	12.1	6.4	3.4		L
	2800	OTTA	1	S	2126.0	2128.0	8.0	5.0	1.8		
10	200	HIRA	43	NS	0535.0	0558.0	150.0D	10.0	4.0		MR
	200	GORK	44	NS	0600.0E		336.0D		10.0		
	100	GORK	44	NS	0600.0E		336.0D		10.0		
	204	IZMI	43	NS	0700.0		300.0	30.0			
	127	TORN	43	NS	0720.0	1152.2	460.0	800.0	11.0		V=1
	245	SGMR	43	NS	1210.0	1642.8	575.0D	100.0			QL=6 ST=3 TYP=1
	245	PALE	43	NS	1737.0	1938.0	618.0D	570.0			QL=6 ST=2 TYP=1
	100	HIRA	44	NS	2130.0E	0332.0	640.0D	230.0	70.0		
	200	HIRA	44	NS	2130.0E	0425.0	640.0D	70.0	35.0		ML
	245	LEAR	43	NS	2227.0	0502.3	742.0D	760.0			QL=5 ST=2 TYP=1
	410	LEAR	43	NS	2227.0	0942.1	742.0D	75.0			QL=6 ST=2 TYP=1
	9400	TYKW	5	S	0002.0	0002.8	2.0	4.0	1.5		
	3750	TYKW	20	GRF	0020.0	0045.0	55.0	2.0	1.0		
	2840	PEKG	28	PRE	0119.0		18.0	6.5	2.9		
	200	HIRA	46	C	0124.3	0127.0	9.3	9.0	2.0		WR
	3750	TYKW	28	PRE	0126.0	0136.0	10.0	6.0	3.0		
	2000	TYKW	28	PRE	0128.0	0136.0	8.0	1.0	0.5		
	2902	YUNN	4	S/F	0131.2	0138.2	11.8	102.0			
	17000	NOBE	1	S	0134.8	0136.1	5.0	29.0			L
	2930	VORO	3	S	0135.0	0138.0	15.0	163.0			
	9400	TYKW	45	C	0136.0	0137.9	7.0	100.0	27.0		
	1000	TYKW	45	C	0136.0	0138.1	6.0	30.0	7.0		
	2000	TYKW	45	C	0136.0	0138.1	8.0	43.0	10.0		
	3750	TYKW	45	C	0136.0	0138.1	14.0	125.0	22.0		
	410	LEAR	4	S/F	0136.1	0137.3	3.0	18.0			QL=6 ST=2 TYP=3
	4995	PALE	47	GB	0136.5	0138.0	8.3	119.0			QL=6 ST=2 TYP=5
	500	HIRA	45	C	0136.7	0137.6	2.0	135.0	25.0		WL
	4995	LEAR	47	GB	0136.8	0137.8	5.5	130.0			QL=6 ST=2 TYP=5
	8800	PALE	47	GB	0136.8	0137.8	4.5	119.0			QL=6 ST=2 TYP=5
	2695	PALE	47	GB	0136.8	0138.1	3.8	85.0			QL=6 ST=2 TYP=5
	2840	PEKG	3	S	0137.0	0138.1	4.0	67.0	29.2		
	8800	LEAR	47	GB	0137.0	0137.8	2.0	80.0			QL=6 ST=2 TYP=5
	2695	LEAR	47	GB	0137.0	0138.1	3.1	67.0			QL=6 ST=2 TYP=5
	1415	PALE	8	S	0137.1	0138.1	1.5	23.0			QL=6 ST=2 TYP=3
	15400	LEAR	47	GB	0137.1	0138.5	3.2	72.0			QL=6 ST=2 TYP=5
	1415	LEAR	47	GB	0137.1	0138.5	1.5	79.0			QL=6 ST=2 TYP=5
	410	PALE	8	S	0137.3	0137.3	.3	26.0			QL=6 ST=2 TYP=3
	15400	PALE	8	S	0137.8	0138.0	.3	23.0			QL=6 ST=2 TYP=3
	610	PALE	8	S	0137.8	0138.1	.5	33.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0138.0	0138.1	.3	30.0			QL=6 ST=2 TYP=3
	200	HIRA	46	C	0138.0	0143.0	17.7	8.0	3.0		MR
	2840	PEKG	29	PBI	0141.0		21.0D	10.0	4.2U		
	1000	TYKW	29	PBI	0142.0		20.0	1.0	0.5		
	9400	TYKW	29	PBI	0143.0		25.0	8.0	3.0		
	2000	TYKW	29	PBI	0144.0		50.0	3.0	1.0		
	3750	TYKW	29	PBI	0150.0		40.0	6.0	3.0		
	100	HIRA	46	C	0249.0	0305.7	75.0	4600.0	43.0		
	100	HIRA			0249.0	0345.1		570.0			
	200	HIRA	46	C	0252.0	0305.7	40.0	995.0	19.0		0
	200	HIRA			0252.0	0315.2		185.0			MR
	500	HIRA	45	C	0302.9	0312.3	24.0	440.0	100.0		SR
	2000	TYKW	28	PRE	0303.0	0304.3	7.0	3.0	1.5D		
	1000	TYKW	45	C	0303.0	0314.1	24.0	80.0	16.0		
	245	LEAR	47	GB	0303.1	0304.0	3.2	239.0			QL=6 ST=2 TYP=5
	410	PALE	47	GB	0303.3	0304.0	3.0	290.0			QL=6 ST=2 TYP=5
	410	LEAR	47	GB	0303.8	0304.0	.5	110.0			QL=6 ST=2 TYP=5
	3750	TYKW	5	S	0304.0	0304.1	1.0	2.0	0.5		
	245	PALE	47	GB	0304.1	0304.3	2.2	239.0			QL=6 ST=2 TYP=5
	3750	TYKW	5	S	0305.5	0305.8	1.0	36.0	6.0		
	2695	LEAR	8	S	0305.6	0305.6	.4	39.0			QL=6 ST=2 TYP=3
	2695	PALE	8	S	0305.6	0305.6	.4	34.0			QL=6 ST=2 TYP=3

SOLAR RADIO EMISSION
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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
10	610	LEAR	4	S/F	0305.8	0306.0	5.8	31.0			QL=6 ST=2 TYP=3
	610	PALE	4	S/F	0305.8	0306.0	5.7	36.0			QL=6 ST=2 TYP=3
	1415	LEAR	8	S	0305.8	0306.0	.5	13.0			QL=6 ST=2 TYP=3
	1415	PALE	8	S	0305.8	0306.0	.5	13.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0306.6	0307.8	1.5	17.0			QL=6 ST=2 TYP=3
	3750	TYKW	28	PRE	0307.0	0307.8	3.0	4.0	1.0		
	9400	TYKW	45	C	0307.0E	0317.7	40.0D	61.0	25.0D		
	2930	VORO	45	C	0310.0	0312.0	20.0	104.0			
	208	VORO	20	GRF	0310.0	0315.0	16.0	83.0			
	2000	TYKW	45	C	0310.0	0316.5	17.0	41.0	16.0		
	3750	TYKW	45	C	0310.0	0317.1	17.0	62.0	25.0		
	2902	YUNN	27	RF	0310.3	0317.8	15.7	83.0			
	17000	NOBE	20	GRF	0310.3	0322.2	36.0	30.0			0
	4995	LEAR	8	S	0311.0	0311.6	.8	20.0			QL=6 ST=2 TYP=3
	4995	PALE	8	S	0311.1	0311.5	.5	13.0			QL=6 ST=2 TYP=3
	610	PALE	47	GB	0311.5	0312.3	12.3	440.0			QL=6 ST=2 TYP=5
	410	PALE	47	GB	0311.5	0312.5	11.5	200.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	0311.5	0313.1	11.6	67.0			QL=6 ST=2 TYP=5
	4995	PALE	47	GB	0311.5	0313.3	12.3	23.0			QL=6 ST=2 TYP=5
	610	LEAR	47	GB	0311.6	0312.3	12.2	440.0			QL=6 ST=2 TYP=5
	410	LEAR	47	GB	0311.6	0312.5	11.2	200.0			QL=6 ST=2 TYP=5
	8800	LEAR	47	GB	0311.6	0313.3	26.9	40.0			QL=6 ST=2 TYP=5
	4995	LEAR	47	GB	0311.6	0313.3	12.9	26.0			QL=6 ST=2 TYP=5
	1415	LEAR	47	GB	0311.6	0313.3	10.0	53.0			QL=6 ST=2 TYP=5
	2695	LEAR	47	GB	0311.6	0317.6	12.2	62.0			QL=6 ST=2 TYP=5
	245	LEAR	47	GB	0311.8	0313.1	11.3	57.0			QL=6 ST=2 TYP=5
	8800	PALE	47	GB	0312.0	0313.3	13.8	33.0			QL=6 ST=2 TYP=5
	2695	PALE	47	GB	0312.1	0313.1	10.9	24.0			QL=6 ST=2 TYP=5
	1415	PALE	47	GB	0312.3	0313.8	8.8	38.0			QL=6 ST=2 TYP=5
	15400	LEAR	47	GB	0316.6	0317.6	7.5	38.0			QL=6 ST=2 TYP=5
	1000	TYKW	30	PBI	0327.0		30.0U	2.0	1.0		
	2000	TYKW	30	PBI	0327.0		43.0	3.0	1.5		
	3750	TYKW	30	PBI	0327.0		33.0	7.0	4.0		
	2000	TYKW	5	S	0329.5	0330.3	2.0	2.5	1.0		
	1000	TYKW	45	C	0329.5	0331.5	1.5	2.0U	0.5		
	610	PALE	8	S	0329.8	0329.8	.3	43.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0330.0	0330.2	1.0	1.5	0.5		
	9400	TYKW	29	PBI	0347.0		65.0	9.0	4.0		
	3750	TYKW	31	ABS	0400.0	0500.0	105.0	-6.0	-3.0		
	200	HIRA	46	C	0403.7	0407.7	13.3	50.0	21.0		MR
	208	VORO	20	GRF	0405.0	0407.0	10.0	47.0			
	2000	TYKW	31	ABS	0410.0	0500.0	105.0	-2.0	-1.0		
	410	LEAR	4	S/F	0545.8	0552.8	10.2	11.0			QL=6 ST=2 TYP=3
	245	LEAR	4	S/F	0547.0E	0551.3	9.0D	49.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0557.0	0557.3	3.5	3.0	1.0		
	2950	GORK	21	GRF	0600.2	0721.0	348.0	9.5	4.0		
	410	LEAR	8	S	0601.5	0601.6	.3	20.0			QL=6 ST=2 TYP=3
	650	GORK	21	GRF	0606.0	0956.4	384.0D	21.0	8.5		
	1000	TYKW	5	S	0632.0	0632.2	0.5	2.0	0.7		
	245	LEAR	8	S	0636.8E	0636.8	.8D	16.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0636.8	0636.8	.2	13.0			QL=6 ST=2 TYP=3
	6100	KISV	2	S/F	0650.2	0650.8	3.0	44.0			
	4995	LEAR	4	S/F	0650.3	0650.8	2.3	17.0			QL=6 ST=2 TYP=3
	8800	LEAR	47	GB	0650.3	0650.8	2.5	53.0			QL=6 ST=2 TYP=5
	15400	LEAR	8	S	0650.3	0650.8	1.8	15.0			QL=6 ST=2 TYP=3
	9100	GORK	3	S	0650.3	0650.9	2.0	48.0	24.0		
	9400	TYKW	5	S	0650.5	0650.9	2.5	44.0	13.0		
	3750	TYKW	5	S	0650.5	0651.0	1.5	1.0	0.3		
	4995	ATHN	8	S	0650.5	0651.0	1.6	6.0			QL=6 ST=2 TYP=3
	8800	ATHN	47	GB	0650.5	0651.0	1.6	57.0			QL=6 ST=2 TYP=5
	2000	TYKW	21	GRF	0700.0	0720.0	45.0	2.0	1.0		
	3750	TYKW	21	GRF	0700.0	0721.0	45.0	6.0	3.0		
	9100	GORK	21	GRF	0705.0	1036.3	315.0	25.0			
	100	HIRA	46	C	0711.0	0715.3	5.7	5000.0	330.0		
	950	GORK	4	S/F	0713.4	0715.9	62.0	16.0			
	100	GORK	46	C	0714.0	0714.6	2.6	4300.0			
	100	GORK			0714.0	0715.9		9600.0			
	200	HIRA	46	C	0714.3	0715.7	2.7	215.0	29.0		MR
	113	POTS	4	S/F	0714.5	0715.8	2.3	2000.0	400.0		III
	650	GORK	2	S/F	0714.5	0716.0	3.3	15.0	3.5		
	245	LEAR	8	S	0714.6E	0716.1	2.0D	26.0			QL=5 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
10	410	LEAR	4	S/F	0714.6	0716.1	2.4	10.0			QL=5 ST=2 TYP=3
	200	GORK	4	S/F	0714.8	0715.9	2.4	390.0			
	3750	TYKW	5	S	0715.0	0716.0	3.0	3.0	1.0		
	2000	TYKW	45	C	0715.0	0716.3	2.5	9.0	3.0		
	9400	TYKW	45	C	0715.0	0721.2	12.0D	8.0	3.0D		
	204	IZMI	5	S	0715.0	0716.0	2.0	230.0	100.0		
	500	HIRA	45	C	0715.1	0715.6	2.0	7.0	2.0		WR
	610	LEAR	8	S	0715.1	0715.8	1.9	21.0			QL=5 ST=2 TYP=3
	1415	LEAR	8	S	0715.3	0716.6	1.8	21.0			QL=5 ST=2 TYP=3
	2950	GORK	1	S	0715.5	0715.8	1.4	4.4	2.0		
	6100	KISV	1	S	0715.5	0715.8	2.0	3.0			
	1000	TYKW	45	C	0715.5	0716.3	2.0	30.0	8.0		
	33	UPIC	45	C	0715.6	0716.0	1.5				
	29	UPIC	45	C	0715.6	0716.1	1.4				
	1415	ATHN	8	S	0715.6	0717.0	1.7	13.0			QL=5 ST=3 TYP=3
	200	HIRA	27	RF	0717.0	0723.0	25.0	11.0	8.0		MR
	410	LEAR	4	S/F	0724.8	0725.3	3.0	19.0			QL=6 ST=2 TYP=3
	245	LEAR	4	S/F	0724.8E	0726.1	9.0D	13.0			QL=6 ST=2 TYP=3
	610	LEAR	4	S/F	0724.8	0727.3	2.7	5.0			QL=6 ST=2 TYP=3
	6100	KISV	1	S	0800.3	0801.3	2.0	14.0			
	245	LEAR	47	GB	0913.1	0913.6	.9	290.0			QL=6 ST=2 TYP=5
	410	LEAR	8	S	0913.5	0913.6	.3	25.0			QL=6 ST=2 TYP=3
	200	GORK	8	S	0913.5	0913.8	.5	1110.0			
	234	POTS	8	S	0913.7	0913.7	.5	470.0	150.0		III
	113	POTS	8	S	0913.7	0913.8	.1	460.0	150.0		III
	430	KRAK	42	SER	0918.6	0932.3	31.0	12.0			
	6100	KISV	1	S	0941.6	0942.3	1.0	3.0			
	204	IZMI	42	SER	1020.0	1020.2	15.0	8000.0			
	200	GORK	41	F	1021.7	1023.8	14.6	1540.0			
	200	GORK			1021.7	1029.2		1540.0			
	200	GORK			1021.7	1031.8		360.0			
	410	LEAR	47	GB	1022.1E	1023.6	3.5D	32.0			QL=5 ST=2 TYP=5
	127	TORN	42	SER	1023.2	1023.6	12.5	800.0			
	100	GORK	41	F	1023.2	1023.8	10.4	8500.0			
	100	GORK			1023.2	1029.1		4160.0			
	100	GORK			1023.2	1031.5		700.0			
	245	LEAR	49	GB	1023.3E	1023.6	2.3D	2399.0			QL=5 ST=2 TYP=6
	113	POTS	42	SER	1023.3	1023.7	12.0	1800.0	20.0		III
	234	POTS	42	SER	1023.4	1023.7	6.5	11000.0	350.0		III
	29	UPIC	42	SER	1023.5	1024.2U	11.0				
	6100	KISV	28	PRE	1023.6	1023.8	.3	3.0			
	33	UPIC	42	SER	1023.6	1024.1	10.6				
	410	LEAR	47	GB	1028.8E	1029.0	.7D	95.0			QL=5 ST=2 TYP=5
	245	LEAR	49	GB	1028.8E	1029.0	.8D	1699.0			QL=5 ST=2 TYP=6
	950	GORK	46	C	1030.7	1031.9	5.8	20.0			
	950	GORK			1030.7	1033.0		21.0			
	950	GORK			1030.7	1035.2		13.0			
	1470	POTS	23	GRF	1031.0	1031.9	17.0	13.0			
	650	GORK	46	C	1031.3	1033.4	5.9	50.0			
	650	GORK			1031.3	1035.1		38.0			
	245	LEAR	47	GB	1031.5E	1032.6	1.8D	53.0			QL=5 ST=2 TYP=5
	8400	BERN	41	F	1031.5	1033.1	40.0	60.0			
	11800	BERN	41	F	1031.5	1033.1	40.0	44.0			
	5200	BERN	41	F	1031.5	1035.3	40.0	35.0			
	3100	BERN	41	F	1031.5	1058.4	40.0	29.0			
	6100	KISV	46	C	1031.9	1033.1	6.0	35.0			
	6100	KISV			1031.9	1035.0		28.0			
	6100	KISV			1031.9	1035.2		28.0			
	9500	POTS	23	GRF	1032.0	1032.3	8.0	46.0			
	9100	GORK	45	C	1032.2	1033.1	4.1	46.0			
	9100	GORK			1032.2	1035.2		17.0			
	15000	KISV	1	S	1032.3	1033.1	2.0	24.0			
	2950	GORK	2	S/F	1032.5	1035.0	3.7	4.5	2.0		
	4995	LEAR	4	S/F	1032.6	1032.8	2.7	25.0			QL=5 ST=2 TYP=3
	610	LEAR	47	GB	1032.6	1032.8	1.0	150.0			QL=5 ST=2 TYP=5
	8800	LEAR	8	S	1032.8	1032.8	.8	28.0			QL=5 ST=2 TYP=3
	410	LEAR	47	GB	1032.8E	1033.1	2.8D	119.0			QL=5 ST=2 TYP=5
	430	KRAK	45	C	1034.3	1034.8	7.5	100.0	15.0		
	430	KRAK			1034.3	1038.2		140.0			
	810	KRAK	4	S/F	1035.8	1037.8	5.0	22.0	6.0		
	127	TORN	4	S/F	1057.1	1057.5	1.7	130.0	60.0		

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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
10	200	GORK	4	S/F	1057.1	1057.6	1.8	520.0			
	100	GORK	46	C	1057.3	1057.6	1.2	400.0			
	100	GORK			1057.3	1058.3		220.0			
	113	POTS	4	S/F	1057.4	1057.6	.9	160.0	8.0		III
	6100	KISV			1057.5	1057.8		24.0			
	234	POTS	4	S/F	1057.5	1058.1	1.0	400.0	15.0		III
	6100	KISV	45	C	1057.5	1058.3	2.0	26.0			
	3000	POTS	3	S	1057.5	1058.5	2.5	21.0			
	15000	KISV	1	S	1057.6	1057.7	.3	21.0			
	9100	GORK	3	S	1057.6	1057.9	1.7	19.0	10.0		
	9500	POTS	4	S/F	1057.7	1057.9	2.3	26.0			
	2950	GORK	3	S	1057.7	1058.5	1.8	15.0	7.5		
	6100	KISV	29	PBI	1059.1	1059.1	16.0	10.0			
	3100	CRIM	26	FAL	1107.0	1145.0		9.0			
	9100	GORK	1	S	1118.1	1118.3	2.5	16.0	8.0		
	6100	KISV			1118.5	1118.8		14.0			
	6100	KISV	45	C	1118.5	1119.4	2.0	14.0			
	6100	KISV	29	PBI	1120.5	1120.8	8.0	7.0			
	29	UPIC	42	SER	1127.1	1132.7	72.9				
	33	UPIC	42	SER	1127.3	1132.8	73.0				
	234	POTS	4	S/F	1151.8	1152.0	.6	830.0	120.0		III
	113	POTS	4	S/F	1151.8	1152.2	.4	240.0	50.0		III
	204	IZMI	5	S	1152.0	1152.5	1.0	80.0	40.0		
	113	POTS	8	S	1221.0	1221.1	.1	240.0	80.0		III
	234	POTS	4	S/F	1221.0	1221.1	.7	190.0	35.0		III
	9400	HUAN	22	GRF	1300.6	1315.8	19.8	6.5	2.6		0
	2800	OTTA	21	GRF	1335.0	1500.0	310.0	12.6	6.3		
	245	SGMR	47	GB	1414.6	1415.3	1.0	55.0			QL=5 ST=2 TYP=5
	610	SGMR	8	S	1415.0	1415.3	.6	18.0			QL=6 ST=2 TYP=3
	410	SGMR	8	S	1415.1	1415.3	.5	20.0			QL=6 ST=2 TYP=3
	9400	HUAN	21	GRF	1430.4	1443.8	20.3	7.8	3.1		0
	127	TORN	47	GB	1435.8		11.5	970000.0	4800.0		UNCERTAIN
	245	SGMR	47	GB	1440.1	1440.6	1.2	86.0			QL=5 ST=2 TYP=5
	234	POTS	3	S	1440.3	1443.7	7.0	5800.0	75.0		III/V
	113	POTS	3	S	1440.3	1445.5	7.0	1800.0	50.0		III/V
	245	SGMR	49	GB	1442.1	1445.6	5.2	1000.0			QL=6 ST=3 TYP=6
	33	UPIC	45	C	1444.1	1446.3	3.6				
	29	UPIC	45	C	1444.1	1446.5U	3.6				
	9400	HUAN	1	S	1445.0	1445.6	2.1	9.1	4.4		0
	410	SGMR	47	GB	1445.3	1445.6	2.0	470.0			QL=6 ST=3 TYP=5
	8800	SGMR	8	S	1445.3	1445.6	.8	24.0			QL=6 ST=3 TYP=3
	610	SGMR	47	GB	1445.3	1445.6	1.0	130.0			QL=6 ST=3 TYP=5
	2800	OTTA	8	S	1445.5	1445.7	.8	7.4			
	4995	SGMR	8	S	1445.6	1445.6	.4	16.0			QL=6 ST=3 TYP=3
	245	SGMR	47	GB	1540.6	1541.6	1.7	290.0			QL=6 ST=2 TYP=5
	410	SGMR	8	S	1540.6	1541.8	1.7	10.0			QL=6 ST=2 TYP=3
	2800	OTTA	2	S/F	1540.8	1541.5	4.0	3.0	1.5		
	2800	OTTA	2	S/F	1546.0	1547.5	8.0	3.8	1.4		
	9400	HUAN	20	GRF	1546.7	1551.2	17.6	5.8	2.8		L
	245	SGMR	47	GB	1547.8	1548.6	3.2	59.0			QL=6 ST=2 TYP=5
	410	SGMR	8	S	1552.0	1552.3	1.0	21.0			QL=6 ST=3 TYP=3
	245	SGMR	47	GB	1552.3	1552.3	1.3	87.0			QL=6 ST=2 TYP=5
	245	SGMR	47	GB	1559.6	1559.8	.7	81.0			QL=6 ST=2 TYP=5
	2800	OTTA	22	GRF	1700.0	1725.0	65.0	6.4	3.2		
	9400	HUAN	21	GRF	1704.3	1722.6	39.1	9.1	4.5		R
	9400	HUAN	2	S/F	1715.6	1716.3	4.1	14.3	8.1		R
	8800	SGMR	8	S	1716.1	1716.3	1.5	23.0			QL=6 ST=2 TYP=3
	245	SGMR	47	GB	1716.1E	1716.3	2.0D	92.0			QL=5 ST=2 TYP=5
	245	SGMR	47	GB	1723.1	1723.3	.7	260.0			QL=6 ST=2 TYP=5
	410	SGMR	8	S	1723.1	1723.3	.7	30.0			QL=6 ST=2 TYP=3
	245	SGMR	49	GB	1729.6	1729.8	1.2	620.0			QL=6 ST=2 TYP=6
	245	SGMR	47	GB	1749.3	1750.8	2.0	440.0			QL=6 ST=2 TYP=5
	410	SGMR	8	S	1750.3	1750.8	.7	19.0			QL=6 ST=2 TYP=3
	245	SGMR	49	GB	1756.0	1759.1	5.0	500.0			QL=6 ST=3 TYP=6
	410	SGMR	47	GB	1758.6	1759.1	1.4	79.0			QL=6 ST=3 TYP=5
	410	PALE	47	GB	1758.8	1759.1	.5	160.0			QL=6 ST=2 TYP=5
	9400	HUAN	4	S/F	1805.6	1807.2	4.2	23.4	12.8		R
	9400	HUAN			1805.6	1809.5		24.0			R
	2800	OTTA	1	S	1806.0	1807.0	5.0	2.0	1.0		
	245	SGMR	49	GB	1806.1	1807.3	7.0	1199.0			QL=6 ST=2 TYP=6
	245	PALE	49	GB	1806.1	1809.3	6.7	2300.0			QL=6 ST=2 TYP=6

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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
10	410	SGMR	47	GB	1806.8	1807.1	3.0	110.0			QL=6 ST=2 TYP=5
	410	PALE	47	GB	1807.0	1807.6	1.1	180.0			QL=6 ST=2 TYP=5
	8800	SGMR	4	S/F	1807.1	1807.3	2.2	25.0			QL=6 ST=2 TYP=3
	15400	SGMR	4	S/F	1807.1	1807.3	2.2	35.0			QL=6 ST=2 TYP=3
	610	SGMR	8	S	1807.3	1807.5	2.0	29.0			QL=6 ST=2 TYP=3
	610	PALE	8	S	1807.3	1807.5	.5	27.0			QL=6 ST=2 TYP=3
	9400	HUAN	29	PBI	1809.8		21.0	3.9	0.6		0
	2800	OTTA	240	AR	1925.0	2010.0	45.0	5.2	2.6		
	245	SGMR	49	GB	1935.3	1935.8	3.8	139.0			QL=6 ST=3 TYP=6
	2800	OTTA	40	F	1935.5	1938.0	4.0	6.0			
	410	SGMR	47	GB	1935.8	1937.6	3.0	100.0			QL=6 ST=3 TYP=5
	610	PALE	4	S/F	1936.0	1937.6	2.5	33.0			QL=6 ST=2 TYP=3
	410	PALE	47	GB	1937.3	1937.6	1.3	77.0			QL=6 ST=2 TYP=5
	2695	SGMR	8	S	1937.3	1938.1	.8	15.0			QL=6 ST=3 TYP=3
	610	SGMR	8	S	1937.5	1937.8	1.1	44.0			QL=6 ST=3 TYP=3
	1415	SGMR	8	S	1937.5	1938.1	.6	20.0			QL=6 ST=3 TYP=3
	4995	SGMR	8	S	1937.5	1938.1	1.3	11.0			QL=6 ST=3 TYP=3
	1415	PALE	8	S	1937.6	1938.0	.5	19.0			QL=6 ST=2 TYP=3
	9400	HUAN	1	S	1946.2	1948.0	3.6	16.9	5.5		R
	245	SGMR	47	GB	1946.3	1946.5	2.5	86.0			QL=6 ST=2 TYP=5
	410	SGMR	4	S/F	1946.6	1947.1	2.2	30.0			QL=6 ST=2 TYP=3
	610	SGMR	8	S	1946.8	1947.8	2.0	28.0			QL=6 ST=2 TYP=3
	2800	OTTA	1	S	1947.0	1948.0	4.0	4.2	1.4		
	4995	SGMR	8	S	1947.1	1947.8	1.5	20.0			QL=5 ST=3 TYP=3
	8800	SGMR	8	S	1947.1	1947.8	1.7	30.0			QL=5 ST=3 TYP=3
	610	PALE	8	S	1947.6	1947.8	.5	22.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	1947.6	1947.8	.5	21.0			QL=6 ST=2 TYP=3
	4995	PALE	8	S	1947.6	1947.8	.5	16.0			QL=6 ST=2 TYP=3
	410	PALE	8	S	1947.8	1947.8	.3	37.0			QL=6 ST=2 TYP=3
	2800	OTTA	21	GRF	2020.0	2113.0	100.0	4.0	2.0		
	245	SGMR	47	GB	2041.6	2041.8	5.5	85.0			QL=6 ST=2 TYP=5
	610	SGMR	8	S	2042.3	2042.8	.7	20.0			QL=6 ST=2 TYP=3
	410	SGMR	8	S	2042.6	2042.8	.5	17.0			QL=6 ST=2 TYP=3
	2695	PENT	4	S/F	2046.5	2050.0	7.0	32.0	9.0		
	410	SGMR	49	GB	2047.1	2049.8	4.2	1199.0			QL=6 ST=2 TYP=6
	245	PALE	49	GB	2047.1	2049.8	3.9	3300.0			QL=6 ST=2 TYP=6
	245	SGMR	49	GB	2047.1	2049.8	4.2	2500.0			QL=6 ST=3 TYP=6
	9400	HUAN	3	S	2047.1	2049.8	8.7	109.0	24.1		R
	410	PALE	49	GB	2047.1	2049.8	4.0	1000.0			QL=6 ST=2 TYP=6
	610	PALE	49	GB	2047.3	2049.8	3.8	720.0			QL=6 ST=2 TYP=6
	610	SGMR	49	GB	2047.3	2049.8	3.8	860.0			QL=6 ST=2 TYP=6
	8800	PALE	47	GB	2047.8	2049.8	3.3	150.0			QL=6 ST=2 TYP=5
	4995	PALE	47	GB	2048.1	2049.8	2.7	55.0			QL=6 ST=2 TYP=5
	2695	PALE	4	S/F	2048.1	2049.8	2.4	34.0			QL=6 ST=2 TYP=3
	8800	SGMR	47	GB	2048.6	2049.8	2.2	119.0			QL=6 ST=2 TYP=5
	4995	SGMR	47	GB	2048.6	2049.8	2.0	60.0			QL=6 ST=2 TYP=5
	1415	PALE	47	GB	2048.8	2049.8	1.7	280.0			QL=6 ST=2 TYP=5
	1415	SGMR	47	GB	2048.8	2049.8	1.8	200.0			QL=6 ST=2 TYP=5
	2695	SGMR	8	S	2048.8	2049.8	1.7	29.0			QL=6 ST=2 TYP=3
	15400	PALE	47	GB	2049.5	2049.8	1.0	85.0			QL=6 ST=2 TYP=5
	15400	SGMR	47	GB	2049.6	2049.8	.5	63.0			QL=6 ST=2 TYP=5
	2695	SGMR	8	S	2111.6	2112.1	.5	15.0			QL=6 ST=2 TYP=3
	2695	SGMR	4	S/F	2129.1	2131.3	3.9	15.0			QL=6 ST=2 TYP=3
	1415	SGMR	8	S	2130.1	2131.0	1.0	15.0			QL=6 ST=2 TYP=3
	4995	SGMR	8	S	2130.6	2131.1	.5	15.0			QL=6 ST=2 TYP=3
	4995	SGMR	4	S/F	2133.6	2135.5	3.7	23.0			QL=6 ST=2 TYP=3
	2800	OTTA	45	C	2134.0	2136.9	7.0	14.0	6.0		
	245	SGMR	8	S	2134.1	2134.3	.5	130.0			QL=6 ST=2 TYP=3
	610	SGMR	8	S	2134.1	2135.3	2.0	45.0			QL=6 ST=2 TYP=3
	9400	HUAN	2	S/F	2134.5	2138.9	8.4	19.5	6.1		R
	410	PALE	47	GB	2135.1	2135.1	.4	52.0			QL=6 ST=2 TYP=5
	410	SGMR	8	S	2135.1	2135.1	.4	36.0			QL=6 ST=2 TYP=3
	2695	SGMR	8	S	2135.3	2135.3	.3	13.0			QL=6 ST=2 TYP=3
	610	PALE	8	S	2135.3	2135.6	.5	37.0			QL=6 ST=2 TYP=3
	4995	PALE	4	S/F	2136.6	2136.6	2.7	15.0			QL=6 ST=2 TYP=3
	2695	PALE	8	S	2136.6	2136.8	.4	15.0			QL=6 ST=2 TYP=3
	8800	PALE	4	S/F	2136.6	2137.1	2.7	13.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	2136.8	2137.1	1.8	96.0			QL=6 ST=2 TYP=5
	2695	PENT	21	GRF	2220.0	2252.0	70.0	6.8	3.2		
	9400	HUAN	2	S/F	2224.4	2227.6	3.9	19.5	5.9		R
	9400	TYKW	45	C	2226.0	2227.8	5.0	30.0	6.0		

SOLAR RADIO EMISSION
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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
10	200	HIRA	42	SER	2226.3	2226.7	56.0	980.0			SL
	100	HIRA	42	SER	2226.3	2227.7	21.3	8700.0			
	2695	PENT	40	F	2227.0	2227.7	20.0	13.0			
	500	HIRA	42	SER	2227.4	2244.3	17.0	50.0			WR
	1000	TYKW	45	C	2227.5	2227.8	1.0	11.0	3.0		
	8800	LEAR	8	S	2227.5	2227.8	.5	36.0			QL=5 ST=2 TYP=3
	2695	LEAR	8	S	2227.5	2227.8	.6	22.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	2227.5	2227.8	.6	30.0			QL=5 ST=2 TYP=3
	1415	LEAR	4	S/F	2227.5	2227.8	5.1	6.0			QL=5 ST=2 TYP=3
	2000	TYKW	5	S	2227.5	2227.9	1.0	12.0	3.0		
	3750	TYKW	45	C	2227.5	2227.9	3.5	16.0	4.0		
	610	LEAR	4	S/F	2227.5	2228.1	3.5	15.0			QL=5 ST=2 TYP=3
	8800	PALE	8	S	2227.6	2227.8	.5	42.0			QL=6 ST=2 TYP=3
	4995	PALE	8	S	2227.6	2227.8	.4	17.0			QL=6 ST=2 TYP=3
	610	PALE	4	S/F	2227.6	2227.8	2.7	24.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	2227.6	2229.5	3.5	169.0			QL=5 ST=2 TYP=5
	410	LEAR	4	S/F	2227.6	2229.6	3.2	32.0			QL=5 ST=2 TYP=3
	2695	PALE	8	S	2227.8	2227.8	.3	15.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	2227.8	2229.3	3.2	200.0			QL=6 ST=2 TYP=5
	410	PALE	47	GB	2227.8	2229.5	2.7	57.0			QL=6 ST=2 TYP=5
	2000	TYKW	5	S	2229.0	2229.4	2.0	3.0	1.0		
	1000	TYKW	45	C	2229.3	2229.6	1.5	10.0	3.0		
	3750	TYKW	30	PBI	2231.0		40.0	3.0	1.5		
	9400	TYKW	30	PBI	2231.0		60.0	3.0	1.5		
	2000	TYKW	45	C	2232.0	2233.7	5.0	12.0	2.0		
	9400	TYKW	5	S	2232.0	2234.0	7.0	8.0	3.0		
	3750	TYKW	45	C	2232.0	2234.3	5.0	4.0	1.5		
	9400	HUAN	2	S/F	2232.8	2234.3	4.2	9.1	4.6		0
	1000	TYKW	8	S	2233.4	2233.5	0.3	30.0	10.0		
	245	LEAR	47	GB	2237.6	2240.0	4.7	93.0			QL=5 ST=2 TYP=5
	2695	LEAR	20	GRF	2238.8	2241.1	3.2	23.0			QL=2 ST=2 TYP=2
	245	PALE	47	GB	2239.8	2240.0	2.3	80.0			QL=6 ST=2 TYP=5
	9400	TYKW	45	C	2240.0	2243.3	20.0	19.0	10.0		
	3750	TYKW	45	C	2240.0	2243.4	30.0	9.0	3.5		
	2000	TYKW	45	C	2240.0	2243.7	7.0	64.0	5.0		
	1000	TYKW	5	S	2240.5	2241.2	1.5	9.0	3.0		
	610	LEAR	8	S	2240.6	2241.0	1.5	10.0			QL=5 ST=2 TYP=3
	410	PALE	47	GB	2240.6	2241.1	1.5	110.0			QL=6 ST=2 TYP=5
	410	LEAR	47	GB	2240.8	2241.1	1.2	65.0			QL=5 ST=2 TYP=5
	610	PALE	8	S	2240.8	2241.1	.8	18.0			QL=6 ST=2 TYP=3
	4995	PALE	8	S	2243.1	2243.3	.4	15.0			QL=6 ST=2 TYP=3
	1000	TYKW	45	C	2243.5	2244.6	1.5	18.0	3.0		
	245	LEAR	47	GB	2243.5	2244.6	1.3	19.0			QL=5 ST=2 TYP=5
	410	LEAR	47	GB	2243.5	2244.6	1.3	60.0			QL=5 ST=2 TYP=5
	610	LEAR	8	S	2243.5	2244.6	1.3	40.0			QL=5 ST=2 TYP=3
	410	LEAR	8	S	2246.8	2247.3	1.0	40.0			QL=6 ST=2 TYP=3
	410	PALE	8	S	2247.1	2247.5	.5	47.0			QL=6 ST=2 TYP=3
	9400	TYKW	29	PBI	2300.0		15.0	7.0	3.0		
	3750	TYKW	21	GRF	2345.0	0145.0	230.0	13.0	7.0		
	9400	TYKW	20	GRF	2346.0	0008.0	45.0	4.0	2.0		
	3750	TYKW	5	S	2348.0	2350.8	17.0	3.0	1.0		
	100	HIRA	42	SER	2358.0	0005.0	16.7	1400.0			
11	208	VORO	44	NS	0000.0E		300.0D		31.0		
	200	GORK	44	NS	0556.0E		354.0D	25.0			
	127	TORN	44	NS	0700.0E	1101.1	480.0D	2400.0	16.0		V=2
	204	IZMI	44	NS	0700.0E		300.0D	50.0			
	29	UPIC	43	NS	0749.8		401.8				
	33	UPIC	43	NS	0749.9	1320.8	401.3				
	260	ONDR	44	NS	0806.0E		353.0D	10.0			
	245	SGMR	43	NS	1209.0	2121.0	577.0D	95.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1742.0	2120.8	613.0D	84.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2353.8	0031.5	78.2	47.0			QL=6 ST=2 TYP=1
	2000	TYKW	21	GRF	0000.0	0140.0	210.0	4.0	2.0		
	200	HIRA	42	SER	0028.0	0028.3	13.8	370.0			ML
	9400	TYKW	21	GRF	0038.0	0114.0	175.0	6.0	3.0		
	100	HIRA	42	SER	0038.3	0057.0	20.0	7800.0			
	3750	TYKW	45	C	0038.5	0040.9	4.0	3.0	1.0		
	500	HIRA	42	SER	0038.9	0040.9	20.0	25.0			WR
	1000	TYKW	45	C	0039.0	0039.4	1.0	12.0	3.0		
	2000	TYKW	45	C	0039.0	0040.9	3.0	3.0	1.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

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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
11	1415	LEAR	47	GB	0039.0	0039.1	2.1	84.0			QL=6 ST=2 TYP=5
	245	LEAR	47	GB	0039.1E	0039.3	2.2D	100.0			QL=6 ST=2 TYP=5
	9400	TYKW	5	S	0040.0	0040.9	2.0	4.0	1.5		
	410	LEAR	47	GB	0040.0E	0041.0	2.3D	13.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	0040.3	0040.6	1.0	88.0			QL=6 ST=2 TYP=5
	1000	TYKW	45	C	0040.3	0040.9	1.7	23.0	5.0		
	610	LEAR	8	S	0040.6	0040.8	.7	21.0			QL=6 ST=2 TYP=3
	610	PALE	8	S	0040.6	0040.8	.7	23.0			QL=6 ST=2 TYP=3
	1415	PALE	8	S	0040.6	0040.8	.7	27.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0057.3	0057.5	.5	47.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0057.3	0057.7	1.0	8.0	1.5		
	245	LEAR	47	GB	0057.5	0057.6	.5	130.0			QL=6 ST=2 TYP=5
	1000	TYKW	21	GRF	0100.0	0145.0	130.0	2.0	1.0		
	500	HIRA	27	RF	0118.0	0124.6	50.0	3.0	1.0		WR
	100	HIRA	42	SER	0118.7	0122.8	13.7	970.0			
	245	LEAR	47	GB	0123.1E	0123.3	.7D	180.0			QL=6 ST=2 TYP=5
	3750	TYKW	5	S	0125.0	0130.0	15.0	3.0	1.0		
	9400	TYKW	21	GRF	0125.0	0155.0	115.0	8.0	4.0		
	2000	TYKW	5	S	0127.0	0130.4	8.0	2.0	0.7		
	2930	VORO	45	C	0235.0	0242.0	20.0	136.0			
	208	VORO	20	GRF	0235.0	0243.0	10.0	200.0D			
	3750	TYKW	45	C	0236.0	0241.3	14.0	115.0	27.0		
	2000	TYKW	45	C	0236.0	0241.3	12.0	124.0	30.0		
	200	HIRA	48	C	0236.1	0239.3	10.7	1660.0	197.0		ML
	100	HIRA	48	C	0236.3	0242.3	10.0	4900.0	940.0		
	500	HIRA	48	C	0236.4	0240.9	10.0	1000.0	300.0		SR
	1000	TYKW	45	C	0236.5	0241.3	11.0	270.0	60.0		
	245	PALE	49	GB	0236.6	0238.1	11.5	390.0			QL=6 ST=2 TYP=6
	245	LEAR	49	GB	0236.6E	0238.1	17.9D	330.0			QL=6 ST=2 TYP=6
	2840	PEKG	45	C	0237.0	0239.5	9.0	54.4	21.2		
	2840	PEKG			0237.0	0241.4					
	9400	TYKW	45	C	0237.0	0244.6	23.0	165.0	25.0		
	2840	PEKG			0237.0	0245.3					
	410	LEAR	49	GB	0237.0E	0239.3	10.1D	730.0			QL=6 ST=2 TYP=6
	1415	LEAR	47	GB	0237.1	0239.6	8.4	150.0			QL=6 ST=2 TYP=5
	1415	PALE	47	GB	0237.1	0239.6	8.9	160.0			QL=6 ST=2 TYP=5
	2902	YUNN	30	PBI	0237.2	0241.7	14.8	94.0			
	610	PALE	49	GB	0237.3	0239.3	8.8	770.0			QL=6 ST=2 TYP=6
	2695	LEAR	47	GB	0237.3	0239.3	8.5	91.0			QL=2 ST=2 TYP=5
	410	PALE	49	GB	0237.3	0239.3	8.5	860.0			QL=6 ST=2 TYP=6
	610	LEAR	49	GB	0237.3	0239.3	8.8	680.0			QL=6 ST=2 TYP=6
	8800	LEAR	47	GB	0237.6	0238.1	12.5	77.0			QL=6 ST=2 TYP=5
	4995	LEAR	47	GB	0237.6	0239.1	8.7	71.0			QL=6 ST=2 TYP=5
	2695	PALE	47	GB	0237.6	0239.3	8.2	79.0			QL=6 ST=2 TYP=5
	4995	PALE	47	GB	0237.8	0239.1	8.0	59.0			QL=6 ST=2 TYP=5
	17000	NOBE	7	C	0237.8	0244.6	7.9	75.0			R
	8800	PALE	47	GB	0238.1	0238.1	9.0	59.0			QL=6 ST=2 TYP=5
	15400	LEAR	47	GB	0239.1	0239.3	10.5	13.0			QL=6 ST=2 TYP=5
	15400	PALE	47	GB	0241.1	0242.6	6.2	74.0			QL=6 ST=2 TYP=5
	17000	NOBE	29	PBI	0245.7	0245.7	15.0	36.0			O
	2840	PEKG	29	PBI	0246.0		11.0D	5.2	2.1U		
	2000	TYKW	29	PBI	0248.0		30.0	2.0	1.0		
	3750	TYKW	29	PBI	0250.0		30.0	7.0	3.0		
	9400	TYKW	30	PBI	0300.0		20.0	6.0	3.0		
	9400	TYKW	5	S	0314.3	0314.7	3.0	18.0	3.0		
	100	HIRA	46	C	0317.5	0317.8	2.6	1850.0	350.0		
	2000	TYKW	45	C	0353.5	0353.7	1.0	2.5	0.5		
	9400	TYKW	5	S	0405.0	0407.2	3.0	10.0	3.0		
	9400	TYKW	30	PBI	0408.0		60.0	3.0	1.5		
	9400	TYKW	45	C	0430.0	0430.8	2.0	17.0	7.0		
	8800	LEAR	8	S	0430.3	0430.8	.8	19.0			QL=6 ST=2 TYP=3
	9400	TYKW	29	PBI	0432.0		8.0	5.0	2.0		
	9400	TYKW	45	C	0443.0	0456.0	20.0	6.0	3.0		
	100	HIRA	42	SER	0443.3	0452.1	10.0	1900.0			
	100	HIRA	8	S	0546.1	0546.3	.5	3200.0			
	9400	TYKW	21	GRF	0550.0	0610.0	90.0	6.0	3.0		
	100	GORK	44		0556.0E		352.0D		20.0		
	500	HIRA	46	C	0602.9	0605.1	2.6	5.0	1.3		WR
	610	LEAR	8	S	0603.5	0606.1	2.6D	17.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0603.5	0606.1	2.6D	43.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0603.5	0606.1	2.6D	26.0			QL=6 ST=2 TYP=3

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

FEBRUARY 1984

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	410	LEAR	47	GB	0607.1	0607.3	.2	50.0			QL=6 ST=2 TYP=5
	610	LEAR	8	S	0607.1	0607.3	.2	21.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	0607.1	0607.3	.2	180.0			QL=6 ST=2 TYP=5
	200	GORK	8	S	0607.1	0607.5	.8	1400.0			
	100	GORK	8	S	0607.5	0607.6	3.0	2250.0			
	3750	TYKW	21	GRF	0610.0	0641.0	80.0	6.0	3.0		
	2000	TYKW	20	GRF	0610.0	0650.0	90.0	3.0	1.5		
	410	LEAR	8	S	0615.5	0615.6	.3	16.0			QL=6 ST=2 TYP=3
	2950	GORK	20	GRF	0617.5	0648.0	340.0D	7.3			
	9400	TYKW	5	S	0631.5	0632.0	1.5	34.0	6.0		
	8800	ATHN	8	S	0631.6	0632.0	.5	20.0			QL=6 ST=2 TYP=3
	6100	KISV	1	S	0631.8	0632.0	1.0	10.0			
	15000	KISV	8	S	0631.8	0632.0	1.0	57.0			
	9100	GORK	3	S	0631.8	0632.0	.8	23.0	12.0		
	3750	TYKW	5	S	0631.9	0632.0	0.7	5.0	1.5		
	17000	NOBE	1	S	0631.9	0632.0	.5	32.0			R
	9400	TYKW	30	PBI	0633.0		45.0	3.0	1.5		
	9400	TYKW	45	C	0634.0	0639.5	9.0	6.0	2.0		
	15000	KISV	20	GRF	0645.0	0647.3	20.0	9.0			
	6100	KISV	1	S	0645.3	0647.4	9.0	26.0			
	9400	TYKW	5	S	0646.0	0647.4	3.0	13.0	5.0		
	3750	TYKW	5	S	0646.0	0647.5	8.0	8.0	2.0		
	4995	ATHN	20	GRF	0646.0	0647.5	5.0	23.0			QL=6 ST=2 TYP=2
	9100	GORK	1	S	0646.7	0647.4	1.8	10.0	5.0		
	4995	LEAR	8	S	0647.0	0647.3	.8	20.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0647.1	0647.3	.4	15.0			QL=6 ST=2 TYP=3
	9400	TYKW	29	PBI	0649.0		9.0	5.0	2.0		
	410	LEAR	47	GB	0650.8	0651.0	.3	110.0			QL=6 ST=2 TYP=5
	1415	ATHN	20	GRF	0734.1E	0747.0	28.5D	27.0			QL=5 ST=2 TYP=2
	100	HIRA	42	SER	0749.3	0749.5	7.3	8900.0U			SUNSET
	200	GORK	4	S/F	0749.8	0750.1	3.1	240.0			
	100	GORK	46	C	0749.9	0750.0U	1.5	15000.0			
	113	POTS	4	S/F	0749.9	0750.0	6.0	7000.0	1400.0		III
	100	GORK			0749.9	0750.5		1170.0			
	650	GORK	20	GRF	0755.0	0828.8U	62.4	6.0	3.0		
	1415	ATHN	4	S/F	0816.8	0820.5	19.7	16.0			QL=6 ST=2 TYP=3
	410	LEAR	49	GB	0817.3	0817.6	2.5	540.0			QL=6 ST=2 TYP=6
	430	KRAK	41	F	0818.5	0819.5	2.0	65.0			
	245	LEAR	47	GB	0818.8	0819.1	.5	230.0			QL=6 ST=2 TYP=5
	6100	KISV	1	S	0832.8	0833.2	1.0	6.0			
	650	GORK	20	GRF	0907.6	1058.5	172.0D	16.0	8.0		
	430	KRAK	42	SER	0921.0	0921.0	49.0	19.0			
	430	KRAK			0921.0	0927.0		150.0			
	430	KRAK			0921.0	0935.5		72.0			
	430	KRAK			0921.0	1010.0		38.0			
	410	LEAR	47	GB	0927.1	0927.1	.4	160.0			QL=6 ST=2 TYP=5
	536	ONDR	8	S	0928.0	0928.5	.7	7.0			
	410	LEAR	47	GB	0935.1	0935.1	.4	119.0			QL=6 ST=2 TYP=5
	9100	GORK	20	GRF	1000.0	1009.0	43.0	10.0			
	6100	KISV	21	GRF	1002.0	1008.8	21.0	8.0			
	536	ONDR	40	F	1005.5	1008.5	15.0	12.0			
	15000	KISV	1	S	1026.0	1026.3	2.0	12.0			
	6100	KISV	1	S	1045.4	1047.6	7.0	6.0			
	536	ONDR	40	F	1056.0	1101.8	5.8	19.0			
	100	GORK	46	C	1056.5	1057.5	3.0	1250.0			
	100	GORK			1056.5	1059.0		200.0			
	113	POTS	41	F	1056.7	1056.9	4.5	3500.0	90.0		III
	204	IZMI	5	S	1057.0	1057.1	.4	270.0	140.0		
	430	KRAK	8	S	1100.5	1100.5	.2	30.0			
	9400	HUAN	2	S/F	1214.4	1215.3	2.7	11.2	4.3		0
	9400	HUAN	2	S/F	1221.2	1222.8	3.7	14.0	4.0		0
	9400	HUAN	29	PBI	1224.9	1224.9	18.3	2.8	1.7		0
	536	ONDR	40	F	1231.5	1232.0	11.5	6.0			
	113	POTS	42	SER	1318.2	1320.8	2.6	800.0	12.0		III/V
	410	SGMR	47	GB	1342.5	1342.6	.8	50.0			QL=6 ST=2 TYP=5
	410	SGMR	47	GB	1347.6	1353.5	6.9	330.0			QL=6 ST=2 TYP=5
	1470	POTS	4	S/F	1351.5	1351.8	1.5	6.0			
	8800	ATHN	4	S/F	1420.0	1423.8	7.6	49.0			QL=6 ST=2 TYP=3
	1415	ATHN	4	S/F	1420.6	1425.3	7.7	34.0			QL=6 ST=2 TYP=3
	2800	OTTA	46F	C	1421.0	1423.8	8.0	32.0	12.0		
	410	SGMR	47	GB	1421.5	1421.8	9.0	68.0			QL=6 ST=2 TYP=5

SOLAR RADIO EMISSION
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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
11	8400	BERN	4	S/F	1421.5	1423.5	34.0	62.0			
	3100	BERN	46	C	1421.5	1423.6	34.0	43.0			
	5200	BERN	46	C	1421.5	1423.6	34.0	90.0			
	11800	BERN	4	S/F	1421.5	1423.6	34.0	28.0			
	245	SGMR	47	GB	1422.0	1429.8	8.5	150.0			QL=6 ST=2 TYP=5
	1415	SGMR	47	GB	1422.1	1423.6	4.7	48.0			QL=6 ST=2 TYP=5
	9400	HUAN	4	S/F	1422.1	1423.7	5.1	30.8	15.2		R
	4995	ATHN	4	S/F	1422.5	1423.6	4.3	45.0			QL=6 ST=2 TYP=3
	4995	SGMR	47	GB	1422.6	1423.6	3.5	55.0			QL=6 ST=2 TYP=5
	8800	SGMR	47	GB	1422.6	1423.6	6.0	56.0			QL=6 ST=2 TYP=5
	113	POTS	4	S/F	1423.0	1423.1	.2	200.0	30.0		III
	2695	SGMR	4	S/F	1423.1	1423.6	2.5	30.0			QL=6 ST=2 TYP=3
	610	SGMR	4	S/F	1423.5	1423.6	3.3	36.0			QL=6 ST=2 TYP=3
	15400	SGMR	8	S	1423.6	1425.1	1.5	23.0			QL=6 ST=2 TYP=3
	9400	HUAN	29	PBI	1427.2	1427.2	22.6	7.0	4.2		R
	2800	OTTA	29	PBI	1429.0	1429.0	20.0	6.4	1.8		
	410	SGMR	47	GB	1445.0	1445.1	.3	270.0			QL=6 ST=2 TYP=5
	2695	SGMR	8	S	1448.8	1449.0	.5	34.0			QL=6 ST=2 TYP=3
	2695	SGMR	8	S	1454.8	1454.8	.5	23.0			QL=6 ST=2 TYP=3
	2800	OTTA	20	GRF	1500.0	1510.0	65.0	2.6	1.3		
	2695	SGMR	47	GB	1511.8	1512.0	.3	73.0			QL=6 ST=2 TYP=5
	410	SGMR	47	GB	1532.8	1533.0	.3	78.0			QL=6 ST=2 TYP=5
	9400	HUAN	1	S	1534.4	1536.0	6.1	5.6	3.0		0
	410	SGMR	47	GB	1558.8	1601.3	2.8	290.0			QL=6 ST=2 TYP=5
	2800	OTTA	20	GRF	1645.0	1730.0	115.0	3.2	1.8		
	9400	HUAN	20	GRF	1738.0	1804.5	51.7	4.2	2.2		0
	2800	OTTA	32	ABS	1945.0	2000.0	35.0	-2.0	-1.0		
	9400	HUAN	20	GRF	1945.0	1954.8	19.2	2.8	1.9		0
	610	PALE	47	GB	2017.0	2018.8	2.1	84.0			QL=6 ST=2 TYP=5
	2800	OTTA	21	GRF	2020.0	2220.0	200.0D	8.0			
	9400	HUAN	20	GRF	2023.2	2109.0	45.8U	14.0	8.5		0
	2800	OTTA	40	F	2026.0	2027.2	11.0	2.2			
	100	HIRA	27	RF	2241.0	2342.0	176.0	90.0	16.0		
	3750	TYKW	45	C	2246.0	2250.3	15.0	23.0	6.0		
	2000	TYKW	45	C	2247.0	2250.3	14.0	46.0	5.0		
	9400	TYKW	45	C	2247.0	2250.3	13.0	38.0	8.0		RAIN
	2695	PENT	40	F	2248.0	2250.2	21.0	33.0			
	9400	HUAN	4	S/F	2248.3	2250.2	2.8	39.1	12.4		0
	8800	PALE	47	GB	2248.6	2250.1	6.4	55.0			QL=6 ST=2 TYP=5
	1000	TYKW	45	C	2249.0	2253.8	15.0	60.0	8.0		
	100	HIRA	42	SER	2249.0	2249.4	5.3	1700.0			
	200	HIRA	46	C	2249.0	2249.7	1.4	330.0	57.0		0
	245	LEAR	47	GB	2249.1	2249.3	1.7	82.0			QL=5 ST=2 TYP=5
	15400	PALE	8	S	2249.3	2250.1	1.8	35.0			QL=6 ST=2 TYP=3
	500	HIRA	8	S	2249.4	2250.0	.6	8.0			0
	4995	PALE	8	S	2249.5	2250.1	1.1	25.0			QL=6 ST=2 TYP=3
	1415	PALE	49	GB	2249.6	2250.0	1.4	850.0			QL=6 ST=2 TYP=6
	1415	LEAR	49	GB	2249.8	2250.0	1.0	840.0			QL=5 ST=2 TYP=6
	245	PALE	47	GB	2249.8	2250.1	.7	71.0			QL=6 ST=2 TYP=5
	4995	LEAR	8	S	2249.8	2250.3	1.0	28.0			QL=5 ST=2 TYP=3
	8800	LEAR	47	GB	2249.8	2250.3	1.0	50.0			QL=5 ST=2 TYP=5
	2695	LEAR	8	S	2249.8	2250.3	1.0	48.0			QL=2 ST=2 TYP=3
	2695	PALE	8	S	2249.8	2250.3	.8	30.0			QL=6 ST=2 TYP=3
	610	LEAR	47	GB	2250.8	2254.0	14.3	260.0			QL=6 ST=2 TYP=5
	500	HIRA	45	C	2251.6	2254.1	17.0	50.0	20.0		WL
	610	PALE	47	GB	2251.8	2252.0	10.0	13.0			QL=6 ST=2 TYP=5
	410	LEAR	4	S/F	2253.3	2257.8	9.3	20.0			QL=6 ST=2 TYP=3
	200	HIRA	27	RF	2257.0	2319.0	130.0	12.0	3.0		WR
	9400	TYKW	29	PBI	2300.0		20.0	6.0	3.0		
	2000	TYKW	30	PBI	2301.0		25.0	2.0	1.0		
	3750	TYKW	30	PBI	2301.0		90.0	5.0	2.5		
	2000	TYKW	5	S	2301.8	2302.0	0.5	3.0	1.0		
	2000	TYKW	5	S	2305.0	2305.2	0.7	10.0	2.0		
	2000	TYKW	5	S	2307.0	2308.0	2.5	9.0	3.0		
	200	HIRA	46	C	2307.0	2307.7	2.7	1500.0	114.0		WL
	100	HIRA	46	C	2307.0	2308.0	3.0	2300.0	420.0		
	245	LEAR	49	GB	2307.8	2307.8	1.0	1699.0			QL=6 ST=2 TYP=6
	245	PALE	49	GB	2307.8	2307.8	.8	1800.0			QL=6 ST=2 TYP=6
	410	PALE	49	GB	2315.3	2315.6	.7	1500.0			QL=6 ST=2 TYP=6
	3750	TYKW	21	GRF	2320.0	2330.0	50.0	2.0	1.0		
	9400	TYKW	45	C	2320.5	2321.5	3.5	50.0	10.0		

SOLAR RADIO EMISSION
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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
11	3750	TYKW	45	C	2321.0	2321.5	4.0	5.0	1.0		
	8800	LEAR	4	S/F	2321.0	2321.1	2.3	38.0			QL=6 ST=2 TYP=3
	15400	LEAR	47	GB	2321.1	2321.5	1.0	80.0			QL=6 ST=2 TYP=5
	8800	PALE	8	S	2321.3	2321.3	1.3	47.0			QL=6 ST=2 TYP=3
	15400	PALE	47	GB	2321.3	2321.5	.5	89.0			QL=6 ST=2 TYP=5
	17000	NOBE	1	S	2321.4	2321.5	.6	60.0			R
	9400	TYKW	29	PBI	2324.0		25.0	4.0	2.0		
	100	HIRA	42	SER	2331.8	2336.0	4.3	820.0			
	200	HIRA	42	SER	2335.5	2336.0	2.6	43.0			WL
	500	HIRA	8	S	2336.0	2336.3	.4	18.0			WL
	200	HIRA	42	SER	2348.8	2349.6	3.7	165.0			WL
	245	LEAR	47	GB	2348.8	2350.1	4.0	66.0			QL=6 ST=2 TYP=5
12	245	LEAR	43	NS	0530.0	0606.5	318.0D	58.0			QL=6 ST=2 TYP=1
	200	GORK	44	NS	0600.0E		60.0D		10.0		
	204	IZMI	43	NS	0700.0		300.0	20.0			
	100	GORK	43	NS	0730.0		270.0		5.0		
	127	TORN	43	NS	0736.0		444.0		3.0		V=1,DISTURBED
	260	ONDR	44	NS	0900.0E		313.0D	8.0			
	245	SGMR	43	NS	1540.0	1717.8	368.0D	110.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1740.0	1808.1	615.0D	67.0			QL=6 ST=2 TYP=1
	200	HIRA	44	NS	2129.0E		630.0D		8.0U		WR
	245	LEAR	43	NS	2229.0	0121.6	739.0D	21.0			QL=6 ST=2 TYP=1
	9400	TYKW	5	S	0014.0	0015.4	3.0	90.0	15.0		
	3750	TYKW	5	S	0014.0	0015.4	4.0	6.0	2.0		
	8800	LEAR	47	GB	0015.0	0015.3	.8	93.0			QL=6 ST=2 TYP=5
	8800	PALE	47	GB	0015.0	0015.3	.8	110.0			QL=6 ST=2 TYP=5
	15400	PALE	8	S	0015.1	0015.3	.5	40.0			QL=6 ST=2 TYP=3
	15400	LEAR	8	S	0015.1	0015.3	.7	35.0			QL=6 ST=2 TYP=3
	17000	NOBE	1	S	0015.1	0015.3	1.0	27.0			R
	4995	PALE	8	S	0015.1	0015.3	.4	11.0			QL=6 ST=2 TYP=3
	4995	LEAR	8	S	0015.1	0015.3	.5	16.0			QL=6 ST=2 TYP=3
	9400	TYKW	29	PBI	0017.0		15.0	6.0	3.0		
	3750	TYKW	20	GRF	0050.0	0100.0	50.0	1.5	0.7		
	245	LEAR	8	S	0201.8	0202.1	1.3	15.0			QL=6 ST=2 TYP=3
	200	HIRA	42	SER	0201.8	0205.0	3.7	51.0			WL
	245	LEAR	8	S	0204.5	0205.1	1.1	15.0			QL=6 ST=2 TYP=3
	410	LEAR	47	GB	0204.5	0205.1	1.1	50.0			QL=6 ST=2 TYP=5
	410	PALE	8	S	0205.1	0205.1	.4	43.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0225.0	0225.8	2.0	15.0	4.0		
	3750	TYKW	5	S	0225.5	0225.8	2.5	8.0	1.5		
	9400	TYKW	29	PBI	0227.0		4.0	2.0	1.0		
	2000	TYKW	20	GRF	0230.0	0253.0	50.0	1.5	0.7		
	9400	TYKW	21	GRF	0233.0	0235.0	35.0	3.0	1.5		
	9400	TYKW	5	S	0244.0	0245.2	5.0	4.0	1.5		
	100	HIRA	41	F	0259.0	0300.7	5.3	1300.0			
	245	LEAR	8	S	0312.1	0312.1	.2	43.0			QL=6 ST=2 TYP=3
	9400	TYKW	45	C	0315.0	0317.3	6.0	10.0	3.0		
	9400	TYKW	21	GRF	0315.0	0407.0	110.0	6.0	3.0		
	3750	TYKW	5	S	0317.0	0317.4	1.0	1.5	0.5		
	3750	TYKW	21	GRF	0328.0	0410.0	180.0	3.0	1.5		
	2000	TYKW	21	GRF	0335.0	0412.0	150.0	1.5	0.7		
	9400	TYKW	5	S	0352.0	0352.3	2.0	4.0	1.5		
	9400	TYKW	5	S	0358.0	0358.3	1.5	3.0	1.0		
	3750	TYKW	5	S	0404.5	0406.0	3.5	1.0	0.3		
	3750	TYKW	5	S	0446.0	0447.0	15.0	1.0	0.3		
	500	HIRA	42	SER	0506.0	0507.0	9.0	4.0			0
	245	LEAR	47	GB	0506.1	0509.1	3.4	52.0			QL=6 ST=2 TYP=5
	410	LEAR	4	S/F	0506.8	0507.3	3.7	9.0			QL=6 ST=2 TYP=3
	3750	TYKW	21	GRF	0508.0	0511.0	75.0	1.0	0.5		
	2000	TYKW	21	GRF	0508.0	0526.0	50.0	2.0	1.0		
	2000	TYKW	5	S	0509.0	0510.5	4.0	1.5	0.5		
	1000	TYKW	45	C	0509.0	0511.0	13.0	6.0	1.0		
	9400	TYKW	20	GRF	0519.0	0521.0	65.0	4.0	2.0		
	3750	TYKW	45	C	0519.0	0521.3	3.0	4.0	2.0		
	2000	TYKW	45	C	0520.0	0521.3	2.0	2.0	0.7		
	3750	TYKW	29	PBI	0522.0		50.0	2.0	1.0		
	650	GORK	20	GRF	0850.1	1108.1	190.0D	9.0	4.5		
	11800	BERN	3	S	0914.5	0915.8	20.0U	45.0			
	8400	BERN	3	S	0914.5	0915.8	20.0U	76.0			
	5200	BERN	3	S	0914.5	0915.8	20.0U	100.0			

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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
12	6100	KISV	4	S/F	0914.5	0915.9	2.0	68.0			
	3100	BERN	3	S	0914.5	0915.9	20.0U	42.0			
	9100	GORK	23	GRF	0914.5	0916.6	32.0	14.0	7.0		
	15000	KISV	1	S	0915.0	0915.8	2.0	25.0			
	810	KRAK	8	S	0915.0	0915.0	.4	42.0			
	9500	POTS	3	S	0915.0	0916.0	2.5	36.0			
	9100	GORK	3	S	0915.2	0915.8	1.3	43.0	20.0		
	2950	GORK	3	S	0915.2	0916.0	1.2	20.0	10.0		
	2695	LEAR	8	S	0915.3	0915.8	1.2	33.0			QL=6 ST=2 TYP=3
	1415	LEAR	8	S	0915.3	0915.8	1.8	11.0			QL=6 ST=2 TYP=3
	4995	LEAR	47	GB	0915.3	0915.8	1.5	72.0			QL=6 ST=2 TYP=5
	8800	LEAR	47	GB	0915.3	0915.8	1.5	56.0			QL=6 ST=2 TYP=5
	950	GORK	4	S/F	0915.4	0915.6	1.0	195.0			
	1470	POTS	4	S/F	0915.5	0915.7	1.5	12.0			
	3000	POTS	3	S	0915.5	0916.0	1.5U	15.0			
	2950	GORK	29	PBI	0916.4	0916.4	26.0	5.3			
	6100	KISV	29	PBI	0916.5	0916.8	26.5	16.0			
	430	KRAK	8	S	0935.0	0935.0	.2	8.0			
	536	ONDR	40	F	0950.0	1030.0	42.0	15.0			
	9100	GORK	20	GRF	0955.0	1016.0U	33.0	5.0			
	29	UPIC	42	SER	0959.2	1025.2	51.6				
	33	UPIC	42	SER	0959.2	1050.5	51.5				
	430	KRAK	42	SER	1005.0	1035.5	86.0	24.0			
	6100	KISV	20	GRF	1007.0	1012.8	25.0	5.0			
	113	POTS	41	F	1024.7	1026.8	2.5	140.0	10.0		III
	113	POTS	4	S/F	1050.5	1050.6	.7	175.0	45.0		III
	9100	GORK	20	GRF	1145.8	1152.0	14.0D	4.0	2.0		
	430	KRAK	41	F	1204.5	1208.0	12.0	16.0			
	536	ONDR	40	F	1205.0	1224.0	52.0	4.0			
	2800	OTTA	21	GRF	1425.0	1500.0	185.0	9.6	4.8		
	4995	SGMR	8	S	1450.6	1452.6	2.0D	15.0			QL=6 ST=2 TYP=3
	2695	SGMR	4	S/F	1451.8	1453.6	2.5	22.0			QL=6 ST=2 TYP=3
	4995	SGMR	20	GRF	1456.1	1459.6	8.5	19.0			QL=6 ST=2 TYP=2
	2695	SGMR	4	S/F	1456.3	1458.0	4.2	22.0			QL=6 ST=2 TYP=3
	9400	HUAN	21	GRF	1500.7	1513.6	77.2	7.9	5.5		0
	9400	HUAN	45	C	1508.6	1509.6	2.8	203.9	57.1		R
	5200	BERN	46	C	1508.8	1509.6	5.0	247.0			
	11800	BERN	46	C	1508.8	1509.6	5.0	196.0			
	19600	BERN	46	C	1508.8	1509.6	5.0	68.0			
	3100	BERN	4	S/F	1508.8	1509.6	5.0	53.0			
	4995	SGMR	47	GB	1508.8	1509.6	2.5	200.0			QL=6 ST=2 TYP=5
	8400	BERN	46	C	1508.8	1509.6	5.0	323.0			
	8800	SGMR	47	GB	1508.8	1509.6	2.3	260.0			QL=6 ST=2 TYP=5
	2800	OTTA	4	S/F	1509.0	1509.7	6.0	23.6	5.6		
	15400	SGMR	47	GB	1509.0	1509.6	1.3	119.0			QL=6 ST=2 TYP=5
	2695	SGMR	8	S	1509.1	1509.6	.7	24.0			QL=6 ST=2 TYP=3
	9400	HUAN	1	S	1707.1	1708.7	4.0	5.3	2.8		0
	9400	HUAN	23	GRF	1803.0	1844.9U	72.8	9.3	5.0		0
	9400	HUAN	2	S/F	1824.2	1825.0	2.4	10.6	3.6		0
	2800	OTTA	1	S	1824.8	1825.1	2.0	6.8	2.6		
	2800	OTTA	20	GRF	2035.0	2125.0	140.0	2.2	1.1		
	3750	TYKW	45	C	2328.0	2328.7	2.0	5.0	1.5		
	9400	TYKW	5	S	2328.5	2328.7	2.0	16.0	3.0		
13	245	LEAR	43	NS	2229.0	0651.8	738.0D	27.0			QL=6 ST=2 TYP=1
	3750	TYKW	21	GRF	0040.0	0130.0	110.0	2.0	1.0		
	3750	TYKW	5	S	0134.0	0141.0	25.0	1.5	0.5		
	3750	TYKW	45	C	0303.0E	0303.7	10.0D	6.0	4.0D		
	3750	TYKW	29	PBI	0313.0		17.0	3.0	1.5		
	3750	TYKW	21	GRF	0355.0	0359.0	75.0	1.5	0.7		
	2000	TYKW	20	GRF	0410.0	0440.0	90.0	1.0	0.5		
	9400	TYKW	20	GRF	0438.0	0440.0	30.0	2.0	1.0		
	3750	TYKW	5	S	0438.0	0441.0	20.0	1.5	0.5		
	9100	GORK	20	GRF	0614.5	0815.0	367.0	18.0			
	410	LEAR	8	S	0616.1	0616.8	1.5	10.0			QL=6 ST=2 TYP=3
	245	LEAR	49	GB	0616.5	0616.8	.6	690.0			QL=6 ST=2 TYP=6
	650	GORK	22	GRF	0647.8	0657.0U	22.8	19.0	7.5		
	950	GORK	20	GRF	0648.0	0755.0	107.4	2.0	1.0		
	3750	TYKW	21	GRF	0656.0	0702.0	40.0	3.0	1.5		
	2950	GORK	21	GRF	0658.8	0709.0	35.0	4.4	2.0		
	6100	KISV	20	GRF	0659.0	0707.0	25.0	7.0			

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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
13	2000	TYKW	45	C	0704.5	0707.0	5.0	7.0	2.0		
	3750	TYKW	45	C	0706.0	0707.3	3.0	3.0	1.0		
	3100	CRIM	1	S	0706.0	0707.2	5.0	6.0	2.0		
	2950	GORK	1	S	0706.4	0706.7	1.7	4.4	2.0		
	2950	GORK	20	GRF	0748.0	0800.0	45.0	3.7	1.8		
	6100	KISV	20	GRF	0935.0	0944.0	20.0	5.0			
	650	GORK	21	GRF	0959.5U	1139.0U	150.0D	17.0	8.0		
	650	GORK	4	S/F	1006.1	1006.9U	1.7	12.0D			
	3100	CRIM	20	GRF	1017.0	1020.0	25.0	7.0	2.0		
	2950	GORK	20	GRF	1018.0	1021.0	12.7	4.4	2.0		
	3100	CRIM	26	FAL	1110.0	1250.0		10.0			
	2695	SGMR	47	GB	1402.5	1402.8	.6	60.0			QL=6 ST=2 TYP=5
	1415	SGMR	8	S	1402.6	1402.8	1.0	25.0			QL=6 ST=2 TYP=3
	2800	OTTA	22	GRF	1630.0	1635.0	15.0	2.8	0.9		
	2800	OTTA	260	FAL	1720.0	1750.0	30.0	-2.4	-1.2		
14	260	ONDR	44	NS	0810.0E		372.0D	38.0			
	127	TORN	43	NS	1022.0		218.0		1.0		V=1
	200	HIRA	44	NS	2127.0E	2220.0	100.0D	8.0	3.0		WL
	3750	TYKW	21	GRF	0045.0	0121.0	100.0	2.0	1.0		
	9400	TYKW	20	GRF	0133.0	0144.0	50.0	4.0	2.0		
	2000	TYKW	5	S	0137.0	0138.6	3.0	4.0	1.5		
	3750	TYKW	5	S	0137.0	0138.6	4.0	4.0	2.0		
	4995	LEAR	20	GRF	0137.0	0138.8	8.0	5.0			QL=6 ST=2 TYP=2
	8800	LEAR	20	GRF	0137.1	0144.6	12.9	6.0			QL=6 ST=2 TYP=2
	15400	LEAR	20	GRF	0138.6	0141.0	11.4	5.0			QL=6 ST=2 TYP=2
	2000	TYKW	29	PBI	0140.0		20.0	1.0	0.5		
	3750	TYKW	29	PBI	0141.0		25.0	2.0	1.0		
	3750	TYKW	20	GRF	0254.0	0329.0	140.0	6.0	3.0		
	2000	TYKW	20	GRF	0255.0	0329.0	170.0	4.0	2.0		
	1000	TYKW	20	GRF	0305.0	0400.0	150.0	2.0	1.0		
	9400	TYKW	20	GRF	0310.0	0329.0	80.0	3.0	1.5		
	650	GORK	20	GRF	0845.5	1034.2	224.5D	20.0			
	3100	CRIM	26	FAL	0850.0	0940.0		3.0			
	430	KRAK	7	C	1020.5	1020.5	4.0	19.0	4.0		
	430	KRAK			1020.5	1024.0		14.0			
	430	KRAK	45	C	1129.7	1132.2	10.0	280.0	70.0		
	15400	SGMR	8	S	1256.8	1256.8	.5	42.0			QL=6 ST=3 TYP=3
	8800	SGMR	8	S	1256.8	1257.1	.3	21.0			QL=6 ST=3 TYP=3
	2800	OTTA	20	GRF	1505.0	1645.0	300.0	6.2	2.9		
	2800	OTTA	260	FAL	2030.0	2100.0	30.0	-2.8	-1.4		
	9400	TYKW	5	S	2333.0	2334.0	6.0	4.0	1.5		
	3750	TYKW	5	S	2333.0	2334.0	5.0	2.0	0.7		
	17000	NOBE	1	S	2348.8	2350.1	2.8	29.0			L
15	2000	TYKW	20	GRF	0425.0	0505.0	120.0	1.5	0.7		
	3750	TYKW	20	GRF	0435.0	0505.0	125.0	3.0	1.5		
	430	KRAK	42	SER	0831.0	0833.7	141.0	48.0			
	430	KRAK			0831.0	0854.0		52.0			
	430	KRAK			0831.0	1046.6		50.0			
	245	LEAR	8	S	0840.3	0840.6	.8	21.0			QL=6 ST=2 TYP=3
	430	KRAK	45	C	1129.8	1131.8	5.0	21.0	9.0		
	2695	SGMR	4	S/F	1232.8	1235.6	3.3	18.0			QL=5 ST=2 TYP=3
	113	POTS	4	S/F	1426.9	1427.0	.2	100.0	20.0		
	2800	OTTA	1	S	1557.2	1558.0	1.2	1.8	0.9		
	245	LEAR	8	S	2328.8	2329.0	.3	25.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	2328.8	2329.0	.3	11.0			QL=6 ST=2 TYP=3
16	100	GORK	43	NS	0915.0		68.0		5.0		
	2000	TYKW	45	C	0223.0	0226.0	5.0	2.0	0.5		
	3750	TYKW	20	GRF	0223.0	0227.0	50.0	2.0	1.0		
	2000	TYKW	21	GRF	0223.0	0235.0	50.0	1.5	0.7		
	2000	TYKW	5	S	0420.0	0422.0	7.0	1.0	0.3		
	3750	TYKW	5	S	0420.0	0422.0	6.0	1.5	0.5		
	3750	TYKW	20	GRF	0530.0	0604.0	120.0	2.0	1.0		
	2000	TYKW	20	GRF	0544.0	0549.0	40.0	1.5	0.5		
	245	LEAR	8	S	0641.6	0641.8	.2	11.0			QL=1 ST=2 TYP=3
	245	LEAR	8	S	0701.0	0701.1	.1	18.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0701.0	0701.1	.1	10.0			QL=6 ST=2 TYP=3
	950	GORK	21	GRF	0857.7	0904.0	48.3	11.0			
	8800	LEAR	4	S/F	0857.8	0859.6	4.5	19.0			QL=5 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
16	3000	IZMI	5	S	0858.0	0858.8	5.0	20.0	10.0		
	430	KRAK	45	C	0858.0	0859.0	9.5	290.0	25.0		
	810	KRAK	45	C	0858.0	0859.5	7.2	100.0	30.0		
	808	ONDR	46	C	0858.0	0859.5	7.0	86.0	33.0		
	3100	BERN	3	S	0858.0	0859.5	12.0	42.0			
	3100	CRIM	3	S	0858.0	0859.5	6.0	24.0	8.0		
	8400	BERN	3	S	0858.0	0859.7	6.0	25.0			
	5200	BERN	3	S	0858.0	0859.8	12.0	33.0			
	1470	POTS	4	S/F	0858.0	0859.8	7.0	40.0			
	234	POTS	45	C	0858.0	0901.0	12.0	4100.0	150.0		III
	113	POTS	49	GB	0858.0	0901.2	27.0	4200.0	60.0		III
	260	ONDR	46	C	0858.0	0901.5U	22.0	17.0	2.0		
	610	LEAR	49	GB	0858.1	0858.3	5.9	1399.0			QL=6 ST=2 TYP=6
	410	LEAR	49	GB	0858.1	0858.3	6.7	960.0			QL=6 ST=2 TYP=6
	245	LEAR	49	GB	0858.1	0859.3	10.7	250.0			QL=6 ST=3 TYP=6
	2950	GORK	3	S	0858.1	0859.5	3.5	20.0	10.0		
	100	GORK	47	GB	0858.1	0900.3	12.3	600.0			
	100	GORK			0858.1	0900.8		6000.0			
	650	GORK	4	S/F	0858.1	0901.0	4.5	55.0	26.0		
	100	GORK			0858.1	0912.2		7300.0			
	950	GORK	4	S/F	0858.2	0859.7	5.8	138.0			
	200	GORK	47	GB	0858.2	0902.3	31.0	1800.0D			
	2695	LEAR	4	S/F	0858.3	0859.6	6.2	40.0			QL=2 ST=2 TYP=3
	1415	LEAR	4	S/F	0858.3	0900.1	4.3	46.0			QL=6 ST=2 TYP=3
	29	UPIC	48	C	0858.4	0900.0	31.5				
	204	IZMI	45	C	0858.4	0901.6	26.0	4400.0	800.0		
	3000	POTS	3	S	0858.5	0859.5	6.5	21.0			
	33	UPIC	48	C	0858.5	0907.0	31.5				
	9100	GORK	1	S	0858.6	0859.5	4.0	12.0	5.0		
	9500	POTS	1	S	0858.8	0859.5	2.2	10.0			
	15400	LEAR	8	S	0859.1	0859.6	.7	18.0			QL=5 ST=2 TYP=3
	4995	LEAR	8	S	0859.1	0859.6	.7	19.0			QL=5 ST=2 TYP=3
	127	TORN	46	C	0900.6	0909.4	15.0	1800.0	130.0		
	2950	GORK	29	PBI	0901.6	0901.7	7.8	9.2			
	650	GORK	29	PBI	0902.6	0902.6	30.4	20.0	10.0		
	3100	CRIM	29	PBI	0904.0	0904.0	22.0	7.0	2.0		
	6100	KISV	4	S/F	0958.5	0959.5	7.0	16.0			
	430	KRAK	8	S	1130.5	1130.7	.8	9.0			
	430	KRAK	8	S	1205.5	1205.5	.4	11.0			
	9400	HUAN	21	GRF	1342.1	1352.5	16.8	2.6	1.3		R
	9400	HUAN	1	S	1343.9	1344.8	1.7	11.7	5.2		R
	9500	POTS	3	S	1344.0	1344.7	1.5	16.0			
	2800	OTTA	21	GRF	1645.0	1705.0	100.0	7.2	3.6		
	2800	OTTA	3	S	1654.0	1657.0	11.0	13.4	6.0		
	9400	HUAN	2	S/F	2156.4	2159.9	5.3	4.1	2.7		0
	3750	TYKW	5	S	2250.0	2258.0	25.0	2.0	1.0		
17	9400	TYKW	20	GRF	0052.0	0102.0	40.0	4.0	2.0		
	200	HIRA	8	S	0109.0	0109.0	.3	348.0			0
	3750	TYKW	21	GRF	0553.0	0630.0	115.0	7.0	4.0		
	9400	TYKW	20	GRF	0600.0	0630.0	110.0	6.0	3.0		
	410	LEAR	4	S/F	0600.8	0603.8	3.0	39.0			QL=6 ST=2 TYP=3
	3750	TYKW	45	C	0603.0E	0606.0	15.0D	5.0	2.0D		
	500	HIRA	6	S	0605.0	0605.6	1.0	2.0	1.0		0
	2950	GORK	1	S	0605.4	0606.0	1.4	4.6	2.3		
	9100	GORK	21	GRF	1010.3	1158.3	140.0D	30.0			
	6100	KISV	1	S	1010.5	1011.0	1.5	5.0			
	6100	KISV	28	PRE	1120.0	1143.0	25.0	4.0			
	6100	KISV	4	S/F	1145.0	1146.0	1.5	41.0U			
	9500	POTS	23	GRF	1145.0	1146.2	45.0U	10.0			
	9500	POTS	23	GRF	1145.0	1157.0	45.0	91.0			
	1470	POTS	23	GRF	1145.0	1157.2	55.0	2.5			
	2950	GORK	22	GRF	1145.3	1146.0	17.5	6.2	3.0		
	9100	GORK	3	S	1145.3	1146.1	1.2	48.0	24.0		
	3100	CRIM	1	S	1145.6	1146.0	1.0	6.0	2.0		
	15000	KISV	4	S/F	1145.8	1146.0	1.0	29.0			
	6100	KISV	29	PBI	1146.0	1146.7	15.0D	12.0			
	3100	CRIM	29	PBI	1146.6	1147.0	33.0	2.0	1.0		
	6100	KISV			1150.5	1153.0		28.0			
	6100	KISV	46	C	1150.5	1156.9	7.0	100.0			
	4995	ATHN	4	S/F	1151.1	1153.0	3.9	11.0			QL=6 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
17	8800	ATHN	4	S/F	1151.3	1152.3	2.7	18.0			QL=6 ST=2 TYP=3
	9100	GORK	1	S	1151.3	1152.9	3.1	20.0			
	15000	KISV	1	S	1151.5	1152.8	2.5	9.0			
	5200	BERN	3	S	1155.5	1157.5	7.0	57.0			ONLY PAPER RE
	4995	ATHN	4	S/F	1155.6	1157.1	2.9	33.0			QL=6 ST=2 TYP=3
	9400	HUAN	4	S/F	1155.6	1157.3	3.6	94.7	37.3		R
	15000	KISV			1155.8	1156.6		32.0			
	6100	KISV			1155.8	1156.6		60.0			
	6100	KISV			1155.8	1156.7		60.0			
	15000	KISV			1155.8	1156.9		58.0			
	8800	ATHN	47	GB	1155.8	1157.0	2.7	70.0			QL=6 ST=2 TYP=5
	9100	GORK	4	S/F	1155.8	1157.0	1.9	90.0	30.0		
	6100	KISV			1155.8	1157.1		90.0			
	15000	KISV	46	C	1155.8	1157.1	1.5	64.0			
	15000	KISV			1155.8	1157.2		59.0			
	6100	KISV	29	PBI	1158.0	1158.0	10.0D	20.0			
	2800	OTTA	20	GRF	1550.0	1610.0	75.0	2.2	1.7		
	9400	HUAN	20	GRF	1711.4	1721.7	14.2	5.6	2.8		0
	2800	OTTA	20	GRF	1735.0	1750.0	80.0	2.6	1.3		
	9400	HUAN	22	GRF	1737.2	1753.7	32.3	7.1	5.6		0
	9400	HUAN	20	GRF	1813.3	1842.1	44.8	7.8	5.7		0
	2695	PENT	47	GB	2221.0	2327.9	98.0	1920.0	384.0		
	2000	TYKW	47	GB	2222.0	2330.7	135.0	1060.0	160.0		
	3750	TYKW	47	GB	2223.0	2245.6	135.0	855.0	230.0		
	9400	TYKW	47	GB	2225.0	2244.1	135.0	1220.0	380.0		
	1000	TYKW	45	C	2225.0	2328.8	125.0	133.0	45.0		
	500	HIRA			2228.0	2249.6		39.0			WR
	500	HIRA	46	C	2228.0	2328.1	88.0	40.0	20.0		WL
	17000	NOBE	45	C	2229.8	2244.3	70.0	858.0			R
	2695	LEAR	49	GB	2231.3	2236.1	21.8	95.0			QL=2 ST=2 TYP=6
	4995	LEAR	49	GB	2231.5	2236.1	21.6	139.0			QL=5 ST=3 TYP=6
	410	PALE	47	GB	2233.8	2234.6	16.0	39.0			QL=6 ST=2 TYP=5
	1415	PALE	47	GB	2233.8	2235.3	16.0	42.0			QL=6 ST=2 TYP=5
	2695	PALE	49	GB	2233.8	2235.3	16.0	93.0			QL=6 ST=2 TYP=6
	610	PALE	47	GB	2233.8	2235.3	16.0	23.0			QL=6 ST=2 TYP=5
	15400	PALE	49	GB	2233.8	2235.3	16.0	119.0			QL=6 ST=2 TYP=6
	4995	PALE	49	GB	2233.8	2235.3	16.0	119.0			QL=6 ST=2 TYP=6
	8800	PALE	49	GB	2234.5	2235.3	15.3	160.0			QL=6 ST=2 TYP=6
	8800	LEAR	49	GB	2234.6	2234.6	18.5	110.0			QL=5 ST=3 TYP=6
	200	HIRA			2235.0	2237.3		48.0			0
	200	HIRA			2235.0	2253.0		45.0			WL
	200	HIRA	46	C	2235.0	2331.0	76.0	77.0	14.0		0
	245	PALE	47	GB	2235.0	2235.6	4.6	71.0			QL=6 ST=2 TYP=5
	245	LEAR	47	GB	2235.1	2235.6	3.2	66.0			QL=5 ST=2 TYP=5
	610	LEAR	47	GB	2239.5	2250.0	70.6	68.0			QL=5 ST=2 TYP=5
	100	HIRA			2241.0	2244.0		550.0			
	100	HIRA	46	C	2241.0	2256.3	40.0	810.0	200.0		
	15400	LEAR	47	GB	2241.1	2243.6	12.0	320.0			QL=5 ST=3 TYP=5
	1415	LEAR	47	GB	2242.6	2244.6	10.5	72.0			QL=5 ST=2 TYP=5
	410	LEAR	4	S/F	2243.8	2245.6	9.3	22.0			QL=5 ST=2 TYP=3
	410	PALE	47	GB	2249.8	2249.8	8.7	90.0			QL=6 ST=2 TYP=5
	1415	PALE	47	GB	2249.8	2250.8	20.8	160.0			QL=6 ST=2 TYP=5
	2695	PALE	49	GB	2249.8	2252.6	20.8	480.0			QL=6 ST=2 TYP=6
	15400	PALE	49	GB	2249.8	2254.3	20.8	620.0			QL=6 ST=2 TYP=6
	8800	PALE	49	GB	2249.8	2308.5	20.8	480.0			QL=6 ST=3 TYP=6
	610	PALE	4	S/F	2249.8	2309.6	20.8	39.0			QL=6 ST=2 TYP=3
	4995	PALE	49	GB	2249.8	2309.8	20.8	570.0			QL=6 ST=2 TYP=6
	410	LEAR	4	S/F	2253.1	2253.3	4.2	44.0			QL=5 ST=2 TYP=3
	8800	LEAR	49	GB	2253.1	2254.3	18.9	540.0			QL=5 ST=2 TYP=6
	15400	LEAR	47	GB	2253.1	2254.3	5.2	160.0			QL=5 ST=2 TYP=5
	4995	LEAR	49	GB	2253.1	2256.1	18.9	630.0			QL=5 ST=3 TYP=6
	2695	LEAR	49	GB	2253.1	2256.1	18.9	600.0			QL=2 ST=2 TYP=6
	1415	LEAR	47	GB	2253.1	2256.3	18.9	110.0			QL=5 ST=2 TYP=5
	2695	PALE	49	GB	2310.6	2310.8	17.4	560.0			QL=6 ST=2 TYP=6
	4995	PALE	49	GB	2310.6	2310.8	17.4	450.0			QL=6 ST=3 TYP=6
	8800	PALE	49	GB	2310.6	2310.8	17.4	480.0			QL=6 ST=3 TYP=6
	1415	PALE	47	GB	2310.6	2310.8	17.4	290.0			QL=6 ST=2 TYP=5
	610	PALE	47	GB	2310.6	2310.8	17.4	39.0			QL=6 ST=2 TYP=5
	15400	PALE	47	GB	2310.6	2310.8	17.4	320.0			QL=6 ST=2 TYP=5
	1415	LEAR	47	GB	2312.0	2312.1	13.3	180.0			QL=5 ST=2 TYP=5
	2695	LEAR	49	GB	2312.0	2312.1	13.3	620.0			QL=2 ST=2 TYP=6

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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
17	4995	LEAR	47	GB	2312.0	2325.1	13.3	300.0			QL=5 ST=3 TYP=5
	15400	LEAR	4	S/F	2312.6	2312.6	12.7	28.0			QL=5 ST=3 TYP=3
	410	LEAR	4	S/F	2319.8	2322.0	5.5	24.0			QL=5 ST=2 TYP=3
	245	LEAR	47	GB	2320.1	2321.8	5.2	29.0			QL=5 ST=2 TYP=5
	245	PALE	47	GB	2320.3	2323.8	7.7	89.0			QL=6 ST=2 TYP=5
	4995	LEAR	47	GB	2325.3	2325.6	40.5	350.0			QL=5 ST=3 TYP=5
	8800	LEAR	47	GB	2325.3	2325.6	40.5	239.0			QL=5 ST=3 TYP=5
	1415	LEAR	47	GB	2325.3	2326.1	22.3	210.0			QL=5 ST=2 TYP=5
	15400	LEAR	4	S/F	2325.3	2326.3	7.3	38.0			QL=5 ST=3 TYP=3
	410	LEAR	4	S/F	2325.3	2328.6	10.5	45.0			QL=5 ST=2 TYP=3
	2695	LEAR	49	GB	2325.3	2331.0	40.5	970.0			QL=2 ST=2 TYP=6
	245	LEAR	47	GB	2325.3	2332.3	9.8	96.0			QL=5 ST=2 TYP=5
	4995	PALE	47	GB	2328.0	2328.1	43.3	330.0			QL=6 ST=2 TYP=5
	610	PALE	47	GB	2328.0	2328.5	20.8	81.0			QL=6 ST=2 TYP=5
	2695	PALE	49	GB	2328.0	2331.0	43.3	820.0			QL=6 ST=2 TYP=6
	1415	PALE	47	GB	2328.0	2331.5	43.3	320.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	2328.0	2332.1	6.3	91.0			QL=6 ST=2 TYP=5
	17000	NOBE	30	PBI	2339.8	2339.8	60.0	62.0			R
	2695	PENT	29	PBI	2359.0	2359.0	30.0	70.0			
18	500	HIRA	46	C	0007.0	0010.4	30.0	8.0	3.0		WL
	17000	NOBE	1	S	0024.9	0025.0	.3	9.0			O
	1000	TYKW	29	PBI	0030.0		60.0	10.0	5.0		
	2000	TYKW	30	PBI	0037.0		360.0	30.0	10.0		
	3750	TYKW	30	PBI	0038.0		440.0	52.0	20.0		
	9400	TYKW	30	PBI	0040.0		340.0	43.0	14.0		
	3750	TYKW	45	C	0043.0	0044.6	17.0	23.0	4.0		
	9400	TYKW	5	S	0043.5	0044.5	1.5	50.0	20.0		
	2000	TYKW	5	S	0044.0	0044.6	2.0	6.0	2.0		
	8800	LEAR	47	GB	0044.1	0044.5	1.7	52.0			QL=6 ST=2 TYP=5
	4995	LEAR	4	S/F	0044.1	0044.5	8.5	30.0			QL=6 ST=2 TYP=3
	15400	LEAR	8	S	0044.3	0044.5	.8	17.0			QL=6 ST=2 TYP=3
	2695	LEAR	8	S	0044.3	0044.6	1.5	17.0			QL=2 ST=2 TYP=3
	17000	NOBE	1	S	0044.3	0044.6	.8	15.0			R
	9400	TYKW	30	PBI	0045.0		20.0	4.0	2.0		
	2000	TYKW	29	PBI	0046.0		8.0	1.5	0.7		
	9400	TYKW	5	S	0051.0	0051.5	2.0	8.0	2.0		
	1415	PALE	47	GB	0054.6	0054.6	3.4	330.0			QL=6 ST=2 TYP=5
	2695	PALE	49	GB	0054.6	0054.6	28.2	820.0			QL=6 ST=2 TYP=6
	4995	PALE	49	GB	0054.6	0054.6	28.2	1000.0			QL=6 ST=2 TYP=6
	8800	PALE	49	GB	0054.6	0054.6	28.2	480.0			QL=6 ST=2 TYP=6
	15400	PALE	49	GB	0054.6	0054.6	28.2	1100.0			QL=6 ST=2 TYP=6
	3750	TYKW	5	S	0111.0	0115.0	12.0	3.0	1.0		
	2000	TYKW	5	S	0111.5	0116.0	12.0	3.0	1.0		
	9400	TYKW	5	S	0140.5	0141.5	3.0	4.0	1.5		
	9400	TYKW	5	S	0202.3	0202.5	1.0	4.0	1.5		
	9400	TYKW	5	S	0204.0	0204.5	4.0	4.0	1.5		
	2695	LEAR	4	S/F	0239.3	0244.5	10.3	11.0			QL=2 ST=2 TYP=3
	2000	TYKW	5	S	0240.0	0245.0	16.0	2.5	1.0		
	9400	TYKW	31	ABS	0252.0	0400.0	180.0	-6.0	-3.0		
	3750	TYKW	31	ABS	0253.0	0325.0	180.0	-4.0	-2.0		
	2000	TYKW	31	ABS	0256.0	0330.0	165.0	-2.0	-1.0		
	9400	TYKW	5	S	0302.0	0302.4	2.0	4.0	1.5		
	100	HIRA	46	C	0519.7	0519.7	1.0	290.0	24.0		
	200	HIRA	8	S	0519.8	0519.9	.3	21.0			O
	245	LEAR	8	S	0519.8	0520.1	1.0	13.0			QL=6 ST=2 TYP=3
	9100	GORK	23	GRF	0524.0E	1037.8	380.0D	38.0			
	9100	GORK	1	S	0622.7	0623.7	4.6	9.0	5.0		
	9400	TYKW	5	S	0623.0	0623.7	3.0	8.0	2.0		
	4995	ATHN	4	S/F	0730.6	0736.3	13.0	15.0			QL=6 ST=2 TYP=3
	6100	KISV	20	GRF	0732.0	0738.5	11.0	7.0			
	9400	TYKW	45	C	0733.0	0747.2	25.0	24.0	6.0		
	9100	GORK	1	S	0733.0	0735.4	6.8	17.0	8.0		
	15000	KISV			0734.0	0734.4		8.0			
	15000	KISV	46	C	0734.0	0734.7	2.0	10.0			
	15000	KISV			0734.0	0735.4		10.0			
	8800	LEAR	8	S	0734.1	0735.3	1.5	17.0			QL=6 ST=2 TYP=3
	8800	ATHN	4	S/F	0734.3	0735.5	7.3	22.0			QL=6 ST=2 TYP=3
	100	HIRA	46	C	0741.8	0742.0	1.2	850.0	170.0		
	200	HIRA	42	SER	0741.9	0742.1	4.3	94.0			O
	100	GORK	46	C	0742.2	0742.5U	1.3	640.0			

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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
18	200	GORK	41	F	0742.2	0742.5	4.4	300.0			
	100	GORK			0742.2	0743.0		35.0			
	200	GORK			0742.2	0746.4		40.0			
	245	LEAR	8	S	0742.3	0742.5	.3	21.0			QL=6 ST=2 TYP=3
	204	IZMI	41	F	0742.3	0742.8	5.0	70.0			
	8800	ATHN	4	S/F	0745.1	0747.1	6.4	28.0			QL=6 ST=2 TYP=3
	15000	KISV	8	S	0745.3	0745.5	.7	11.0			
	8800	LEAR	4	S/F	0746.1	0747.1	2.7	19.0			QL=6 ST=2 TYP=3
	17000	NOBE	1	S	0746.3	0747.2	3.0	60.0			R
	9100	GORK	1	S	0746.4	0747.2	2.2	18.0	9.0		
	15000	KISV	46	C	0746.5	0747.2	2.0	51.0			
	15000	KISV			0746.5	0747.4		49.0			
	15000	KISV			0746.5	0747.8		32.0			
	15400	LEAR	47	GB	0746.8	0747.1	1.3	52.0			QL=6 ST=2 TYP=5
	6100	KISV	1	S	0747.0	0747.8	1.5	4.0			
	4995	ATHN	20	GRF	0758.8	0801.8	21.7	22.0			QL=6 ST=2 TYP=2
	8800	ATHN	47	GB	0813.1	0813.3	.9	50.0			QL=6 ST=2 TYP=5
	200	GORK	41	F	0925.5	0925.6	3.5	190.0			
	204	IZMI	41	F	0925.5	0925.6	4.0	60.0			
	100	GORK	41	F	0925.5	0925.9	3.9	200.0			
	100	GORK			0925.5	0928.3		400.0			
	200	GORK			0925.5	0928.7		60.0			
	430	KRAK	8	S	1019.2	1019.5	1.5	330.0D			
	430	KRAK	2	S/F	1030.8	1031.0	1.8	12.0	5.0		
	6100	KISV	20	GRF	1034.0	1037.5	30.0	8.0			
	9500	POTS	20	GRF	1034.0	1038.0	29.0	10.0			
	430	KRAK	2	S/F	1052.8	1053.8	1.2	10.0	3.0		
	9500	POTS	20	GRF	1140.7	1142.4	9.3	9.0			
	9100	GORK	1	S	1141.8	1142.4	1.1	5.0	3.0		
	9500	POTS	25	R	1234.0	1238.7	21.0	14.0			
	9400	HUAN	1	S	1237.0	1238.0	2.9	10.6	8.1		0
	9400	HUAN	29	PBI	1239.9	1239.9	15.6	4.5	1.7		0
	9400	HUAN	22	GRF	1310.2	1348.3	47.4	6.0	2.9		0
	2800	OTTA	20	GRF	1315.0	1330.0	55.0	3.4	2.1		
	9400	HUAN	21	GRF	1530.8	1612.3	65.9	11.3	4.5		0
	2800	OTTA	20	GRF	1540.0	1610.0	95.0	2.6	1.3		
	9400	HUAN	4	S/F	1606.1	1608.5	5.3	27.2	12.3		R
	8800	SGMR	4	S/F	1607.8	1608.8	2.5	29.0			QL=6 ST=2 TYP=3
	15400	SGMR	47	GB	1608.0	1608.3	1.3	53.0			QL=6 ST=2 TYP=5
	4995	SGMR	8	S	1608.8	1609.5	1.3	19.0			QL=6 ST=2 TYP=3
	9400	HUAN	21	GRF	1646.1	1657.0	22.4	4.5	1.5		0
	9400	HUAN	1	S	1653.8	1654.2	2.4	7.6	3.5		0
	2800	OTTA	27	RF	1725.0		205.0	2.6	2.3		
	2800	OTTA	24	R	1725.0	1735.0	10.0	2.6	1.3		
	2800	OTTA	24P	R	1735.0		185.0	2.6			
	9400	HUAN	23	GRF	1736.0	1819.5	61.7	9.8	7.4		0
	9400	HUAN	1	S	1821.7	1822.8	3.3	7.6	2.3		0
	9400	HUAN	21	GRF	1904.4	1934.0	48.7	6.0	3.2		0
	9400	HUAN	2	S/F	1938.6	1939.7	5.5	6.8	3.6		R
	2800	OTTA	26	FAL	2040.0	2050.0	10.0	-2.6	-1.0		
	9400	HUAN	22	GRF	2132.7	2146.6	39.3	8.3	3.2		0
	3750	TYKW	45	C	2237.0	2241.8	6.0	8.0	4.0		
	9400	TYKW	5	S	2238.0	2241.9	5.0	58.0	15.0		
	8800	PALE	47	GB	2241.0	2241.8	2.1	60.0			QL=6 ST=2 TYP=5
	9400	HUAN	4	S/F	2241.0	2242.0	6.6	45.3	11.6		R
	15400	PALE	47	GB	2241.3	2241.8	4.7	55.0			QL=6 ST=2 TYP=5
	17000	NOBE	1	S	2241.3	2241.9	1.5	42.0			R
	4995	PALE	8	S	2241.6	2241.8	.5	17.0			QL=6 ST=2 TYP=3
	9400	TYKW	30	PBI	2243.0		19.0	15.0	8.0		
	3750	TYKW	30	PBI	2243.0		17.0	4.0	2.0		
	2930	VORO	47	GB	2300.0	2328.0	28.0	569.0D			
	3750	TYKW	31	ABS	2300.0	2330.0	65.0	-2.0	-1.0		
	9400	TYKW	31	ABS	2302.0	2320.0	60.0	-8.0	-5.0		
	9400	TYKW	5	S	2340.5	2341.2	2.0	10.0	3.0		
	15400	PALE	8	S	2341.0	2341.1	.3	17.0			QL=6 ST=2 TYP=3
	17000	NOBE	1	S	2341.0	2341.2	.5	17.0			0
	9400	TYKW	5	S	2350.0	2351.0	4.0	3.0	1.0		
	1415	LEAR	8	S	2353.8	2354.1	.3	15.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	2358.8	2359.2	2.0	4.0	1.5		
19	9400	TYKW	5	S	0048.0	0050.0	10.0	2.0	1.0		

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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
19	2000	TYKW	20	GRF	0120.0	0203.0	130.0	1.5	0.7		
	9400	TYKW	5	S	0142.5	0143.5	3.5	3.0	1.0		
	15400	LEAR	8	S	0156.8	0157.0	.3	15.0			QL=6 ST=3 TYP=3
	9400	TYKW	5	S	0156.8	0157.3	1.2	10.0	4.0		
	17000	NOBE	1	S	0157.0	0157.2	1.0	16.0			0
	9400	TYKW	29	PBI	0158.0		8.0	2.0	1.0		
	3750	TYKW	5	S	0208.0	0210.8	15.0	1.5	0.5		
	200	HIRA	8	S	0214.5	0214.6	.3	92.0			0
	100	HIRA	8	S	0214.5	0214.7	.3	110.0			
	3750	TYKW	45	C	0231.0	0242.0	22.0	7.0	4.0		
	9400	TYKW	45	C	0233.0	0242.0	30.0	24.0	13.0		
	17000	NOBE	20	GRF	0239.7	0250.7	60.0	20.0			R
	8800	PALE	4	S/F	0240.3	0242.6	4.2	20.0			QL=6 ST=2 TYP=3
	15400	PALE	4	S/F	0241.3	0242.6	6.5	20.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	0247.8	0247.8	.3	20.0			QL=6 ST=2 TYP=3
	15400	PALE	20	GRF	0247.8	0247.8	7.2	26.0			QL=6 ST=2 TYP=2
	3750	TYKW	30	PBI	0253.0		20.0	3.0	1.5		
	9400	TYKW	30	PBI	0303.0		30.0	7.0	3.0		
	3750	TYKW	31	ABS	0313.0	0401.0	95.0	-4.0	-2.0		
	9400	TYKW	45	C	0319.5	0320.8	3.0	3.0	1.0		
	9400	TYKW	31	ABS	0333.0	0400.0	130.0	-8.0	-4.0		
	100	HIRA	42	SER	0336.5	0336.5	1.0	250.0			
	9100	GORK	21	GRF	0636.9	1006.5	309.0D	15.0	7.0		
	3750	TYKW	20	GRF	0700.0	0710.0	40.0	2.0	1.0		
	9400	TYKW	20	GRF	0715.0	0728.0	40.0	6.0	3.0		
	2950	GORK	20	GRF	0716.0	0803.0	270.0D	6.3			
	6100	KISV	20	GRF	0719.0	0726.6	20.0	5.0			
	15000	KISV	20	GRF	0720.0U	0726.0	22.0U	10.0			
	9100	GORK	1	S	0916.6	0917.0	.8	10.0	5.0		
	113	POTS	4	S/F	0951.3	0952.1	.9	120.0	10.0		
	100	GORK	8	S	0952.0	0952.3	1.1	600.0			
	204	IZMI	5	S	0952.1	0952.2	.2	55.0	30.0		
	200	GORK	4	S/F	0952.2	0952.3	.7	80.0			
	1470	POTS	20	GRF	1000.0	1022.5	30.0	2.0			
	3000	POTS	20	GRF	1002.0	1010.2	31.0	4.0			
	9500	POTS	20	GRF	1005.0	1006.7	5.0	7.0			
	9400	HUAN	1	S	1224.2	1225.0	2.0	6.2	3.5		0
	9500	POTS	4	S/F	1224.9	1225.0	.6	14.0			
	113	POTS	4	S/F	1237.6	1237.8	2.4	120.0	5.0		
	9400	HUAN	1	S	1248.4	1250.2	2.7	8.7	4.4		0
	9400	HUAN	29	PBI	1251.3	1251.3	14.9	3.7	3.3		0
	2800	OTTA	21	GRF	1310.0	1345.0	80.0	5.2	1.8		
	2800	OTTA	2	S/F	1337.0	1339.0	7.0	9.6	3.2		
	9400	HUAN	1	S	1337.8	1338.7	4.8	5.0	2.9		0
	9400	HUAN	2	S/F	1407.1	1408.6	3.5	19.9	9.0		R
	8800	SGMR	4	S/F	1407.3	1408.6	6.3	24.0			QL=6 ST=2 TYP=3
	9500	POTS	4	S/F	1408.0	1408.6	1.5	20.0			
	15400	SGMR	4	S/F	1408.0	1408.8	2.1	25.0			QL=6 ST=2 TYP=3
	9400	HUAN	29	PBI	1410.6	1410.6	19.4	5.0	3.2		0
	2800	OTTA	27A	RF	1540.0		185.0	2.6	2.5		
	2800	OTTA	24	R	1540.0	1545.0	5.0	2.6	1.3		
	2800	OTTA	24P	R	1545.0		170.0	2.6			
	9400	HUAN	22	GRF	1547.3	1602.1	24.5	6.8	1.7		0
	9400	HUAN	20	GRF	1616.6	1635.5	34.1	6.2	4.4		0
	9400	HUAN	20	GRF	1720.9	1730.8	20.3	3.1	1.6		0
	9400	HUAN	29	PBI	1755.6	1832.7	37.1	6.2	5.8		0
	2800	OTTA	22	GRF	1810.0	1812.0	15.0	4.8	2.2		
	9400	HUAN	2	S/F	1832.7	1833.7	4.5	16.2	6.8		0
	8800	SGMR	8	S	1833.1	1833.6	1.5	36.0			QL=6 ST=2 TYP=3
	4995	SGMR	4	S/F	1833.1	1833.6	3.0	16.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	1833.3	1833.6	.7	29.0			QL=6 ST=2 TYP=3
	4995	PALE	8	S	1833.5	1833.6	.3	11.0			QL=6 ST=2 TYP=3
	2800	OTTA	26	FAL	1835.0	1845.0	10.0	-2.6	-1.3		
	9400	HUAN	1	S	1930.7	1932.0	4.0	3.7	3.1		0
	9400	HUAN	2	S/F	2113.6	2114.5	5.8	6.2	2.0		R
	245	PALE	47	GB	2123.3	2123.8	1.8	52.0			QL=6 ST=2 TYP=5
	410	PALE	8	S	2123.5	2123.8	.6	18.0			QL=6 ST=2 TYP=3
	610	PALE	8	S	2123.6	2124.5	1.2	18.0			QL=6 ST=2 TYP=3
	9400	HUAN	2	S/F	2153.2	2156.5	6.2	8.7	5.0		R
	2695	PENT	20	GRF	2210.0	2217.5	30.0	5.4	1.8		
	9400	TYKW	5	S	2234.0	2235.1	5.0	8.0	3.0		

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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
19	200	HIRA	42	SER	2251.1	2254.6	5.3	77.0			0
	245	PALE	8	S	2255.6	2255.6	.4	41.0			QL=6 ST=2 TYP=3
	3750	TYKW	21	GRF	2300.0	2346.0	150.0	4.0	2.0		
	9400	TYKW	45	C	2359.0	0000.8	4.0	13.0	6.0		
	3750	TYKW	21	GRF	2359.0	0023.0	80.0	5.0	2.0D		
20	9400	TYKW	30	PBI	0003.0		90.0	6.0	3.0		
	9400	TYKW	45	C	0025.5	0026.7	3.0	70.0	10.0		
	2000	TYKW	5	S	0026.0	0026.7	2.0	6.0	1.5		
	245	LEAR	8	S	0027.1	0027.3	.7	15.0			QL=5 ST=2 TYP=3
	3750	TYKW	45	C	0030.0	0035.0	10.0	11.0	4.0		
	9400	TYKW	5	S	0031.0	0035.0	22.0	10.0	5.0		
	3750	TYKW	29	PBI	0040.0		20.0	2.0	1.0		
	9400	TYKW	5	S	0123.0	0123.4	2.0	18.0	4.0		
	8800	PALE	8	S	0123.3	0123.3	.3	16.0			QL=6 ST=3 TYP=3
	9400	TYKW	5	S	0139.0	0139.4	1.0	11.0	6.0		
	9400	TYKW	29	PBI	0140.0		40.0	2.0	1.0		
	3750	TYKW	21	GRF	0200.0	0259.0	220.0	5.0	2.0		
	2000	TYKW	20	GRF	0247.0	0259.0	70.0	3.0	1.0		
	100	HIRA	8	S	0257.7	0257.9	.3	240.0			
	100	HIRA	46	C	0416.6	0416.7	.8	4400.0	270.0		
	200	HIRA	8	S	0416.6	0416.8	.4	2400.0			0
	245	LEAR	47	GB	0416.8	0417.0	.5	110.0			QL=6 ST=2 TYP=5
	3750	TYKW	45	C	0428.0	0435.3	12.0	5.0	3.0		
	9400	TYKW	21	GRF	0430.0	0440.0	30.0	4.0	2.0		
	2000	TYKW	21	GRF	0430.0	0450.0	80.0	1.5	0.7		
	3750	TYKW	29	PBI	0440.0		20.0	3.0	1.5		
	9400	TYKW	5	S	0453.0	0453.7	3.0	3.0	1.0		
	2000	TYKW	5	S	0505.0	0509.0	25.0	2.0	0.7		
	3750	TYKW	5	S	0506.0	0509.0	15.0	2.0	1.0		
	3750	TYKW	20	GRF	0551.0	0604.0U	30.0	3.0	1.0D		
	9400	TYKW	5	S	0600.0	0601.7	3.0	20.0	10.0		
	6100	KISV	4	S/F	0600.0	0601.8	2.5	12.0			
	15000	KISV	4	S/F	0600.5	0601.5	2.0	32.0			
	15000	KISV	29	PBI	0600.5	0602.5	10.0	9.0			
	17000	NOBE	1	S	0600.7	0601.6	3.0	27.0			0
	9100	GORK	21	GRF	0602.0E	0950.2	389.0D	23.0	11.0		
	6100	KISV	29	PBI	0602.5	0602.5	20.0	5.0			
	9400	TYKW	29	PBI	0603.0		20.0	10.0	4.0		
	2950	GORK	21	GRF	0625.0	0803.0	300.0D	11.6			
	3750	TYKW	45	C	0640.0	0647.4	20.0	15.0	7.0		
	6100	KISV	45	C	0641.0	0647.0	10.0	35.0			
	9400	TYKW	45	C	0641.0	0647.0	13.0	53.0	20.0		
	6100	KISV			0641.0	0644.3		29.0			
	15000	KISV	21	GRF	0642.0	0647.0	30.0	30.0			
	9100	GORK	46	C	0642.5	0644.2	9.9	22.0			
	9100	GORK			0642.5	0647.0		46.0			
	2000	TYKW	45	C	0642.5	0647.7	8.5	112.0	13.0		
	8800	ATHN	4	S/F	0646.0	0647.0	5.3	45.0			QL=5 ST=3 TYP=3
	3100	CRIM	3	S	0646.0	0648.5	15.0	18.0	6.0		
	2695	ATHN	4	S/F	0646.3	0649.0	5.7	7.0			QL=5 ST=3 TYP=3
	100	HIRA	41	F	0647.1	0647.2	1.6	74.0			
	2000	TYKW	29	PBI	0651.0		60.0	5.0	2.5		
	6100	KISV	29	PBI	0651.0	0651.0	27.0	16.0			
	9400	TYKW	29	PBI	0654.0		50.0	14.0	7.0U		INTERFERENCE
	3100	CRIM	30	PBI	0655.0	0655.0	75.0	9.0	3.0		
	3750	TYKW	30	PBI	0700.0		30.0	4.0	2.0		
	3750	TYKW	5	S	0701.5	0702.3	2.5	2.0	0.7		
	500	HIRA	46	C	0743.0	0744.1	2.0	400.0	30.0		0
	430	KRAK	42	SER	0831.8	0846.5	26.0	30.0			
	430	KRAK			0831.8	0851.5		36.0			
	9100	GORK	1	S	0845.6	0846.2	.8	6.0	3.0		
	204	IZMI	41	F	0858.6	0859.8	1.5	70.0			
	3100	CRIM	25	R	0935.0	0950.0		5.0			
	810	KRAK	8	S	0936.8	0936.8	.2	10.0			
	3100	CRIM	1	S	0945.1	0945.5	2.0	3.0	1.0		
	6100	KISV	21	GRF	0946.0	0949.2U	10.0	8.0U			
	8800	ATHN	4	S/F	0948.3	0949.3	3.3	36.0			QL=6 ST=2 TYP=3
	15000	KISV			0948.6	0948.8		37.0			
	15000	KISV	45	C	0948.6	0949.4	2.0	53.0			
	9100	GORK	4	S/F	0948.7	0949.4	1.6	30.0	15.0		

SOLAR RADIO EMISSION
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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
20	15000	KISV	20	GRF	0953.0	0953.6	9.0	16.0			
	15000	KISV			0953.0	0956.0		13.0			
	4995	ATHN	4	S/F	1148.0	1148.3	2.1	37.0			QL=6 ST=2 TYP=3
	8800	ATHN	8	S	1148.1	1148.3	.5	23.0			QL=6 ST=2 TYP=3
	2695	ATHN	8	S	1148.3	1148.3	.3	11.0			QL=6 ST=2 TYP=3
	3100	BERN	3	S	1148.5	1149.5	10.0	42.0			ONLY PAPER RE
	5200	BERN	3	S	1148.5	1149.5	10.0	42.0			ONLY PAPER RE
	6100	KISV	45	C	1148.7	1149.4	3.0	49.0			
	6100	KISV			1148.7	1150.1		28.0			
	3100	CRIM	3	S	1148.8	1148.9	10.0	24.0	8.0		
	3000	POTS	29	PBI	1148.8	1149.3	11.0	19.0			
	9500	POTS	29	PBI	1148.8	1149.5	26.0	13.0			
	2950	GORK	1	S	1149.0	1149.3	1.9	15.4			
	9100	GORK	1	S	1149.0	1149.4	1.5	16.0	8.0		
	9400	HUAN	1	S	1224.6	1226.0	2.7	8.0	6.1		0
	9400	HUAN	29	PBI	1227.3	1227.3	20.0	5.4	0.5		0
	1470	POTS	8	S	1248.2	1248.4	.5	5.0			
	2800	OTTA	21	GRF	1305.0	1323.0	55.0	4.4	2.2		
	2800	OTTA	1	S	1311.0	1312.0	8.0	6.2	3.0		
	4995	SGMR	20	GRF	1311.8	1312.8	1.5	24.0			QL=6 ST=2 TYP=2
	4995	ATHN	4	S/F	1312.5	1313.6	3.5	19.0			QL=6 ST=2 TYP=3
	9400	HUAN	1	S	1339.0	1339.5	2.3	6.7	4.5		R
	9400	HUAN	29	PBI	1341.3	1341.3	24.2	4.7	3.7		0
	2800	OTTA	22	GRF	1420.0		75.0D	2.6			
	9400	HUAN	23	GRF	1544.8	1549.2	24.6	4.0	1.7		R
	9400	HUAN	2	S/F	1600.1	1601.4	3.5	13.4	7.2		R
	9400	HUAN			1600.1	1602.2		12.0			R
	2800	OTTA	1	S	1602.0	1602.5	1.0	2.2	1.4		
	4995	SGMR	4	S/F	1752.1	1755.1	14.7D	25.0			QL=5 ST=3 TYP=3
	2800	OTTA	21	GRF	1753.0	1820.0	145.0	4.6	2.3		
	1415	SGMR	8	S	1754.5	1754.6	.6D	27.0			QL=5 ST=3 TYP=3
	2800	OTTA	2	S/F	1754.5	1755.2	9.0	3.8	1.8		
	9400	HUAN	1	S	1924.3	1925.3	3.8	4.7	2.7		0
	2800	OTTA	1	S	1925.0	1925.3	2.0	4.8	1.8		
	4995	SGMR	8	S	1925.3	1925.3	.3	15.0			QL=6 ST=2 TYP=3
	8800	SGMR	8	S	1925.3	1925.3	.3	17.0			QL=6 ST=2 TYP=3
	245	PALE	8	S	2049.6	2049.6	.2	20.0			QL=6 ST=2 TYP=3
	410	PALE	47	GB	2050.0	2050.1	.3	450.0			QL=6 ST=2 TYP=5
	2695	PENT	21	GRF	2328.0	2340.0	35.0	8.2	4.1		
	3750	TYKW	21	GRF	2328.0	2345.0	115.0	8.0	4.0		
	2000	TYKW	21	GRF	2330.0	2345.0	120.0	8.0	3.5		
	9400	TYKW	5	S	2331.5	2333.6	5.5	30.0	10.0		
	3750	TYKW	45	C	2332.0	2333.6	10.0	12.0	3.0		
	2000	TYKW	5	S	2332.0	2333.8	4.0	3.0	1.0		
	2695	PENT	1	S	2333.0	2333.8	2.0	4.8	2.4		
	8800	PALE	4	S/F	2333.0	2333.5	2.1	39.0			QL=6 ST=2 TYP=3
	4995	PALE	8	S	2333.1	2333.5	1.2	27.0			QL=6 ST=2 TYP=3
	8800	LEAR	47	GB	2333.3	2333.5	.8	55.0			QL=6 ST=2 TYP=5
	15400	LEAR	47	GB	2333.3	2333.5	.3	52.0			QL=6 ST=2 TYP=5
	4995	LEAR	8	S	2333.3	2333.5	.5	38.0			QL=6 ST=2 TYP=3
	2695	PALE	8	S	2333.3	2333.8	.5	13.0			QL=6 ST=2 TYP=3
	9400	TYKW	30	PBI	2337.0		105.0	6.0	3.0		
	4995	PALE	8	S	2337.0	2337.1	.3	11.0			QL=6 ST=2 TYP=3
	2695	PALE	8	S	2339.3	2339.5	.3	11.0			QL=6 ST=2 TYP=3
	2695	PALE	8	S	2342.6	2344.5	2.0	13.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	2343.8	2344.6	.8	13.0			QL=6 ST=2 TYP=3
	9400	TYKW	21	GRF	2353.0	0018.0	85.0	6.0	3.0		
21	2000	TYKW	5	S	0013.0	0016.0	8.0	2.0	1.0		
	3750	TYKW	20	GRF	0023.0	0045.0	55.0	4.0	2.0		
	9400	TYKW	21	GRF	0026.0	0044.0	50.0	6.0	3.0		
	2000	TYKW	20	GRF	0034.0	0038.0	45.0	4.0	2.0		
	9400	TYKW	5	S	0107.0	0107.3	1.0	6.0	2.0		
	9400	TYKW	45	C	0158.0	0201.7	12.0	14.0	5.0		
	3750	TYKW	5	S	0158.0	0202.5	20.0	2.0	0.7		
	9400	TYKW	5	S	0250.5	0251.2	4.0	47.0	4.0		
	8800	LEAR	4	S/F	0250.8	0253.3	2.5	25.0			QL=6 ST=2 TYP=3
	15400	LEAR	8	S	0251.0	0251.1	1.8	46.0			QL=6 ST=2 TYP=3
	15400	PALE	8	S	0251.0	0251.1	.3	33.0			QL=6 ST=2 TYP=3
	17000	NOBE	1	S	0251.0	0251.2	.5	43.0			R
	9400	TYKW	5	S	0259.0	0304.0U	15.0	4.0	2.0D		

SOLAR RADIO EMISSION
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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	2000	TYKW	45	C	0303.8	0304.2	1.2D	19.0	8.0D		
	3750	TYKW	5	S	0304.0	0304.4	1.5	3.0	1.0		
	9400	TYKW	5	S	0334.0	0334.3	1.0	4.0	1.5		
	9400	TYKW	21	GRF	0343.0	0355.0	55.0	4.0	2.0		
	9400	TYKW	5	S	0348.5	0348.8	1.0	5.0	1.5		
	3750	TYKW	20	GRF	0352.0	0357.0	30.0	2.0	1.0		
	9400	TYKW	5	S	0423.0	0423.6	2.0	8.0	2.0		
	3750	TYKW	20	GRF	0439.0	0440.0	30.0	2.0	1.0		
	9400	TYKW	20	GRF	0443.0	0457.0	45.0	4.0	2.0		
	2950	GORK	21	GRF	0552.3	0905.0	390.0D	10.6			
	9400	TYKW	5	S	0556.0	0557.9	3.0	13.0	4.0		
	15000	KISV	2	S/F	0556.8	0557.8	2.0	25.0			
	17000	NOBE	1	S	0557.0	0557.8	2.0	23.0			R
	3750	TYKW	5	S	0558.0	0603.0U	12.0	4.0	1.5D		
	9400	TYKW	29	PBI	0559.0		20.0	3.0	1.5		
	3750	TYKW	29	PBI	0610.0		30.0	2.0	1.0		
	4995	ATHN	4	S/F	0613.1	0614.1	3.5	13.0			QL=6 ST=2 TYP=3
	9100	GORK	23	GRF	0619.8	0806.0	362.0D	19.6			
	500	HIRA	8	S	0624.4	0624.7	.4	7.0			0
	410	LEAR	8	S	0624.8	0625.0	.3	10.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0624.8	0625.0	.3	5.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0629.1	0629.1	.2	3.0			QL=1 ST=2 TYP=3
	245	LEAR	8	S	0629.1	0629.1	.2	18.0			QL=1 ST=2 TYP=3
	6100	KISV	1	S	0644.3	0645.3	3.0	4.0			
	9400	TYKW	5	S	0644.5	0645.2	2.0	14.0	3.0		
	8800	LEAR	8	S	0644.8	0645.1	.7	10.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0658.8	0658.8	.2	6.0			QL=1 ST=2 TYP=3
	610	LEAR	8	S	0658.8	0658.8	.2	4.0			QL=1 ST=2 TYP=3
	410	LEAR	8	S	0658.8	0658.8	.2	19.0			QL=1 ST=2 TYP=3
	15000	KISV	21	GRF	0705.0	0709.9	24.0	10.0			
	9400	TYKW	20	GRF	0705.0	0710.0	35.0	4.0	2.0		
	610	LEAR	8	S	0732.8	0732.8	.2	10.0			QL=1 ST=2 TYP=3
	410	LEAR	8	S	0732.8	0732.8	.2	11.0			QL=1 ST=2 TYP=3
	245	LEAR	8	S	0732.8	0732.8	.2	5.0			QL=1 ST=2 TYP=3
	15000	KISV			0750.0	0752.1		9.0			
	6100	KISV	21	GRF	0750.0	0801.0	27.0	98.0			
	15000	KISV	23	GRF	0750.0	0801.0	45.0	22.0			
	8800	LEAR	4	S/F	0750.6	0752.0	4.5	20.0			QL=6 ST=2 TYP=3
	9100	GORK	1	S	0751.1	0752.0	2.2	16.0	8.0		
	9500	POTS	3	S	0751.5	0752.2	3.5	14.0			
	9100	GORK	3	S	0800.3	0800.8	1.5	66.0	33.0		
	9400	TYKW	5	S	0800.5	0801.0	1.5	55.0	15.0U		
	3750	TYKW	5	S	0800.5	0801.0	1.5	25.0	4.0U		
	9500	POTS	3	S	0800.5	0801.1	1.5	50.0			
	15400	LEAR	8	S	0800.8	0800.8	.8	15.0			QL=6 ST=2 TYP=3
	2950	GORK	1	S	0800.8	0801.0	.6	7.5	3.5		
	3100	CRIM	1	S	0800.8	0801.0	1.0	12.0	4.0		
	3100	CRIM	20	GRF	0805.0	0810.0	41.0	4.0	1.0		
	9500	POTS	20	GRF	0853.0	0905.1	42.0	8.0			
	6100	KISV	2	S/F	0902.1	0904.4	5.0	19.0			
	3000	POTS	20	GRF	0903.0U	0905.1	57.0U	8.0			
	3100	CRIM	20	GRF	0903.5	0904.2	30.0	6.0	2.0		
	6100	KISV	29	PBI	0907.6	0908.0	20.0	7.0			
	6100	KISV	1	S	1008.9	1009.5	2.0	5.0			
	6100	KISV	2	S/F	1015.2	1018.2	7.0	8.0			
	6100	KISV	1	S	1024.4	1025.6	3.0	5.0			
	6100	KISV	28	PRE	1027.4	1030.2	16.0	13.0			
	6100	KISV	4	S/F	1044.9	1047.1	5.0	92.0			
	9100	GORK	3	S	1045.0	1047.0	4.7	50.0	24.0		
	204	IZMI	5	S	1045.0	1048.0	16.0	21.0	10.0		
	3000	POTS	4	S/F	1045.5	1047.1	15.0	24.0			
	1470	POTS	3	S	1045.5	1047.1	13.0	9.5			
	9500	POTS	3	S	1045.5	1047.1	14.0	40.0			
	5200	BERN	4	S/F	1045.6	1046.6	19.0	77.0			
	2950	GORK	4	S/F	1045.6	1047.0	5.3		12.2		
	11800	BERN	3	S	1045.6	1047.1	19.0	26.0			
	8400	BERN	3	S	1045.6	1047.1	19.0	73.0			
	3100	BERN	4	S/F	1045.6	1047.6	19.0	36.0			
	15000	KISV	1	S	1047.0U	1047.1	.5U	15.0U			
	6100	KISV	29	PBI	1050.2	1050.2	14.0	30.0			
	3100	CRIM	1	S	1135.5	1140.0	9.0	6.0	2.0		

SOLAR RADIO EMISSION
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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	430	KRAK	8	S	1324.8	1324.8	.2	140.0			
	2800	OTTA	23	GRF	1330.0	1350.0	150.0	11.8	5.6		
	8800	ATHN	4	S/F	1334.3	1334.6	2.8	33.0			QL=6 ST=2 TYP=3
	9400	HUAN	1	S	1334.3	1334.8	1.9	18.5	7.1		0
	9500	POTS	3	S	1334.5	1334.5	1.5	2.7			
	8800	SGMR	8	S	1334.5	1334.6	.6	25.0			QL=6 ST=2 TYP=3
	15400	SGMR	8	S	1334.5	1334.6	.6	25.0			QL=6 ST=2 TYP=3
	15400	SGMR	8	S	1432.3	1432.6	.8	16.0			QL=6 ST=2 TYP=3
	9400	HUAN	2	S/F	1439.9	1440.7	2.3	15.7	8.6		0
	9500	POTS	3	S	1440.4	1440.6	2.1	18.0			
	410	SGMR	8	S	1446.5	1446.8	.3	16.0			QL=6 ST=2 TYP=3
	2800	OTTA	1	S	1452.2	1452.4	1.5	2.8	1.0		
	2800	OTTA	1	S	1519.0	1519.5	1.0	2.0	1.0		
	2800	OTTA	1	S	1643.0	1645.0	8.0	3.0	1.5		
	2800	OTTA	20	GRF	1730.0	1738.0	30.0	3.0	1.4		
	2800	OTTA	20	GRF	1837.0	1850.0	130.0	5.0	1.8		
	9400	HUAN	1	S	1906.9	1908.2	2.7	8.6	4.0		0
	9400	HUAN	21	GRF	2026.4	2035.0	17.7	7.1	4.7		0
	9400	HUAN	1	S	2031.3	2032.2	2.2	4.3	3.1		R
	2800	OTTA	240	R	2050.0	2110.0	20.0	4.2	2.1		
	500	HIRA	8	S	2303.4	2303.7	.5	400.0			WR
	9400	TYKW	5	S	2315.0	2315.7	5.0	6.0	2.0		
	17000	NOBE	1	S	2315.3	2315.9	5.0	15.0			0
	3750	TYKW	5	S	2332.9	2333.2	1.0	2.0	0.7		
	9400	TYKW	5	S	2339.5	2340.3	2.5	3.0	1.0		
22	245	LEAR	43	NS	0650.1	0744.8	76.9	20.0			QL=1 ST=2 TYP=1
	260	ONDR	44	NS	0752.0E		401.0D	2.0			
	127	TORN	43	NS	1000.0		300.0		4.0		V=1
	3750	TYKW	45	C	0027.0	0035.7	35.0	3.0	1.0		
	9400	TYKW	5	S	0053.0	0054.4	8.0	22.0	6.0		
	17000	NOBE	1	S	0053.5	0054.4	1.3	44.0			0
	15400	PALE	8	S	0053.8	0054.3	.8	41.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	0054.0	0054.3	.8	27.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0054.0	0054.3	.8	21.0			QL=6 ST=2 TYP=3
	15400	LEAR	8	S	0054.0	0054.3	.8	46.0			QL=6 ST=2 TYP=3
	17000	NOBE	29	PBI	0054.8	0054.8	7.0	15.0			0
	2000	TYKW	45	C	0110.0	0128.2	25.0	16.0	8.0		
	3750	TYKW	45	C	0110.0	0207.3	75.0	43.0	17.0		
	610	LEAR	4	S/F	0115.8	0122.6	9.5	17.0			QL=6 ST=2 TYP=3
	1415	LEAR	20	GRF	0118.6	0124.8	119.5	28.0			QL=6 ST=3 TYP=2
	2695	LEAR	20	GRF	0118.6	0205.0	130.9	45.0			QL=6 ST=3 TYP=2
	410	LEAR	4	S/F	0119.0	0122.8	5.8	8.0			QL=6 ST=2 TYP=3
	4995	LEAR	20	GRF	0119.1	0204.3	80.7	27.0			QL=6 ST=3 TYP=2
	1000	TYKW	45	C	0120.0	0123.4	25.0	6.0	2.0		INTERFERENCE
	500	HIRA	45	C	0122.0	0122.3	2.6	23.0	8.0		0
	610	PALE	8	S	0122.3	0122.3	.7	21.0			QL=6 ST=2 TYP=3
	2695	PALE	4	S/F	0122.5	0124.1	8.1	24.0			QL=6 ST=2 TYP=3
	4995	PALE	8	S	0122.8	0123.1	.3	13.0			QL=6 ST=2 TYP=3
	1415	PALE	8	S	0122.8	0123.6	2.0	13.0			QL=6 ST=2 TYP=3
	9400	TYKW	20	GRF	0130.0	0207.0	130.0	26.0	13.0		
	2000	TYKW	30	PBI	0135.0		275.0	11.0	6.0		
	2902	YUNN	20	GRF	0154.0	0204.7	66.0	24.0			
	2000	TYKW	45	C	0157.0	0205.6	15.0	10.0	6.0		
	17000	NOBE	20	GRF	0201.9	0219.6	60.0	16.0			0
	4995	PALE	8	S	0203.0	0203.1	.3	11.0			QL=6 ST=2 TYP=3
	4995	PALE	4	S/F	0205.1	0207.1	2.7	17.0			QL=6 ST=2 TYP=3
	2695	PALE	8	S	0205.1	0207.1	2.0	18.0			QL=6 ST=2 TYP=3
	15400	PALE	8	S	0205.5	0207.1	1.6	17.0			QL=6 ST=2 TYP=3
	2000	TYKW	29	PBI	0212.0		70.0	4.0	2.0		
	3750	TYKW	30	PBI	0225.0		210.0	19.0	8.0		
	3750	TYKW	5	S	0232.8	0233.2	1.5	4.0	1.5		
	15400	LEAR	4	S/F	0249.1	0250.1	3.9	15.0			QL=1 ST=2 TYP=3
	3750	TYKW	5	S	0353.0	0353.4	1.0	3.0	1.0		
	9400	TYKW	20	GRF	0505.0	0527.0	50.0	6.0	3.0		
	2950	GORK	20	GRF	0530.0E	1024.3	420.0D	15.0			
	9100	GORK	23	GRF	0544.0	1030.0	370.0	14.0			
	6100	KISV	20	GRF	0601.0	0604.0	11.0	5.0			
	245	LEAR	4	S/F	0612.6	0614.0	8.2	13.0			QL=6 ST=2 TYP=3
	6100	KISV	2	S/F	0612.7	0614.0	5.0	17.0			
	500	HIRA	8	S	0612.9	0613.1	.7	22.0			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	2000	TYKW	5	S	0613.0	0613.6	2.0	1.5	0.5		
	3750	TYKW	45	C	0613.0	0614.0	5.0	6.0	2.0		
	2000	TYKW	31	ABS	0615.0	0645.0	70.0	-4.0	-2.0		
	3750	TYKW	31	ABS	0618.0	0645.0	70.0	-6.0	-3.0		
	245	LEAR	8	S	0620.3	0620.8	.8	35.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0621.6	0621.8	.2	35.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0621.6	0621.8	.2	7.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0621.6	0621.8	.2	4.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0646.8	0647.1	.5	10.0			QL=1 ST=2 TYP=3
	410	LEAR	8	S	0646.8	0647.1	.5	18.0			QL=1 ST=2 TYP=3
	245	LEAR	8	S	0653.5	0653.6	.1	15.0			QL=1 ST=2 TYP=3
	410	LEAR	8	S	0653.5	0653.6	.1	8.0			QL=1 ST=2 TYP=3
	9100	GORK	1	S	0722.1	0722.3	.7	7.0	3.5		
	3100	CRIM	20	GRF	0729.5	0736.0	16.0	3.0	1.0		
	4995	LEAR	4	S/F	0808.3	0812.3	6.8	10.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	0808.3	0813.0	7.5	13.0			QL=5 ST=2 TYP=3
	6100	KISV	1	S	0809.5	0813.0	5.0	6.0			
	6100	KISV	2	S/F	0853.0	0853.7	3.0	6.0			
	3100	CRIM	20	GRF	0906.0	0910.0	104.0	9.0	3.0		
	9500	POTS	3	S	1022.5	1024.2	5.0	65.0			
	8800	LEAR	47	GB	1023.1	1024.1	3.0	72.0			QL=5 ST=2 TYP=5
	8400	BERN	3	S	1023.1	1024.1	6.0	100.0			
	11800	BERN	3	S	1023.1	1024.1	6.0	75.0			
	5200	BERN	4	S/F	1023.3	1024.1	6.0	93.0			
	4995	LEAR	4	S/F	1023.3	1024.1	3.2	40.0			QL=5 ST=2 TYP=3
	3100	BERN	1	S	1023.4	1024.2	3.0	10.0			
	6100	KISV	3	S	1023.5	1024.1	2.0	93.0			
	9100	GORK	3	S	1023.7	1024.1	2.6	80.0	40.0		
	15400	LEAR	4	S/F	1024.0	1024.1	2.1	32.0			QL=5 ST=2 TYP=3
	6100	KISV	29	PBI	1025.3	1025.3	9.0	14.0			
	15000	KISV	3	S	1029.7	1029.7U	2.5	53.0D			
	204	IZMI	41	F	1046.0	1047.0	2.0	170.0			
	536	ONDR	42	SER	1210.0	1212.0	2.0	7.0			
	430	KRAK	8	S	1222.0	1222.0	.2	12.0			
	430	KRAK	46	C	1232.0	1236.7	11.4	74.0	25.0		
	430	KRAK			1232.0	1240.3		110.0			
	2800	OTTA	8	S	1421.3	1421.4	.4	2.8	1.4		
	2800	OTTA	20	GRF	1425.0	1445.0	55.0	3.0	1.5		
	9400	HUAN	2	S/F	1444.3	1446.7	4.3	3.9	1.8		R
	245	SGMR	49	GB	1505.1	1505.1		520.0			QL=1 ST=2 TYP=6
	1415	ATHN	4	S/F	1505.6	1506.6	2.5	16.0			QL=6 ST=2 TYP=3
	245	SGMR	8	S	1527.6	1527.8	.5	35.0			QL=6 ST=2 TYP=3
	1415	SGMR	49	GB	1638.1	1638.3	.2	1399.0			QL=1 ST=3 TYP=6
	2800	OTTA	1	S	1652.0	1653.5	4.5	2.2	1.0		
	9400	HUAN	20	GRF	1737.8	1755.2	36.7	5.2	1.0		R
	9400	HUAN	22	GRF	1833.7	1844.7	25.1	4.6	1.4		O
	9400	HUAN	22	GRF	2031.5	2039.0	12.3	9.2	3.1		L
	4995	PALE	8	S	2042.3	2042.6	.7	18.0			QL=6 ST=2 TYP=3
	2000	TYKW	20	GRF	2245.0	2301.0	60.0	2.0	1.0		
	3750	TYKW	21	GRF	2245.0	2332.0	115.0	4.0	2.0		
	9400	TYKW	45	C	2351.0	2357.2	11.0	10.0	3.0		
	8800	LEAR	4	S/F	2351.1	2357.1	9.7	13.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	2351.1	2357.1	9.5	10.0			QL=6 ST=2 TYP=3
	15400	LEAR	4	S/F	2351.6	2352.5	6.7	11.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	2355.6	2355.8	.2	16.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	2355.6	2355.8	.2	6.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	2356.0	2357.2	4.0	5.0	1.5		
23	260	ONDR	44	NS	0807.0E		383.0D	9.0			
	245	SGMR	43	NS	1151.0	2147.0	612.0D	390.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1718.0	2353.1	640.0D	239.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2234.0	2334.0	726.0D	32.0			QL=1 ST=2 TYP=1
	200	HIRA	44	NS	2346.0E	0017.0	90.0D	10.0	5.0		O
	610	LEAR	8	S	0003.1	0003.3	.2	18.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0003.1	0003.3	.2	8.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0003.1	0003.3	.2	15.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0006.6	0007.0	.5	13.0			QL=6 ST=2 TYP=3
	15400	LEAR	8	S	0006.8	0006.8	.3	26.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	0006.8	0007.0	.3	19.0			QL=6 ST=2 TYP=3
	4995	LEAR	8	S	0006.8	0007.0	1.3	6.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0059.0	0059.5	2.0	4.0	1.5		

SOLAR RADIO EMISSION
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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
23	3750	TYKW	29	PBI	0101.0		5.0	1.0	0.5		
	9400	TYKW	20	GRF	0123.0	0133.0	55.0	6.0	3.0		RAIN
	2000	TYKW	20	GRF	0135.0	0145.0	55.0	2.0	1.0		
	2000	TYKW	20	GRF	0416.0	0421.0	45.0	2.0	1.0		
	3750	TYKW	20	GRF	0420.0	0421.0	35.0	2.0	1.0		
	245	LEAR	8	S	0442.1	0442.5	.7	22.0			QL=6 ST=2 TYP=3
	3750	TYKW	45	C	0505.0	0506.0	2.0	6.0	2.0		
	3750	TYKW	29	PBI	0507.0		6.0	2.0	1.0		
	3750	TYKW	20	GRF	0536.0	0543.0	30.0	4.0	2.0		
	9100	GORK	20	GRF	0549.0E	1046.0	400.0D	8.0			
	2950	GORK	20	GRF	0625.8	0723.0	360.0D	7.6			
	2000	TYKW	20	GRF	0637.0	0643.0	30.0	1.5	0.7		
	3750	TYKW	20	GRF	0637.0	0643.0	30.0	2.0	1.0		
	245	LEAR	8	S	0637.1	0638.1	1.2	11.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0638.0	0638.1	.3	17.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0638.0	0638.1	.3	8.0			QL=6 ST=2 TYP=3
	8800	ATHN	4	S/F	0734.6	0736.1	2.5	8.0			QL=2 ST=2 TYP=3
	8800	ATHN	4	S/F	0741.1	0743.0	6.5	33.0			QL=2 ST=2 TYP=3
	8800	ATHN	4	S/F	0842.6	0845.0	8.5	18.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0848.0	0848.1	.1	22.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0854.8	0855.0	.3	25.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0926.1	0926.3	.2	25.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0926.1	0926.3	.2	40.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0945.1	0945.3	.2	25.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0945.1	0945.3	.2	18.0			QL=6 ST=2 TYP=3
	430	KRAK	42	SER	1244.8	1246.3	25.0	10.0			
	430	KRAK			1244.8	1250.0		60.0			
	430	KRAK			1244.8	1302.5		14.0			
	536	ONDR	42	SER	1247.5	1249.5	16.5	10.0			
	810	KRAK	3	S	1248.8	1250.0	2.0	12.0	5.0		
	2800	OTTA	21	GRF	1249.0	1304.0	40.0	8.4	4.2		
	2800	OTTA	2	S/F	1250.0	1251.0	4.0	5.6	2.8		
	3000	POTS	3	S	1250.0	1251.2	3.0	9.0			
	808	ONDR	2	S/F	1250.0	1251.5	2.5	13.0	3.0		
	410	SGMR	47	GB	1250.1	1250.6	1.2	210.0			QL=6 ST=2 TYP=5
	245	SGMR	8	S	1250.3	1250.5	.7	24.0			QL=6 ST=2 TYP=3
	1470	POTS	3	S	1250.4	1251.3	2.6	8.0			
	9400	HUAN	21	GRF	1251.4	1302.6	34.3	5.2	3.3		0
	9400	HUAN	2	S/F	1254.7	1255.4	1.9	6.6	2.6		0
	245	SGMR	8	S	1255.5	1255.6	.3	25.0			QL=6 ST=2 TYP=3
	808	ONDR	2	S/F	1303.0	1303.5	1.0	8.0	1.0		
	9500	POTS	29	PBI	1312.5	1313.4	18.0	13.0			
	8800	ATHN	4	S/F	1312.6	1313.3	2.5	10.0			QL=6 ST=2 TYP=3
	15400	SGMR	4	S/F	1312.6	1313.5	3.0	10.0			QL=6 ST=2 TYP=3
	4995	SGMR	8	S	1312.6	1313.6	1.9	19.0			QL=6 ST=2 TYP=3
	9400	HUAN	1	S	1312.7	1313.7	1.9	11.8	6.0		L
	2800	OTTA	1	S	1313.0	1313.7	3.0	9.8	3.2		
	4995	ATHN	8	S	1313.0	1313.6	2.0	11.0			QL=6 ST=2 TYP=3
	3000	POTS	3	S	1313.0	1313.8	4.0U	12.0			
	8800	SGMR	8	S	1313.3	1313.5	.3	16.0			QL=6 ST=2 TYP=3
	2695	SGMR	8	S	1313.3	1313.6	.7	17.0			QL=6 ST=2 TYP=3
	2695	ATHN	8	S	1313.6	1313.8	1.7	10.0			QL=6 ST=2 TYP=3
	15400	SGMR	8	S	1324.8	1324.8	.3	23.0			QL=6 ST=2 TYP=3
	2800	OTTA	1	S	1438.2	1438.7	1.5	3.6	1.4		
	15400	SGMR	47	GB	1515.5	1515.6	.8	70.0			QL=6 ST=2 TYP=5
	2800	OTTA	27A	RF	1716.0		254.0	3.0	2.8		
	2800	OTTA	24	R	1716.0	1718.0	2.0	3.0	1.5		
	2800	OTTA	24P	R	1718.0		232.0	3.0			
	2800	OTTA	21	GRF	1740.0	1824.0	65.0	6.0	3.0		
	2800	OTTA	45	C	1808.2	1813.0	15.0	18.4	8.0		
	610	PALE	49	GB	1808.3	1809.3	12.3	310.0			QL=6 ST=2 TYP=6
	610	SGMR	49	GB	1808.3	1809.3	12.5	300.0			QL=6 ST=2 TYP=6
	245	SGMR	4	S/F	1808.6	1813.1	5.5	27.0			QL=6 ST=3 TYP=3
	410	SGMR	4	S/F	1808.8	1809.1	5.2	22.0			QL=6 ST=2 TYP=3
	1415	SGMR	8	S	1808.8	1809.3	.5	16.0			QL=6 ST=2 TYP=3
	410	PALE	4	S/F	1809.0	1810.3	4.8	18.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	1809.1	1810.3	13.7	35.0			QL=1 ST=2 TYP=5
	2695	SGMR	4	S/F	1811.5	1813.1	8.5	24.0			QL=6 ST=2 TYP=3
	4995	SGMR	4	S/F	1811.6	1813.1	2.5	23.0			QL=6 ST=2 TYP=3
	2695	PALE	4	S/F	1812.0	1813.1	7.5	24.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	1812.1	1813.1	1.0	17.0			QL=6 ST=2 TYP=3

SOLAR RADIO EMISSION
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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
23	4995	PALE	8	S	1812.1	1813.1	1.0	16.0			QL=6 ST=2 TYP=3
	8800	SGMR	8	S	1812.8	1813.1	.5	15.0			QL=6 ST=2 TYP=3
	9400	HUAN	2	S/F	1856.2E	1859.5	7.2D	15.1	9.2		L
	245	PALE	8	S	2026.5	2026.6	.3	25.0			QL=6 ST=2 TYP=3
	2800	OTTA	26	FAL	2110.0	2130.0	20.0	-3.0	-1.5		
	2800	OTTA	1	S	2152.0	2152.8	2.0	4.4			
	3750	TYKW	21	GRF	2310.0	2338.0	100.0	4.0	2.0		
	245	LEAR	8	S	2310.3	2310.3	.2	17.0			QL=1 ST=2 TYP=3
	410	LEAR	8	S	2310.3	2310.3	.2	7.0			QL=1 ST=2 TYP=3
	9400	TYKW	21	GRF	2315.0	2325.0	105.0	6.0	2.0		
	1000	TYKW	45	C	2315.0	2329.6	15.0	14.0	2.5		
	2000	TYKW	45	C	2319.0	2323.4	10.0	7.0	3.0		
	3750	TYKW	45	C	2319.0	2323.4	9.0	6.0	2.0		
	9400	TYKW	5	S	2319.5	2319.9	1.0	6.0	2.0		
	1415	PALE	8	S	2321.6	2323.0	1.7	20.0			QL=6 ST=2 TYP=3
	2695	PENT	45	C	2323.0	2325.0	3.0	2.6	1.4		
	2000	TYKW	29	PBI	2329.0		35.0	2.0	1.0		
	1000	TYKW	29	PBI	2330.0		15.0	1.5	0.7		
24	200	GORK	44	NS	0524.0E		398.0D		5.0		
	100	GORK	44	NS	0527.0E		393.0D		180.0		
	260	ONDR	44	NS	0750.0E		330.0D	24.0			
	127	TORN	44	NS	0810.0E		410.0D		50.0		V=0
	100	HIRA	44	NS	2114.0E	2153.0	230.0D	180.0U	40.0		
	200	HIRA	44	NS	2114.0E	2215.0	670.0D	20.0	10.0		MR
	245	LEAR	43	NS	2330.0	0049.1	669.0D	18.0			QL=1 ST=2 TYP=1
	9400	TYKW	28	PRE	0002.0	0012.0	10.0	6.0	3.0		
	3750	TYKW	28	PRE	0004.0	0012.0	8.0	2.0	1.0		
	1000	TYKW	45	C	0009.0	0011.2	4.0	8.0	3.0		
	3750	TYKW	45	C	0012.0	0012.9	8.0	9.0	4.0		
	9400	TYKW	45	C	0012.0	0013.0	8.0	43.0	15.0		
	4995	LEAR	4	S/F	0012.3	0012.8	5.7	20.0			QL=6 ST=2 TYP=3
	15400	LEAR	4	S/F	0012.3	0012.8	5.7	38.0			QL=6 ST=2 TYP=3
	8800	LEAR	47	GB	0012.3	0012.8	5.7	51.0			QL=6 ST=2 TYP=5
	8800	PALE	47	GB	0012.6	0012.8	3.4	55.0			QL=6 ST=2 TYP=5
	17000	NOBE	1	S	0012.7	0013.0	1.5	15.0			0
	4995	PALE	8	S	0012.8	0012.8	.3	13.0			QL=6 ST=2 TYP=3
	15400	LEAR	8	S	0012.8	0012.8	1.8	28.0			QL=6 ST=2 TYP=3
	15400	PALE	8	S	0012.8	0012.8	.5	30.0			QL=6 ST=2 TYP=3
	9400	TYKW	29	PBI	0020.0		20.0	10.0	4.0		
	3750	TYKW	29	PBI	0020.0		20.0	2.0	1.0		
	1000	TYKW	45	C	0026.0	0026.6	14.0	6.0	2.0		
	2000	TYKW	5	S	0028.0	0035.0	15.0	2.0	0.7		
	1000	TYKW	29	PBI	0040.0		20.0	1.0	0.5		
	1000	TYKW	45	C	0103.0	0106.8	12.0	51.0	13.0		
	500	HIRA	45	C	0104.7	0106.0	12.0	110.0	10.0		MR
	2000	TYKW	45	C	0105.0	0106.2	7.0	55.0	15.0		
	3750	TYKW	45	C	0105.0	0106.2	6.0	90.0	15.0		
	2840	PEKG	3	S	0105.0	0106.3	3.0	77.3	32.3		
	410	LEAR	49	GB	0105.1	0106.5	1.9	680.0			QL=6 ST=2 TYP=6
	610	LEAR	47	GB	0105.3	0105.6	8.5	69.0			QL=6 ST=2 TYP=5
	200	HIRA	42	SER	0105.3	0106.3	1.7	240.0			0
	1415	LEAR	47	GB	0105.3	0106.8	5.8	66.0			QL=2 ST=2 TYP=5
	2695	LEAR	47	GB	0105.5	0106.1	4.3	79.0			QL=2 ST=2 TYP=5
	9400	TYKW	5	S	0105.5	0106.2	1.5	17.0	7.0		
	410	PALE	47	GB	0105.6	0105.8	1.4	219.0			QL=6 ST=2 TYP=5
	4995	PALE	47	GB	0105.6	0106.1	1.4	53.0			QL=6 ST=2 TYP=5
	2695	PALE	47	GB	0105.6	0106.1	2.0	76.0			QL=6 ST=2 TYP=5
	4995	LEAR	47	GB	0105.6	0106.3	2.2	50.0			QL=2 ST=2 TYP=5
	245	LEAR	47	GB	0105.6	0106.6	1.5	160.0			QL=6 ST=2 TYP=5
	1415	PALE	47	GB	0105.6	0106.6	4.7	65.0			QL=6 ST=2 TYP=5
	610	PALE	4	S/F	0105.6	0106.8	3.0	37.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	0105.8	0106.1	.5	20.0			QL=6 ST=2 TYP=3
	15400	LEAR	8	S	0105.8	0106.1	1.7	8.0			QL=5 ST=2 TYP=3
	245	PALE	47	GB	0105.8	0106.5	1.3	160.0			QL=6 ST=2 TYP=5
	208	VORO	3	S	0106.0	0107.0	1.0	200.0D			
	8800	LEAR	8	S	0106.1E	0106.3	.7D	21.0			QL=2 ST=2 TYP=3
	9400	TYKW	29	PBI	0107.0		5.0	3.0	1.5		
	2840	PEKG	29	PBI	0108.0		10.0D	12.9	4.3U		
	3750	TYKW	30	PBI	0111.0		10.0	4.0	3.0		
	2000	TYKW	30	PBI	0112.0		11.0	4.0	4.0		

SOLAR RADIO EMISSION
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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	1000	TYKW	30	PBI	0115.0		8.0	5.0	5.0		
	3750	TYKW	45	C	0121.0	0159.0	110.0	36.0	23.0		
	3750	TYKW			0121.0	0238.6		33.0			
	2000	TYKW	45	C	0123.0	0140.7	60.0	35.0	20.0		
	1000	TYKW	45	C	0123.0	0141.2	43.0	88.0	22.0		
	1415	LEAR	47	GB	0124.3	0126.8	21.8	16.0			QL=6 ST=2 TYP=5
	2902	YUNN	30	PBI	0124.3	0238.3	95.6	42.0			
	2695	LEAR	4	S/F	0124.5	0124.8	21.6	16.0			QL=2 ST=2 TYP=3
	9400	TYKW	21	GRF	0125.0	0230.0	240.0	16.0	8.0		
	200	HIRA	46	C	0131.1	0158.0	54.0	125.0	26.0		WL
	200	HIRA			0131.1	0203.0		120.0			WL
	208	VORO	41	F	0134.0	0203.0	36.0	220.0			
	200	HIRA	24	R	0134.0	0411.0	400.0D	560.0	380.0		
	500	HIRA			0134.0	0137.0		120.0			WL
	500	HIRA	46	C	0134.0	0141.9	45.0	140.0	40.0		ML
	500	HIRA			0134.0	0156.6		100.0			ML
	245	LEAR	8	S	0135.3	0135.5	.3	22.0			QL=6 ST=2 TYP=3
	1415	PALE	8	S	0135.8	0137.0		11.0			QL=6 ST=3 TYP=3
	2695	PALE	8	S	0135.8	0137.0		13.0			QL=6 ST=3 TYP=3
	610	LEAR	47	GB	0136.6	0139.1	9.5	119.0			QL=6 ST=2 TYP=5
	610	PALE	47	GB	0136.8	0139.0		110.0			QL=6 ST=3 TYP=5
	410	LEAR	47	GB	0137.1	0140.6	9.0	100.0			QL=6 ST=2 TYP=5
	410	PALE	47	GB	0137.6	0140.6		77.0			QL=6 ST=3 TYP=5
	4995	LEAR	4	S/F	0138.6	0140.6	7.5	17.0			QL=6 ST=2 TYP=3
	245	PALE	8	S	0139.0	0139.8		47.0			QL=6 ST=3 TYP=3
	2695	LEAR	4	S/F	0146.1	0146.1	14.2	43.0			QL=2 ST=2 TYP=3
	4995	LEAR	4	S/F	0146.1	0146.6	14.2	23.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	0146.1	0147.6	14.2	77.0			QL=6 ST=2 TYP=5
	1415	LEAR	47	GB	0146.1	0149.8	14.2	64.0			QL=6 ST=2 TYP=5
	410	LEAR	47	GB	0146.1	0200.0	14.2	119.0			QL=6 ST=2 TYP=5
	610	LEAR	47	GB	0146.1	0200.0	14.2	119.0			QL=6 ST=2 TYP=5
	100	HIRA	42	SER	0147.0	0202.0	33.0	180.0			
	8800	LEAR	4	S/F	0147.8	0148.0	12.5	11.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	0157.3	0158.1	3.0	61.0			QL=3 ST=2 TYP=5
	610	PALE	47	GB	0157.3	0159.8	6.8	60.0			QL=3 ST=2 TYP=5
	410	PALE	47	GB	0157.3	0200.0	8.8	72.0			QL=3 ST=2 TYP=5
	15400	LEAR	8	S	0200.1	0200.3	.2	18.0			QL=6 ST=2 TYP=3
	410	LEAR	47	GB	0200.3	0200.5	8.8	119.0			QL=6 ST=2 TYP=5
	610	LEAR	47	GB	0200.3	0200.5	7.3	119.0			QL=6 ST=2 TYP=5
	8800	LEAR	4	S/F	0200.3	0201.3	15.8	21.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	0200.3	0201.8	4.5	90.0			QL=6 ST=2 TYP=5
	4995	LEAR	4	S/F	0200.3	0206.3	15.8	39.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	0200.3	0208.5	15.8	43.0			QL=2 ST=2 TYP=3
	1415	LEAR	47	GB	0200.3	0213.3	15.8	64.0			QL=6 ST=2 TYP=5
	15400	LEAR	4	S/F	0203.3	0203.6	2.8	19.0			QL=6 ST=2 TYP=3
	15400	PALE	8	S	0205.1	0205.1	1.0	23.0			QL=3 ST=2 TYP=3
	1000	TYKW	30	PBI	0206.0		230.0	9.0	4.0		
	410	PALE	8	S	0211.8	0212.0	1.8	41.0			QL=6 ST=2 TYP=3
	9400	TYKW	45	C	0212.0	0216.5	11.0	17.0	6.0		
	8800	PALE	8	S	0213.8	0214.0	.3	13.0			QL=6 ST=2 TYP=3
	15400	PALE	8	S	0213.8	0214.0	1.0	13.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	0216.1	0216.3	1.0	21.0			QL=6 ST=2 TYP=3
	15400	PALE	8	S	0216.1	0217.1	1.0	24.0			QL=6 ST=2 TYP=3
	410	PALE	8	S	0216.3	0216.8	.8	32.0			QL=6 ST=2 TYP=3
	245	PALE	8	S	0216.6	0216.8	.5	20.0			QL=6 ST=2 TYP=3
	2000	TYKW	30	PBI	0223.0		230.0	15.0	7.0		
	2000	TYKW	5	S	0236.0	0238.4	12.0	28.0	9.0		
	2840	PEKG	3	S	0236.0	0238.4	10.0	17.2	7.9		
	1000	TYKW	5	S	0236.0	0238.7	14.0	63.0	18.0		
	500	HIRA	45	C	0236.0	0238.6	24.0	230.0	50.0		MR
	610	LEAR	47	GB	0236.1	0238.6	13.9	169.0			QL=6 ST=2 TYP=5
	200	HIRA	46	C	0236.3	0238.3	26.3	140.0	28.0		WL
	1415	LEAR	47	GB	0236.3	0238.5	13.3	60.0			QL=6 ST=2 TYP=5
	410	LEAR	47	GB	0236.3	0239.5	10.5	400.0			QL=6 ST=2 TYP=5
	200	HIRA			0236.3	0252.5		110.0			0
	2695	LEAR	4	S/F	0236.6	0238.1	14.5	45.0			QL=2 ST=2 TYP=3
	245	LEAR	47	GB	0236.6	0238.5	10.5	169.0			QL=6 ST=2 TYP=5
	410	PALE	47	GB	0236.6	0239.3	8.5	390.0			QL=3 ST=2 TYP=5
	100	HIRA	46	C	0236.7	0238.2	18.0	1200.0	165.0		
	610	PALE	47	GB	0236.8	0238.6	7.8	150.0			QL=3 ST=2 TYP=5
	208	VORO	20	GRF	0237.0	0239.0	10.0	148.0			

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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
24	245	PALE	47	GB	0237.0	0238.5	8.3	160.0			QL=3 ST=2 TYP=5
	4995	LEAR	4	S/F	0237.1	0238.1	12.0	6.0			QL=6 ST=2 TYP=3
	1415	PALE	47	GB	0237.1	0238.5	5.7	51.0			QL=3 ST=2 TYP=5
	2695	PALE	8	S	0237.6	0238.1	1.7	20.0			QL=3 ST=2 TYP=3
	15400	PALE	8	S	0246.0	0247.3	1.5	20.0			QL=3 ST=2 TYP=3
	2000	TYKW	29	PBI	0248.0		15.0	3.0	1.5		
	1000	TYKW	30	PBI	0250.0		15.0	2.0	1.0		
	245	LEAR	47	GB	0250.1	0252.1	11.2	11.0			QL=6 ST=2 TYP=5
	610	LEAR	4	S/F	0250.1	0254.1	10.7	5.0			QL=6 ST=2 TYP=3
	410	LEAR	4	S/F	0250.1	0255.0	9.7	48.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	0250.8	0252.6	8.0	110.0			QL=3 ST=2 TYP=5
	208	VORO	20	GRF	0251.0	0253.0	9.0	165.0			
	410	PALE	4	S/F	0251.6	0253.8	5.7	41.0			QL=3 ST=2 TYP=3
	1000	TYKW	45	C	0253.0	0255.0	5.0D	5.0	1.5D		
	208	VORO	29	PBI	0300.0		120.0		17.0		
	200	HIRA	24	R	0302.0	0350.0	260.0D	22.0	17.0		MR
	9400	TYKW	5	S	0310.0	0310.4	2.0	3.0	1.0		
	3750	TYKW	30	PBI	0311.0		280.0	16.0	8.0		
	9400	TYKW	21	GRF	0328.0	0357.0	90.0	18.0	8.0		
	2695	LEAR	4	S/F	0328.3	0329.1	2.8	13.0			QL=2 ST=2 TYP=3
	1000	TYKW	45	C	0328.5	0329.0	5.0	12.0	1.0		
	3750	TYKW	5	S	0328.5	0329.1	1.5	15.0	6.0		
	9400	TYKW	5	S	0328.5	0329.1	1.5	25.0	9.0		
	2000	TYKW	5	S	0328.5	0329.1	1.5	6.0	2.0		
	1415	LEAR	4	S/F	0328.5	0330.8	2.6	6.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	0328.6	0329.0	2.4	16.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0328.6	0329.1	1.0	21.0			QL=6 ST=2 TYP=3
	17000	NOBE	1	S	0328.7	0329.0	.8	23.0			L
	15400	LEAR	8	S	0328.8	0329.3	.7	42.0			QL=1 ST=3 TYP=3
	2840	PEKG	1	S	0329.0	0329.2	1.0	10.3	3.9		
	9400	TYKW	29	PBI	0330.0		5.0	4.0	2.0		
	3750	TYKW	29	PBI	0330.0		7.0	2.0	1.0		
	2000	TYKW	29	PBI	0330.0		5.0	1.5	0.7		
	8800	LEAR	20	GRF	0337.0	0351.5	42.1	16.0			QL=6 ST=2 TYP=2
	15400	LEAR	20	GRF	0337.0	0400.0	42.1	16.0			QL=6 ST=2 TYP=2
	2000	TYKW	45	C	0339.5	0344.0	13.5	5.0	3.0		
	3750	TYKW	20	GRF	0340.0	0352.0	80.0	8.0	3.0		
	4995	LEAR	20	GRF	0340.0	0351.5	40.0	15.0			QL=6 ST=2 TYP=2
	1000	TYKW	45	C	0343.0	0344.5	4.0	14.0	3.0		
	2000	TYKW	29	PBI	0353.0		30.0	3.0	1.5		
	17000	NOBE	1	S	0409.4	0409.6	.6	16.0			O
	9400	TYKW	45	C	0410.0	0412.7	6.0	6.0	2.0		
	2000	TYKW	21	GRF	0431.0	0452.0	80.0	2.0	1.0		
	2000	TYKW	5	S	0446.3	0447.1	2.0	1.5	0.5		
	3750	TYKW	21	GRF	0505.0	0518.0	50.0	2.0	1.0		
	3750	TYKW	5	S	0551.5	0552.6	2.5	3.0	1.0		
	2950	GORK	22	GRF	0559.0E	0644.0	262.0D	17.0			
	9100	GORK	20	GRF	0609.0	0710.3	347.0	18.0			
	3750	TYKW	28	PRE	0613.0	0642.0	29.0	6.0	2.0		
	2000	TYKW	21	GRF	0635.0	0654.0	55.0	3.0	1.5		
	1000	TYKW	5	S	0640.0	0640.8	2.0	7.0	2.0		
	4995	ATHN	4	S/F	0641.3	0643.3	3.3	25.0			QL=6 ST=2 TYP=3
	2695	ATHN	4	S/F	0641.5	0642.5	3.1	8.0			QL=6 ST=2 TYP=3
	3100	CRIM	1	S	0641.5	0643.4	5.0	14.0	5.0		
	3750	TYKW	45	C	0642.0	0644.5	10.0	30.0	14.0		
	2840	PEKG	1	S	0642.0	0644.6	7.0	9.9	3.4		
	2695	LEAR	8	S	0642.1	0643.6	1.7	16.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	0642.1	0644.5	3.2	27.0			QL=6 ST=2 TYP=3
	2000	TYKW	45	C	0642.5	0643.2	3.5	3.0	1.0		
	3100	CRIM	29	PBI	0647.0	0647.0	28.0	6.0	2.0		
	3750	TYKW	30	PBI	0652.0		50.0	10.0	5.0		
	3750	TYKW	5	S	0704.0	0708.2	10.0	10.0	5.0		
	6100	KISV	1	S	0705.2	0707.2	9.0	13.0			
	2695	ATHN	4	S/F	0706.1	0707.3	4.5	10.0			QL=6 ST=2 TYP=3
	4995	ATHN	4	S/F	0706.8	0708.3	3.0	17.0			QL=6 ST=2 TYP=3
	4995	LEAR	8	S	0707.0	0708.3	1.6	17.0			QL=6 ST=2 TYP=3
	3750	TYKW	29	PBI	0714.0		15.0	4.0	2.0		
	6100	KISV	1	S	0820.9	0821.7	5.0	5.0			
	15000	KISV	1	S	0847.3	0847.5	.5	13.0			
	3100	CRIM	20	GRF	0848.0	1151.0	183.0U	4.0	1.0		
	410	LEAR	8	S	0935.3	0935.5	.3	22.0			QL=6 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	245	LEAR	8	S	0935.3	0935.5	.3	21.0			QL=6 ST=2 TYP=3
	3100	CRIM	26	FAL	0943.0	1200.0		10.0			
	2950	GORK	20	GRF	1045.0	1218.0	100.0	4.6			
	2800	OTTA	21	GRF	1300.0	1340.0	150.0	16.2	8.0		
	9500	POTS	20	GRF	1310.0	1345.0	75.0	11.0			
	3000	POTS	20	GRF	1320.0	1331.0	60.0	19.0			
	1470	POTS	28	PRE	1320.0	1332.0	50.0	15.0			
	2800	OTTA	20	GRF	1327.0	1332.0	11.0	10.2	4.8		
	1415	ATHN	4	S/F	1329.6	1332.6	6.4	15.0			QL=5 ST=2 TYP=3
	2695	ATHN	4	S/F	1330.3	1332.0	5.7	6.0			QL=5 ST=2 TYP=3
	245	SGMR	47	GB	1431.3	1431.5	.5	250.0			QL=5 ST=2 TYP=5
	2800	OTTA	20	GRF	1453.0	1454.5	12.0	3.4	2.7		
	2800	OTTA	21	GRF	1540.0	1615.0	110.0	7.2	4.0		
	9400	HUAN	2	S/F	1550.2	1551.8	3.3	9.4	5.2		0
	245	SGMR	47	GB	1620.1	1620.1	.2	180.0			QL=5 ST=2 TYP=5
	2800	OTTA	8	S	1657.0	1657.2	.4	2.8			
	610	SGMR	47	GB	1657.1	1657.1	.5	130.0			QL=5 ST=2 TYP=5
	245	SGMR	49	GB	1657.1	1657.3	.5	580.0			QL=5 ST=2 TYP=6
	410	SGMR	47	GB	1657.1	1657.3	.5	360.0			QL=5 ST=2 TYP=5
	9400	HUAN	28	PRE	1734.8	1750.0	15.2	2.3	1.6		0
	2800	OTTA	4	S/F	1750.0	1751.0	3.0	48.0	14.0		
	245	PALE	49	GB	1750.0	1750.1	1.6	8300.0			QL=6 ST=2 TYP=6
	245	SGMR	49	GB	1750.0	1750.3	1.8	5000.0			QL=5 ST=2 TYP=6
	9400	HUAN	4	S/F	1750.0	1751.0	2.4	81.2	31.7		L
	410	PALE	49	GB	1750.1	1750.3	1.4	1000.0			QL=6 ST=2 TYP=6
	410	SGMR	49	GB	1750.1	1750.3	1.5	580.0			QL=5 ST=2 TYP=6
	1415	PALE	47	GB	1750.1	1750.3	2.0	83.0			QL=6 ST=2 TYP=5
	8800	PALE	47	GB	1750.1	1750.8	1.7	119.0			QL=6 ST=2 TYP=5
	1415	SGMR	47	GB	1750.1	1751.1	2.2	69.0			QL=5 ST=2 TYP=5
	4995	SGMR	47	GB	1750.1	1751.1	1.7	96.0			QL=5 ST=2 TYP=5
	4995	PALE	47	GB	1750.1	1751.1	1.7	91.0			QL=6 ST=2 TYP=5
	610	SGMR	4	S/F	1750.3	1751.1	2.2	37.0			QL=5 ST=2 TYP=3
	2695	SGMR	8	S	1750.3	1751.1	1.5	47.0			QL=5 ST=2 TYP=3
	2695	PALE	8	S	1750.3	1751.1	1.5	47.0			QL=6 ST=2 TYP=3
	15400	PALE	47	GB	1750.5	1750.8	1.1	70.0			QL=6 ST=2 TYP=5
	8800	SGMR	47	GB	1750.6	1751.0	1.0	94.0			QL=5 ST=2 TYP=5
	610	PALE	8	S	1750.6	1751.1	1.5	34.0			QL=6 ST=2 TYP=3
	2800	OTTA	20	GRF	1803.0	1805.0	14.0	3.6	1.8		
	2800	OTTA	20	GRF	1823.0	1827.0	20.0	4.4	2.2		
	2800	OTTA	21	GRF	1855.0	1925.0	70.0	8.2			
	2800	OTTA	45	C	1857.0	1859.0	5.0	30.0	15.0		
	9400	HUAN	2	S/F	1857.0	1859.0	3.0	10.9	5.7		0
	2695	PALE	4	S/F	1857.6	1859.0	5.7	35.0			QL=6 ST=2 TYP=3
	4995	PALE	8	S	1858.1	1859.0	1.5	24.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	1858.1	1859.1	1.7	19.0			QL=6 ST=2 TYP=3
	15400	PALE	8	S	1859.1	1859.3	.4	17.0			QL=6 ST=2 TYP=3
	410	PALE	8	S	1900.8	1900.8	.5	28.0			QL=6 ST=2 TYP=3
	1415	PALE	8	S	1900.8	1901.0	.3	13.0			QL=6 ST=2 TYP=3
	2800	OTTA	29	PBI	1902.0	1902.0	13.0	8.6	2.8		
	9400	HUAN	29	PBI	1903.0	1903.0	33.0	3.1	1.7		0
	8800	PALE	8	S	1903.3	1903.5	.5	42.0			QL=6 ST=2 TYP=3
	15400	PALE	8	S	1903.5	1903.8	.3	17.0			QL=6 ST=2 TYP=3
	9400	HUAN	4	S/F	2004.5	2006.0	7.1	15.6	6.6		L
	8800	PALE	4	S/F	2005.5	2006.3	2.3	27.0			QL=6 ST=2 TYP=3
	2800	OTTA	20	GRF	2055.0	2100.0	45.0	2.6	2.0		
	15400	PALE	8	S	2128.1	2128.1	.5	34.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	2219.0	2219.7	3.0	8.0	2.0		
	3750	TYKW	45	C	2227.0	2229.3	10.0	20.0	5.0		
	2695	PENT	1	S	2228.8	2229.0	2.0	4.4	2.2		
	2000	TYKW	45	C	2229.0	2232.7	7.0	9.0	3.0		
	3750	TYKW	30	PBI	2237.0		30.0	4.0	2.0		
	2000	TYKW	5	S	2253.0	2253.3	1.0	14.0	2.0		
	2695	PENT	1	S	2253.0	2253.3	1.0	4.0			
	3750	TYKW	5	S	2253.0	2253.4	1.0	3.0	1.0		
	1000	TYKW	5	S	2253.0	2253.4	1.5	13.0	2.0		
	3750	TYKW	45	C	2329.0	2340.0	40.0	13.0	8.0		
	2695	PENT	21	GRF	2330.0	2350.0	40.0	6.4			
	2000	TYKW	45	C	2331.0	2343.2	19.0	10.0	5.0		
	9400	TYKW	20	GRF	2332.0	2348.0	80.0	12.0	5.0		
	2695	PENT	1	S	2336.0	2340.0	10.0	8.8	4.2		
	2000	TYKW	29	PBI	2350.0		55.0	5.0	2.0		

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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
25	208	VORO	44	NS	0000.0E		300.0D		16.0		
	100	GORK	44	NS	0518.0E		342.0D		5.0		
	200	GORK	44	NS	0528.0E		334.0D		5.0		
	260	ONDR	44	NS	0813.0E		287.0D	8.0			
	127	TORN	44	NS	1110.0E		230.0D		1.0		V=1
	3750	TYKW	30	PBI	0009.0		150.0	6.0	3.0		
	2695	PENT	1	S	0041.0	0041.5	1.5	6.8	3.4		
	3750	TYKW	5	S	0102.5	0103.4	2.0	1.5	0.5		
	9400	TYKW	5	S	0127.3	0127.6	2.5	5.0	2.0		
	9400	TYKW	20	GRF	0137.0	0205.0	70.0	4.0	2.0		
	3750	TYKW	21	GRF	0138.0	0204.0	60.0	4.0	2.0		
	3750	TYKW	5	S	0139.0	0140.0	10.0	2.0	1.0		
	2000	TYKW	20	GRF	0151.0	0205.0	60.0	3.0	1.5		
	410	LEAR	8	S	0202.8	0203.3	1.0	18.0			QL=6 ST=2 TYP=3
	410	PALE	8	S	0203.1	0203.3	.5	41.0			QL=6 ST=3 TYP=3
	2000	TYKW	47	GB	0309.0	0313.0	20.0	740.0	45.0		
	3750	TYKW	47	GB	0309.0	0313.4	60.0	650.0	45.0		
	9400	TYKW	47	GB	0310.0	0313.5	60.0	560.0	50.0		
	2930	VORO	47	GB	0310.0	0315.0	15.0	660.0D			
	1000	TYKW	45	C	0310.0	0316.8	19.0	335.0	20.0		
	500	HIRA	46	C	0310.0	0313.1	11.0	170.0	20.0		WL
	500	HIRA			0310.0	0317.6		60.0			WL
	1415	LEAR	49	GB	0310.3	0312.3	11.3	840.0			QL=6 ST=2 TYP=6
	1415	PALE	49	GB	0310.6	0312.3	7.7	890.0			QL=6 ST=2 TYP=6
	2695	LEAR	49	GB	0310.6	0313.3	29.5	510.0			QL=6 ST=2 TYP=6
	8800	PALE	49	GB	0310.6	0313.3		650.0			QL=6 ST=2 TYP=6
	2695	PALE	47	GB	0310.6	0313.3	18.5	480.0			QL=6 ST=2 TYP=5
	4995	LEAR	49	GB	0310.6	0313.3	29.5	700.0			QL=6 ST=2 TYP=6
	4995	PALE	49	GB	0310.6	0313.3	18.5	660.0			QL=6 ST=2 TYP=6
	17000	NOBE	7	C	0310.6	0313.4	5.4	156.0			L
	15400	LEAR	47	GB	0310.8	0313.3	29.3	189.0			QL=6 ST=2 TYP=5
	8800	LEAR	47	GB	0310.8	0313.3	29.3	500.0			QL=6 ST=2 TYP=5
	610	LEAR	47	GB	0311.6	0312.6	5.7	60.0			QL=6 ST=2 TYP=5
	610	PALE	47	GB	0311.6	0312.6	5.5	62.0			QL=6 ST=2 TYP=5
	410	LEAR	47	GB	0316.0	0316.6	4.8	60.0			QL=6 ST=2 TYP=5
	410	PALE	47	GB	0316.0	0316.8	4.8	72.0			QL=6 ST=2 TYP=5
	17000	NOBE	29	PBI	0316.0	0332.0	80.0	60.0			L
	2902	YUNN	47	GB	0318.0	0320.0	10.0	25.0			
	1000	TYKW	30	PBI	0329.0		145.0	5.0	2.0		
	2000	TYKW	29	PBI	0329.0		160.0	14.0	6.0		
	1000	TYKW	45	C	0335.7	0336.0	1.0	7.0	1.5		
	3750	TYKW	30	PBI	0409.0		190.0	18.0	9.0		
	9400	TYKW	30	PBI	0410.0		110.0	18.0	7.0		
	200	HIRA	42	SER	0413.3	0416.7	27.0	155.0			SR
	9400	TYKW	5	S	0417.0	0417.8	3.0	15.0	6.0		
	3750	TYKW	45	C	0417.0	0418.0	3.0	6.0	2.0		
	9400	TYKW	29	PBI	0420.0		10.0	3.0	1.5		
	3750	TYKW	5	S	0450.0	0451.4	9.0	3.0	1.0		
	9100	GORK	21	GRF	0524.0E	0932.2	349.0D	16.0			
	9400	TYKW	45	C	0525.0	0526.0	20.0	8.0	3.0		
	3750	TYKW	5	S	0529.0	0532.0	10.0	2.0	1.0		
	6100	KISV	20	GRF	0620.0	0622.0	22.0	8.0			
	3750	TYKW	45	C	0621.0	0622.0	7.0	6.0	2.0		
	9400	TYKW	5	S	0621.0	0624.0	10.0	6.0	2.0		
	245	LEAR	8	S	0707.3	0707.6	.3	9.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0707.5	0707.6	.3	21.0			QL=6 ST=2 TYP=3
	5200	BERN	45	C	0859.0	0905.9	40.0	50.0			
	8400	BERN	3	S	0859.0	0906.0	40.0U	26.0			
	3100	BERN	45	C	0859.0	0906.1	40.0	61.0			
	3000	IZMI	7	C	0900.0	0905.2	10.0	50.0	25.0		
	2950	GORK	45	C	0901.8	0903.7	6.3	23.0			
	2950	GORK			0901.8	0905.2		32.0			
	2950	GORK	45	C	0901.8	0906.2		34.0			
	9500	POTS	20	GRF	0902.0	0906.0	53.0	12.0			
	3000	POTS	28	PRE	0902.0	0906.2	48.0	42.0			
	9100	GORK	1	S	0904.7	0906.2	3.2	11.0	2.0		
	1470	POTS	3	S	0905.0	0906.2	2.0	9.0			
	2950	GORK	29	PBI	0908.3	0908.3	30.0	10.8			
	204	IZMI	5	S	1023.2	1023.5	1.0	340.0	260.0		
	430	KRAK	8	S	1053.8	1053.9	.2	13.0			
	5200	BERN	3	S	1149.5	1154.4	14.0	53.0			

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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
25	8400	BERN	3	S	1149.5	1154.4	14.0	38.0			
	3100	BERN	3	S	1149.5	1154.5	14.0	20.0			
	430	KRAK	8	S	1149.6	1149.6	.2	54.0			
	3000	POTS	28	PRE	1150.0	1154.5	55.0	18.0			
	9500	POTS	28	PRE	1150.0	1154.5	55.0	22.0			
	536	ONDR	40	F	1153.0	1153.5	3.0	19.0			
	9400	HUAN	2	S/F	1153.6	1154.5	4.6	16.2	12.3		L
	810	KRAK	8	S	1155.8	1155.8	.2	9.0			
	2800	OTTA	20	GRF	1305.0	1313.0	20.0	4.2	2.1		
	234	POTS	8	S	1431.5	1431.5	.5	375.0	125.0		
	9400	HUAN	1	S	1524.4	1526.3	4.8	8.1	3.6		L
	245	SGMR	49	GB	1639.6	1639.8	.7	1399.0			QL=6 ST=2 TYP=6
	2800	OTTA	21	GRF	1640.0	1740.0	180.0	14.2	6.8		
	410	SGMR	47	GB	1659.3	1659.8	.7	95.0			QL=6 ST=2 TYP=5
	245	SGMR	47	GB	1659.6	1659.8	.7	219.0			QL=6 ST=2 TYP=5
	9400	HUAN	22	GRF	1701.4	1720.8	78.5	13.5	6.9		0
	2695	PENT	22	GRF	1703.0	1705.0	13.0	7.8	3.9		
	2695	SGMR	4	S/F	1718.8	1721.3	3.7	16.0			QL=6 ST=2 TYP=3
	2800	OTTA	20	GRF	1719.0	1722.5	18.0	8.8	4.4		
	15400	SGMR	4	S/F	1719.0	1720.5	4.5	16.0			QL=6 ST=2 TYP=3
	4995	SGMR	4	S/F	1719.6	1721.0	2.5	18.0			QL=6 ST=2 TYP=3
	8800	SGMR	8	S	1720.8	1720.8	.3	16.0			QL=6 ST=2 TYP=3
	2800	OTTA	2	S/F	1746.0	1748.0	9.0	7.8	2.8		
	2800	OTTA	21	GRF	2200.0	2210.0	20.0	3.2	1.6		
	2800	OTTA	4	S/F	2205.0	2205.3	2.5	10.6	3.6		
	2000	TYKW	45	C	2206.0	2206.3	1.5	9.0	1.5		
	3750	TYKW	5	S	2206.0	2206.6	1.5	4.0	1.5		
	2695	PENT	28	PRE	2221.0	2226.3	9.0	4.2			
	3750	TYKW	45	C	2223.0	2232.7	17.0	32.0	11.0		
	9400	HUAN	2	S/F	2229.4	2232.9	7.8	17.6	9.3		L
	2695	PENT	3	S	2230.0	2232.7	12.0	27.0	15.0		
	2000	TYKW	45	C	2230.0	2232.8	5.0	9.0	5.0		
	9400	TYKW	21	GRF	2230.0	2233.0	55.0	12.0	5.0		RAIN
	2695	PALE	4	S/F	2231.1	2232.8	7.0	33.0			QL=6 ST=2 TYP=3
	4995	PALE	4	S/F	2231.6	2232.8	2.2	20.0			QL=6 ST=2 TYP=3
	15400	PALE	8	S	2231.6	2232.8	1.5	25.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	2232.1	2232.8	1.0	23.0			QL=6 ST=2 TYP=3
	2000	TYKW	29	PBI	2235.0		50.0	5.0	2.5		
	3750	TYKW	29	PBI	2240.0		40.0	13.0	5.0		
	2695	PENT	29	PBI	2242.0	2242.0	55.0	9.0	5.6		
	9400	TYKW	45	C	2246.5	2247.4	5.0	9.0	3.0		
	17000	NOBE	1	S	2255.5	2255.7	.5	15.0			0
	245	LEAR	8	S	2303.0	2303.1	.1	19.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	2303.0	2303.1	.1	4.0			QL=6 ST=2 TYP=3
26	260	ONDR	44	NS	0757.0E		436.0D	32.0			
	127	TORN	43	NS	1040.0	1235.8	260.0	60.0	38.0		V=0
	200	HIRA	44	NS	2349.0E	0636.0	490.0D	10.0	4.0		MR
	500	HIRA	8	S	0033.3	0033.6	.5	30.0			WR
	245	LEAR	8	S	0033.8	0034.0	.3	10.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0033.8	0034.0	.3	18.0			QL=6 ST=2 TYP=3
	9400	TYKW	45	C	0038.0	0038.6	2.0	8.0	3.0		RAIN
	100	HIRA	46	C	0102.1	0103.5	2.7	350.0	68.0		
	200	HIRA	46	C	0102.2	0103.0	1.7	185.0	34.0		0
	245	LEAR	8	S	0102.6	0104.0	1.5	55.0			QL=6 ST=3 TYP=3
	2000	TYKW	20	GRF	0128.0	0130.0	30.0	1.5	0.7		
	17000	NOBE	1	S	0157.0	0157.2	.8	23.0			L
	15400	PALE	8	S	0157.1	0157.1	.4	31.0			QL=6 ST=2 TYP=3
	15400	LEAR	8	S	0157.1	0157.1	.7	33.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0209.0	0212.7	12.0	3.0	1.0		
	3750	TYKW	21	GRF	0246.0	0248.0	90.0	2.0	1.0		
	9400	TYKW	5	S	0247.0	0249.0	4.0	3.0	1.0		
	9400	TYKW	45	C	0348.0	0348.8	4.0	13.0	8.0		RAIN
	3750	TYKW	5	S	0348.0	0351.0	25.0	3.0	1.5		
	9400	TYKW	29	PBI	0352.0		10.0	6.0	3.0		
	9400	TYKW	20	GRF	0410.0	0415.0	35.0	12.0	4.0		
	9100	GORK	23	GRF	0551.0	0652.0	342.0	14.0			
	245	LEAR	4	S/F	0600.1	0606.0	8.7	33.0			QL=6 ST=2 TYP=3
	3750	TYKW	45	C	0603.0	0606.6	6.0	32.0	7.0		
	9400	TYKW	5	S	0603.0	0607.0U	7.0	13.0	6.0D		
	6100	KISV	4	S/F	0605.0	0606.6	5.0	52.0			

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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
26	2840	PEKG	3	S	0605.0	0606.8	7.0	12.8	3.2		
	610	LEAR	4	S/F	0605.0	0606.8	4.6	9.0			QL=6 ST=2 TYP=3
	9100	GORK	4	S/F	0605.3	0606.6	3.0	36.0	12.0		
	1415	LEAR	4	S/F	0605.8	0606.6	5.2	10.0			QL=6 ST=2 TYP=3
	500	HIRA	45	C	0606.0	0606.0	2.0	12.0	4.0		WL
	410	LEAR	47	GB	0606.1	0606.3	2.4	130.0			QL=6 ST=2 TYP=5
	4995	LEAR	8	S	0606.1	0606.6	1.2	43.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0606.1	0606.6	1.5	41.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	0606.1	0606.8	2.2	11.0			QL=6 ST=2 TYP=3
	2950	GORK	1	S	0606.2	0606.7	.9	7.8	3.6		
	15400	LEAR	47	GB	0606.6	0608.3	1.9	50.0			QL=6 ST=2 TYP=5
	3750	TYKW	30	PBI	0609.0		85.0	4.0	2.0		
	9400	TYKW	29	PBI	0610.0		10.0	6.0	3.0		RAIN
	6100	KISV	29	PBI	0610.0	0610.0	20.0	12.0			
	3750	TYKW	5	S	0615.0	0616.7	5.0	2.0	0.7		
	100	HIRA	42	SER	0620.0	0620.2	9.0	180.0			
	245	LEAR	4	S/F	0626.8	0628.1	2.7	10.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0637.0	0638.0	3.0	1.5	0.5		
	9400	TYKW	45	C	0637.0	0638.4	2.5	8.0	3.0		
	8800	LEAR	4	S/F	0637.1	0638.5	2.2	11.0			QL=6 ST=2 TYP=3
	4995	LEAR	8	S	0637.5	0638.3	1.6	3.0			QL=6 ST=2 TYP=3
	9100	GORK	1	S	0637.6	0638.4	1.3	9.0	4.0		
	6100	KISV	1	S	0638.0	0638.6	1.0	7.0			
	33	UPIC	45	C	0827.8	0827.9	1.0				
	29	UPIC	45	C	0827.8	0828.0	.9				
	2950	GORK	1	S	0835.5	0836.0	6.0	4.7	2.2		
	5200	BERN	3	S	0927.0	0927.8	11.0	32.0			
	8400	BERN	1	S	0927.0	0927.8	11.0	19.0			
	4995	LEAR	8	S	0927.1	0928.0	2.0	13.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	0927.1	0928.0	4.7	15.0			QL=6 ST=2 TYP=3
	6100	KISV	2	S/F	0927.2	0927.9	2.0	12.0			
	9500	POTS	3	S	0927.5	0927.8	2.0	11.0			
	15400	LEAR	4	S/F	0927.5	0929.3	5.8	30.0			QL=6 ST=2 TYP=3
	9100	GORK	1	S	0933.4	0933.9	1.5	9.0	4.5		
	100	GORK	46	C	0949.4	0950.0	10.3	140.0			
	100	GORK			0949.4	0950.3		300.0			
	29	UPIC	45	C	0949.6	0950.2	1.6				
	33	UPIC	45	C	0949.7	0950.3	1.3				
	245	LEAR	47	GB	0949.8	0950.1	.7	78.0			QL=6 ST=2 TYP=5
	204	IZMI	41	F	0950.0	0950.1	.6	135.0			
	33	UPIC	4	S/F	1008.7	1008.7	.3				
	8400	BERN	1	S	1033.2	1035.0	4.0	23.0			
	5200	BERN	1	S	1033.2	1035.1	4.0	23.0			
	3100	BERN	1	S	1033.2	1035.2	4.0	13.0			
	6100	KISV	2	S/F	1034.4	1035.1	2.0	17.0			
	9100	GORK	1	S	1034.5	1035.1	1.3	11.0	5.7		
	2950	GORK	1	S	1034.6	1035.1	.9	5.4	2.6		
	9500	POTS	3	S	1035.0	1035.0	3.0	13.0			
	1470	POTS	1	S	1035.0	1035.1	3.0	3.0			
	3000	POTS	3	S	1035.0	1035.2	1.5	9.0			
	9500	POTS	1	S	1053.5	1054.0	3.5	10.0			
	9100	GORK	1	S	1053.8	1054.0	1.1	8.0	3.8		
	234	POTS	45	C	1140.0	1244.0	170.0D	190.0			II+III+IV
	113	POTS	49	GB	1140.0	1301.0	170.0D	420.0			II+III+IV
	6100	KISV	20	GRF	1142.0	1146.2	18.0	13.0			
	260	ONDR	46	C	1154.0	1155.0	4.0	28.0	7.0		
	204	IZMI	41	F	1155.0	1155.4	3.0	60.0			
	260	ONDR		PRE	1202.0	1222.0	20.0U	4.0			
	536	ONDR	40	F	1219.0	1219.0	15.0	29.0			
	430	KRAK	27	RF	1220.5	1236.8	129.0D	78.0	45.0D		
	430	KRAK			1220.5	1336.2		270.0			
	3000	POTS	46	C	1222.5	1235.7	83.0	126.0			
	1470	POTS	46	C	1222.5	1236.6	88.0	140.0			
	3000	POTS			1222.5	1250.8		124.0			
	1470	POTS			1222.5	1251.2		77.0			
	1415	ATHN	47	GB	1222.8	1236.3	45.8	139.0			QL=6 ST=2 TYP=5
	810	KRAK	27	RF	1223.0	1236.8	126.0D	190.0	21.0D		
	810	KRAK			1223.0	1328.8		100.0			
	9400	HUAN	21	GRF	1223.3	1256.6	102.4	26.5	14.3		R
	808	ONDR	28	PRE	1225.0		9.5	23.0			
	3100	BERN	46	C	1225.0	1235.6	100.0U	203.0			

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26	11800	BERN	46	C	1225.0	1250.6	100.0U	54.0			
	5200	BERN	46	C	1225.0	1250.8	100.0U	107.0			
	8400	BERN	46	C	1225.0	1250.8	100.0U	99.0			
	9500	POTS	46	C	1229.0	1236.0	111.0D	29.0			
	9500	POTS			1229.0	1251.2		61.0			
	8800	ATHN	4	S/F	1229.3	1230.5	2.3	29.0			QL=6 ST=2 TYP=3
	9400	HUAN	2	S/F	1229.5	1230.4	2.6	17.7	9.8		L
	260	ONDR	46	C	1230.0	1243.5U	17.0	143.0	75.0D		
	2695	ATHN	47	GB	1231.8	1251.1	27.2	139.0			QL=6 ST=2 TYP=5
	2800	OTTA	46F	C	1233.0	1251.0	27.0	138.0	56.8		
	29	UPIC	41	F	1234.1	1236.0	74.1				
	536	ONDR	46	C	1234.2		4.5		75.0		
	536	ONDR			1234.2	1236.0		168.0			
	536	ONDR			1234.2	1237.5		78.0			
	9400	HUAN	3	S	1234.3	1235.9	3.9	31.0	13.4		R
	808	ONDR	46	C	1234.5		4.5		234.0		
	808	ONDR			1234.5	1236.0		291.0			
	808	ONDR			1234.5	1237.0		124.0			
	4995	ATHN	47	GB	1234.6	1250.6	23.9	96.0			QL=6 ST=2 TYP=5
	33	UPIC	41	F	1235.1	1235.6	77.3				
	8800	ATHN	47	GB	1235.6	1251.0	21.2	71.0			QL=6 ST=2 TYP=5
	536	ONDR	40	F	1239.0	1301.0	28.0	90.0			
	808	ONDR	29	PBI	1239.0	1322.5	121.0	100.0	67.0		
	9400	HUAN	1	S	1239.2	1239.8	1.6	10.3	6.4		0
	127	TORN	27	RF	1242.0	1255.0	43.5	640.0	160.0		
	260	ONDR	29	PBI	1247.0	1353.3	66.3U	34.0	32.0		
	9400	HUAN	4	S/F	1247.2	1251.3	7.8	45.7	24.5		R
	2800	OTTA	30	PBI	1300.0	1300.0	190.0	17.4	8.7		
	2800	OTTA	1	S	1304.0	1305.0	7.0	4.6	2.0		
	260	ONDR	29	PBI	1305.5	1404.5	84.0	103.0	90.0		
	536	ONDR	46	C	1307.0		36.0		250.0		
	260	ONDR	46	C	1307.0	1326.8	28.5	87.0	78.0		
	536	ONDR			1307.0	1328.5		191.0			
	536	ONDR			1307.0	1334.0		291.0			
	536	ONDR			1307.0	1339.0		535.0D			
	2800	OTTA	20	GRF	1322.0	1327.0	25.0	12.6	5.0		
	1415	ATHN	4	S/F	1322.1	1327.1	13.7	38.0			QL=6 ST=2 TYP=3
	2695	ATHN	4	S/F	1323.1	1327.6	7.4	18.0			QL=6 ST=2 TYP=3
	536	ONDR		PBI	1343.0	1343.5		106.0	100.0		
	536	ONDR	46	C	1402.5		18.0		93.0		
	536	ONDR			1402.5	1404.5		151.0			
	536	ONDR			1402.5	1411.5		157.0			
	536	ONDR	29	PBI	1416.0	1423.0	54.0	95.0	62.0		
	9400	HUAN	20	GRF	1631.7	1639.2	17.6	7.4	2.2		0
	2800	OTTA	40	F	1723.0	1723.8	1.0	7.0			
	2800	OTTA	21	GRF	1830.0	1857.0	230.0	10.4	3.6		
	9400	HUAN	1	S	1830.1	1830.9	3.2	11.8	6.8		L
	2800	OTTA	1	S	1830.2	1830.9	3.5	3.2	1.6		
	9400	HUAN	2	S/F	2028.2	2028.7	2.4	10.3	8.3		L
	9400	HUAN	1	S	2141.4	2141.9	3.0	11.8	4.3		0
	15400	PALE	8	S	2141.6	2141.8	.5	43.0			QL=6 ST=2 TYP=3
	500	HIRA	45	C	2245.0	2250.8	34.0	15.0	3.0		WR
	3750	TYKW	20	GRF	2315.0	2322.0	40.0	2.0	1.0		
	9400	TYKW	5	S	2337.7	2338.0	0.7	16.0	5.0		RAIN
	15400	PALE	8	S	2337.8	2337.8	.3	30.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	2337.8	2338.0	.5	28.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	2339.3	2339.3	.3	18.0			QL=5 ST=2 TYP=3
	410	LEAR	8	S	2339.3	2339.3	.3	17.0			QL=5 ST=2 TYP=3
	610	LEAR	8	S	2339.3	2339.3	.3	20.0			QL=5 ST=2 TYP=3
27	200	GORK	44	NS	0521.0E		399.0D		5.0		
	260	ONDR	44	NS	0750.0E		406.0D	18.0			
	100	GORK	43	NS	0957.0		123.0		5.0		
	3750	TYKW	20	GRF	0025.0	0043.0	75.0	4.0	2.0		
	9400	TYKW	5	S	0026.0	0026.3	1.5	6.0	2.0		RAIN
	245	LEAR	8	S	0033.6	0034.1	1.2	19.0			QL=6 ST=2 TYP=3
	3750	TYKW	45	C	0203.0	0211.7	20.0	8.0	3.0		
	3750	TYKW	30	PBI	0223.0		25.0	1.5	0.7		
	2840	PEKG	3	S	0226.0	0228.5	6.0	17.2	6.2		
	2000	TYKW	5	S	0226.5	0228.3	3.5	7.0	3.0		
	3750	TYKW	45	C	0227.0	0228.3	2.0	8.0	3.0		

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27	3750	TYKW	29	PBI	0229.0		12.0	2.0	1.0		
	2000	TYKW	29	PBI	0230.0		10.0	2.0	1.0		
	2902	YUNN	4	S/F	0262.0	0228.4	11.8	17.0			
	3750	TYKW	5	S	0303.0	0304.5	6.0	2.0	0.7		
	2000	TYKW	20	GRF	0304.0	0330.0	65.0	1.5	0.7		
	4995	LEAR	20	GRF	0316.8	0326.1	21.2	9.0			QL=6 ST=2 TYP=2
	8800	LEAR	20	GRF	0316.8	0326.1	21.2	11.0			QL=6 ST=2 TYP=2
	3750	TYKW	21	GRF	0318.0	0334.0	130.0	2.0	1.0		
	3750	TYKW	5	S	0345.0	0350.0	11.0	5.0	2.0		
	3750	TYKW	30	PBI	0356.0		25.0	2.0	1.0		
	3750	TYKW	5	S	0359.0	0401.0	9.0	2.0	0.7		
	3750	TYKW	5	S	0412.0	0413.5	6.0	1.0	0.3		
	3750	TYKW	5	S	0423.0	0431.0	13.0	6.0	3.0		
	3750	TYKW	30	PBI	0436.0		50.0	2.0	1.0		
	3750	TYKW	5	S	0448.0	0449.7	4.0	2.0	0.7		
	3750	TYKW	5	S	0454.0	0456.4	12.0	2.0	1.0		
	9400	TYKW	5	S	0507.0	0507.4	3.0	9.0	2.0		RAIN
	15400	LEAR	8	S	0507.0	0507.5	1.0	11.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0507.0	0507.8	.8	6.0			QL=6 ST=2 TYP=3
	17000	NOBE	1	S	0512.7	0513.0	7.0	17.0			0
	15400	LEAR	8	S	0512.8	0513.0	.5	17.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0517.0	0517.7	5.0	5.0	2.0		
	15400	LEAR	8	S	0517.0	0517.8	1.6	13.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	0517.3	0518.8	3.8	6.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0538.6	0538.8	.2	24.0			QL=6 ST=3 TYP=3
	410	LEAR	8	S	0538.8	0538.8	.5	6.0			QL=6 ST=3 TYP=3
	9100	GORK	21	GRF	0548.0E	0551.0	39.7D	9.5			
	245	LEAR	4	S/F	0555.3	0602.1	7.5	20.0			QL=1 ST=2 TYP=3
	3750	TYKW	5	S	0556.0	0556.2	0.6	5.0	1.5		
	9400	TYKW	5	S	0556.0	0556.3	2.0	24.0	5.0		
	9100	GORK	1	S	0556.0	0556.2	1.2	27.0	13.0		
	8800	LEAR	8	S	0556.0	0556.3	1.8	28.0			QL=6 ST=2 TYP=3
	4995	LEAR	8	S	0556.0	0556.3	.8	11.0			QL=6 ST=2 TYP=3
	9400	TYKW	45	C	0610.0	0612.0	6.0	6.0	2.0		
	245	LEAR	4	S/F	0628.1	0629.6	2.4	13.0			QL=6 ST=3 TYP=3
	9400	TYKW	5	S	0717.5	0718.1	1.5	16.0	5.0		
	9100	GORK	20	GRF	0725.3	0744.2	38.8	5.0			
	9400	TYKW	45	C	0731.5	0732.2	1.5	10.0	3.0		
	810	KRAK	2	S/F	0814.4	0814.5	1.8	23.0	10.0		
	245	LEAR	8	S	0841.0	0842.1	1.6	11.0			QL=6 ST=2 TYP=3
	1470	POTS	20	GRF	0850.0	0917.0	67.0	4.0			
	9500	POTS	21	GRF	0850.0	0919.3	140.0	25.0			
	3000	POTS	20	GRF	0852.0	0939.0U	161.0	14.0			
	8800	LEAR	47	GB	0852.0	0853.6	7.8	97.0			QL=6 ST=2 TYP=5
	3100	CRIM	20	GRF	0852.0	0902.0	33.0	16.0	5.0		
	9100	GORK	23	GRF	0852.0	0919.1	218.0	25.0			
	15400	LEAR	47	GB	0852.3	0853.6	6.7	450.0			QL=6 ST=2 TYP=5
	5200	BERN	45	C	0852.5	0853.5	25.0U	42.0			
	11800	BERN	4	S/F	0852.5	0853.6	25.0U	240.0			
	50000	BERN	3	S	0852.5	0853.6	25.0U	595.0			
	8400	BERN	45	C	0852.5	0853.6	25.0U	125.0			
	35000	BERN	3	S	0852.5	0853.6	25.0U	534.0			
	19600	BERN	4	S/F	0852.5	0853.6	25.0U	345.0			
	6100	KISV	45	C	0852.5	0853.6	3.0	43.0			
	6100	KISV			0852.5	0854.5		28.0			
	3100	BERN	45	C	0852.5	0902.2	25.0U	19.0			
	9500	POTS	4	S/F	0853.0	0853.5	2.0	150.0			
	9100	GORK	45	C	0853.1	0853.6	3.1	110.0			
	9100	GORK			0853.1	0854.5		50.0			
	4995	LEAR	4	S/F	0853.5	0853.6	5.5	26.0			QL=6 ST=2 TYP=3
	2950	GORK	20	GRF	0857.0	0903.0	64.0	7.7	3.7		
	4995	LEAR	20	GRF	0859.8	0901.8	17.0	29.0			QL=6 ST=2 TYP=2
	9100	GORK	1	S	0954.5	0954.7	1.1	16.0	8.0		
	9500	POTS	3	S	0954.5	0954.8	1.5	25.0			
	33	UPIC	1	S	1057.8	1057.9	.2				
	29	UPIC	1	S	1057.9	1058.1	.4				
	9100	GORK	1	S	1228.6	1228.8	.8	4.0	2.0		
	33	UPIC	2	S/F	1346.8	1346.8	.3				
	29	UPIC	2	S/F	1347.0	1347.0	.4				
	245	SGMR	47	GB	1445.3	1445.3	.5	94.0			QL=6 ST=2 TYP=5
	245	SGMR	47	GB	1455.5	1455.6	.3	78.0			QL=6 ST=2 TYP=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
27	2800	OTTA	21	GRF	1500.0	1512.0	110.0	7.4	2.0		
	245	SGMR	49	GB	1502.6	1502.8		580.0			QL=6 ST=3 TYP=6
	9400	HUAN	20	GRF	1506.6	1514.5	22.4	10.3	4.0		0
	2800	OTTA	1	S	1508.0	1509.0	2.0	3.4	1.6		
	8800	ATHN	4	S/F	1512.6	1514.1	3.5	34.0			QL=5 ST=2 TYP=3
	8800	ATHN	8	S	1517.6	1518.1	1.0	15.0			QL=5 ST=2 TYP=3
	8800	ATHN	4	S/F	1522.6	1524.3	2.7	19.0			QL=5 ST=2 TYP=3
	9400	HUAN	1	S	1731.8	1733.4	6.4	14.7	5.9		L
	2800	OTTA	4	S/F	1732.0	1733.0	3.0	17.4	9.8		
	15400	SGMR	8	S	1732.1	1732.8	1.5	24.0			QL=6 ST=2 TYP=3
	2695	SGMR	8	S	1732.3	1732.8	1.7	22.0			QL=6 ST=2 TYP=3
	4995	SGMR	8	S	1732.6	1732.8	1.4	22.0			QL=6 ST=2 TYP=3
	8800	SGMR	8	S	1732.8	1732.8	1.0	23.0			QL=6 ST=2 TYP=3
	2800	OTTA	29	PBI	1735.0	1735.0	30.0	5.6	1.6		
	9400	HUAN	20	GRF	1822.9	1837.8	27.8	5.9	4.0		0
	2800	OTTA	21	GRF	2100.0	2135.0	70.0	9.2	4.6		
	4995	SGMR	47	GB	2105.3	2109.1	14.5	71.0			QL=6 ST=2 TYP=5
	8800	SGMR	47	GB	2105.6	2109.3	16.0	210.0			QL=6 ST=2 TYP=5
	9400	HUAN	45	C	2105.7	2109.3	7.6	176.4	65.0		L
	2800	OTTA	3	S	2106.0	2109.0	5.0	40.0	17.4		
	2695	SGMR	4	S/F	2106.3	2109.1	14.2	49.0			QL=6 ST=2 TYP=3
	4995	PALE	47	GB	2106.5	2109.1	7.8	70.0			QL=6 ST=2 TYP=5
	8800	PALE	47	GB	2106.6	2109.1	9.2	200.0			QL=6 ST=2 TYP=5
	15400	PALE	47	GB	2106.8	2109.1	6.5	180.0			QL=6 ST=2 TYP=5
	15400	SGMR	47	GB	2106.8	2109.1	5.5D	189.0			QL=6 ST=2 TYP=5
	2695	PALE	4	S/F	2107.1	2109.1	5.9	46.0			QL=6 ST=2 TYP=3
	1415	SGMR	8	S	2108.1	2109.1	1.0	15.0			QL=6 ST=2 TYP=3
	2800	OTTA	29	PBI	2111.0	2111.0	15.0	11.4	5.7		
	9400	HUAN	29	PBI	2113.3	2113.3	46.7	16.2	11.1		L
	200	HIRA	42	SER	2129.9	2135.0	6.0	205.0			0
	245	SGMR	47	GB	2130.0	2130.6	1.1	239.0			QL=6 ST=2 TYP=5
	245	SGMR	47	GB	2134.8	2135.3	1.3	169.0			QL=6 ST=2 TYP=5
	410	SGMR	8	S	2136.3	2136.5	.5	35.0			QL=6 ST=2 TYP=3
	200	HIRA	41	F	2330.5	2331.0	1.0	57.0			0
	100	HIRA	42	SER	2341.7	2346.9	7.0	370.0			
	200	HIRA	8	S	2342.8	2343.1	.3	210.0			0
	3750	TYKW	21	GRF	2350.0	0014.0	100.0	2.0	1.0		
28	410	LEAR	8	S	0003.1	0003.1	.4	8.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0003.1	0003.3	.7	13.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0012.1	0012.1	.7	25.0			QL=6 ST=2 TYP=3
	3750	TYKW	20	GRF	0025.0	0038.0	40.0	2.0	1.0		
	410	LEAR	8	S	0105.8	0106.0	.3	5.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0105.8	0106.1	.5	8.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0134.8	0135.1	.5	7.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0135.0	0135.1	.3	3.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0144.0	0159.4	20.0	7.0	3.0		
	3750	TYKW	29	PBI	0204.0		20.0	4.0	2.0		
	3750	TYKW	21	GRF	0229.0	0233.0	100.0	4.0	2.0		
	9400	TYKW	20	GRF	0230.0	0234.0	30.0	3.0	1.5		
	2000	TYKW	21	GRF	0230.0	0248.0	50.0	2.0	1.0		
	2000	TYKW	5	S	0231.0	0232.8	4.0	3.0	0.7		
	245	PALE	47	GB	0258.6	0258.8	.4	97.0			QL=6 ST=2 TYP=5
	100	HIRA	41	F	0300.7	0301.3	1.0	74.0			0
	245	LEAR	47	GB	0300.8	0301.3	1.0	13.0			QL=6 ST=3 TYP=5
	410	LEAR	8	S	0301.1	0301.3	.7	18.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	0301.3	0301.3	.3	93.0			QL=6 ST=2 TYP=5
	3750	TYKW	5	S	0303.0E	0303.5	2.0D	5.0	3.0D		
	3750	TYKW	29	PBI	0305.0		25.0	2.0	1.0		
	245	LEAR	4	S/F	0314.0	0315.8	6.5	38.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0316.1	0316.5	1.4	3.0			QL=6 ST=2 TYP=3
	100	HIRA	46	C	0337.0	0337.3	.8	145.0	67.0		
	245	LEAR	8	S	0420.8	0422.1	1.8	3.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0421.6	0422.3	1.0	3.0			QL=6 ST=2 TYP=3
	3750	TYKW	45	C	0422.0	0428.9	9.0	6.0	3.5		
	610	LEAR	8	S	0422.0	0422.1	.8	6.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	0422.1	0424.5	8.2	6.0			QL=6 ST=2 TYP=3
	200	HIRA	46	C	0425.0	0425.3	2.0	106.0	65.0		0
	245	LEAR	47	GB	0425.1	0425.8	2.0	400.0			QL=6 ST=2 TYP=5
	3750	TYKW	29	PBI	0431.0		30.0	3.0	1.5		
	410	LEAR	4	S/F	0454.1	0455.3	2.2	7.0			QL=6 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
28	245	LEAR	8	S	0454.3	0455.0	1.7	3.0			QL=6 ST=2 TYP=3
	1415	LEAR	8	S	0455.1	0455.3	.5	4.0			QL=6 ST=2 TYP=3
	3750	TYKW	21	GRF	0505.0	0510.0	65.0	2.0	1.0		
	245	LEAR	8	S	0523.0	0523.1	.6	34.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0532.8	0533.0	.5	33.0			QL=6 ST=2 TYP=3
	9400	TYKW	45	C	0535.0	0537.3	12.0	17.0	4.0		
	4995	ATHN	4	S/F	0536.3	0537.5	2.2	29.0			QL=4 ST=2 TYP=3
	3750	TYKW	45	C	0536.8	0537.7	7.2	12.0	3.0		
	3750	TYKW	29	PBI	0544.0		15.0	2.0	1.0		
	245	LEAR	8	S	0629.1	0629.1	.2	23.0			QL=1 ST=2 TYP=3
	410	LEAR	8	S	0629.1	0629.1	.4	11.0			QL=1 ST=2 TYP=3
	245	LEAR	8	S	0647.3	0647.6	1.2	4.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0647.3	0647.6	.5	3.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0647.3	0647.6	1.0	5.0			QL=6 ST=2 TYP=3
	3100	CRIM	1	S	0705.8	0707.0	3.0	5.0	2.0		
	15400	LEAR	47	GB	0724.6	0725.0	3.4	110.0			QL=6 ST=2 TYP=5
	17000	NOBE	3	S	0724.7		725.0	114.0			L
	9100	GORK	1	S	0724.7	0725.0	5.1	12.5	5.0		
	9500	POTS	3	S	0724.7	0725.0	1.8	21.0			
	9400	TYKW	5	S	0724.7	0725.0	3.0	12.0	4.0		
	9400	TYKW	5	S	0733.0	0733.3	1.0	5.0	1.5		
	245	LEAR	8	S	0742.8	0743.1	1.0	45.0			QL=6 ST=2 TYP=3
	3100	CRIM	1	S	0748.8	0750.0	2.0	7.0	2.0		
	15400	LEAR	8	S	0830.3	0831.0	1.2	26.0			QL=1 ST=3 TYP=3
	9100	GORK	1	S	0849.2	0850.7	4.3	12.0	4.0		
	9500	POTS	3	S	0850.0	0850.7	2.3	10.0			
	204	IZMI	41	F	1045.4	1046.3	1.5	30.0			
	204	IZMI	41	F	1109.8	1110.0	1.8	50.0			
	2800	OTTA	20	GRF	1305.0	1350.0	100.0	4.8	2.2		
	2800	OTTA	22	GRF	1510.0	1540.0	60.0	2.2	1.1		
	245	SGMR	47	GB	1522.3	1522.5	.7	60.0			QL=6 ST=2 TYP=5
	245	SGMR	47	GB	1559.8	1601.8	4.7	150.0			QL=6 ST=2 TYP=5
	9400	HUAN	2	S/F	1722.9	1723.4	4.0	7.2	4.0		0
	9400	HUAN	1	S	1742.2	1744.4	6.2	8.0	3.7		0
	2800	OTTA	32A	ABS	1810.0	1825.0	30.0	-2.8	-0.9		
	2800	OTTA	1	S	1825.0	1827.5	9.0	3.0	1.5		
	9400	HUAN	22	GRF	1834.8	1842.7	34.1	5.8	2.7		0
	2800	OTTA	20	GRF	1950.0	2000.0	40.0	2.2	1.6		
	2800	OTTA	20	GRF	2035.0	2050.0	45.0	2.0	1.0		
	9400	TYKW	45	C	2202.0	2205.4	20.0	41.0	14.0		
	9400	TYKW			2202.0	2213.7		28.0			
	9400	HUAN	4	S/F	2202.5	2205.3	4.5	39.0	20.5		L
	3750	TYKW	28	PRE	2203.0	2205.5	8.0	6.0	3.0		
	17000	NOBE	1	S	2203.9	2205.3	12.0	30.0			L
	2695	PENT	21	GRF	2205.0	2230.0	125.0	6.0	3.0		
	9400	HUAN	30	PBI	2207.0	2207.0	27.5	8.7	7.2		L
	3750	TYKW	45	C	2211.0	2214.7	9.0	16.0	10.0		
	2695	PENT	20	GRF	2211.0	2215.0	18.0	8.8	4.0		
	9400	HUAN	2	S/F	2212.5	2213.7	7.2	13.0	8.1		L
	3750	TYKW	29	PBI	2220.0		60.0	10.0	5.0		
	9400	TYKW	30	PBI	2222.0		55.0	13.0	6.0		
	3750	TYKW	20	GRF	2226.0	2239.0	65.0	2.0	1.0		
	9400	TYKW	5	S	2233.0	2233.6	1.5	9.0	3.0		
	15400	LEAR	8	S	2251.8	2252.3	1.2	36.0			QL=1 ST=2 TYP=3
	245	LEAR	8	S	2311.0	2311.1	.8	27.0			QL=5 ST=2 TYP=3
	245	LEAR	4	S/F	2325.5	2327.8	8.5	68.0			QL=1 ST=3 TYP=3
	245	PALE	47	GB	2327.3	2327.8	1.5	65.0			QL=1 ST=2 TYP=5
	1415	PALE	8	S	2337.1	2337.1	1.7	22.0			QL=6 ST=2 TYP=3
	1000	TYKW	45	C	2337.7	2339.1	2.5	13.0	3.0		
29	260	ONDR	44	NS	0726.0E		437.0D	5.0			
	245	PALE	43	NS	1714.0	2145.3	645.0D	239.0			QL=6 ST=2 TYP=1
	245	SGMR	43	NS	1951.3	2145.3	138.7D	260.0			QL=6 ST=2 TYP=1
	100	HIRA	44	NS	2108.0E	2137.0U	250.0D	390.0U	27.0U		SUNRISE
	200	HIRA	44	NS	2108.0E	2147.0U	680.0D	46.0U	18.0U		MR, SUNRISE
	245	LEAR	43	NS	2344.8	0016.8	650.2	94.0			QL=1 ST=2 TYP=1
	245	LEAR	47	GB	0014.3	0016.3	3.7	139.0			QL=6 ST=2 TYP=5
	410	LEAR	47	GB	0014.6	0016.3	4.5	10.0			QL=6 ST=2 TYP=5
	610	LEAR	47	GB	0014.8	0016.1	2.8	4.0			QL=6 ST=2 TYP=5
	200	HIRA	46	C	0015.3	0016.0	2.1	117.0	25.0		0
	100	HIRA	46	C	0015.3	0017.0	2.0	86.0	25.0		

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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
29	500	HIRA	6	S	0015.6	0015.7	1.0	7.0	2.0		0
	245	PALE	47	GB	0015.8	0016.1	1.0	139.0			QL=6 ST=2 TYP=5
	9400	TYKW	5	S	0017.0	0017.2	1.0	3.0	1.0		
	100	HIRA	42	SER	0039.7	0042.0	14.3	17.0			
	9400	TYKW	5	S	0042.0	0044.0	11.0	4.0	2.0		
	410	LEAR	4	S/F	0050.3	0052.6	3.3	16.0			QL=6 ST=2 TYP=3
	245	LEAR	4	S/F	0050.8	0051.1	2.8	8.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0057.3	0057.8	1.3	11.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0057.3	0058.0	1.3	9.0			QL=6 ST=2 TYP=3
	3750	TYKW	21	GRF	0123.0	0255.0	210.0	8.0	4.0		
	3750	TYKW	5	S	0152.0	0156.0	20.0	2.0	1.0		
	2000	TYKW	21	GRF	0200.0	0240.0	120.0	1.5	0.7		
	3750	TYKW	45	C	0219.0	0224.0	25.0	2.0	1.0		
	9400	TYKW	21	GRF	0220.0	0245.0	130.0	4.0	2.0		
	410	LEAR	8	S	0324.3	0324.6	.8	11.0			QL=1 ST=2 TYP=3
	3750	TYKW	21	GRF	0326.0	0331.0	80.0	2.0	1.0		
	2000	TYKW	20	GRF	0328.0	0334.0	30.0	1.5	0.7		
	3750	TYKW	5	S	0339.0	0342.5	20.0	3.0	1.5		
	9400	TYKW	5	S	0339.0	0345.0	15.0	4.0	2.0		
	1000	TYKW	5	S	0355.0	0355.7	1.5	3.0	1.0		
	3750	TYKW	5	S	0410.0	0413.3	10.0	2.5	1.0		
	9400	TYKW	5	S	0539.0	0539.8	2.0	3.0	1.0		
	9100	GORK	20	GRF	0718.4	0724.0	20.0	5.8			
	810	KRAK	8	S	0753.5	0753.7	.2	11.0			
	9100	GORK	1	S	0900.0	0900.8	2.2	5.0	2.5		
	9100	GORK	22	GRF	1021.0	1116.0	120.0	12.0	6.0		
	9500	POTS	21	GRF	1111.5	1124.3	69.0	13.0			
	2800	OTTA	27AF	RF	1300.0		205.0	3.2	2.8		
	2800	OTTA	24	R	1300.0	1320.0	20.0	3.2	1.6		
	2800	OTTA	24P	R	1320.0		160.0	3.2			
	2800	OTTA			1355.0	1359.0	5.0D	3.4			
	8800	ATHN	47	GB	1408.3	1408.6	13.3	59.0			QL=6 ST=2 TYP=5
	8800	SGMR	47	GB	1408.5	1408.8	1.3	54.0			QL=6 ST=2 TYP=5
	15400	SGMR	47	GB	1408.5	1408.8	1.6	119.0			QL=6 ST=2 TYP=5
	9500	POTS	3	S	1408.5	1408.8	5.0	61.0			
	2800	OTTA	26	FAL	1600.0	1625.0	25.0	-3.2	-1.6		
	2800	OTTA	23	GRF	1700.0	1920.0	270.0	8.6	4.0		
	2800	OTTA	1	S	1800.0	1800.5	6.0	2.8	1.3		
	245	SGMR	20	GRF	1929.1	1931.3	22.0	22.0			QL=6 ST=3 TYP=2
	410	SGMR	8	S	1930.8	1931.1	.3	19.0			QL=6 ST=2 TYP=3
	610	SGMR	8	S	1930.8	1931.1	.5	19.0			QL=6 ST=2 TYP=3
	410	SGMR	20	GRF	1933.0	1934.6	17.6	26.0			QL=6 ST=3 TYP=2
	610	SGMR	20	GRF	1934.3	1935.5	1.5	27.0			QL=6 ST=3 TYP=2
	410	PALE	8	S	1944.1	1944.8	1.2	27.0			QL=6 ST=2 TYP=3
	2695	PALE	8	S	1944.6	1944.8	.4	17.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	1959.3	2000.6	1.3D	70.0			QL=6 ST=2 TYP=5
	9400	HUAN	20	GRF	2008.6	2015.7	27.7	9.3	5.4		0
	245	PALE	47	GB	2009.8	2010.3	1.0	239.0			QL=6 ST=2 TYP=5
	4995	PALE	8	S	2010.3	2010.6	.3	11.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	2014.8	2014.8	4.8	55.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	2111.8	2111.8	.3	96.0			QL=6 ST=2 TYP=5
	9400	HUAN	1	S	2114.6	2116.8	6.2	4.0	3.0		0
	4995	PALE	4	S/F	2115.1	2115.8	3.2	24.0			QL=6 ST=2 TYP=3
	4995	SGMR	4	S/F	2115.1	2115.8	2.7	24.0			QL=6 ST=3 TYP=3
	9400	HUAN	3	S	2142.5	2144.8	5.1	120.5	33.6		R
	15400	PALE	49	GB	2144.0	2144.8	7.6	560.0			QL=6 ST=2 TYP=6
	8800	PALE	47	GB	2144.3	2144.8	4.7	130.0			QL=6 ST=2 TYP=5
	2800	OTTA	3	S	2144.5	2144.8	1.5	57.0	14.2		
	2695	PALE	47	GB	2144.6	2144.8	.7	55.0			QL=6 ST=2 TYP=5
	2695	SGMR	47	GB	2144.6	2144.8	.7	54.0			QL=6 ST=3 TYP=5
	8800	SGMR	47	GB	2144.6	2144.8	1.0	82.0			QL=6 ST=3 TYP=5
	15400	SGMR	47	GB	2144.6	2144.8	.5	320.0			QL=4 ST=3 TYP=5
	4995	PALE	47	GB	2144.6	2144.8	7.2	92.0			QL=6 ST=2 TYP=5
	4995	SGMR	47	GB	2144.6	2144.8	.7	79.0			QL=6 ST=3 TYP=5
	2800	OTTA	29	PBI	2146.0	2146.0	28.0	4.2	2.4		
	410	SGMR	8	S	2146.0	2146.1	1.1	46.0			QL=6 ST=3 TYP=3
	9400	HUAN	29	PBI	2147.6	2147.6	16.1	14.6	8.8		0
	245	PALE	47	GB	2148.8	2149.1	.3	77.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	2200.6	2200.8	.5	119.0			QL=6 ST=2 TYP=5
	3750	TYKW	5	S	2303.0	2307.0	7.0	1.0	0.5		
	9400	TYKW	5	S	2304.0	2306.0	6.0	2.0	1.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

FEBRUARY 1984

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	9400	TYKW	31	ABS	2310.0	2330.0	50.0	-6.0	-3.0		
	3750	TYKW	31	ABS	2310.0	2335.0	50.0	-1.5	-0.7		
	17000	NOBE	1	S	2310.0	2310.4	1.0	22.0			L
	245	LEAR	47	GB	2334.0	2334.1	.3	70.0			QL=5 ST=2 TYP=5
	2000	TYKW	21	GRF	2343.0	2358.0	70.0	2.0	1.0		

Reports are received routinely from the following observatories:

ATHN = Athens
BERN = Berne
BORD = Bordeaux
CRIM = Crimea
DWIN = Dwingeloo
GORK = Gorky
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = IZMIRAN
KISV = Kislovodsk
KRAK = Krakow
LEAR = Learmonth
MANI = Manila
NAGO = Nagoya
NOBE = Nobeyama
ONDR = Ondrejov
OTTA = Ottawa
PALE = Palehua
PEKG = Peking
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill
TORN = Torun
TYKW = Toyokawa
TRST = Trieste
UPIC = Upice
VORO = Voroshilov

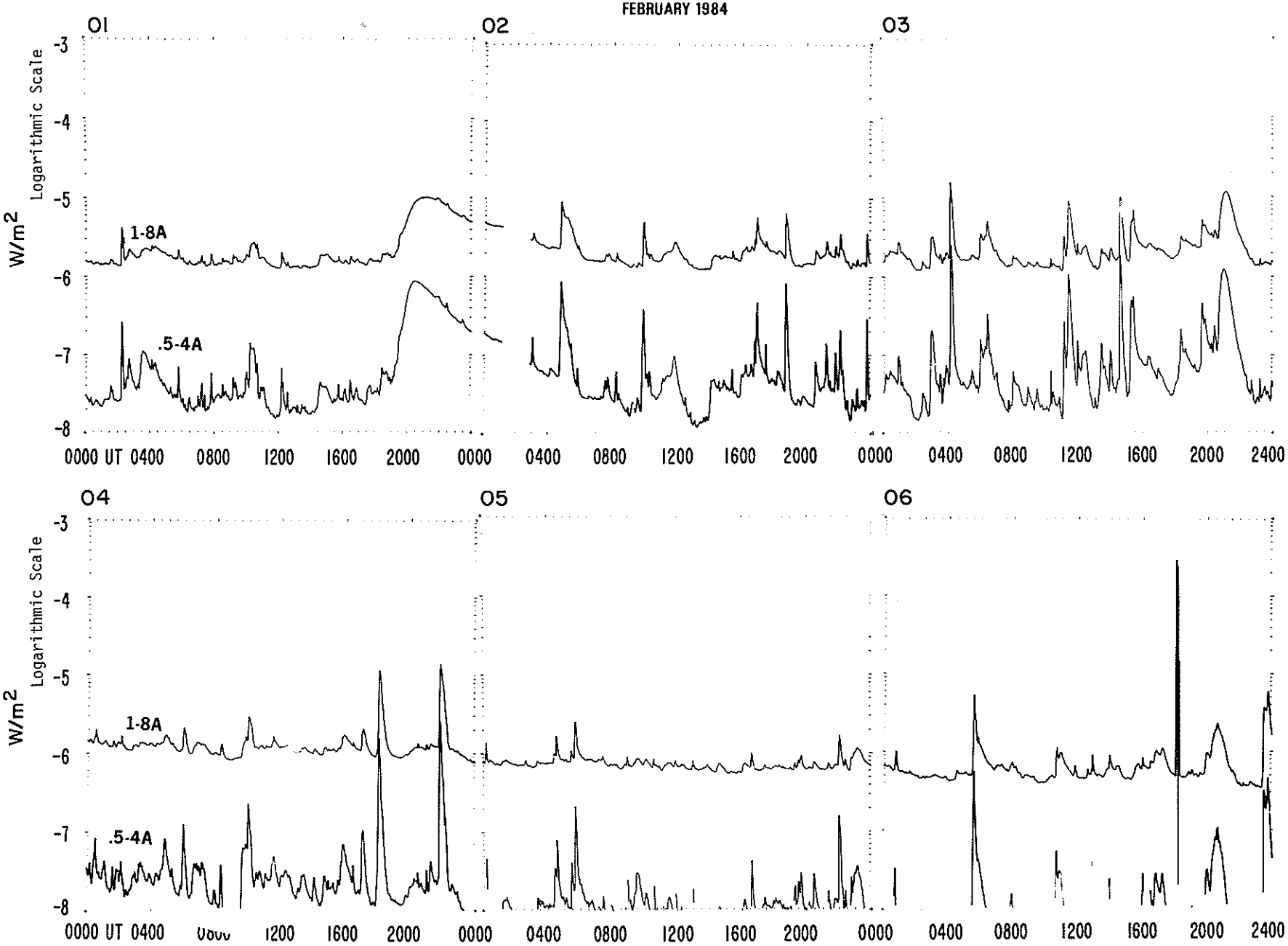
Explanation of Type Code:

1 Simple 1
2 Simple 1F
3 Simple 2
4 Simple 2F
5 Simple
6 Minor
7 Minor +
8 Spike
20 Simple 3
21 Simple 3A
22 Simple 3F
23 Simple 3AF
24 Rise
25 Rise A
26 Fall
27 Rise and Fall
28 Precursor
29 Post Burst Increase
30 Post Burst Increase A
31 Post Burst Decrease
33 Absorption
40 Fluctuation
41 Group of Bursts
42 Series of Bursts
43 Onset of Noise Storm
44 Noise Storm in Progress
45 Complex
46 Complex F
47 Great Burst
48 Major
49 Major +

1A Simple 1A
3A Simple 2A
21A Simple 3A GRF
2A Simple 1AF
4A Simple 2AF
240 Rise only
240F Rise only F
24P Post Rise
24PF Post Rise F
16A Fall A
260 Fall Only
26F Fall F
27F Rise and Fall F
27AF Rise and Fall AF
31A Post Burst Decrease A
32A Absorption A
46F Complex F

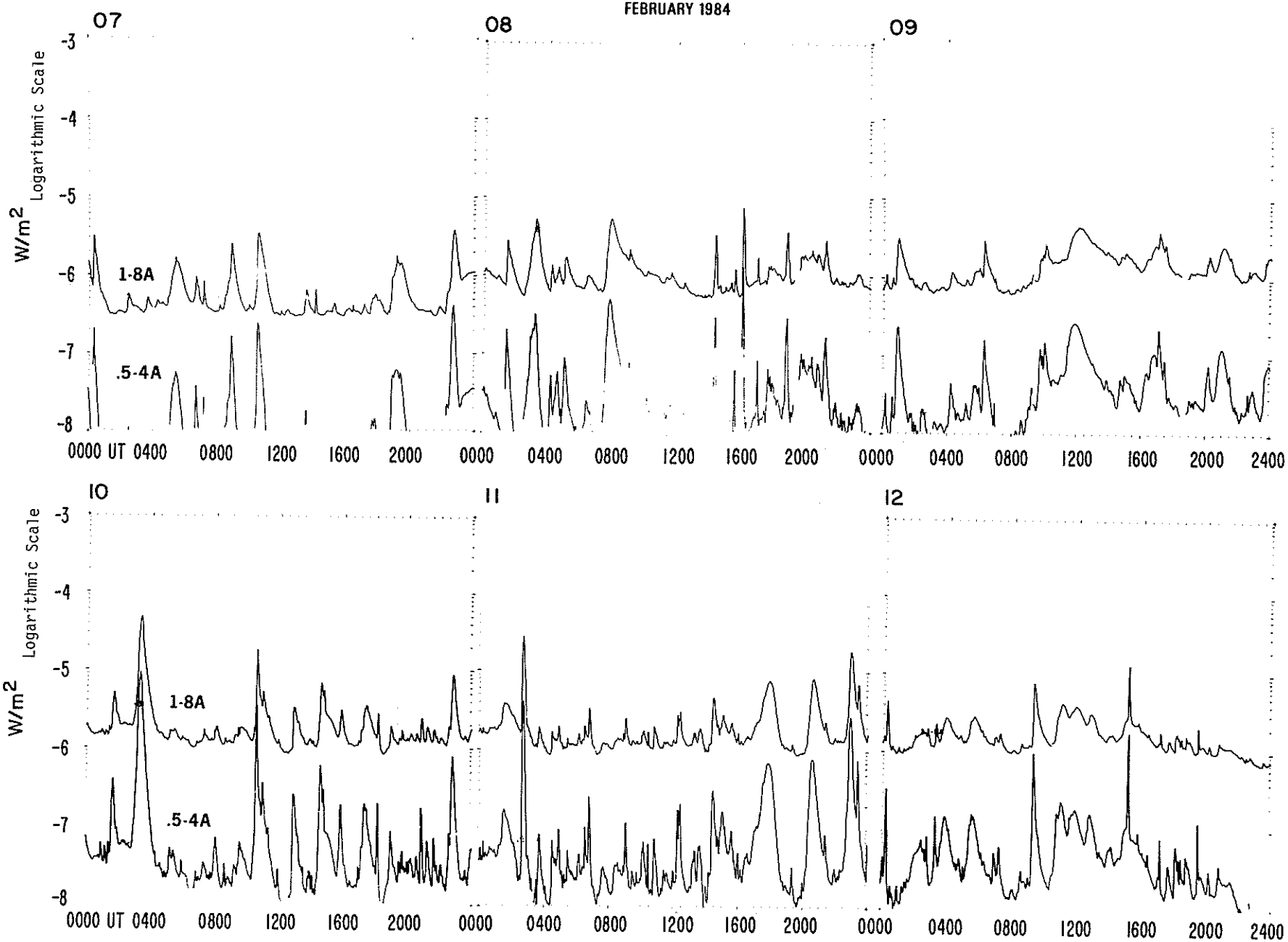
SMS-GOES X-RAYS

FEBRUARY 1984



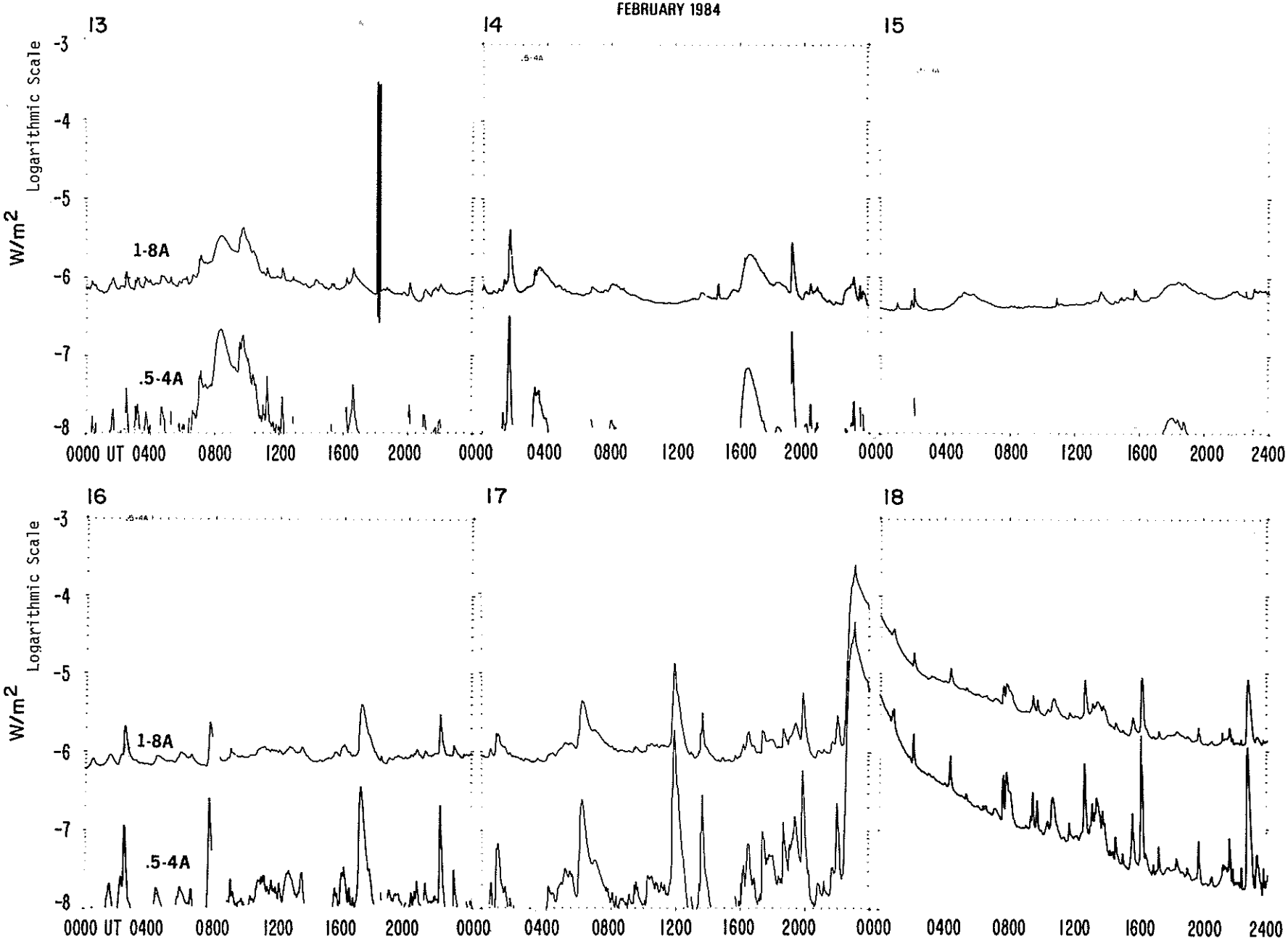
SMS-GOES X-RAYS

FEBRUARY 1984



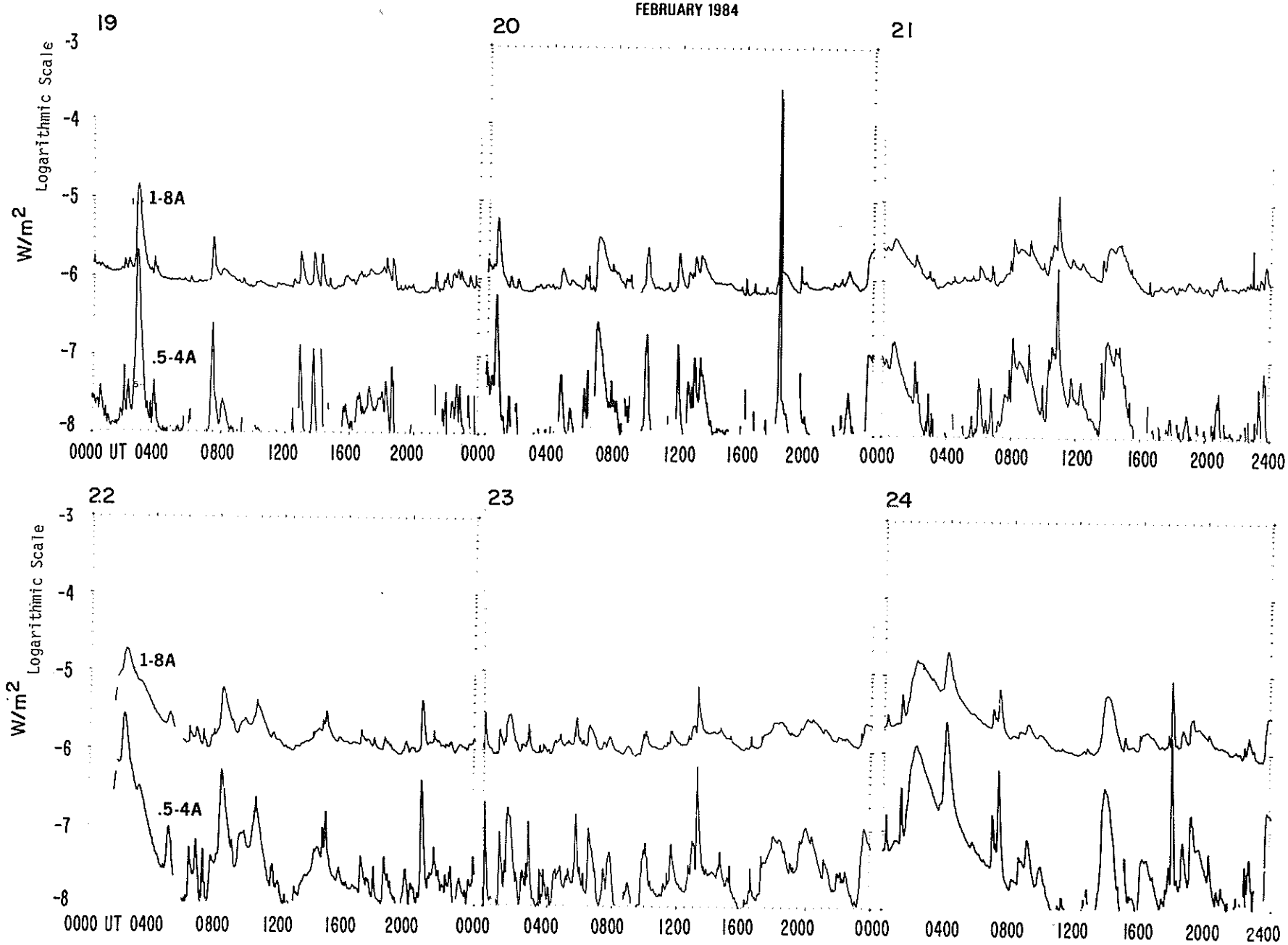
SMS-GOES X-RAYS

FEBRUARY 1984



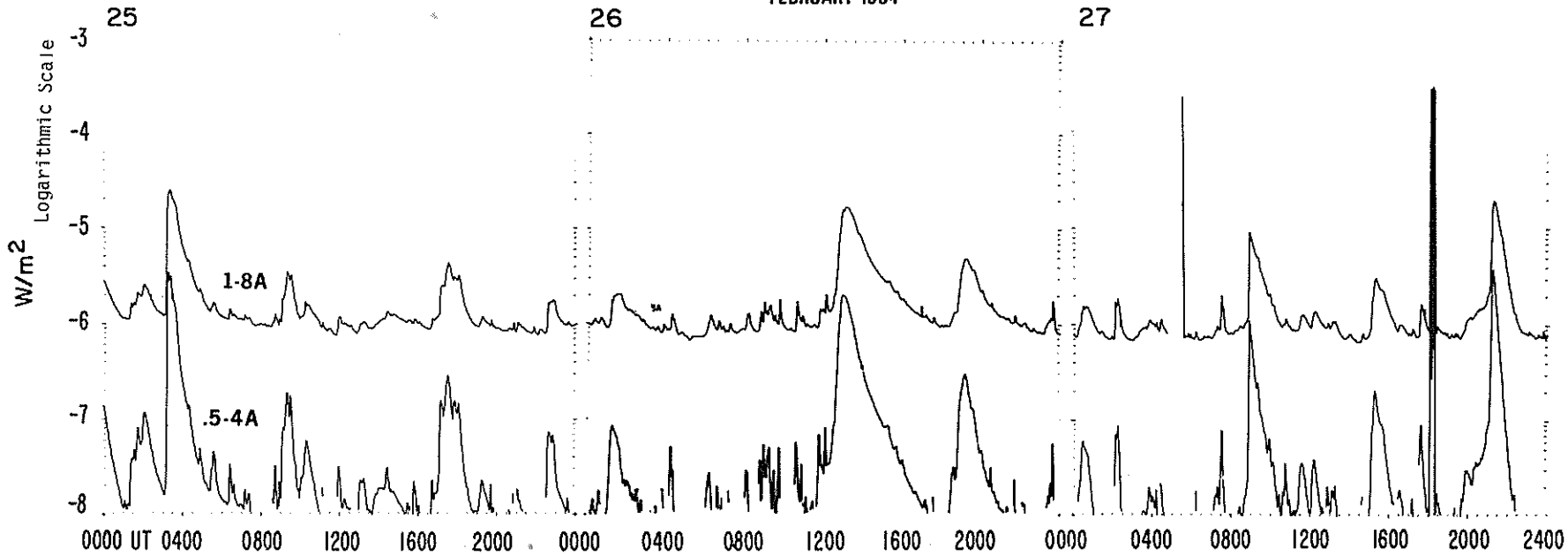
SMS-GOES X-RAYS

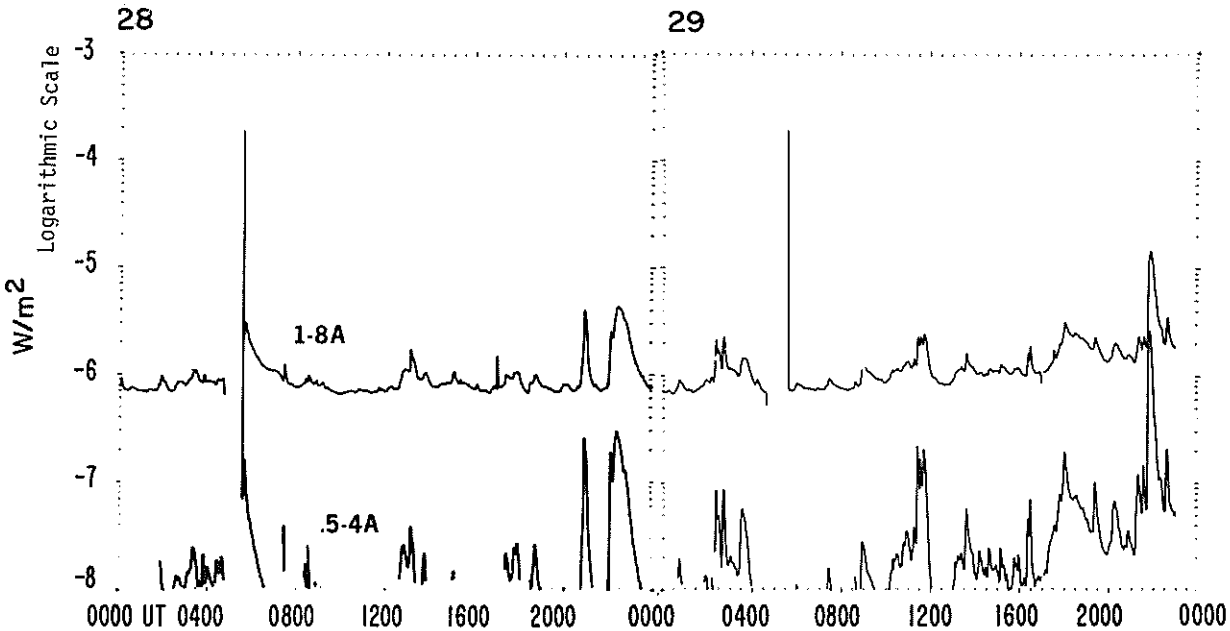
FEBRUARY 1984



SMS-GOES X-RAYS

FEBRUARY 1984





MASS EJECTIONS FROM THE SUN

FEBRUARY 1983

Sta	Day	Observed UT Start	Max	End	Location RA°	R/R_o	Freq or Wavelength	Kind of Event
LEAR	Feb 03	0412.8		0424.1			Meter	II
KHAR	Feb 03	0904 E		0914	D 285	0.91-0.96	H-alpha	S
KHAR	Feb 03	0915 E		0936	D 283	0.90	H-alpha	S
KHAR	Feb 03	0920 E		1015	D 271	1.00	H-alpha	S
KHAR	Feb 03	1106 E		1134	D 287	1.00-1.04	H-alpha	S
WEND	Feb 03	1410	1415	1432	282	1.0	H-alpha	S
WEND	Feb 03	1510	1513	1526	291	1.0	H-alpha	S
LEAR	Feb 04	0613.6		0619.3			Meter	II
KHAR	Feb 05	1054 E		1120	D 097	0.78-0.75	H-alpha	S
KHAR	Feb 05	1128 E		1142	D 097	0.78	H-alpha	S
LEAR	Feb 10	0330.0		0638.0			Meter	IV
LEAR	Feb 11	0248.1		0256.0			Meter	II
LEAR	Feb 11	0256.0		1049.0			Meter	IV
LEAR	Feb 12	0937.8		0951.5			Meter	II
WEIS	Feb 12	0938.2		0952.0			Meter	II
KHAR	Feb 15	0810 E		0830	D 096	0.88	H-alpha	S
WEIS	Feb 16	0858.3		0929			30-130 MHz	IVm
LEAR	Feb 16	0858.3		1002.0			Meter	IV
WEIS	Feb 16	0900.7		0916.0			70-330 MHz	II Harmonic
KHAR	Feb 17	0834 E		0850	D 072	1.00	H-alpha	S
KHAR	Feb 17	0842 E		0908	D 069	1.00	H-alpha	S
KHAR	Feb 17	0842 E		0848	D 068	1.00	H-alpha	S
WEND	Feb 17	0939	0956	1005	D 078	0.99-1.06	H-alpha	S
KHAR	Feb 17	0955 E		1015	D 074	1.00	H-alpha	S
KHAR	Feb 17	1055 E		1103	D 074	1.00	H-alpha	S
WEND	Feb 17	1328	1342	1353	077	0.99-1.04	H-alpha	S
LEAR	Feb 17	2248.0		2250.3			Meter	II
LEAR	Feb 17	2250.0		0305.0			Meter	IV
KHAR	Feb 22	0836 E		0852	D 104	1.00	H-alpha	S
KHAR	Feb 22	1032 E		1118	D 104	1.00	H-alpha	S
LEAR	Feb 24	0146.8		0159.0			Meter	II
LEAR	Feb 24	0151.6		1040.0			Meter	IV
KHAR	Feb 25	1013 E		1040	D 103	0.68	H-alpha	S
KHAR	Feb 25	1053 E		1119	D 101	0.63	H-alpha	S
KHAR	Feb 25	1124 E		1135	D 107	0.63	H-alpha	S

QUALIFIERS ON START, MAX AND END TIMES
- D = event ended after tabulated time
- E = event began before the tabulated time
- U = uncertain time

REPORTING STATIONS
- KHAR = Kharkov
- LEAR = Learmonth
- WEIS = Weissenau
- WEND = Wendelstein

TYPE OF EVENT
- A = eruptive active region prominence
- CB = coronal cloud bubble
- D = coronal depletions
- E = coronal enhancement
- EL = coronal expanding loop
- II = Type II radio burst
- IVm = moving Type IV radio burst
- Q = eruptive quiescent prominence
- R = coronal ray or streamer
- S = flare-surge if there is a known flare association
- SP = flare-spray if there is a known flare association
- * = movement may be caused by ionospheric refraction

FEBRUARY 1984

Type	Day	Observed UT Start	End	Lat CMD	Imp	Obs Type	Sta	Remarks
BSL	Feb 01	0216	0237	N16 W68	2	C	CULG	.17 R
SDF	Feb 01	0458	2143	S08 W17	1	C	CULG	.08 R, overnight
APR	Feb 01	2215	2420	N18 W86	1	C	CULG	.06 R, LPS, K
BSL	Feb 01	2310	2337	N15 W87	1	C	CULG	.08 R
BSL	Feb 02	0036	0107	N13 W86	1	C	CULG	.10 R
BSL	Feb 02	0234E	0424	N13 W86	1	C	CULG	.05 R
SDF	Feb 02	0505	2116	N37 W13	3	C	CULG	.55 R, overnight, 3 sections
BSL	Feb 02	0915	0925D	N14 W90	1	C	CATA	
BSL	Feb 02	0935E	0945D	N15 W90	1	C	CATA	
BSL	Feb 02	0955E	1045D	N13 W90	2	C	CATA	
BSL	Feb 02	1005	1040	N18 W90	2	V	KODA	B,E,G,Ws, 2.12A towards violet; 1.84A towards red at 1009 UT
ASR	Feb 03	0108	0923	N13 W90	0	V	MANI	
ASR	Feb 03	0108	0923	N10 W57	0	V	MANI	
BSL	Feb 03	0408	0429	N13 W88	2	C	CULG	.14 R
SDF	Feb 03	0828	2106	S19 W51	1	C	CULG	.06 R, overnight
SDF	Feb 03	0828	2106	S15 W21	1	C	CULG	.12 R, "U" shape, overnight
SDF	Feb 03	0828	2106	S05 E00	1	C	CULG	.06 R, overnight
SDF	Feb 03	0828	2106	S24 E14	3	C	CULG	.38 R, overnight
ASR	Feb 03	0945	1400	N12 W90		V	ATHN	
APR	Feb 03	1308E	1528D	N16 W90	1	C	WEND	P, X1
ASR	Feb 04	0614	1400	N17 W90		V	ATHN	
AFS	Feb 04	0719	1400	N13 W55		V	ATHN	
APR	Feb 05	0100	0630	S18 E89	1	C	CULG	.05 R, slow fade, movement
BSL	Feb 05	0134	0201	N13 W86	1	C	CULG	.08 R
BSL	Feb 06	0740	0750	S18 E90	1-	C	CATA	
BSL	Feb 06	0755	0815	S19 E90	1-	C	CATA	
BSL	Feb 06	1002	1017	S14 E90	1	C	WEND	rn, A, X1
BSL	Feb 06	1100	1120	N10 E90	1-	C	CATA	
SDF	Feb 09	0822	2011	N10 E57	2	C	CULG	.20 R, 2 sections, overnight
AFS	Feb 10	1220	1400	S15 E27		V	ATHN	
AFS	Feb 11	0104	0836	S13 W63	0	V	MANI	
AFS	Feb 11	0104	0836	S10 W20	0	V	MANI	
DSD	Feb 11	0255E	0334D	S10 E19	2	C	CULG	.22 R
DSD	Feb 11	0300	0338	S08 E24	1	V	KODA	A,G, 0.76A towards violet; 1.4A towards red at 0302 UT.
BSL	Feb 11	1045	1050D	N07 90	1-	C	CATA	
BSL	Feb 12	0234	0253	S04 E88	1	C	CULG	.06 R
BSL	Feb 12	0755	0810	S58 W90	1-	C	CATA	
BSL	Feb 13	1215E	1225D	S56 W90	1-	C	CATA	
ASR	Feb 14	0940	1310	N05 E90		V	ATHN	
SDF	Feb 14	2100	2108	N18 W25	1	C	CULG	.10 R
SDF	Feb 15	0301	0328	N25 W15	1	C	CULG	.06 R
SDF	Feb 16	0305	0443	N07 W27	1	C	CULG	.06 R
ASR	Feb 16	0930	1400	N05 E90		V	ATHN	
ASR	Feb 17	0055	0928	S11 W90	0	V	MANI	
ASR	Feb 17	0055	0928	N13 E90	0	V	MANI	
ADF	Feb 17	0055	0928	N10 E41	1	V	MANI	
ADF	Feb 17	0055	0928	S12 W62	1	V	MANI	
BSL	Feb 17	0939	1005D	N12 E90	1	C	WEND	r, A, X1
BSL	Feb 17	1210	1215D	N72 E90	1-	C	CATA	
APR	Feb 18	0038E	0518D	N19 E88	2	C	CULG	.11 R, K, 9 deg. N/S extent
SDF	Feb 18	0212	0228	N09 E25	1	C	CULG	.10 R
BSL	Feb 18	0840	0855	S15 W90	1-	C	CATA	

FEBRUARY 1984

Type	Day	Observed UT Start	End	Lat CMD	Imp	Obs Type	Sta	Remarks
SDF	Feb 19	0432	2054	S08 W25	1	C	CULG	.12 R, overnight
SDF	Feb 19	0432	2054	N08 E09	1	C	CULG	.13 R, overnight
ASR	Feb 19	0745	1345	N22 E90		V	ATHN	
BSL	Feb 19	0810E	0815D	N05 W90	1-	C	CATA	
BSL	Feb 19	0835	0835D	S12 W90	1-	C	CATA	
BSL	Feb 19	1025	1035	N64 E90	1-	C	CATA	
BSL	Feb 19	1150	1215D	N05 E90	1-	C	CATA	
DSD	Feb 20	0551	0606	S18 E07	1	C	CULG	.07 R
AFS	Feb 20	0600	1310	N14 E46		V	ATHN	
SDF	Feb 20	0713	2059	N11 E44	1	C	CULG	10% section disappeared overnight
AFS	Feb 21	0033	0904	N13 E36	0	V	MANI	
AFS	Feb 21	0033	0904	S05 W47	0	V	MANI	
ADF	Feb 21	0033	0904	N08 E35	2	V	MANI	
AFS	Feb 21	0745	1400	S07 W53		V	ATHN	
BSL	Feb 21	1040E	1040D	N74 E90	1-	C	CATA	
ADF	Feb 21	1337	1424D	N06 E23	1	C	WEND	B, X1
DSD	Feb 22	0244	0255	N16 E51	1	V	KODA	B, G, Ws, No violet shift; 1.84A towards red at 0251 UT
AFS	Feb 22	0726	1252	S03 W65		V	ATHN	
AFS	Feb 22	0726	1252	S19 W19		V	ATHN	
BSL	Feb 22	0835	0848	S13 E90	1	V	KODA	A, E, G, 1.28A towards violet; 1.68A towards red at 0843 UT
DSD	Feb 22	1045E	1050D	N18 E16	1	C	CATA	
BSL	Feb 22	1045E	1050D	S14 E90	1	C	CATA	
ASR	Feb 22	1048	1252	S12 E90		V	ATHN	
EPL	Feb 24	2303	0043	S03 W90	0	V	MANI	
AFS	Feb 25	2334	0930	S18 W70	0	V	MANI	
AFS	Feb 25	2334	0930	S15 E43	0	V	MANI	
ADF	Feb 25	2334	0930	S12 E46	1	V	MANI	
SDF	Feb 27	0804	2053	S51 W17	1	C	CULG	.05 R, overnight
ADF	Feb 28	0130	0802D	S22 E04	1	C	CULG	.25 R, active entire time, some disappearance.
SDF	Feb 28	0130	0802D	S22 E04	1	C	CULG	.25 R, active entire time, some disappearance.
ASR	Feb 28	1150	1305	N05 E90		V	ATHN	
ASR	Feb 28	1150	1305	N13 W90		V	ATHN	
APR	Feb 28	1208	1305	N37 E90		V	ATHN	
AFS	Feb 29	0930	1058	S13 W30		V	ATHN	
BSL	Feb 29	1200E	1210	S09 E90	1-	C	CATA	

SURGES: DSD = Dark surge on disk
BSL = Bright surge at limb

Importance	Single Surge (Apparent Length)
1	.05 - .10 R
2	.10 - .20 R
3	.20 - .40 R
3+	greater than .40 R

PROMINENCES: APR = Active prominence region

Importance	General activity of prominence region
1	Clear indication of activity
2	High activity
3	Very high activity

Direction of Outflow: For objects on the disk the approximate direction should be given in the table as N, NE, E, SE, S, SW, W, or NW. At the limb an outgoing motion should be indicated in the table as r (radial) when the deviations are less than 5 degrees from this direction, otherwise rn (north) or rs (south).

Remarks: For all phenomena --

A = Phenomenon not associated with flare.
B = Phenomenon associated with subflares or 1F, 1N, or 1B flare.
C = Phenomenon associated with 2F, 2N, or 2B flare.
D = Phenomenon associated with 3F flares or larger.
E = Outgoing sightline velocities greater than 50 km/s.
F = Tangential velocities greater than 50 km/s.
G = Associated with large sunspots.
H = Associated with yellow coronal emission.

For APR only --

J = Loop prominences of small activity.
K = Loop prominences of medium activity.
L = Loop prominences of high activity.
M = Down-flowing streamers (coronal rain) without clear focus of material.
N = Down-flowing streamers with focus of material. Indicate position of focus in the position column.
P = Sprays at the limb of small magnitude.
Q = Sprays at the limb of medium magnitude.
R = Sprays at the limb of high magnitude. (NOTE: In some cases R refers the radius of the Sun. Please use caution when interpreting this letter symbol.)

Photographic material available --

W = Good individual photographs of the phenomenon. Indicate instruments used as Wl = Lyot filter or Wlc = Lyot filter and coronagraph or Ws = spectroheliograph.
X = Good cinematograms of the phenomenon. Indicate instruments used as in W.

SUDDEN DISAPPEARANCE OF FILAMENTS:

For disk phenomena --

Importance class	Greatest extension of filament before activation	Disintegration by rapid outflow of matter
1	10 - 20 degrees	Not observed
1+	10 - 20 degrees	Observed
2	20 - 40 degrees	Not observed
2+	20 - 40 degrees	Observed
3	greater than 40 degrees	Not observed
3+	greater than 40 degrees	Observed

For limb phenomena --

For such phenomena the importance should be judged according to the observer's experience, using the same symbols as above. In case the phenomenon is not a clear activation of an already existing object, the importance figure should be put in brackets.

Remarks: 1 = Photographic recordings of the phenomenon are available.
2 = A flare was observed in the neighborhood before disintegration started.
3 = A flare was observed shortly after the filament (prominence) had disappeared and with about the same position as the filament.
4 = Surges penetrated the object before disintegration started.
5 = Another filament (prominence) approached the object before disintegration started.

C O N T E N T S

Comprehensive Reports DATA FOR SEPTEMBER 1981 Number 480 Part II

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Intervals of No Flare Patrol Observation 94

H - ALPHA S O L A R F L A R E S

SEPTEMBER 1981

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
386 CULG	01	0003E	0009	0031	S06	W62	.893	17808	27.4	28D	-F		C	0009	80	1.8	
GRP97387	01	0024+2	0027+4	0044	S10	W01	.296	17816	31.9	20	-F				70	.7	E
CULG	01	0024	0027	0044	S10	W02	.297	17816	31.9	20	-N		C	0027	70	.7	E
BIGB	01	0026	0031	0044D	S10	W01	.296	17816	31.9	18D	-F	3	P	0031	70	.7	
388 CULG	01	0051	0053	0101	S12	E07	.349	17817	1.6	10	-F		C	0053	40	.4	
389 CULG	01	0105	0110	0120	S04	W68	.932	17808	26.9	15	-N		C	0110	30		
390 CULG	01	0114	0117	0140	S12	E14	.402	17817	2.1	26	-N		C	0117	30	.3	
GRP97391	01	0125+0	0131+5	0203D	S12	E56	.856	17824	5.3	38	1N				110	2.1	E
CULG	01	0125	0136	0203U	S09	E56	.849	17824	5.3	38D	1N		P	0136	130	2.4	
MITK	01	0125	0131	0141D	S14	E56	.942	17824	5.3	16D	1N		C	0131	130	2.5	E
VORO	01	0134E		0201D	S12	E56	.856	17824	5.3	27D	-N		P	0137	67	1.4	E
392 CULG	01	0147	0154	0203	S10	E07	.318	17817	1.6	16	-N		P	0154	80	.8	F
393 CULG	01	0219E	0225	0255	S10	E56	.851	17824	5.3	36D	-N		P	0225	100	1.9	
394 CULG	01	0247	0312	0355	S14	W33	.629	17815	29.6	68	-F		C	0312	40	.5	
GRP97395	01	0320>9	0340+1	0411	S10	E10	.340	17817	1.9	51	-N				120	1.3	FK
CULG	01	0320U	0340	0422	S10	E11	.348	17817	2.0	62D	-B	*	C	0340	110	1.2	KF
PEKG	01	0340	0341D	0400	S11	E09	.347	17817	1.8	20	-N	*	P	0341	126	1.4	F
396 CULG	01	0328	0334	0348	N17	W39	.633	17809	29.2	20	-F		C	0334	20	.3	
397 CULG	01	0354	0359	0501	S08	E54	.828	17824	5.2	67	-N		C	0359	90	1.8	KFJ
398 CULG	01	0414E	0424	0502	S11	W04	.319	17816	31.9	48D	-N		P	0424	70	.7	
GRP97399	01	0538+2	0542+0 0550	0610	S11	E52	.818	17824	5.1	32	1B				190	3.2	EZ
CULG	01	0538	0542	0610	S09	E54	.831	17824	5.3	32	1B		C	0542	170	3.1	
TACH	01	0540	0542	0558	S12	E52	.821	17824	5.1	18	1N		C	0542	221	4.0	E
PEKG	01	0545E	0550U	0555D	S11	E51	.808	17824	5.1	10D	1B		P	0550	181	3.2	EZ
ATHN	01	0600E	0600	0632	S11	E52	.818	17824	5.1	32D	1B	2	V	0600	191	3.2	
400 CULG	01	0554	0557	0633	N15	W43	.680	17809	29.0	39	-N		C	0557	80	1.0	FJK
401 CULG	01	0619	0632	0658	S15	E67	.940	17825	6.3	39	?F		C	0632	100		
			IMP.1 NO : LEAR														
GRP97402	01	0655+7	0705	0747	N17	W42	.671	17809	29.1	52	-N				120	1.6	E
CATA	01	0655	0700	0700D	N17	W42	.671	17809	29.1	5D	1F		P	0700	168	2.3	
ISTA	01	0656		0720	N18	W39	.636	17809	29.4	24	-N						E
ISTA	01	0656		0730	N19	W42	.675	17809	29.1	34	-N						E
ATHN	01	0702	0705	0747	N17	W43	.683	17809	29.1	45	-N	2	V	0705	80	1.1	
KANZ	01	0730E		0750	N16	W43	.681	17809	29.1	20D	-F	2					
403 ISTA	01	0728		0735	S10	E08	.325	17817	1.9	7	-F						E
404 ISTA	01	0825		0836	S11	W35	.633	17815	29.7	11	-F						E
405 KANZ	01	0841	0844	0848	S25	E36	.738	17822	4.1	7	-F	3					L
GRP97406	01	0945+0	0945+3	0955	S11	W06	.328	17816	1.0	10	-F						
KANZ	01	0945	0948	0955	S12	W05	.339	17816	1.0	10	-N	3					
CATA	01	0945	0945	0955	S11	W07	.333	17816	31.9	10	-F		C	0945	84	.9	
GRP97407	01	0955+8	1005+1 1014	1035	S11	E50	.798	17824	5.2	40	1N				160	2.6	
KANZ	01	0955	1014	1033	S10	E50	.795	17824	5.2	38	-B	3					
CATA	01	1000	1005	1035	S12	E49	.792	17824	5.1	35	1F		C	1005	168	2.8	
ATHN	01	1003	1006	1047	S11	E51	.808	17824	5.2	44	1B	1	V	1006	159	2.7	
GRP97408	01	1007+2	1009+3	1045	N16	W43	.681	17809	29.2	38	-B						
KANZ	01	1007	1009	1043	N16	W44	.693	17809	29.1	36	-B	3					
ATHN	01	1009	1012	1047	N17	W43	.683	17809	29.2	38	-B	2	V	1012	95	1.3	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
409 KANZ	01	1134E	1134	1138	S10	E49	.785	17824	5.2	4D	-N	1					
	01	1207	1219	NO FLARE PATROL													
GRP97410	01	1416>9	1416 1434	1451	N17	W47	.730	17809	29.1	35	-N						E
HUAN	01	1416	1416	1439	N17	W48	.741	17809	29.0	23	-N	1	C	1416	60	.9	E
BIGB	01	1432	1434	1503	N17	W46	.718	17809	29.2	31	-N	2	P	1434	120	1.8	
411 BIGB	01	1551	1557	1617	N18	E40	.648	17820	4.7	26	-F	3	C	1557	70	.9	
412 HUAN	01	1627	1628	1631	S13	W01	.346	17817	1.6	4	-F	1	C	1628	30	.3	D
GRP97413	01	1647	1652	1715	S10	E46	.754	17824	5.1	28	1B						E
BIGB	01	1647	1652	1720	S10	E46	.754	17824	5.1	33	1B	3	C	1652	180	2.7	
HUAN	01	1654E		1710	S10	E46	.754	17824	5.2	16D	-N	1	P	1654	50	.8	E
414 BIGB	01	1654	1656	1707	N16	W30	.510	17813	30.5	13	-N	3	C	1656	60	.7	
415 BIGB	01	1814	1814	1949	S11	W45	.747	17815	29.4	95	-N	3	C	1814	70	1.0	
416 BIGB	01	1814	1817	1832	S06	W68	.934	17808	27.7	18	-N	3	C	1817	60		
417 BIGB	01	2015	2058	2144	N17	W27	.471	17813	30.8	89	-N	3	C	2058	110	1.3	
418 CULG	01	2234	2245	2313D	N14	W50	.761	17809	29.2	39D	-F		C	2245	40	.6	
419 CULG	01	2234	2246	2313D	S09	E49	.782	17824	5.6	39D	-F		C	2246	60	1.0	
420 CULG	02	0119	0130	0149	S13	E00	.345	17817	2.1	30	-N		C	0130	60	.7	
421 CULG	02	0159	0202	0210	S17	W03	.413	17817	1.9	11	-F		C	0202	30	.3	
422 CULG	02	0211	0217	0238	N16	E11	.240	17818	2.9	27	-N		C	0217	50	.5	
423 CULG	02	0217	0230	0307	S15	W43	.744	17815	29.9	50	-F		C	0230	120	1.8	
424 CULG	02	0236	0242	0253	S18	W03	.429	17817	1.9	17	-N		C	0242	70	.8	
425 CULG	02	0319	0322	0341	S13	E43	.734	17824	5.4	22	-F		C	0322	30	.5	
GRP97426	02	0341+2	0343+2	0400D	S11	W50	.798	17815	29.4	19	1B				160	2.6	EJKV
CULG	02	0341	0343	0434	S12	W49	.792	17815	29.5	53	1B		C	0343	160	3.0	TVK
TACH	02	0343	0345	0400	S10	W51	.805	17815	29.3	17	1B		C	0345	159	2.8	EJ
GRP97427	02	0402>9	0440+1	0510	S06	W87	.999	17808	26.6	68	-N						ADJ
CULG	02	0402	0440U	0512	S08	W85	.998	17808	26.8	70	-N		C	0440	30		
ABST	02	0420	0441	0507	S05	W90	1.000	17808	26.4	47	1F		C	0441	87		ADJ
GRP97428	02	0417	0419+3	0430	S10	W51	.805	17815	29.4	13	1F				130	2.2	J
TACH	02	0417	0419	0431	S10	W51	.805	17815	29.4	14	1N	*	C	0419	177	3.1	EJ
ABST	02	0420E	0422	0428	S11	W51	.808	17815	29.4	8D	-F	*	P	0422	87	1.5	DJ
429 CULG	02	0425	0428	0442	N10	E51	.771	17827	6.0	17	-F		C	0428	30	.5	
430 CULG	02	0429	0431	0441	N20	W30	.526	17813	30.9	12	-F		C	0431	30	.4	
431 ABST	02	0430	0433	0524	S27	E27	.683	17822	4.2	54	-F		C	0433	87	1.2	DJ
GRP97432	02	0442>9	0506 0526	0624	S11	W50	.798	17815	29.4	102	-N						EJV
CULG	02	0442	0526	0623	S12	W49	.792	17815	29.5	101	-N		C	0526	90	1.4	T
ABST	02	0455	0506	0624	S11	W51	.808	17815	29.4	89	-F		C	0506	105	1.8	EJ
ABST	02	0616	0616	0622	S11	W52	.818	17815	29.4	6	-N		C	0616	87	1.5	EJV
433 CULG	02	0450	0454	0505	S06	W10	.285	17817	1.5	15	-F		C	0454	20	.2	

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GRP97434	02	0532+4	0536+2	0613	S09	E39	.670	17824	5.2	41	-B			150	2.0	EJKZ
CULG	02	0532	0538	0622	S09	E39	.670	17824	5.2	50	1B	C	0538	150	2.1	
TACH	02	0535	0536	0600	S09	E39	.670	17824	5.2	25	-B	C	0536	115	1.6	EZ
ABST	02	0536	0538	0614	S12	E40	.697	17824	5.2	38	1N	C	0538	192	2.7	EJK
ATHN	02	0600E	0600	0611	S10	E37	.652	17824	5.0	11D	-B 2	V	0600	111	1.5	
GRP97435	02	0616+5	0619+3	0639	N17	W58	.842	17809	28.9	23	-B					EJV
CULG	02	0616	0619	0633	N16	W57	.833	17809	29.0	17	-B *	C	0619	30	.5	
ABST	02	0621	0622	0644	N18	W59	.851	17809	28.8	23	1N *	C	0622	122	2.2	EJV
436 ABST	02	0618	0620	0627	S05	W90	1.000	17808	26.5	9	?N	C	0620	87		ADJ
			IMP.1 NO : CULG LEAR MITK													
437 ISTA	02	0720E		0740	N02	W90	1.000		26.6	20D	-F					A
GRP97438	02	0752+9	0800+6	0816	S11	W52	.818	17815	29.4	24	-F			80	1.4	E
YUNN	02	0752D	0800	0820	S12	W52	.821	17815	29.4	28D	-F	P		48	.8	
WEND	02	0757	0802	0806D	S10	W51	.805	17815	29.5	9D	-F	C	0802	44	.7	
BUCA	02	0758	0800	0808	S14	W52	.827	17815	29.4	10	-N	C	0800	107	1.9	E
CATA	02	0800	0800	0810	S10	W53	.824	17815	29.4	10	1F	C	0800	112	2.0	
ATHN	02	0801	0805	0821	S11	W51	.808	17815	29.5	20	-N 2	V	0805	80	1.3	
KANZ	02	0801E	0806	0806D	S12	W52	.821	17815	29.4	5D	-N 1					
ISTA	02	0801		0818	S11	W53	.827	17815	29.4	17	-F					
439 YUNN	02	0825	0835	0851	N16	W60	.859	17809	28.9	26	-F	C		32	.6	
GRP97440	02	0847+3	0850	0902	N13	W38	.613	17813	30.5	15	-N					E
YUNN	02	0847	0850	0857	N16	W39	.631	17813	30.4	10	-N	C		129	1.7	E
ISTA	02	0850		0906	N11	W38	.611	17813	30.5	16	-N					
441 KANZ	02	0910E		0925	N16	W59	.851	17809	29.0	15D	-N 2					
GRP97442	02	1000+5	1010	1016	S10	W53	.824	17815	29.4	16	-F					
KANZ	02	1000E		1006	S12	W53	.830	17815	29.4	6D	-N 2					
CATA	02	1005	1010	1025	S09	W54	.831	17815	29.4	20	-F	C	1010	56	1.0	
443 LVOV	02	1230	1232	1249	S09	W57	.858	17815	29.2	19	?F	P	1232	200	3.7	D
			IMP.1 NO : RAMY													
GRP97444	02	1300+3	1304+3	1311	N16	W61	.868	17809	29.0	11	1F			130	2.7	
LVOV	02	1300	1304	1311	N18	W61	.868	17809	29.0	11	1F	C	1304	200	4.4	D
HUAN	02	1300E		1310	N15	W60	.859	17809	29.0	10D	-F 1	P	1306	40	.8	E
ATHN	02	1303	1307	1321	N16	W62	.879	17809	28.9	18	1N 2	V	1307	127	2.5	
GRP97445	02	1431+1	1435+5	1454	S12	W09	.361	17817	1.9	23	-F					D
BIGB	02	1431	1440	1501	S13	W08	.370	17817	2.0	30	-F 3	C	1440	80	.8	
HUAN	02	1432	1435	1446	S12	W10	.368	17817	1.9	14	-F 1	C	1435	10	.1	D
GRP97446	02	1549+1	1551+0	1610	N17	W42	.671	17813	30.5	21	-N					E
BIGB	02	1549	1551	1620	N18	W42	.673	17813	30.5	31	-N 3	C	1551	80	1.1	
HUAN	02	1550	1551	1600	N17	W42	.671	17813	30.5	10	-N 1	C	1551	30	.4	E
GRP97447	02	2159	2211 2229	2255	S11	W18	.431	17817	1.6	56	-F					F
CULG	02	2159	2229	2254	S13	W16	.434	17817	1.7	55	-N	C	2229	90	1.0	F
CULG	02	2206U	2211U	2255	S09	W21	.446	17817	1.3	49D	-F *	P	2211	40	.5	
GRP97448	02	2203+0	2205+1	2217	N15	W66	.906	17809	29.0	14	-N			50		
BIGB	02	2203	2206	2219	N16	W67	.913	17809	28.9	16	-N 3	C	2206	50		
CULG	02	2203	2205	2214	N15	W66	.906	17809	29.0	11	-N	C	2205	60	1.6	
449 CULG	02	2229	2232	2239	N16	W49	.751	17813	30.3	10	-F	C	2232	20	.3	
GRP97450	02	2330+4	2342	2353D	S11	W14	.389	17817	1.9	23	-N			80	.9	E
CULG	03	0048	0051	0118	S14	W18	.465	17817	1.7	30	-F	C	0051	60	.7	
CULG	02	2330U	2341U	2341D	S11	W14	.389	17817	1.9	11D	-B	P	2341	110	1.2	E
BIGB	02	2334	2342	2353	S11	W15	.399	17817	1.9	19	-N 3	C	2342	60	.6	
CULG	02	2352E	2352U	0100	S15	W11	.418	17817	2.2	68D	-N	C	2352	70	.8	
451 CULG	02	2333	2337	2341D	S14	E50	.809	17826	6.7	8D	-F	P	2337	50	.9	

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452 CULG	02	2352E	2352U	0034	S05	E34	.589	17824	5.5	42D	-B		P	2352	70	.8	
453 CULG	03	0119	0121	0132	S15	W17	.468	17817	1.8	13	-N		C	0121	70	.8	
GRP97454	03	0246	0254+2	0310	S04	E32	.557	17824	5.5	24	-N				90	1.1	E
CULG	03	0246	0254	0313	S04	E33	.571	17824	5.6	27	-N		C	0254	110	1.3	
PEKG	03	0251E	0256	0307	S05	E32	.562	17824	5.5	16D	-N		P	0256	67	.8	E
GRP97455	03	0410>9	0428 0436+5	0455	S09	E26	.509	17824	5.1	45	-N				150	1.7	EJKZ
CULG	03	0410U	0428	0509	S09	E26	.509	17824	5.1	59D	-N		P	0428	90	1.1	EK
ABST	03	0423	0436	0455	S08	E27	.514	17824	5.2	32	-N		P	0436	175	2.0	EJ
TACH	03	0427	0441	0448	S12	E26	.533	17824	5.1	21	-F		C	0441	115	1.4	EZ
GRP97456	03	0433+1	0436+2	0443	S16	W19	.498	17817	1.8	10	-F				80	.9	J
TACH	03	0433	0438	0442	S16	W20	.508	17817	1.7	9	-N		C	0438	106	1.2	D
CULG	03	0433	0437	0459	S15	W17	.468	17817	1.9	26	-F		C	0437	50	.6	
ABST	03	0434	0436	0443	S17	W19	.510	17817	1.8	9	-F		C	0436	87	1.0	EJ
GRP97457	03	0445+2	0450	0508	S12	E40	.697	17826	6.2	23	-F				70	1.0	D
CULG	03	0445	0450	0508	S13	E41	.713	17826	6.3	23	-F		C	0450	60	.8	
ABST	03	0447	0449	0449D	S12	E39	.686	17826	6.1	2D	-F		P	0449	87	1.2	D
GRP97458	03	0456+8	0502+4	0516	S05	E32	.562	17824	5.6	20	-N				130	1.6	J
CULG	03	0456	0504	0529	S04	E32	.557	17824	5.6	33	-N	*	C	0504	120	1.4	
ABST	03	0459	0502	0516	S05	E31	.548	17824	5.5	17	-N	*	C	0502	140	1.7	EJ
TACH	03	0504	0506	0513	S08	E33	.591	17824	5.7	9	1B		C	0506	133	2.4	D
GRP97459	03	0457+5	0501+4	0527	S09	W38	.659	17816	31.4	30	-N				90	1.2	D
CULG	03	0457	0501	0527	S09	W37	.647	17816	31.4	30	-B		C	0501	40	.5	
ABST	03	0458	0502	0529	S08	W39	.666	17816	31.3	31	-N		P	0502	87	1.2	D
TACH	03	0502	0505	0515	S09	W38	.659	17816	31.4	13	-N		C	0505	97	1.3	D
460 CULG	03	0517	0528	0615	N07	E24	.404	17823	5.0	58	-F		C	0528	20	.2	
GRP97461	03	0600	0603+5	0621	S16	W17	.480	17817	2.0	21	-F						D
CULG	03	0600	0603	0621	S14	W16	.446	17817	2.1	21	-F		C	0603	30	.3	
ABST	03	0601E	0608	0617D	S18	W19	.521	17817	1.8	16D	-F		P	0608	87	1.0	D
462 CULG	03	0637	0640	0650	S17	E46	.783	17825	6.7	13	-F		C	0640	40	.6	
GRP97463	03	0656+0	0657+2	0707	N16	W50	.762	17813	30.5	11	-N				70	1.1	EJV
CULG	03	0656	0657	0708	N15	W48	.739	17813	30.7	12	-N		C	0657	70	1.1	V
ABST	03	0656	0659	0704D	N17	W52	.784	17813	30.4	8D	1N		P	0658	175	2.8	EJ
YUNN	03	0700E	0700	0705	N16	W50	.762	17813	30.5	5D	-N		P		48	.8	
464 YUNN	03	0945E	0945	0949D	S13	W20	.475	17817	1.9	4D	-N		P		80	.9	
	03	1400	1434	NO FLARE PATROL													
465 BIGB	03	1455	1506	1607	S12	W25	.521	17817	1.7	72	-N	3	C	1506	160	1.8	
	03	1618	1645	NO FLARE PATROL													
466 BIGB	03	1727	1729	1739	S18	E36	.689	17825	6.4	12	-N	3	C	1729	60	.8	
467 BIGB	03	1802	1806	1849	S12	E18	.443	17824	5.1	47	-N	3	C	1806	80	.9	
468 BIGB	03	1950	1956	2032	S18	E34	.669	17825	6.4	42	-N	3	C	1956	60	.7	
469 BIGB	03	2028	2035	2051	S11	W28	.549	17817	1.8	23	-F	3	C	2035	70	.8	
470 BIGB	03	2042	2046	2110	S07	E22	.441	17824	5.5	28	-N	3	C	2046	80	.9	
GRP97471	03	2125+1	2130+2	2154	S19	W26	.597	17817	1.9	29	-N				50	.6	
BIGB	03	2125	2132	2203	S18	W25	.578	17817	2.0	38	-B	3	C	2132	60	.6	
CULG	03	2126	2130	2144	S20	W27	.616	17817	1.9	18	-N		C	2130	40	.5	
GRP97472	03	2255+1	2302+2	0050	S10	E18	.420	17824	5.3	115	1B						I
CULG	03	2255	2302	0055	S08	E20	.424	17824	5.5	120	2B		C	2302	720	7.9	I
BIGB	03	2256	2304	0044	S12	E16	.422	17824	5.2	108	1B	3	C	2304	310	3.3	

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GRP97473	03	2258+0	2305 2319	2347	S10	W29	.554	17817	1.8	49	-F						K
BIGB	03	2258	2305	2353	S10	W31	.579	17817	1.6	55	1F	3	C	2305	240	2.9	
CULG	03	2258	2319	2341	S11	W28	.549	17817	1.9	43	-F		C	2319	70	.9	K
474 CULG	03	2326	2331U	2348	N16	W59	.851	17813	30.6	22	-N		P	2331	80	1.2	
475 CULG	04	0046	0126	0222D	S16	W26	.569	17817	2.1	96D	-N		P	0126	80	1.0	
	04	0250	0253	NO FLARE PATROL													
	04	0325	0332	NO FLARE PATROL													
GRP97476	04	0409>9	0433 0450+1	0507	S07	W53	.817	17816	31.2	58	-N				50	.9	
ABST	04	0409	0450	0507	S07	W53	.817	17816	31.2	58	-F		P	0450	70	1.2	D
TACH	04	0427	0433	0501	S07	W54	.826	17816	31.1	34	-B		C	0433	97	1.8	E
CULG	04	0449E	0451U	0511	S09	W50	.792	17816	31.5	22D	-N		P	0451	30	.5	
477 CULG	04	0449E	0449U	0514D	S16	W26	.569	17817	2.3	25D	-N		P	0449	80	1.0	
478 ABST	04	0531	0532	0543	N09	E90	1.000	17830	11.0	12	?F		P	0532	87		ADJ
			IMP.1 NO : CULG MITK														
GRP97479	04	0600E		0605D	S17	W31	.630	17817	1.9	5	-F						E
ABST	04	0600E	0603	0603D	S17	W33	.651	17817	1.8	3D	-F		P	0603	105	1.4	E
CULG	04	0601E	0601U	0605D	S18	W30	.628	17817	2.0	4D	-F		C	0601	40	.5	
	04	1411	1416	NO FLARE PATROL													
480 BIGB	04	1927	1932	2030	S11	E06	.329	17824	5.3	63	-F	2	C	1932	80	.8	
GRP97481	04	2156+1	2157+1	2202	S08	E04	.271	17824	5.2	6	-N				70	.7	EJ
BIGB	04	2156	2157	2200D	S08	E04	.271	17824	5.2	4D	-N	3	P	2157	90	.9	
VORO	04	2157	2158	2202	S08	E05	.276	17824	5.3	5	-N		C	2158	63	.7	EJ
482 CULG	04	2307	2322	2352	N09	E79	.978	17830	10.9	45	-N		C	2322	50		
GRP97483	04	2312+5	2321+4	2352	S12	W42	.719	17817	1.8	40	-F				90	1.3	
CULG	04	2312	2321	2354	S12	W42	.719	17817	1.8	42	-F		C	2321	70	1.1	
BIGB	04	2317	2325	2349	S12	W42	.719	17817	1.8	32	-N	3	C	2325	120	1.7	
GRP97484	04	2357>9	0024+2	0056	S14	E09	.391	17824	5.7	59	-N				90	1.0	
BIGB	05	0019	0026	0043	S15	E09	.406	17824	5.7	24	-N	3	C	0026	80	.8	
CULG	04	2357	2424	0109	S13	E10	.383	17824	5.7	72	-N		C	2424	100	1.1	
GRP97485	05	0002	0008 0019	0052	S11	W47	.768	17817	1.5	50	-N						K
CULG	05	0002	0008	0021	S11	W50	.799	17817	1.3	19	-F		C	0008	20	.3	
CULG	05	0006	0019	0052	S12	W44	.741	17817	1.7	46	-N		C	0019	70	1.1	K
486 CULG	05	0022	0039	0112	N18	W72	.944	17813	30.6	50	-F		C	0039	30	.9	
487 CULG	05	0103	0111	0133	S12	W43	.730	17817	1.8	30	-F		C	0111	40	.6	
GRP97488	05	0117	0130+4	0136D	S05	W22	.425	17821	3.4	19	-N				50	.6	D
CULG	05	0117	0130	0239	S06	W21	.419	17821	3.5	82	-N		C	0130	50	.6	
PEKG	05	0130E	0134	0136	S05	W23	.439	17821	3.3	6D	-N		P	0134	50	.6	D
489 PEKG	05	0133	0134	0135	S14	E07	.380	17824	5.6	2	-N		P	0134	42	.5	E
490 CULG	05	0259	0306	0324	S10	E02	.298	17824	5.3	25	-N		C	0306	90	.9	
491 CULG	05	0340	0344	0352	N12	W69	.927	17813	31.0	12	-F		C	0344	20	.5	
492 CULG	05	0342	0344	0359	S10	E02	.298	17824	5.3	17	-N		C	0344	80	.8	
493 CULG	05	0419	0425	0443	S14	W53	.836	17817	1.2	24	-F		C	0425	20	.4	
494 CULG	05	0443	0449	0517	N18	W74	.954	17813	30.6	34	-F		C	0449	30	.9	
495 CULG	05	0459	0502	0513	S08	E02	.265	17824	5.4	14	-F		C	0502	60	.6	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp		Obs Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
496 CULG	05	0517	0522	0555	S13	W45	.756	17817	1.8	38	-N		C	0522	50	.8	
497 CULG	05	0609E	0612	0620	S13	E07	.365	17824	5.8	11D	-N		P	0612	50	.5	D
GRP97498	05	0658+7	0706+4	0718	N08	E68	.923	17830	10.4	20	-N				40		J
WEND	05	0658	0706	0715	N08	E67	.916	17830	10.3	17	-N		C	0706	25		
MANI	05	0700E	0700U	0703D	N09	E71	.941	17830	10.6	3D	-F	1	V		15	.3	
CULG	05	0700	0707	0711D	N11	E69	.928	17830	10.5	11D	-B		P	0707	30		JT
CATA	05	0705	0710	0720	N08	E67	.916	17830	10.3	15	-F		C	0710	56		
GRP97499	05	0740+5	0746+9	0805	N07	E78	.975	17830	11.2	25	-N				50		DJK
WEND	05	0740	0749	0801	N07	E76	.967	17830	11.0	21	-N	*	C	0749	44		
ABST	05	0742E	0746	0807D	N05	E85	.995	17830	11.7	25D	1N		P	0746	131		EJK
YUNN	05	0742E		0750D	N08	E80	.982	17830	11.3	8D	-N	*	P	0742	48		D
KHAR	05	0745E	0750	0802D	N08	E73	.952	17830	10.8	17D	-N	*	P	0750			D
CATA	05	0745	0755	0810	N06	E77	.972	17830	11.1	25	1F	*	C	0755	56		
GRP97500	05	0816+1	0835+0 0845+4	0858	N07	E72	.948	17830	10.7	42	1F				110		EJ
KHAR	05	0816E	0835	0845D	N08	E73	.952	17830	10.8	29D	-N		P	0835	50	1.8	E
WEND	05	0816	0828	0858	N08	E73	.952	17830	10.8	42	-F		C	0828	44		E
ABST	05	0817	0835	0858	N06	E75	.963	17830	11.0	41	1N		C	0842	174		EJ
CATA	05	0825	0845	0910	N07	E70	.936	17830	10.6	45	1F		C	0845	112		
MONT	05	0845E	0849	0858	N07	E70	.936	17830	10.6	13D	-F		C	0849	50		
501 CATA	05	0840	0845	0850	S11	W02	.315	17824	5.2	10	-F		C	0845	67	.7	
502 CATA	05	0915	0920	0935	S09	W90	1.000	17815	29.6	20	?F		C	0910	56		
			IMP.1 NO : WEND														
GRP97503	05	1024	1033+2 1045	1140	N08	E72	.947	17830	10.8	76	1N						E
WEND	05	1024	1035	1149	N09	E72	.947	17830	10.8	85	-N		C	1035	88		E
ATHN	05	1033E	1033	1131	N08	E77	.971	17830	11.2	58D	1N	2	V	1033	64	3.3	
CATA	05	1040	1045	1050D	N08	E72	.947	17830	10.8	10D	1F		P	1045	169		
504 LVOV	05	1157	1159	1208	N09	E72	.947	17830	10.9	11	?F		P	1159	100		EK
			IMP.1 NO : WEND														
505 WEND	05	1210	1222	1252	S10	W59	.877	17817	1.1	42	-N		C	1222	50	1.0	
GRP97506	05	1331	1335	1350	S13	W51	.815	17817	1.7	19	1N						
KANZ	05	1331	1335	1350D	S14	W51	.818	17817	1.7	19D	1N	1					
WEND	05	1336E		1350	S13	W52	.824	17817	1.7	14D	1F		C	1336	138	2.4	
507 KANZ	05	1448	1452	1506	N11	E72	.946	17830	11.0	18	-N	2					
508 KANZ	05	1448	1452	1459	S13	W52	.824	17817	1.7	11	-F	2					
509 KANZ	05	1510	1510	1518	S14	E01	.363	17824	5.7	8	-F	3					
GRP97510	05	1514+1	1514+2	1529	S13	E67	.937	17833	10.7	15	-F						G
KANZ	05	1514	1514	1533	S13	E72	.963	17833	11.0	19	-N	2					
WEND	05	1515	1516	1525	S14	E63	.914	17833	10.4	10	-F		C	1516	44	1.0	CG
511 KANZ	05	1611		1611D	S09	W07	.304	17824	5.1		-N	2					
512 BIGB	05	1808	1808	1830	S10	W06	.313	17824	5.3	22	-N	3	C	1808	100	1.0	
513 BIGB	05	1818	1821	1843	S12	W62	.903	17817	1.1	25	1B	3	C	1821	150	3.3	
514 BIGB	05	1855	1902	1946	S09	E63	.905	17833	10.5	51	1N	3	C	1902	90	2.1	
515 BIGB	05	2119	2130	2157	S10	W06	.313	17824	5.4	38	-N	3	C	2130	120	1.2	
516 CULG	05	2155E	2159	2336	N19	E29	.508	17834	8.1	101D	-F		P	2159	40	.5	G
517 CULG	05	2202	2224	2250	N08	W14	.240	17823	4.9	48	-F		C	2224	30	.3	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP97518	05	2313+9	2322+3	2341	S10	W11	.349	17824	5.1	28	-N			90	1.0	E
CULG	05	2313	2322	2341	S10	W11	.349	17824	5.1	28	-B	C	2322	80	.9	
BIGB	05	2322	2325	2345	S11	W08	.340	17824	5.4	23	-N	3 C	2325	100	1.0	
VORO	05	2322	2324	2339	S10	W12	.358	17824	5.1	17	-N	C	2324	90	1.0	E
GRP97519	05	2346+7	2359+4	0025	S12	W66	.930	17817	1.0	39	1N			150		EJ
VORO	05	2346	2402	0025	S12	W69	.947	17817	31.8	39	2N	C	2402	358		EJ
CULG	05	2352E	2359	0020	S15	W66	.934	17817	1.0	28D	1N	P	2359	120		
BIGB	05	2353	2403	0026	S11	W64	.915	17817	1.2	33	1B	3 C	2403	150	3.5	
520 VORO	06	0006	0006	0010	N08	E68	.923	17830	11.1	4	-F	C	0006	45		E
GRP97521	06	0106	0120+1	0140	N10	E62	.877	17830	10.7	34	-N					FJ
CULG	06	0106	0121	0140	N11	E65	.900	17830	10.9	34	1N	C	0121	100	2.3	FJ
MANI	06	0120E	0120U	0124D	N10	E60	.860	17830	10.6	4D	-N	1 V		20	.4	
522 VORO	06	0118	0120	0126	N02	E62	.883	17832	10.7	8	-N	C	0120	45	1.0	E
523 CULG	06	0210	0221	0255	S13	W12	.399	17824	5.2	45	-N	C	0221	90	1.0	F
	06	0315	0326	NO FLARE PATROL												
524 PEKG	06	0554	0559	0600D	N26	E21	.461	17829	7.8	6D	-N	P	0559	168	2.0	E
GRP97525	06	0555+2	0558+1 0608	0610	N08	E56	.824	17830	10.4	15	-N			60	1.1	JV
PEKG	06	0555	0559	0615	N07	E56	.824	17830	10.4	20	-B	C	0559	84	1.5	E
CULG	06	0557	0558	0606	N10	E56	.823	17830	10.4	9	-N	C	0558	40	.7	
ABST	06	0607	0608	0610	N08	E60	.861	17830	10.8	3	1N	C	0608	174	3.5	FJV
526 ABST	06	0602E	0605	0620D	N29	E29	.572	17829	8.4	18D	-F	P	0605	131	1.6	E
527 ABST	06	0607	0610	0620	N20	E45	.712	17835	9.6	13	-F	P	0610	131	1.8	EJ
528 CULG	06	0626	0630	0639D	S12	W13	.394	17824	5.3	13D	-F	P	0630	40	.4	
GRP97529	06	0745>9	0750 0757+2	0811	S11	W68	.940	17817	1.2	26	-F					EH
WEND	06	0745	0750	0806D	S11	W68	.940	17817	1.2	21D	-F	C	0750	44		
ATHN	06	0755	0759	0811	S10	W68	.939	17817	1.2	16	-N	2 V	0759	69	2.1	
KHAR	06	0755E	0757	0811D	S14	W59	.885	17817	1.9	16D	-F	V	0757			EH
GRP97530	06	0835E	0836 0843	0900D	N10	E61	.869	17830	10.9	25	-B					D
PEKG	06	0835E	0836	0840D	N12	E59	.851	17830	10.8	5D	-B	P	0836	42	.8	D
KHAR	06	0841E	0843	0900D	N08	E63	.886	17830	11.1	19D	-N	V	0843	40	.9	D
531 PEKG	06	0836E	0836	0837D	N29	E27	.551	17829	8.4	1D	-N	P	0836	63	.8	E
532 KHAR	06	0856E		0900D	S14	W59	.885	17817	1.9	4D	-F	P	0856			D
533 KHAR	06	0910E		0912D	N08	E55	.814	17830	10.5	2D	-F	P	0911			D
534 KHAR	06	0927E	0927	1048D	S14	W59	.885	17817	2.0	81D	-F	V	0927			DK
GRP97535	06	1005	1005 1034	1111D	S13	W20	.475	17824	4.9	66	1F					E
CATA	06	1005	1005	1025D	S13	W20	.475	17824	4.9	20D	1F	C	1005	225	2.6	
KHAR	06	1020E	1034	1111D	S14	W20	.486	17824	4.9	51D	-F	V	1023	110	1.3	E
536 KHAR	06	1024E	1024	1026D	S12	W77	.981	17816	31.7	2D	-F	P				E
537 KANZ	06	1145E		1206D	S12	W65	.923	17817	1.6	21D	-F	1				
538 ATHN	06	1211	1212	1240	N10	E52	.782	17830	10.4	29	-N	2 V	1212	64	1.0	
539 LVOV	06	1329	1334	1346	N22	E40	.659	17835	9.6	17	-F	P	1334	100	1.4	E
540 KANZ	06	1424	1428	1440	S13	W73	.967	17817	1.1	16	-N	2				
541 KANZ	06	1444	1448	1503	N07	E54	.804	17830	10.7	19	-N	3				

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542 KANZ	06	1511	1511	1522	S12	W73	.966	17817	1.2	11	-N	3				
543 KANZ	06	1518	1522	1526	N10	E49	.749	17830	10.3	8	-B	3				D
GRP97544	06	1532+2	1534+0	1543	N10	E48	.737	17830	10.2	11	-N					D
BIGB	06	1532	1534	1543	N10	E47	.726	17830	10.2	11	-N	3	C 1534	60	.9	
KANZ	06	1534	1534	1542	N10	E49	.749	17830	10.3	8	-B	3				D
545 KANZ	06	1609	1617	1633	S13	W73	.967	17817	1.2	24	-N	2				
546 KANZ	06	1613		1633	S12	W21	.476	17824	5.1	20	-F	2				
547 BIGB	06	2024	2026	2035	N09	W50	.760	17818	3.1	11	-F	3	C 2026	70	1.1	
GRP97548	06	2102+5	2112+2	2211	N08	E49	.749	17830	10.6	69	1N					JK
CULG	06	2102	2112	2222	N10	E49	.749	17830	10.6	80	1B		C 2112	130	2.0	FK
BIGB	06	2107	2114	2200	N08	E51	.772	17830	10.7	53	-N	3	C 2114	110	1.8	
VORO	06	2117E		2142D	N08	E48	.738	17830	10.5	25D	1N		P 2139	179	2.8	EJ
549 CULG	06	2112	2116	2128	S14	W16	.447	17824	5.7	16	-N		C 2116	60	.7	
550 CULG	06	2239	2246	2330	S10	W25	.504	17824	5.1	51	-F		C 2246	20	.2	
GRP97551	06	2351>9	2356 2411+2	0037	N08	E48	.738	17830	10.6	46	1B			160	2.4	J
MITK	07	0000	0013	0049	N08	E47	.726	17830	10.5	49	1N		C 0013	140	2.1	D
BIGB	07	0006	0011	0037	N07	E48	.739	17830	10.6	31	-B	3	C 0011	100	1.5	
VORO	07	0009E		0012D	N08	E48	.738	17830	10.6	3D	1B		P 0012	206	3.2	EJ
CULG	06	2351	2356	0004	N10	E50	.760	17830	10.7	13	-N		C 2356	30	.5	
CULG	06	2355	2412	0030	N09	E47	.726	17830	10.5	35	1B		C 2412	180	2.7	
MANI	06	2357E	2357U	0005D	N09	E48	.738	17830	10.6	8D	-N	1	V	40	.6	
GRP97552	07	0052+3	0100	0111	N10	E41	.651	17830	10.1	19	-B					EHJK
VORO	07	0052E		0112D	N11	E41	.651	17830	10.1	20D	-B		P 0105	134	1.8	EJKH
MITK	07	0055		0058D	N10	E41	.651	17830	10.1	3D	-N		P 0057			E
MANI	07	0056E	0100	0110	N10	E47	.726	17830	10.6	14D	1N	1	V	220	3.3	
YUNN	07	0100E		0104D	N09	E40	.638	17830	10.0	4D	-B		P 0100	129	1.7	
GRP97553	07	0116	0122+0	0141	N08	E42	.664	17830	10.2	25	-N					D
MITK	07	0116	0122	0142	N07	E42	.665	17830	10.2	26	-N		C 0122			D
CULG	07	0121E	0122	0140	N09	E42	.664	17830	10.2	19D	1N		P 0122	170	2.2	
554 CULG	07	0201	0204	0209	S10	W27	.529	17824	5.1	8	-N		C 0204	20	.2	
555 CULG	07	0201	0203	0210	N12	E45	.702	17830	10.5	9	-N		C 0203	40	.6	
556 CULG	07	0247	0251U	0314U	S12	W32	.604	17824	4.7	27D	-N		P 0251	60	.8	
557 CULG	07	0248	0249U	0257D	S15	W71	.960	17817	1.8	9D	-F		P 0249	30		
558 CULG	07	0314E	0317U	0330D	S15	W71	.960	17817	1.8	16D	-N		P 0317	70		
	07	0334	0336	NO FLARE PATROL												
GRP97559	07	0453>9	0457+7 0512+3	0523	N09	E45	.702	17830	10.6	30	1N			230	3.3	JK
CULG	07	0453	0457	0510	N11	E51	.771	17830	11.0	17	-F		C 0457	50	.8	
CULG	07	0500	0502	0508	N13	E42	.665	17830	10.4	8	-N		C 0502	40	.6	
ABST	07	0500	0503	0506	N11	E44	.689	17830	10.5	6	-N		C 0503	87	1.2	DJ
TACH	07	0503	0504	0506	N10	E42	.664	17830	10.4	3	-B		C 0504	71	1.0	D
CULG	07	0505	0514	0514D	N10	E44	.689	17830	10.5	9D	1B		P 0514	280	3.9	
ABST	07	0505	0512	0523	N07	E46	.715	17830	10.7	18	1N		C 0512	175	2.5	FJ
TACH	07	0510	0515	0605	N08	E45	.702	17830	10.6	55	-B		C 0515	115	1.6	E
MITK	07	0511E	0513	0519D	N08	E45	.702	17830	10.6	8D	1N		C 0513	350	5.0	E
ABST	07	0512	0523	0536D	N04	E46	.718	17830	10.7	24D	-F		P 0523	87	1.2	DJK

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP97560	07	0613+2	0618 0645+3	0702	N08	E43	.677	17830	10.5	49	-F			140	1.9	FJK
ABST	07	0613	0634	0644	N04	E46	.718	17830	10.7	31	-F	P	0634	87	1.2	DJK
CULG	07	0615	0618	0638	N15	E45	.704	17830	10.6	23	-F	C	0618	60	.8	FK
CULG	07	0639	0648	0702	N09	E42	.664	17830	10.4	23	-N	C	0648	50	.7	
ABST	07	0640	0645	0657	N06	E44	.691	17830	10.6	17	1N	C	0645	175	2.4	FJK
CATA	07	0640	0645	0700D	N06	E42	.666	17830	10.4	20D	1F	P	0645	169	2.3	
WEND	07	0642E	0645	0702	N07	E42	.665	17830	10.4	20D	-F	C	0645	113	1.6	
KANZ	07	0644	0703	0710	N11	E44	.689	17830	10.6	26	-N	3				
ABST	07	0702	0703	0704D	N09	E37	.597	17830	10.1	2D	-F	P	0703	87	1.1	DJ
561 KHAR	07	0750E	0755	0801D	N08	E41	.651	17830	10.4	11D	-F	V	0755			D
562 KHAR	07	0800E		0832D	S11	W90	1.000	17817	31.6	32D	-F	V	0826			H
GRP97563	07	0907+2	0908+2	0920	N09	E43	.677	17830	10.6	13	-N			70	1.0	D
ATHN	07	0907	0908	0916	N04	E43	.681	17830	10.6	9	-B	2 V	0908	95	1.3	
KHAR	07	0908E	0908	0923D	N12	E46	.714	17830	10.8	15D	-F	V	0908			
KANZ	07	0908	0908	0924D	N11	E44	.689	17830	10.7	16D	-N	3				
MONT	07	0909	0910	0913	N08	E42	.664	17830	10.5	4	-F	C	0910	50		D
GRP97564	07	0916+4	0930	0943	S11	W90	1.000	17817	31.6	27	-F					H
KANZ	07	0916	0924	0924D	S12	W87	1.000	17817	31.9	8D	-N	3				
KHAR	07	0918E	0918	0950D	S11	W90	1.000	17817	31.6	32D	-F	V	0918			H
CATA	07	0920	0930	0935	S08	W90	1.000	17817	31.6	15	1F	P	0930	84		
565 KHAR	07	1000E		1013D	S23	W12	.537	17825	6.5	13D	-F	V	1000			H
GRP97566	07	1031>9	1039+5	1103	N07	E37	.598	17830	10.2	32	-N			110	1.4	
WEND	07	1031	1039	1056	N07	E38	.611	17830	10.3	25	-N	C	1039	100	1.3	
KANZ	07	1040	1040	1103	N08	E37	.597	17830	10.2	23	-B	3				
ATHN	07	1041	1042	1107D	N04	E43	.681	17830	10.7	26D	-B	2 V	1042	127	1.8	
KHAR	07	1043E	1044	1050D	N08	E36	.583	17830	10.1	7D	-F	V	1044			
GRP97567	07	1119+7	1138+1	1152	N08	E40	.638	17830	10.5	33	-N					
KANZ	07	1119	1138	1155	N10	E41	.651	17830	10.5	36	-B	3				
WEND	07	1126	1139	1149	N07	E40	.638	17830	10.5	23	-F	C	1139	75	1.0	
GRP97568	07	1214+1	1223+0	1238	N11	E37	.598	17830	10.3	24	-N					E
WEND	07	1214	1223	1236	N11	E36	.584	17830	10.2	22	-N	C	1223	113	1.4	
KANZ	07	1215	1223	1239	N12	E39	.625	17830	10.4	24	-B	3				E
569 KANZ	07	1251	1258	1306	S11	W87	1.000	17817	1.0	15	-B	3				
GRP97570	07	1259>9	1329+1	1345	N08	E39	.625	17830	10.5	46	-N					
KANZ	07	1259	1329	1352	N09	E39	.624	17830	10.5	53	-B	3				
WEND	07	1326	1330	1338	N08	E39	.625	17830	10.5	12	-N	C	1330	56	.8	
GRP97571	07	1412+0	1414+1	1419	N09	E40	.638	17830	10.6	7	-F					
KANZ	07	1412	1415	1419	N10	E41	.651	17830	10.7	7	-N	3				
WEND	07	1412	1414	1418	N09	E40	.638	17830	10.6	6	-F	C	1414	36	.5	
GRP97572	07	1444+5	1446+5	1500	N09	E37	.597	17830	10.4	16	-N			60	.8	EL
WEND	07	1444	1446	1457	N08	E36	.583	17830	10.3	13	-F	C	1446	81	1.0	
KANZ	07	1445	1449	1504	N09	E37	.597	17830	10.4	19	-B	3				L
LVOV	07	1449	1451	1500	N10	E39	.624	17830	10.5	11	-F	C	1451	50	.6	E
	07	1639	1722	NO FLARE PATROL												
573 BIGB	07	1810	1813	1826	N08	E37	.597	17830	10.5	16	-N	3 C	1813	80	1.0	
574 BIGB	07	2004	2006	2032	S11	W86	.999	17817	1.4	28	1B	3 C	2006	90		
GRP97575	07	2054+2	2059+1	2129	N08	E35	.569	17830	10.5	35	-F			60	.7	
CULG	07	2054	2059U	2117	N09	E35	.569	17830	10.5	23	-F	P	2059	50	.6	
BIGB	07	2056	2100	2140	N08	E36	.583	17830	10.6	44	-N	2 C	2100	80	1.0	
576 CULG	07	2124	2135	2216	S27	W45	.823	17822	4.5	52	?F	C	2135	210	3.8	
			IMP.1 NO : BIGB													
577 CULG	07	2130	2131	2138	S11	W33	.610	17824	5.4	8	-F	C	2131	40	.5	

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578 CULG	07	2141	2147	2221	S12	E41	.708	17833	11.0	40	-F		C	2147	40	.6	
579 CULG	07	2152	2209	2237	N11	W38	.611	17823	5.1	45	-F		C	2209	30	.4	
GRP97580	07	2159	2211 2226	2236D	N27	E06	.351	17829	8.4	37	-F						W
CULG	07	2159	2211	0022	N28	E03	.357	17829	8.1	143	-F		C	2211	90	1.0	W
MANI	07	2225E	2226	2236	N27	E10	.373	17829	8.7	11D	-N	1	V		120	1.3	
GRP97581	07	2217+3	2224+4	2251	N11	E29	.483	17830	10.1	34	-B				140	1.6	
CULG	07	2217	2228	2241	N12	E28	.469	17830	10.0	24	-B		C	2228	160	1.8	
BIGB	07	2220	2224	2301	N10	E30	.497	17830	10.2	41	-B	2	C	2224	120	1.4	
582 CULG	07	2244	2251	2319	N07	W36	.584	17823	5.2	35	-F		C	2251	70	.8	
583 CULG	07	2245	2249 IMP.1	2325 NO : BIGB	S05	E50	.781	17836	11.7	40	?F		C	2249	130	2.1	
584 CULG	07	2301	2304	2312	S08	E76	.975	17839	13.7	11	-F		C	2304	50		
585 CULG	07	2331	2337	2353	N09	E32	.526	17830	10.4	22	-N		C	2337	40	.5	
586 CULG	07	2331	2337	2344	S11	W34	.622	17824	5.4	13	-F		C	2337	30	.4	
587 CULG	08	0004	0018	0026	N11	E26	.437	17830	10.0	22	-N		C	0018	60	.7	
588 CULG	08	0059E	0059U	0117	S15	W30	.604	17825	5.8	18D	-N		P	0059	70	.9	E
GRP97589	08	0112>9	0120 0156	0158	N10	E29	.482	17830	10.2	46	-N						E
CULG	08	0112	0120	0149	N10	E30	.497	17830	10.3	37	-N		C	0120	60	.7	E
PEKG	08	0145	0156	0206	N10	E28	.467	17830	10.2	21	-N		P	0156	80	.9	E
590 CULG	08	0139	0146	0210	S24	W21	.607	17825	6.5	31	-F		C	0146	50	.6	
591 PEKG	08	0223E	0225	0235	N10	E27	.451	17830	10.1	12D	-N		P	0225	59	.7	E
592 CULG	08	0326	0327	0346	S08	W36	.629	17824	5.4	20	-N		C	0327	20	.3	
GRP97593	08	0359+4	0406+1	0430	N07	E30	.496	17830	10.4	31	1N						J
ABST	08	0359	0406	0430	N06	E30	.497	17830	10.4	31	1N		P	0406	183	2.2	FJ
CULG	08	0402	0406	0430	N09	E30	.496	17830	10.4	28	-N		C	0406	130	1.4	
TACH	08	0403	0407	0420	N07	E29	.481	17830	10.3	17	1B		C	0407	176	2.1	E
GRP97594	08	0409+5	0418+1	0433	S04	E47	.746	17836	11.7	24	-F				70	1.0	D
CULG	08	0409	0418	0435	S03	E47	.743	17836	11.7	26	-F		C	0418	50	.7	
ABST	08	0414	0419	0430	S06	E48	.763	17836	11.8	16	-F		C	0419	87	1.4	D
GRP97595	08	0430>9	0434 0454	0456D	N10	E32	.526	17830	10.6	26	-N						EJ
CULG	08	0430	0434	0456	N12	E33	.543	17830	10.7	26	-N	*	C	0434	70	.8	
ABST	08	0447	0454	0534	N07	E37	.598	17830	11.0	47	1N	*	C	0454	175	2.2	EJ
ABST	08	0455	0457	0503	N09	E25	.420	17830	10.1	8	-F	*	C	0457	87	1.0	DJ
GRP97596	08	0537+1	0540+1	0553	N10	E22	.373	17830	9.9	16	-N				170	1.8	J
CULG	08	0537	0540	0555	N12	E23	.393	17830	10.0	18	-B		C	0540	70	.8	
ABST	08	0537	0541	0556	N10	E24	.405	17830	10.0	19	1N		C	0541	227	2.5	FJ
TACH	08	0538	0541	0550	N10	E22	.373	17830	9.9	12	-B		C	0541	176	2.0	D
YUNN	08	0539E		0540	N11	E22	.375	17830	9.9	1D	-N		P	0540	161	1.8	
597 CULG	08	0548	0553	0612	S03	E47	.743	17836	11.8	24	-F		C	0553	40	.6	
GRP97598	08	0618>9	0625+7	0656	N10	E30	.497	17830	10.5	38	-N						EJ
ABST	08	0618	0622	0630D	N11	E28	.468	17830	10.4	12D	-F	*	P	0622	79	1.1	DJ
ABST	08	0623	0625	0703D	N10	E32	.526	17830	10.7	40D	1N	*	P	0625	262	3.1	EJ
CULG	08	0624	0627	0635	N10	E31	.511	17830	10.6	11	-N	*	C	0627	60	.7	
ATHN	08	0630	0632	0656	N10	E29	.482	17830	10.4	26	-B	*	V	0632	32	.4	
599 CULG	08	0624	0627	0632	S08	W40	.678	17824	5.3	8	-F		C	0627	40	.6	
600 KANZ	08	0746	0756	0807	N11	E22	.375	17830	10.0	21	-F	3					

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601 CATA	08	0830E	0835	0840D	N09	E21	.356	17830	9.9	10D	-F		P	0835	56	.6	
602 KANZ	08	0836	0836	0848	S07	E45	.732	17836	11.7	12	-N	3					
GRP97603	08	0856+9	0904+3	0914	N09	E21	.356	17830	9.9	18	-N						
KANZ	08	0856	0904	0912	N10	E21	.357	17830	9.9	16	-N	3					
ATHN	08	0905	0907	0915	N08	E21	.356	17830	10.0	10	-B	3	V	0907	48	.5	
GRP97604	08	0933+6	0941	0955	N06	E27	.452	17830	10.4	22	-N						
WEND	08	0933E		0955	N08	E27	.450	17830	10.4	22D	-F		C	0933	38	.4	
ATHN	08	0939	0941	0946D	N04	E27	.455	17830	10.4	7D	-B	3	V	0941	32	.4	
GRP97605	08	1047+8	1056+0	1100	N10	E19	.325	17830	9.9	13	-N						
KANZ	08	1047	1056	1100	N10	E19	.325	17830	9.9	13	-B	3					
WEND	08	1055	1056	1100	N10	E19	.325	17830	9.9	5	-N		C	1056	63	.7	
GRP97606	08	1134+6	1142+3	1150	N10	E18	.309	17830	9.8	16	-N				35	.4	L
KANZ	08	1134	1144	1209	N11	E18	.312	17830	9.8	35	-N	3					L
UPIC	08	1140	1145U	1150	N10	E18	.309	17830	9.8	10	-N		P	1145	41	.5	L
WEND	08	1140	1142	1149	N10	E19	.325	17830	9.9	9	-F		C	1142	31	.3	
GRP97607	08	1203	1206 1216	1225	N09	E22	.372	17830	10.2	22	-F						
LVOV	08	1203	1206	1216	N09	E18	.307	17830	9.9	13	-F		C	1206	50	.6	D
LVOV	08	1214	1216	1225	N10	E26	.436	17830	10.5	11	-F		C	1216	50	.6	D
608 KANZ	08	1228	1228	1239	N12	E19	.331	17830	9.9	11	-N	3					
GRP97609	08	1327>9	1331+6 1345	1358	N12	E18	.315	17830	9.9	31	-N						EL
ATHN	08	1327	1331	1344	N08	E10	.173	17830	9.3	17	1B	2	V	1331	446	4.7	
LVOV	08	1335	1337	1358	N12	E18	.315	17830	9.9	23	-F		C	1337	150	1.6	E
KANZ	08	1337	1345	1405	N12	E18	.315	17830	9.9	28	-N	3					L
GRP97610	08	1417+1	1420 1431	1437	N10	E22	.373	17830	10.2	20	-F						E
KANZ	08	1417	1431	1435	N11	E23	.391	17830	10.3	18	-F	3					
LVOV	08	1418	1420	1438	N09	E22	.372	17830	10.2	20	-F		C	1420	150	1.7	E
611 BIGB	08	1536	1537	1547	N09	E28	.466	17830	10.7	11	-N	3	C	1537	110	1.3	
612 BIGB	08	1658	1705	1727	N07	E22	.372	17830	10.4	29	1B	3	C	1705	240	2.7	
613 BIGB	08	1728	1732	1808	S14	W49	.799	17824	5.1	40	-B	3	C	1732	70	1.1	
614 BIGB	08	1744	1744	1816	N05	E20	.342	17830	10.2	32	-N	3	C	1744	60	.7	
615 BIGB	08	1917	1920	1943	S19	W23	.569	17825	7.1	26	-B	3	C	1920	80	.9	
616 BIGB	08	1934	1938	1944	S10	W43	.721	17824	5.6	10	-N	3	C	1938	70	1.0	
617 CULG	08	2117	2124	2225	N07	E17	.290	17830	10.2	68	-N		C	2124	40	.4	K
618 CULG	08	2216	2229	2245	N09	W49	.749	17823	5.3	29	-F		C	2229	30	.4	
GRP97619	08	2255>9	2323+4 2333	2355	N09	E14	.241	17830	10.0	60	-N				60	.6	FK
CULG	08	2255	2327	2355	N12	E15	.268	17830	10.1	60	-N		C	2327	60	.6	K
CULG	08	2259	2311	2328	N08	E17	.290	17830	10.2	29	-F		C	2311	70	.7	F
BIGB	08	2322	2323	2355	N10	E15	.260	17830	10.1	33	-N	3	C	2323	60	.6	
MANI	08	2328E	2328U	2335D	N10	E20	.341	17830	10.5	7D	-N	1	V		80	.9	
BIGB	08	2332	2333	2340	N08	E11	.190	17830	9.8	8	-N	3	C	2333	70	.7	
CULG	08	2332E	2332U	2332D	N09	E11	.191	17830	9.8		-B		P	2332	50	.5	
620 CULG	09	0027	0100	0134	N21	E08	.272	17835	9.6	67	-F		C	0100	80	.8	
621 CULG	09	0102	0114	0135	N12	E14	.252	17830	10.1	33	-B		C	0114	140	1.4	
622 CULG	09	0110	0114	0131	S08	E38	.654	17836	11.9	21	-N		C	0114	50	.7	

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GRP97623	09	0137	0144+3	0300	N08	E15	.257	17830	10.2	83	-N						FK
CULG	09	0137	0144	0300	N07	E16	.274	17830	10.3	83	-N		C	0144	100	1.0	KF
CULG	09	0143	0147	0209	N12	E14	.252	17830	10.1	26	-F		C	0147	60	.6	
YUNN	09	0240E		0241D	N07	E16	.274	17830	10.3	1D	-F		P	0241	32	.3	
624 CULG	09	0154	0211	0233	S14	W54	.845	17824	5.0	39	-F		C	0211	30	.5	
625 CULG	09	0235	0243	0308	S08	E39	.666	17836	12.0	33	-F		C	0243	20	.3	
626 CULG	09	0326	0342	0414	N17	W47	.730	17827	5.6	48	-F		C	0342	110	1.7	
627 CULG	09	0331	0339	0401	N08	E14	.240	17830	10.2	30	-F		C	0339	60	.6	
GRP97628	09	0337	0346	0418	N01	E19	.341	17832	10.6	41	-N						J
CULG	09	0337	0346	0420	N01	E20	.357	17832	10.7	43	-N		C	0346	70	.8	E
ABST	09	0401E	0401	0415	N01	E18	.326	17832	10.5	14D	-F		P	0401	87	.9	DJ
629 ABST	09	0413	0416	0421	N07	E16	.274	17830	10.4	8	-N		C	0416	87	.9	DJ
630 ABST	09	0431	0437	0450	N29	W16	.446	17829	8.0	19	-F		C	0437	87	.9	EK
GRP97631	09	0438>9	0545+1	0600D	N07	E09	.155	17830	9.9	82	-F				100	1.0	EJKV
CULG	09	0438E	0545	0709D	N08	E07	.121	17830	9.7	151D	-F		P	0545	80	.8	K
ABST	09	0541	0542	0546	N06	E08	.140	17830	9.8	5	-N		C	0542	87	.9	DV
ABST	09	0543	0546	0600	N07	E16	.274	17830	10.4	17	-F		C	0546	131	1.3	EJ
GRP97632	09	0600	0616 0632	0645	S11	W55	.845	17824	5.1	45	-N						
CULG	09	0600	0616	0645	S14	W55	.853	17824	5.1	45	-F		C	0616	40	.8	
CULG	09	0630	0632	0637	S08	W56	.847	17824	5.1	7	-N	*	C	0632	30	.6	
633 ABST	09	0619	0623	0643	N17	E25	.443	17837	11.1	24	-F		C	0623	87	.9	DJ
GRP97634	09	0632+5	0638+3 0655	0705	N10	E11	.195	17830	10.1	33	-F				130	1.3	V
CULG	09	0632	0641	0709D	N10	E11	.195	17830	10.1	37D	-N	*	P	0641	140	1.4	F
ABST	09	0637	0638	0659	N12	E11	.205	17830	10.1	22	-F	*	C	0638	131	1.3	DV
CATA	09	0650	0655	0705	N11	E10	.183	17830	10.0	15	-F	*	C	0655	56	.6	
CATA	09	0655	0655	0705	N07	E08	.138	17830	9.9	10	-F	*	C	0655	56	.6	
635 CATA	09	0710	0710	0720	N07	E17	.290	17830	10.6	10	-F		C	0710	84	.9	
GRP97636	09	0730+1	0735+0	0749	N06	E11	.191	17830	10.1	19	1N				210	2.1	E
MONT	09	0730E	0735	0753	N06	E02	.041	17830	9.5	23D	-N		C	0735	200		
CATA	09	0730	0735	0755	N07	E12	.206	17830	10.2	25	1F	*	C	0735	253	2.7	
PEKG	09	0731	0735	0745	N07	E11	.189	17830	10.1	14	-N	*	P	0735	168	1.8	E
YUNN	09	0742E		0742D	N06	E13	.224	17830	10.3		-B	*	P	0742	193	2.0	
637 KHAR	09	0842E	0846	0855D	S08	E34	.604	17836	11.9	13D	-F		V	0846			DH
GRP97638	09	0945+5	0945 0955	1005	N08	E09	.156	17830	10.1	20	-F						
CATA	09	0945	0945	1005	N06	E11	.191	17830	10.2	20	-F		C	0945	112	1.2	
KANZ	09	0950	0955	1005	N11	E08	.152	17830	10.0	15	-N	3					
639 CATA	09	0955	0955	1005	N10	W09	.162		8.7	10	-F		C	0955	112	1.2	
640 KANZ	09	1028	1036	1054	N08	E13	.223	17830	10.4	26	-F	3					
641 CATA	09	1105	1110	1145D	N07	E05	.087	17830	9.8	40D	-F		P	1110	56	.6	
GRP97642	09	1147+1	1151+1	1204	N11	E07	.137	17830	10.0	17	-B						EH
LVOV	09	1147	1151	1200	N12	E07	.146	17830	10.0	13	1N		C	1151	350	4.2	E
KANZ	09	1148	1152	1208	N10	E07	.130	17830	10.0	20	-B	3					H
GRP97643	09	1204+2	1204+5	1222	N07	E15	.257	17830	10.6	18	-F						D
KANZ	09	1204	1204	1220	N07	E15	.257	17830	10.6	16	-N	3					
LVOV	09	1206	1209	1223	N08	E15	.257	17830	10.6	17	-F		C	1209	100	1.1	D

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Apparr (Disk)	Corr (Sq Deg)	Remarks
GRP97644	09	1326+7	1331	1347	N09	E09	.158	17830	10.2	21	1N						E
LVOV	09	1326	1331	1401	N10	E08	.146	17830	10.2	35	1N		C	1331	300	3.2	E
KANZ	09	1333		1333	N08	E11	.190	17830	10.4		1B	1					
	09	1401	1434	NO FLARE PATROL													
645 BIGB	09	1526	1530	1550	S09	E26	.509	17836	11.6	24	-N	3	C	1530	90	1.0	
646 BIGB	09	1548	1554	1618	N06	E11	.191	17830	10.5	30	-N	3	C	1554	70	.7	
647 BIGB	09	1617	1622	1659	S11	W50	.799	17826	5.9	42	-F	3	C	1619	80	1.3	
648 BIGB	09	1622	1631	1659	S19	W37	.706	17825	6.9	37	-F	3	C	1631	60	.8	
649 BIGB	09	1933	1942	2010	N06	E09	.157	17830	10.5	37	-F	3	C	1942	80	.8	
650 BIGB	09	2031	2035	2109	S11	W64	.915	17824	5.1	38	-N	3	C	2035	70	1.6	
651 CULG	09	2139	2147	2221	N28	W19	.461	17829	8.5	42	-F		C	2147	20	.2	
652 CULG	09	2148	2159	2225	S11	W61	.894	17824	5.3	37	?F		C	2159	110	2.3	
			IMP.1	NO : BIGB	VORO												
GRP97653	09	2149>9	2211+4	2300	N07	E06	.104	17830	10.4	71	1B				310	3.1	J
CULG	09	2149	2211	2300D	N08	E06	.104	17830	10.4	71D	1B		P	2211	420	4.2	F
VORO	09	2201	2215	2241	N07	E06	.104	17830	10.4	40	1N		C	2215	314	3.2	EJ
BIGB	09	2206	2213	2306	N07	E08	.138	17830	10.5	60	1B	3	C	2213	200	2.1	
654 CULG	09	2214	2218	2226	N18	W22	.406	17834	8.3	12	-F		C	2218	40	.4	
GRP97655	09	2310+6	2317+1	2332	N07	00	.004	17830	10.0	22	-N				90	.9	EHJ
CULG	09	2310	2318	2338	N07	E00	.004	17830	10.0	28	-N		C	2318	90	.9	
VORO	09	2316	2317	2325	N07	E00	.004	17830	10.0	9	-N		C	2317	90	.9	EHJ
GRP97656	09	2349+3	2357	0036	S11	W65	.922	17824	5.1	47	-N				90		EJ
			2402+4														
MANI	10	0002E	0002U	0008D	S11	W63	.885	17824	5.3	6D	-F	1	V		60	1.2	
CULG	09	2349	2406	0053	S13	W67	.937	17824	5.0	64	1N		C	2406	130		
BIGB	09	2351	2357	0035	S10	W64	.914	17824	5.2	44	-N	3	C	2357	70	1.6	
VORO	09	2352	2403	0036	S11	W68	.940	17824	4.9	44	-B		C	2403	90		EJ
GRP97657	10	0045+3	0047+2	0053	N09	E06	.108	17830	10.5	8	-N				80	.8	E
BIGB	10	0045	0047	0053D	N09	E07	.124	17830	10.6	8D	-N	3	P	0047	70	.7	
CULG	10	0046	0047	0050	N09	E05	.091	17830	10.4	4	-N		C	0047	80	.8	
VORO	10	0048	0049	0053	N10	E06	.114	17830	10.5	5	-F		C	0049	179	1.8	E
658 PEKG	10	0215E	0215	0215D	N09	E08	.141	17830	10.7		-N		P	0215	67	.7	F
GRP97659	10	0232	0244+2	0253	N09	E04	.075	17830	10.4	21	-F						
CULG	10	0232	0241	0253	N08	E06	.104	17830	10.6	21	-F		C	0241	40	.4	
CULG	10	0243	0244	0248	N11	W01	.068	17830	10.0	5	-N		C	0244	70	.7	
MANI	10	0245E	0246U	0252D	N09	E06	.108	17830	10.6	7D	-F	1	V		20	.2	
GRP97660	10	0255+5	0302+1	0323	N07	E03	.052	17830	10.3	28	-F				120	1.2	E
CULG	10	0255	0303	0324	N08	E03	.053	17830	10.3	29	-F		C	0303	110	1.1	
PEKG	10	0300	0302	0321	N07	E03	.052	17830	10.3	21	-N		P	0302	126	1.3	E
GRP97661	10	0422+0	0432+6	0512	N06	E03	.056	17830	10.4	50	1B				280	2.8	
			0455														
CULG	10	0422	0438	0511	N06	E02	.041	17830	10.3	49	1N		C	0438	250	2.5	F
TACH	10	0422	0432	0513	N06	E03	.056	17830	10.4	51	1B		C	0432	309	3.2	E
PEKG	10	0445	0455	0510D	N07	E01	.018	17830	10.3	25D	1B		P	0455	252	2.6	F
PEKG	10	0455E	0455	0510D	N07	E10	.172	17830	11.0	15D	-N		P	0455	84	.9	E
662 CULG	10	0553	0554	0557	S13	W66	.931	17824	5.3	4	?F		C	0554	80	2.2	
			IMP.1	NO : PEKG													
663 CULG	10	0558	0600	0614	S08	W63	.904	17824	5.5	16	-F		C	0600	80	1.8	

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GRP97664	10	0726+4	0730+3	0742	S11	W70	.951	17824	5.1	16	1N			90		E
ATHN	10	0726	0730	0742	S08	W70	.948	17824	5.1	16	1B	3 V	0730	95	3.2	
CATA	10	0730	0730	0800	S10	W68	.939	17824	5.2	30	1F	C	0730	84		
BUCA	10	0730		0740	S12	W75	.974	17824	4.7	10	-N	C	0731	86		
PURP	10	0730E	0733	0739	S11	W70	.951	17824	5.1	9D	1N	C	0733	117		
PEKG	10	0731E	0733	0745	S11	W70	.951	17824	5.1	14D	-F	P	0733	55		E
665 PEKG	10	0733E	0733	0736	N07	E02	.035	17830	10.5	3D	-N	P	0733	25	.2	E
666 KHAR	10	0800E	0805	0845D	N16	E88	.998	17842	16.9	45D	-F	V	0801			H
GRP97667	10	0800>9	0815>9	0847	N08	00	.013	17830	10.3	47	1N					EUX
CATA	10	0800	0820	0855	N07	W02	.035	17830	10.2	55	1F	* C	0820	393	4.0	
WEND	10	0806	0821	0836	N08	E00	.013	17830	10.3	30	-N	* C	0821	112	1.2	
BUCA	10	0810	0819	0842	N09	E01	.035	17830	10.4	32	1N	* C	0819	322	3.3	
ATHN	10	0810	0822	0832D	N08	W02	.037	17830	10.2	22D	-B	* V	0822	175	1.8	
KHAR	10	0812E	0825	0900D	N07	W01	.018	17830	10.3	48D	-N	* V	0819	120	1.2	E
PEKG	10	0815E	0822	0842	N07	W01	.018	17830	10.3	27D	1B	* P	0822	231	2.4	FTU
PEKG	10	0815E	0815	0842	N08	E00	.013	17830	10.3	27D	-B	* P	0815	194	2.0	EXU
YUNN	10	0827E		0828D	N07	E01	.018	17830	10.4	1D	1N	* P	0828	321	3.3	
PURP	10	0834E		0850	N09	E02	.046	17830	10.5	16D	1F	* P	0835	304	3.1	
668 KHAR	10	0813E		0815D	N10	W70	.934	17827	5.1	2D	-F	V	0813			D
97669	10	0815+0	0820+5	0854	N09	E11	.191	17830	11.2	39	-N			50	.5	E
KHAR	10	0815E	0825	0905D	N09	E10	.175	17830	11.1	50D	-N	* P	0822	50	.5	E
CATA	10	0815	0820	0942	N09	E11	.191	17830	11.2	87	-F	* C	0820	56	.6	
WEND	10	0815	0825	0840	N10	E11	.195	17830	11.2	25	-N	* C	0825	30	.3	
PEKG	10	0815E	0822	0842	N10	E11	.195	17830	11.2	27D	-N	* P	0822	46	.5	E
GRP97670	10	0938+2	0941+2	1018	N07	E04	.069	17830	10.7	40	1N			440	4.4	E
WEND	10	0938E	0943	1017	N07	E06	.104	17830	10.9	39D	2B	* C	0943	650	6.8	
ATHN	10	0939	0941	0950D	N07	E00	.004	17830	10.4	11D	1B	* V	0941	302	3.1	
KHAR	10	0939E	0942	1019D	N08	E04	.070	17830	10.7	40D	1N	* P	0942	320	3.3	E
CATA	10	0940	0942	1005D	N07	E05	.087	17830	10.8	25D	2F	* P	0942	562	5.8	
	10	1303	1306	NO FLARE PATROL												
	10	1400	1438	NO FLARE PATROL												
671 BIGB	10	1617	1624	1636	N09	W02	.046	17830	10.5	19	-F	3 C	1624	60	.6	
672 BIGB	10	1725	1727	1746	N07	W10	.172	17830	10.0	21	-B	3 C	1727	160	1.7	
673 BIGB	10	1806	1823	1925	N09	W01	.035	17830	10.7	79	-N	2 C	1823	100	1.0	
	10	2025	2118	NO FLARE PATROL												
674 CULG	10	2257E	2258U	2300D	N13	W04	.121	17830	10.7	3D	-N	P	2258	30	.3	
675 BIGB	10	2332	2357	0030	N08	W08	.139	17830	10.4	58	-N	1 C	2357	60	.6	
676 CULG	10	2350	2353	2359D	S13	W02	.348	17833	10.8	9D	-F	P	2353	80	.9	F
677 CULG	11	0016	0018	0020D	N10	W80	.981	17827	5.0	4D	-F	P	0018	40		
	11	0044	0058	NO FLARE PATROL												
678 CULG	11	0058E	0058U	0109	N03	W07	.142	17832	10.5	11D	-N	P	0058	90	.9	
GRP97679	11	0117E	0120+0	0128	S13	W82	.994	17824	4.9	11	-N			50		D
CULG	11	0117E	0120	0122D	S14	W79	.988	17824	5.1	5D	-F	P	0120	40		
PEKG	11	0119E	0120	0128	S13	W85	.998	17824	4.7	9D	-B	P	0120	67		D
680 PEKG	11	0118	0120	0122	N17	E77	.968	17842	16.8	4	-N	P	0120	38		D
GRP97681	11	0134E	0134	0140	N10	W09	.162	17830	10.4	6	-N					
PEKG	11	0134E	0134	0140	N13	W09	.183	17830	10.4	6D	-N	P	0134	55	.6	D
PEKG	11	0134E	0134	0134D	N07	W09	.155	17830	10.4		-N	P	0134	55	.6	D

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GRP97682	11	0301+4	0306	0358	N10	W10	.178	17830	10.4	57	2B				610	6.2	IUV
			0320+0														
CULG	11	0301	0320	0358D	N11	W10	.183	17830	10.4	57D	2B	*	P	0320	640	6.4	EFIV
PEKG	11	0305	0306	0313	N08	W12	.207	17830	10.2	8	-F	*	P	0306	126	1.3	E
PEKG	11	0315	0324	0350	N16	W01	.153	17830	11.1	35	1B		P	0324	399	4.2	F
PEKG	11	0318	0320	0340	N05	W16	.277	17830	9.9	22	2B	*	P	0320	757	8.1	FU
TACH	11	0323		0452	N10	W08	.146	17830	10.5	89	1B	*	C	0323	424	4.7	EF
GRP97683	11	0319	0320+2	0333	S14	W19	.476	17833	9.7	14	-N						G
CULG	11	0319	0322	0336	S16	W17	.480	17833	9.9	17	-F		C	0322	160	1.7	F
PEKG	11	0320E	0320	0330	S13	W21	.486	17833	9.6	10D	-B		P	0320	55	.6	EG
GRP97684	11	0714+1	0715+1	0719	N07	W16	.274	17830	10.1	5	-F				90	.9	
ATHN	11	0714	0716	0718	N08	W16	.274	17830	10.1	4	-N	3	V	0716	95	1.0	
CATA	11	0715	0715	0720D	N07	W17	.290	17830	10.0	5D	-F		P	0715	84	.9	
GRP97685	11	0755+2	0755+6	0809	N07	W22	.372	17830	9.7	14	-F				160	1.7	EH
CATA	11	0755	0755	0810	N07	W22	.372	17830	9.7	15	-F		C	0755	169	1.9	
ATHN	11	0756	0758	0806D	N09	W19	.324	17830	9.9	10D	-N	3	V	0758	127	1.4	
PEKG	11	0757	0801	0806	N06	W22	.373	17830	9.7	9	-N		P	0801	168	1.8	ET
KHAR	11	0800E	0800	0809D	N08	W22	.372	17830	9.7	9D	-F		V	0800			H
GRP97686	11	0809+3	0811+5	0822	N17	E71	.938	17842	16.7	13	-B						H
KHAR	11	0809E	0811	0822D	N16	E72	.944	17842	16.7	13D	-N		V	0811			H
ATHN	11	0812	0816	0821	N18	E70	.932	17842	16.6	9	1B	3	V	0816	95	2.5	
687 KHAR	11	0929E	0929	0948D	N30	W45	.742	17829	8.0	19D	-F		P	0929			D
688 KHAR	11	0948E	0955	1005D	S10	W90	1.000	17824	4.7	17D	-N		V	0955			
GRP97689	11	1005>9	1017	1105	N06	W19	.324	17830	10.0	60	-F						E
			1040														
KHAR	11	1005E	1017	1040D	N08	W23	.388	17830	9.7	35D	-N		V	1017			E
CATA	11	1035	1040	1105	N05	W16	.277	17830	10.2	30	-F		C	1040	56	.6	
690 KHAR	11	1020E		1027D	N14	W05	.145	17837	11.1	7D	-F		V	1020			D
691 KHAR	11	1023E	1025	1039D	S16	W56	.867	17825	7.2	16D	1N		V	1025			D
692 KHAR	11	1030E		1046D	N01	W12	.233	17832	10.5	16D	-N		V	1036			D
693 KHAR	11	1057E		1059D	N15	W09	.204	17830	10.8	2D	-F		V	1059			D
	11	1105	1120	NO FLARE PATROL													
	11	1130	1140	NO FLARE PATROL													
	11	1145	1203	NO FLARE PATROL													
GRP97694	11	1534	1536	1612	N06	W18	.308	17830	10.3	38	-F						
			1554														
BIGB	11	1534	1536	1554	N08	W17	.290	17830	10.4	20	-F	3	C	1536	70	.8	
BIGB	11	1553	1554	1612	N05	W20	.342	17830	10.2	19	-F	3	C	1554	70	.9	
695 BIGB	11	1614	1621	1631	N07	W26	.435	17830	9.7	17	-N	3	C	1621	60	.7	
696 BIGB	11	1706E	1707	1729D	N19	E64	.892	17842	16.5	23D	?B	3	P	1707	100	2.4	
			IMP.1	NO : RAMY													
	11	2100	2128	NO FLARE PATROL													
697 BIGB	11	2131	2134	2220	N18	W22	.406		10.2	49	-N	2	C	2134	150	1.7	
698 CULG	11	2345	2349	0004	N07	W16	.274	17830	10.8	19	-F		C	2349	60	.6	
GRP97699	12	0045+1	0047+4	0056	N08	W19	.323	17830	10.6	11	-N						E
PEKG	12	0045	0051	0057	N09	W19	.324	17830	10.6	12	1N		C	0051	252	2.7	E
CULG	12	0046	0047	0055	N08	W19	.323	17830	10.6	9	-F		C	0047	100	1.1	
GRP97700	12	0052	0055+5	0110	N06	W32	.527	17830	9.6	18	-N				110	1.3	E
CULG	12	0052	0100	0111	N06	W32	.527	17830	9.6	19	-N		P	0100	110	1.3	
PEKG	12	0055E	0055	0106	N06	W32	.527	17830	9.6	11D	-N		P	0055	139	1.7	E
YUNN	12	0103E		0110	N08	W30	.496	17830	9.8	7D	-N		P	0103	64	.8	E

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
701 MANI	12	0200E	0205U	0211D	N19	E63	.884	17842	16.8	11D	-F	1 V		40	.8	F
702 PEKG	12	0303	0307	0312D	N02	W22	.383	17832	10.5	9D	?N	C	0307	378	4.2	EU
			IMP.1	NO : LEAR												
GRP97703	12	0306	0309	0327D	N07	W14	.240	17830	11.1	21	-N					G
PEKG	12	0306	0309U	0320D	N07	W15	.257	17830	11.0	14D	-N	P	0309	84	.9	E
YUNN	12	0321E		0327D	N08	W14	.240	17830	11.1	6D	-N	P	0321	145	1.5	DG
704 YUNN	12	0321E		0327D	N03	W21	.364	17832	10.6	6D	?N	P	0321	353	3.9	E
			IMP.1	NO : LEAR	PEKG											
GRP97705	12	0334E	0334	0350	N10	W23	.389	17830	10.4	16	1N					FIK
			0349													
CULG	12	0334E	0334U	0350	N04	W22	.377	17830	10.5	16D	1N	P	0334	360	4.0	BFI
YUNN	12	0340E	0340	0340D	N08	W24	.403	17830	10.4		-N	P	0340	161	1.8	E
YUNN	12	0345E	0345	0345D	N12	W23	.393	17830	10.4		-N	P	0345	145	1.6	K
PEKG	12	0345	0349	0357D	N12	W24	.409	17830	10.4	12D	1N	C	0349	294	3.3	F
PEKG	12	0345	0347	0357D	N12	W25	.424	17830	10.3	12D	-N	C	0347	168	1.9	FK
706 PEKG	12	0347	0349	0353	S17	W68	.948	17825	7.1	6	-F	P	0349	21		D
707 CULG	12	0427	0429	0436	N03	W20	.348	17832	10.7	9	-F	C	0429	110	1.2	
GRP97708	12	0505	0515	0553	N08	W32	.526	17830	9.8	48	1N			240	2.8	EIK
			0529+7													
CULG	12	0505	0529	0604	N10	W24	.405	17830	10.4	59	1N	C	0529	260	2.9	FIK
TACH	12	0514E	0515	0539	N10	W27	.451	17830	10.2	25D	-N	C	0515	141	1.6	E
PEKG	12	0520	0534	0542	N10	W27	.451	17830	10.2	22	-N	P	0534	126	1.5	E
TACH	12	0526	0534	0539	N07	W35	.570	17830	9.6	13	1B	* C	0534	221	2.8	D
CULG	12	0527	0536	0551	N05	W34	.557	17830	9.7	24	1N	P	0536	180	2.1	
PEKG	12	0530	0534	0544	N07	W36	.584	17830	9.5	14	1B	* P	0534	168	2.1	E
YUNN	12	0557E	0557	0606	N07	W34	.555	17830	9.7	9D	-N	P	0557	161	2.0	
GRP97709	12	0628E	0628	0653	N08	W26	.435	17830	10.3	25	-F			100	1.1	F
CULG	12	0628E	0628U	0641	N07	W27	.451	17830	10.2	13D	-F	P	0628	70	.8	F
CATA	12	0630E	0630	0705D	N09	W26	.435	17830	10.3	35D	-F	P	0630	140	1.6	
GRP97710	12	0707+3	0709	0740	N06	W30	.497	17830	10.0	33	1N					
			0721+9													
CULG	12	0707	0709U	0737U	N06	W30	.497	17830	10.0	30D	-N	P	0709	120	1.4	F
WEND	12	0708	0721	0737	N06	W30	.497	17830	10.0	29	-N	C	0721	156	1.9	
KANZ	12	0710	0730	0746	N07	W28	.466	17830	10.2	36	1N	3				
YUNN	12	0710E		0734	N07	W30	.496	17830	10.0	24D	1N	P	0710	177	2.1	E
CATA	12	0715E	0725	0745	N06	W31	.512	17830	10.0	30D	1F	P	0725	169	2.0	
711 WEND	12	0710	0713	0721	S14	W32	.618	17833	9.9	11	-F	C	0713	56	.7	
GRP97712	12	0740+3	0741+5	0800	N17	W15	.302	17837	11.2	20	-N			90	.9	E
WEND	12	0740	0743	0755	N17	W15	.302	17837	11.2	15	-N	C	0743	41	.5	
YUNN	12	0740E	0741	0755	N18	W14	.299	17837	11.3	15D	-N	P	0741	96	1.1	E
CATA	12	0740	0745	0815	N16	W16	.308	17837	11.1	35	-F	C	0745	84	.9	
PEKG	12	0741	0745	0751	N17	W15	.302	17837	11.2	10	-N	P	0745	134	1.4	E
KANZ	12	0742	0746	0805	N16	W16	.308	17837	11.1	23	-N	3				
ISTA	12	0743		0804	N17	W17	.330	17837	11.0	21	-F					
713 KANZ	12	0957	1001	1012	N18	W55	.815	17834	8.3	15	-F	3				G
714 CATA	12	1030	1030	1040	N28	W53	.810	17829	8.5	10	-F	C	1030	56	1.0	
715 CATA	12	1145	1145	1145D	N09	W24	.404	17830	10.7		-F	P	1145	67	.8	
GRP97716	12	1155E	1203	1240	N10	W29	.482	17830	10.3	45	-N					JK
			1230+4													
KANZ	12	1155E	1203	1234	N08	W29	.481	17830	10.3	39D	-N	3				
ABST	12	1222E	1222	1235	N08	W32	.526	17830	10.1	13D	-N	P	1222	131	1.5	EJ
ABST	12	1222E	1222	1240	N11	W20	.344	17830	11.0	18D	-N	P	1222	87	.9	DJK
ABST	12	1228	1230	1240	N14	W31	.518	17830	10.2	12	-N	C	1230	131	1.5	DJ
KANZ	12	1234	1234	1246	N12	W30	.499	17830	10.3	12	-N	3				
717 ABST	12	1231E	1235	1235	N21	E60	.861	17842	17.0	4D	-N	P	1232	87	1.7	DJK

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
718 ABST	12	1240	1241	1300D	N15	W18	.330	17837	11.2	20D	-N		P	1241	87	.9	EKV
719 KANZ	12	1313	1317	1328	S08	W12	.332	17836	11.7	15	-F	3					
720 KANZ	12	1317	1317	1328	N09	W27	.451	17830	10.5	11	-N	3					
721 BIGB	12	1443	1447	1527	N09	W26	.435	17830	10.7	44	-N	2	C	1447	170	1.9	
GRP97722	12	1527+3	1540+6	1557	N06	W40	.639	17830	9.6	30	-N				40	.5	
WEND	12	1527	1540	1555	N08	W40	.638	17830	9.6	28	-N		C	1540	30	.4	
KANZ	12	1530	1546	1557	N05	W40	.640	17830	9.6	27	-N	3					
BIGB	12	1540	1544	1601	N06	W40	.639	17830	9.7	21	-N	3	C	1544	50	.7	
GRP97723	12	1731	1740	1816	N07	W38	.611	17830	9.9	45	-N						
			1759														
BIGB	12	1731	1740	1756	N06	W35	.570	17830	10.1	25	-N	3	C	1740	90	1.1	
BIGB	12	1754	1759	1816	N08	W41	.651	17830	9.7	22	-N	3	C	1759	90	1.2	
724 BIGB	12	1754	1803	1922	N17	W22	.400	17837	11.1	88	?B	3	C	1803	190	2.1	
			IMP.1 NO : HOLL														
725 BIGB	12	1916	1918	2016	N09	W34	.555	17830	10.3	60	-B	3	C	1918	70	.9	
GRP97726	12	2219+4	2225+0	2241	N09	W34	.555	17830	10.4	22	-N						F
CULG	12	2219	2225	2236	N08	W34	.555	17830	10.4	17	-N		C	2225	20	.2	
BIGB	12	2223	2225	2245	N09	W34	.555	17830	10.4	22	-B	3	C	2225	60	.7	
MANI	12	2233E	2233U	2236D	N09	W34	.555	17830	10.4	3D	-F	1	V		35	.4	F
727 BIGB	12	2254	2257	2315	N01	W33	.552	17832	10.5	21	-N	3	C	2257	70	.9	
728 BIGB	12	2321	2326	2350	N04	W40	.642	17830	10.0	29	-N	3	C	2326	100	1.3	
GRP97729	12	2346+1	2348+1	0018	N14	W29	.489	17830	10.8	32	-N				60	.7	F
			2413														
PEKG	13	0011E	0013	0018	N16	W27	.467	17830	11.0	7D	-N		P	0012	155	1.8	F
BIGB	12	2346	2348	0020	N14	W30	.503	17830	10.7	34	-N	3	C	2348	80	.9	
CULG	12	2347	2349	0018	N13	W29	.486	17830	10.8	31	-F		C	2349	40	.4	
GRP97730	13	0002+2	0012+2	0040	N05	W41	.654	17830	9.9	38	2B				700	9.3	FUZ
BIGB	13	0002	0014	0043	N06	W40	.639	17830	10.0	41	2B	3	C	0014	520	7.0	
CULG	13	0004	0012	0040	N04	W41	.655	17830	9.9	36	2B		C	0012	700	9.0	F
PEKG	13	0011E	0012U	0038	N05	W41	.654	17830	9.9	27D	2B		P	0012	884	11.9	FUZ
GRP97731	13	0007	0011+1	0020	S13	W42	.724	17833	9.9	13	1N				290	4.2	FG
CULG	13	0007	0012	0025	S14	W41	.718	17833	9.9	18	1N		C	0012	300	4.5	F
PEKG	13	0011E	0011	0015	S13	W44	.745	17833	9.7	4D	1N		P	0012	286	4.3	FG
	13	0134	0139	NO FLARE PATROL													
732 TACH	13	0415	0421	0442	N10	W38	.611	17830	10.3	27	?B		C	0421	177	2.3	D
			IMP.1 NO : CULG PEKG														
733 PEKG	13	0429E	0429	0438	S13	E13	.407	17839	14.2	9D	-N		P	0429	168	1.9	E
734 ABST	13	0644E	0646	0713D	N11	W35	.570	17830	10.7	29D	-F		P	0646	131	1.6	DJ
735 ABST	13	0650	0657	0713D	N18	E47	.731	17842	16.8	23D	-F		P	0657	87	1.4	DJ
736 CATA	13	0815	0815	0825	N05	W44	.692	17830	10.0	10	-F		C	0815	112	1.6	
737 KANZ	13	0836	0840	0848	S18	W80	.992	17825	7.4	12	-N	3					
738 YUNN	13	0922	0930	0940	N19	E46	.721	17842	16.8	18	-N		C		64	1.0	
GRP97739	13	1000+5	1005+3	1031	N21	E43	.691	17842	16.6	31	1N				160	2.3	
KANZ	13	1000	1008	1035	N21	E44	.703	17842	16.7	35	1N	3					
ATHN	13	1002E	1005	1031	N22	E43	.694	17842	16.6	29D	1B	3	V	1005	159	2.6	
CATA	13	1005	1005	1020	N20	E43	.689	17842	16.6	15	1F		C	1005	169	2.4	
	13	1145	1219	NO FLARE PATROL													
	13	1244	1251	NO FLARE PATROL													

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	13	1258	1308	NO FLARE PATROL													
740 BIGB	13	1745	1746	1806	N18	W35	.584	17837	11.1	21	-F	3	C	1746	70	.9	
741 BIGB	13	1944	1958	2034	N16	W40	.644	17837	10.8	50	-B	3	C	1958	70	.9	
GRP97742	13	2224+1	2227+1	2243	N13	W49	.749	17830	10.3	19	-N						
CULG	13	2224	2228	2235	N12	W48	.737	17830	10.3	11	-N		C	2228	20	.3	
BIGB	13	2225	2227	2250	N14	W50	.761	17830	10.2	25	-N	3	C	2227	80	1.3	
GRP97743	13	2333+5	2344+0	0043	N15	E32	.534	17842	16.4	70	-B				90	1.1	
			2434														
YUNN	14	0030E	0034	0049	N15	E32	.534	17842	16.4	19D	-N		P		32	.4	E
CULG	13	2333	2344	0030	N16	E31	.523	17842	16.3	57	1B		C	2344	250	2.8	
BIGB	13	2338	2344	0043	N15	E32	.534	17842	16.4	65	-B	3	C	2344	90	1.1	
MANI	13	2344E	2344U	0003D	N15	E32	.534	17842	16.4	19D	-N	1	V		80	1.0	F
744 CULG	13	2342	2350	0000	S20	E08	.475	17839	14.6	18	-F		C	2350	30	.3	
745 ISTA	14	0620		0624	S17	W90	1.001	17825	7.5	4	-F						A
GRP97746	14	0717+3		0738	N15	E27	.463	17842	16.3	21	-N						D
ISTA	14	0717		0725	N16	E27	.467	17842	16.3	8	-N						D
BUCA	14	0720		0750	N15	E27	.463	17842	16.3	30	-N		C	0722	107	1.2	
747 CATA	14	0905	0920	0920D	S16	E51	.825	17847	18.2	15D	?F		P	0920	281	5.1	
			IMP.2	NO : LEAR													
	14	1400	1430	NO FLARE PATROL													
748 BIGB	14	1818	1826	1850	N16	E21	.380	17842	16.3	32	-B	3	C	1826	140	1.5	
749 BIGB	14	1847	1848	1853	N11	W61	.868	17830	10.2	6	-B	3	C	1848	70	1.5	
GRP97750	14	2238+2	2256+0	2312	N07	W68	.923	17830	9.8	34	1B						EJ
VORO	14	2238	2256	2313	N07	W68	.923	17830	9.8	35	1B	*	C	2256	224		EJ
CULG	14	2240	2256	2310	N05	W68	.925	17830	9.8	30	-B		C	2256	60	1.5	
BIGB	14	2254	2256	2256D	N07	W70	.936	17830	9.7	2D	1N	*	P	2256	120		
751 VORO	14	2328	2330	2358D	S16	W09	.421	17839	14.3	30D	-F		C	2330	45	.5	EJ
GRP97752	15	0003+6	0041	0200	N17	E20	.372	17842	16.5	117	1N				220	2.4	EJKU
			0051+3														
CULG	15	0003	0041	0215	N17	E18	.344	17842	16.4	132	1N		C	0041	240	2.7	UK
VORO	15	0009		0130D	N18	E22	.407	17842	16.7	81D	1B		P	0058	269	3.0	EJK
PURP	15	0019E	0054	0154	N16	E20	.366	17842	16.5	95D	1B		C	0054	235	2.6	
BIGB	15	0044	0051	0110D	N14	E21	.370	17842	16.6	26D	-N	3	P	0057	140	1.5	
MITK	15	0111E		0200D	N17	E20	.372	17842	16.5	49D	1N		C	0112	340	3.8	E
GRP97753	15	0005+3	0013+2	0034	N16	W56	.823	17837	10.8	29	-N						EJ
CULG	15	0005	0013	0041	N16	W55	.813	17837	10.9	36	1N		C	0013	160	2.6	
VORO	15	0008	0015	0027	N17	W57	.833	17837	10.7	19	-N		C	0015	72	1.3	EJ
GRP97754	15	0020	0025	0056	S21	E36	.710	17847	17.7	36	1N						E
			0042														
VORO	15	0020	0025	0051	S22	E35	.708	17847	17.6	31	1N		C	0025	179	2.5	E
CULG	15	0040E	0042	0100	S21	E38	.729	17847	17.9	20D	-F		P	0042	90	1.3	
GRP97755	15	0043+5	0048+3	0058	N07	W69	.930	17830	9.9	15	1B				110		E
CULG	15	0043	0048	0059	N06	W68	.924	17830	9.9	16	1N		C	0048	110		
BIGB	15	0044	0049	0057	N07	W70	.936	17830	9.8	13	1B	3	C	0049	80		
VORO	15	0048	0051	0058	N07	W69	.930	17830	9.9	10	1B		C	0051	269		E
756 ABST	15	0402E	0403	0406D	N04	W79	.980		9.2	4	?N		C	0403	87		DJV
			IMP.1	NO : LEAR PURP CULG													
GRP97757	15	0402+0	0425+2	0508	N16	W55	.813	17837	11.0	66	1F				130	2.3	DJK
CULG	15	0402	0425	0520	N16	W54	.804	17837	11.1	78	1F		C	0425	130	2.1	
ABST	15	0402	0427	0455	N16	W56	.823	17837	11.0	53	1F		C	0427	131	2.3	DJK
758 ABST	15	0440	0445	0450	N19	E23	.427	17842	16.9	10	-F		C	0445	131	1.4	ES

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759 ABST	15	0603	0606	0612D	N08	W68	.923	17830	10.2	9D	?F	P	0606	87	2.1	DJ
			IMP.1	NO : CULG	LEAR											
760 CULG	15	0605E	0607	0617	N23	E17	.386	17842	16.5	12D	-F	C	0607	40	.4	
761 ABST	15	0640	0657	0705	N16	W58	.842	17837	10.9	25	?F	C	0656	131	2.3	EJK
			IMP.1	NO : CULG	LEAR	KANZ										
762 ABST	15	0654	0656	0705	N06	W75	.963	17830	9.7	11	?F	C	0656	131		EJ
			IMP.1	NO : CULG	LEAR	KANZ										
763 ABST	15	0655	0656	0710	N15	E17	.316	17842	16.6	15	-F	C	0656	131	1.5	DJZ
764 CATA	15	0800	0805	0815	N13	E90	1.000	17853	22.1	15	?F	C	0805	67		
			IMP.1	NO : LEAR	KANZ	PURP										
765 KANZ	15	0857	0857	0905	N06	W73	.953	17830	9.9	8	-F	3				
766 KANZ	15	0901		0905D	N15	E13	.258	17842	16.4	4D	-N	3				
767 CATA	15	1050	1050	1100	N12	W62	.876	17830	10.8	10	-F	C	1050	56	1.2	
768 CATA	15	1115	1140	1145D	N09	E90	1.000	17853	22.2	30D	3F	P	1140	500		
	15	1258	1352	NO FLARE PATROL												
769 BIGB	15	1726	1729	1738D	N15	E11	.230	17842	16.6	12D	-F	3 P	1729	70	.7	
GRP97770	15	2113	2115	2145	N05	W82	.989	17830	9.7	32	2N					EHJ
CULG	15	2113	2115	2133	N05	W85	.995	17830	9.5	20	2N	C	2115	180		
VORO	15	2124E		2156	N06	W80	.983	17830	9.9	32D	1B	P	2124	269		EJH
GRP97771	15	2115	2118	2202	S13	W79	.988	17833	10.0	47	-N			50		DH
CULG	15	2115	2118	2200	S14	W78	.985	17833	10.0	45	-F	C	2118	30		
VORO	15	2124E		2204D	S12.	W80	.990	17833	9.9	40D	1B	P	2124	72		DH
772 CULG	15	2120	2200	2215D	N13	E84	.992	17853	22.2	55D	?F	P	2200	80		
			IMP.1	NO : PALE	VORO											
GRP97773	15	2326+3	2330+1	2336	N20	E08	.258	17842	16.6	10	-F			50	.5	DJ
CULG	15	2326	2330	2338	N21	E08	.272	17842	16.6	12	-N	C	2330	50	.5	
VORO	15	2329	2331	2334	N20	E08	.258	17842	16.6	5	-F	C	2331	63	.7	DJ
774 CULG	15	2355	2357	0004	N09	W71	.941	17830	10.7	9	-F	C	2357	20		
GRP97775	16	0051	0052+2	0130D	S09	E32	.584	17845	18.4	39	1F			190	2.3	JK
VORO	16	0051	0054	0123D	S10	E33	.603	17845	18.5	32D	1F	C	0054	206	2.6	EJK
CULG	16	0052E	0052U	0130D	S09	E32	.584	17845	18.4	38D	1F	P	0052	170	2.1	F
776 PURP	16	0142E	0143	0151	S07	E60	.879	17850	20.6	9D	-N	C	0143	113	1.2	
GRP97777	16	0143	0146	0200D	N15	E06	.170	17842	16.5	17	-N					EJ
PURP	16	0143	0146	0200	N15	E06	.170	17842	16.5	17	-N	C	0143	83		E
CULG	16	0150E	0150U	0230	N15	E06	.170	17842	16.5	40D	-N	P	0150	140	1.4	J
778 CULG	16	0208	0216	0315	N18	W70	.932	17837	10.8	67	?N	C	0216	80		KF
			IMP.1	NO : LEAR	PURP											
GRP97779	16	0410+5	0416+3	0430	N16	E03	.161	17842	16.4	20	-F			90	.9	EJK
ABST	16	0410	0416	0435	N16	E05	.175	17842	16.5	25	-N	C	0416	131	1.3	EJK
CULG	16	0415	0419	0425	N17	E02	.174	17842	16.3	10	-F	C	0419	60	.6	
GRP97780	16	0518+1	0521+1	0556	N17	E04	.183	17842	16.5	38	-N			100	1.0	EJ
			0550													
ABST	16	0518	0521	0555	N19	E07	.236	17842	16.7	37	-N	C	0521	131	1.3	EJ
CULG	16	0519	0522	0546	N13	E00	.101	17842	16.2	27	-F	C	0522	70	.7	
CULG	16	0541	0550	0557	N16	E03	.161	17842	16.5	16	-N	C	0550	50	.5	TJ
GRP97781	16	0518+2	0523+2	0544	S07	E56	.845	17850	20.4	26	1F			120	2.2	EJK
CULG	16	0518	0523	0558	S08	E56	.847	17850	20.4	40	1F	* C	0523	110	2.1	
ABST	16	0520	0525	0530	S07	E56	.845	17850	20.4	10	1F	* C	0525	131	2.4	EJK

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
782 ISTA	16	0723		0728	S20	E09	.479	17843	17.0	5	-F					D
783 MONT	16	0733	0736	0752	S17	E24	.558	17847	18.1	19	-F	C	0736	60		E
784 ISTA	16	0735		0800	N15	E33	.549	17844	18.8	25	-F					F
GRP97785	16	1050	1057	1110	N11	W81	.984	17830	10.4	20	-N					
KANZ	16	1050	1057	1109	N10	W83	.990	17830	10.2	19	-N	3				
CATA	16	1100E	1100	1110	N13	W80	.981	17830	10.5	10D	1F	P	1100	140		
786 ATHN	16	1344E	1346	1350D	N15	E04	.152	17842	16.9	6D	-N	3 V	1346	80	.8	
	16	1543	1556	NO FLARE PATROL												
	16	1641	1651	NO FLARE PATROL												
787 CULG	16	2043	2046	2104	S07	E51	.797	17850	20.7	21	-F	C	2046	70	1.2	
788 CULG	16	2154E	2209	2228	N19	W04	.215	17842	16.6	34D	-N	P	2209	120	1.2	
789 CULG	16	2155	2211	2223	N15	W78	.973	17837	11.1	28	?F	C	2211	60		
			IMP.1	NO : HOLL												
790 CULG	16	2233	2308	2313D	N19	W15	.322	17842	15.8	40D	?N	P	2308	200	2.2	K
			IMP.1	NO : HOLL												
791 CULG	16	2347	2420	0036	N16	W11	.240	17842	16.2	49	-N	C	2420	70	.8	
GRP97792	17	0128+1	0130+0	0136	N18	W05	.206	17842	16.7	8	-N			100	1.0	E
PURP	17	0044	0123	0312	N17	W08	.217	17842	16.4	148	-B	C	0123	97	1.1	E
MITK	17	0128	0130	0136	N18	W04	.199	17842	16.8	8	-N	C	0130			E
CULG	17	0129	0130	0136	N20	W05	.237	17842	16.7	7	-N	C	0130	110	1.1	F
PURP	17	0130E	0130	0133	N19	W03	.211	17842	16.8	3D	-B	C	0130	90	1.0	
793 CULG	17	0136	0137	0144	S17	W26	.578	17839	15.1	8	-F	C	0137	60	.7	
794 CULG	17	0146	0151	0204	S05	E44	.714	17850	20.4	18	-F	C	0151	40	.5	
795 CULG	17	0152	0156	0213	S22	W35	.707	17839	14.5	21	-N	C	0156	130	1.8	F
796 CULG	17	0252	0255	0301	N17	W59	.851	17838	12.7	9	-F	C	0255	60	1.1	
GRP97797	17	0312>9	0319+4	0348	N12	E72	.945	17853	22.5	36	1N			80		F
CULG	17	0312	0319	0348	N13	E70	.933	17853	22.4	36	1F	C	0319	80	2.2	F
PURP	17	0322	0323	0328D	N11	E74	.956	17853	22.7	6D	1B	P	0323	90		
798 CULG	17	0328	0331	0339	N20	W06	.243	17842	16.7	11	-B	C	0331	60	.6	F
799 ABST	17	0418	0422	0450	N14	W09	.194	17842	16.5	32	-N	C	0422	131	1.3	EJ
800 CULG	17	0524	0524	0527	N13	W08	.170	17842	16.6	3	-F	C	0524	40	.4	V
GRP97801	17	0525	0556	0619	N12	W81	.984	17830	11.2	54	1N					AF
CULG	17	0525	0556	0623	N14	W82	.986	17830	11.1	58	1N	C	0556	140		F
ISTA	17	0600E		0615	N10	W80	.982	17830	11.2	15D	2N					AB
802 CATA	17	1020	1020	1030	N14	W15	.280	17842	16.3	10	-F	C	1020	56	.6	
	17	1433	1434	NO FLARE PATROL												
803 HOLL	17	1444	1449	1456	N18	W10	.251	17842	16.9	12	-F	3 C		28		
	17	1536	1609	NO FLARE PATROL												
804 HOLL	17	1653	1700	1734	N14	W16	.295	17842	16.5	41	-N	3 C		84		ZF
805 HOLL	17	1739	1743	1749	N13	E69	.927	17853	22.9	10	-N	3 C		32		
GRP97806	17	1846+0	1847+0	1914	N16	W16	.308	17842	16.6	28	-N			80	.8	F
BIGB	17	1846	1847	1916	N16	W16	.308	17842	16.6	30	-N	3 C	1847	70	.8	
HOLL	17	1846	1847	1912	N16	W16	.308	17842	16.6	26	-N	3 C		89		F

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP97807	17	2033+7	2039+5	2057	N19	E34	.575	17848	20.4	24	-F				100	1.2	
CULG	17	2033	2039	2057	N18	E32	.544	17848	20.3	24	1N		C	2039	200	2.4	
HOLL	17	2040	2044	2055	N19	E34	.575	17848	20.4	15	-F	2	C		81		
BIGB	17	2040	2044	2105	N19	E34	.575	17848	20.4	25	-F	3	C	2044	100	1.2	
GRP97808	17	2103+1	2105+1	2116	N13	E14	.258	17844	18.9	13	-N				60	.6	
CULG	17	2103	2105	2113	N14	E14	.265	17844	18.9	10	-B		C	2105	70	.7	
BIGB	17	2104	2106	2119	N13	E15	.273	17844	19.0	15	-F	3	C	2106	60	.6	
GRP97809	17	2212+2	2223+4	2255	S04	E11	.270	17845	18.7	43	-F				90	.9	F
CULG	17	2212	2227	2257	S04	E10	.259	17845	18.7	45	-N		C	2227	100	1.0	F
HOLL	17	2214	2223	2253	S05	E12	.294	17845	18.8	39	-F	3	C		82		
810 HOLL	17	2302	2303	2312	N18	W15	.312	17842	16.8	10	-F	3	C		31		
GRP97811	17	2304+4	2307+1	2321	S19	W35	.686	17839	15.3	17	-F						F
CULG	17	2304	2307	2317	S19	W36	.696	17839	15.3	13	-F		C	2307	60	.8	F
HOLL	17	2308	2308	2324	S19	W35	.686	17839	15.3	16	-F	3	C		21		
812 HOLL	17	2321	2324	2332	N14	W20	.355	17842	16.5	11	-F	3	C		41		F
GRP97813	17	2331+2	2333+3	2346	N10	E64	.893	17853	22.8	15	-N				60	1.4	
CULG	17	2331	2333	2339	N10	E64	.893	17853	22.8	8	-F		C	2333	80	1.7	
HOLL	17	2331	2336	0002D	N10	E65	.901	17853	22.9	31D	-B	3	C		81		
BIGB	17	2332	2334	0006	N10	E65	.901	17853	22.9	34	-B	1	C	2334	70		
VORO	17	2332	2334	2340	N11	E63	.885	17853	22.7	8	-N		C	2334	72	1.7	E
PALE	17	2333	2334	2339	N11	E63	.885	17853	22.7	6	-F	3	C		36		
LEAR	17	2334E	2334U	2342	N10	E57	.833	17853	22.3	8D	-N	3	C		49		F
MANI	17	2334E	2335	2338D	N10	E64	.893	17853	22.8	4D	-F	3	C		50		
MANI	17	2334E	2335	2338D	N10	E64	.893	17853	22.8	4D	-F	1	V		50	1.0	
814 CULG	17	2341	2344	2358	S08	E34	.604	17850	20.5	17	-F		C	2344	60	.7	
815 CULG	17	2343	2343	2346	N14	W26	.445	17842	16.0	3	-F		C	2343	40	.4	FV
GRP97816	17	2346+3	2348+2	2352	N10	E60	.860	17853	22.5	6	-N				70	1.4	E
CULG	17	2346	2348	2352	N11	E61	.868	17853	22.6	6	-N	*	C	2348	50	1.0	
VORO	17	2349	2350	2352	N10	E60	.860	17853	22.5	3	-N	*	C	2350	90	1.9	E
GRP97817	17	2352+3	2355+3	0006	N15	E12	.244	17844	18.9	14	-N				70	.7	E
CULG	17	2352	2355	0008	N15	E12	.244	17844	18.9	16	-B		C	2355	70	.7	
VORO	17	2355	2358	0006	N15	E11	.230	17844	18.8	11	-N		C	2358	90	.9	E
LEAR	17	2355	2357	0004	N14	E13	.250	17844	19.0	9	-F	3	C		49		
GRP97818	18	0121+1	0122+2	0127	N13	W26	.442	17842	16.1	6	-N				60	.7	D
CULG	18	0121	0122	0127	N12	W27	.455	17842	16.0	6	-B		C	0122	60	.6	
PEKG	18	0121	0123	0126	N13	W26	.442	17842	16.1	5	-N		C	0123	76	.9	D
LEAR	18	0122	0124	0127	N13	W25	.427	17842	16.2	5	-F	3	C		47		
GRP97819	18	0130+3	0134+2	0150	N08	E66	.909	17853	23.0	20	-N						F
CULG	18	0130	0134	0150	N09	E65	.901	17853	22.9	20	1N		C	0134	180	4.1	
LEAR	18	0133	0136	0150	N08	E67	.916	17853	23.1	17	-N	3	C		78		F
GRP97820	18	0317+6	0321+3	0350	S10	E30	.566	17850	20.4	33	-F				80	1.0	F
			0330														
CULG	18	0317	0321	0421	S09	E30	.559	17850	20.4	64	-F		C	0321	110	1.2	F
LEAR	18	0322	0324	0350	S10	E31	.578	17850	20.5	28	-F	3	C		55		F
PEKG	18	0323	0330	0335	S10	E29	.553	17850	20.3	12	-N		C	0330	143	1.8	E
821 CULG	18	0357	0400	0419	N12	E56	.823	17853	22.4	22	-F		C	0400	110	1.9	F
GRP97822	18	0445+3	0447+4	0457	N09	E63	.886	17853	22.9	12	-N				50	1.1	D
CULG	18	0445	0447	0457	N11	E62	.877	17853	22.8	12	-F		C	0447	40	.8	
TACH	18	0446	0448	0458	N09	E66	.908	17853	23.1	12	-B		C	0448	88		D
LEAR	18	0446	0448	0456	N09	E63	.886	17853	22.9	10	-F	3	C		47		
PEKG	18	0448	0451	0455	N09	E64	.893	17853	23.0	7	-N		C	0451	42	.9	D
GRP97823	18	0509	0510+1	0520	N14	E09	.194	17844	18.9	11	-F						DJKZ
LEAR	18	0509	0510	0515	N14	E10	.207	17844	19.0	6	-F	3	C		26		
ABST	18	0510E	0511	0524	N14	E09	.194	17844	18.9	14D	-N		P	0511	87	.9	DJKZ

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GRP97824	18	0546+1	0547+0	0550	N10	E62	.877	17853	22.9	4	-F					DJVZ
ABST	18	0546	0547	0550	N09	E64	.893	17853	23.0	4	-N	C	0547	87	1.7	DJVZ
CULG	18	0547	0547	0550	N12	E60	.859	17853	22.7	3	-F	C	0547	20	.4	
825 ABST	18	0550	0556	0614	N12	E60	.859	17853	22.7	24	-F	C	0556	87	1.6	DZ
826 ABST	18	0556	0557	0625	S04	E07	.228	17845	18.8	29	-F	C	0557	87	.9	D
827 ABST	18	0623	0628	0636	N14	E09	.194	17844	18.9	13	-F	C	0628	87	.9	DK
828 ABST	18	0641	0651	0702	N14	E08	.181	17844	18.9	21	-F	C	0651	87	1.3	EK
829 WEND	18	0824	0828	0840	N14	E09	.194	17844	19.0	16	-F	C	0828	46	.5	
GRP97830	18	0910+6	0915+3	0921	N17	W22	.401	17842	16.7	11	-F			90	1.0	
CATA	18	0910	0915	0925	N17	W22	.401	17842	16.7	15	-F	C	0915	112	1.3	
KANZ	18	0913	0917	0921	N16	W22	.395	17842	16.7	8	-N	3				
LEAR	18	0916	0918	0921	N17	W22	.401	17842	16.7	5	-F	3 C		70		
GRP97831	18	0913+2	0915+2	0932	S04	E04	.205	17845	18.7	19	-F					
KANZ	18	0913	0917	0929	S04	E05	.212	17845	18.8	16	-F	3				
CATA	18	0915	0915	0935	S05	E04	.222	17845	18.7	20	-F	C	0915	28	.3	
832 KANZ	18	0949	0949	1001	N16	W20	.366	17842	16.9	12	-N	3				
833 KANZ	18	1009	1009	1013	N14	E60	.859	17853	22.9	4	-N	3				
834 WEND	18	1028	1030	1038	S04	E03	.200	17845	18.7	10	-F	C	1030	56	.6	
835 CATA	18	1140	1145	1145D	N14	E06	.157	17844	18.9	5D	-F	P	1145	56	.6	
836 WEND	18	1413	1416	1422	N09	E57	.833	17853	22.9	9	-F	C	1416	38	.7	
837 WEND	18	1542	1544	1548	N08	E44	.690	17853	22.0	6	-F	C	1544	19	.3	
GRP97838	18	1552+1	1554+3	1614	S05	E01	.211	17845	18.7	22	-N			100	1.0	
WEND	18	1552	1556	1610	S04	E00	.119	17845	18.7	18	-N	C	1556	75	.8	E
HOLL	18	1553E	1557	1617D	S05	E02	.213	17845	18.8	24D	-N	3 C		128		F
BIGB	18	1553	1556	1614	S05	E02	.213	17845	18.8	21	-N	2 C	1556	90	.9	
KANZ	18	1554E	1554	1602D	S05	E01	.211	17845	18.7	8D	-N	2				
839 HOLL	18	1601	1603	1623D	S08	E28	.526	17850	20.8	22D	-F	3 C		26		
GRP97840	18	1733+1	1736+0 1747	1807	S06	E58	.860	17856	23.1	34	-B			90	1.7	
BIGB	18	1733	1736	1809	S06	E58	.860	17856	23.1	36	-B	3 C	1736	80	1.6	
HOLL	18	1734	1736	1807	S05	E58	.858	17856	23.1	33	-B	3 C		112		
PALE	18	1737E	1747	1759	S06	E59	.869	17856	23.2	22D	-F	3 C		65		
841 HOLL	18	1750	1751	1754	N10	E42	.664	17853	21.9	4	-N	3 C		38		
842 HOLL	18	1803	1803	1828D	S05	W01	.211	17845	18.7	25D	-F	3 C		43		
843 HOLL	18	1936	1937	1957	N10	E40	.638	17853	21.8	21	-N	3 C		24		F
GRP97844	18	2122+5	2127+2	2137	N10	E42	.664	17853	22.0	15	-N			60	.8	
CULG	18	2122	2127	2134	N12	E42	.665	17853	22.0	12	-N	C	2127	60	.7	
BIGB	18	2127	2129	2139	N09	E43	.677	17853	22.1	12	-N	3 C	2129	70	1.0	
845 CULG	18	2143	2145	2147	N11	E39	.625	17853	21.8	4	-N	C	2145	80	1.0	
846 HOLL	18	2153	2153	2202	N11	E42	.664	17853	22.1	9	-N	3 C		24		
847 CULG	18	2225	2232	2255	S04	W05	.212	17845	18.6	30	-F	C	2232	120	1.2	
GRP97848	18	2317+0	2318+0	2321	N10	E40	.638	17853	22.0	4	-N			80	1.0	FH
BIGB	18	2317	2318	2322	N10	E40	.638	17853	22.0	5	-N	3 C	2318	70	.9	
LEAR	18	2317	2318	2321	N10	E40	.638	17853	22.0	4	-N	3 C		81		H
CULG	18	2318E	2318	2320	N12	E40	.639	17853	22.0	2D	-B	P	2318	100	1.3	F
849 LEAR	19	0050	0052	0119	N16	W33	.551	17842	16.6	29	-F	3 C		39		F

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
850 YUNN	19	0317E		0327D	S08	E90	1.000	17863	25.9	10D	-F		P	0317			GY
GRP97851	19	0350+1	0353+5	0410	N10	E46	.714	17853	22.6	20	-F				40	.6	I
CULG	19	0350	0354	0414	N12	E42	.665	17853	22.3	24	-F		C	0354	120	1.5	FI
LEAR	19	0351	0358	0405	N10	E46	.714	17853	22.6	14	-F	3	C		31		
PURP	19	0351	0353	0410	N09	E46	.714	17853	22.6	19	-F		C	0356	41	.7	D
GRP97852	19	0403+7	0404 0412+2	0436	N14	W36	.588	17842	16.5	33	-N						F
CULG	19	0403	0404	0436	N14	W37	.601	17842	16.4	33	-B		C	0414	130	1.7	
LEAR	19	0405	0412	0438	N15	W35	.576	17842	16.5	33	-N	3	C		153		F
PURP	19	0410	0414	0423	N14	W36	.588	17842	16.5	13	1N		C	0414	235	2.9	
GRP97853	19	0420+1	0424+0	0444	S04	W07	.227	17845	18.7	24	-N						F
CULG	19	0420	0424	0447	S04	W08	.237	17845	18.6	27	1N		C	0424	220	2.2	
LEAR	19	0421	0424	0441	S04	W07	.227	17845	18.7	20	-F	3	C		77		F
854 CULG	19	0421	0427	0430	N12	E50	.760	17853	22.9	9	-F		C	0427	40	.6	FK
GRP97855	19	0450	0452+1	0459	N10	E37	.597	17853	22.0	9	-N				140	1.8	E
CULG	19	0450	0452	0459	N12	E37	.599	17853	22.0	9	-N		C	0452	110	1.3	
PURP	19	0452E	0453	0458	N09	E38	.611	17853	22.1	6D	1N		C	0453	173	2.2	E
GRP97856	19	0540>9	0551+4	0614	N08	E46	.714	17853	22.7	34	1B				280	4.0	FI
CULG	19	0540	0551	0654	N11	E45	.702	17853	22.6	74	1B		C	0551	270	3.7	FI
PURP	19	0546	0552	0609	N08	E46	.714	17853	22.7	23	2B		C	0552	428	6.2	
LEAR	19	0547	0552	0618	N08	E47	.726	17853	22.8	31	1B	3	C		295		F
PEKG	19	0550	0555	0605	N08	E46	.714	17853	22.7	15	1N		P	0555	185	2.7	F
857 ABST	19	0652E	0654	0655D	N20	W36	.604	17842	16.6	3D	-N		P	0654	87	1.1	D
858 ABST	19	0652E	0653	0655D	S06	E50	.784	17856	23.0	3D	-F		P	0653	87	1.4	D
GRP97859	19	0659+1	0700+0	0706	N09	E36	.583	17853	22.0	7	-F				80	1.0	EH
CULG	19	0659	0700	0703	N12	E35	.571	17853	21.9	4	-N		C	0700	90	1.1	
LEAR	19	0700	0700	0705	N09	E41	.651	17853	22.4	5	-F	3	C		55		
CATA	19	0700	0700	0710	N10	E36	.583	17853	22.0	10	-F		C	0700	84	1.1	H
PURP	19	0702E	0702	0706	N09	E37	.597	17853	22.1	4D	1N		C	0702	182	2.3	E
860 CATA	19	0825	0830	0835	N15	W45	.704	17842	16.0	10	-F		C	0830	56	.8	
861 CATA	19	0855	0900	0900D	N10	E35	.569	17853	22.0	5D	-F		P	0900	56	.7	H
862 CATA	19	1145	1145 IMP.1 NO : LVOV	1145D	S16	W70	.956	17839	14.2		?F		P	1145	169		
863 HOLL	19	1440	1441	1446	N10	E44	.689	17853	22.9	6	-F	3	C		65		
GRP97864	19	1744+2	1746+0 1753+1	1811D	N09	E37	.597	17853	22.5	27	-B						K
HOLL	19	1744	1754	1850	N09	E37	.597	17853	22.5	66	-B	3	C		161		FEK
HOLL	19	1744	1746	1850	N09	E37	.597	17853	22.5	66	-N	3	C		153		K
BIGB	19	1746	1746	1751	N10	E34	.555	17853	22.3	5	-B	3	C	1746	60	.7	
BIGB	19	1749	1753	1811	N09	E40	.638	17853	22.7	22	-N	3	C	1753	70	.9	
865 HOLL	19	1818	1821	1849	N14	W47	.727	17842	16.2	31	-N	3	C		63		F
866 HOLL	19	1852	1929	1935	N11	E35	.570	17853	22.4	43	-F	3	C		20		H
867 HOLL	19	2028	2031 IMP.1 NO : BIGB	2042	S20	W65	.936	17839	15.0	14	?F	3	C		85		
GRP97868	19	2106+0	2107+1	2128	N10	E35	.569	17853	22.5	22	-N				90	1.1	
HOLL	19	2106	2107	2128	N10	E35	.569	17853	22.5	22	-N	3	C		110		
BIGB	19	2106	2108	2128	N10	E35	.569	17853	22.5	22	-N	3	C	2108	80	1.0	
GRP97869	19	2247+1	2247+2	2256	N11	E39	.625	17853	22.9	9	-N						E
CULG	19	2247	2247	2256	N12	E39	.626	17853	22.9	9	-F		C	2247	20	.2	
VORO	19	2248	2249	2301	N10	E40	.638	17853	22.9	13	-B		C	2249	90	1.2	E
HOLL	19	2248	2249	2255	N11	E33	.542	17853	22.4	7	-N	3	C		39		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP97870	19	2341+2	2350+2 2359+2	0021	S05	W17	.356	17845	18.7	40	-B				180	1.9	JK
CULG	19	2341	2359	0020	S05	W17	.356	17845	18.7	39	1B		C	2359	220	2.4	F
BIGB	19	2343	2401	0028	S05	W16	.343	17845	18.8	45	-B	3	C	2401	140	1.5	
VORO	19	2343	2352	0022	S04	W18	.361	17845	18.6	39	-B		C	2352	134	1.5	EJK
HOLL	19	2343	2350	0022	S05	W17	.356	17845	18.7	39	-N	3	C		64		K
HOLL	19	2343		0022	S05	W17	.356	17845	18.7	39	1B	3	C		223		K
PALE	19	2356		0012	S06	W16	.353	17845	18.8	16	-F	3	C		140		
GRP97871	20	0003+5	0012+2	0024	S19	W62	.916	17839	15.4	21	-F				35	.8	
HOLL	20	0003	0014	0023	S17	W59	.892	17839	15.6	20	-F	3	C		32		
CULG	20	0008	0012	0024	S21	W65	.938	17839	15.1	16	-F		C	0012	40	1.1	
872 ABST	20	0558E	0602	0635	N20	W37	.617	17857	17.5	37D	-N		P	0602	131	1.6	EK
GRP97873	20	0620+1	0623+1	0626	N11	E35	.570	17853	22.9	6	-F						EJ
CULG	20	0620	0624	0627	N12	E35	.571	17853	22.9	7	-F		C	0624	20	.2	
ABST	20	0621	0623	0625	N11	E36	.584	17853	23.0	4	-N		C	0623	131	1.5	EJ
874 ABST	20	0628	0630	0700D	N08	E30	.496	17853	22.5	32D	-F		C	0630	131	1.5	DJ
875 ABST	20	0630	0637	0647	N20	W50	.767	17842	16.5	17	-F		C	0637	131	1.9	EJ
876 YUNN	20	0755	0803	0807	N19	W37	.614	17857	17.6	12	-N		P		16	.2	
GRP97877	20	0813+2	0817+2	0827	N09	E35	.569	17853	23.0	14	-B				120	1.5	E
PEKG	20	0813E	0817	0826	N09	E35	.569	17853	23.0	13D	-B		C	0817	139	1.7	E
PURP	20	0813E	0819	0828	N09	E37	.597	17853	23.1	15D	-B		C	0819	152	1.9	
YUNN	20	0815	0819	0821D	N10	E35	.569	17853	23.0	6D	-N		P		80	1.0	
878 CATA	20	0815	0815	0825	N13	W55	.813	17842	16.2	10	-F		C	0815	56	1.0	
	20	1400	1405	NO FLARE PATROL													
GRP97879	20	1639+0	1643+0	1707	N09	E24	.404	17853	22.5	28	-N						F
BIGB	20	1639	1643	1659	N09	E24	.404	17853	22.5	20	-N	3	C	1643	80	.9	
HOLL	20	1639	1643	1715D	N09	E24	.404	17853	22.5	36D	-N	3	C		195		F
880 HOLL	20	2048	2055	2119	S18	W42	.749	17847	17.7	31	-B	3	C		70		
881 HOLL	20	2048	2049	2104	N20	W45	.712	17857	17.5	16	-N	3	C		41		
GRP97882	20	2121	2131 2300	0004	S18	W42	.749	17847	17.7	163	-N						K
HOLL	20	2121	2131	0004	S18	W42	.749	17847	17.7	163	-N	3	C		20		K
HOLL	20	2121	2300	0004	S18	W42	.749	17847	17.7	163	-N	3	C		34		K
883 HOLL	20	2126	2130	2158	N20	W45	.712	17857	17.5	32	-F	3	C		40		
884 CULG	20	2256E	2259	2317	N13	E17	.305	17853	22.2	21D	-F		P	2259	60	.6	
885 LEAR	21	0117	0123	0135	N15	E32	.535	17855	23.5	18	-F	3	C		27		F
GRP97886	21	0142+0	0144+1	0156	N10	E21	.358	17853	22.6	14	-N				70	.8	E
PURP	21	0142	0145	0156	N10	E22	.374	17853	22.7	14	-N		C	0145	69	.8	E
LEAR	21	0142	0144	0213	N10	E20	.342	17853	22.6	31	-N	3	C		60		F
PEKG	21	0142	0145	0146	N11	E21	.360	17853	22.6	4	-N		C	0145	84	.9	E
GRP97887	21	0142+2	0145+2	0150	S18	W42	.748	17847	17.9	8	-F				30	.4	E
CULG	21	0142	0147	0152	S18	W42	.748	17847	17.9	10	-F		C	0147	20	.3	
PEKG	21	0144	0145	0147	S19	W43	.763	17847	17.8	3	-N		P	0145	42	.7	E
888 CULG	21	0243	0244U	0244D	N12	E14	.253	17853	22.2	1D	-F		P	0244	40	.4	
GRP97889	21	0355+1	0357+0	0402	S10	E24	.491	17856	23.0	7	-F				35	.4	F
CULG	21	0355	0357	0402D	S10	E25	.503	17856	23.0	7D	-N		P	0357	40	.4	F
LEAR	21	0356	0357	0402	S10	E24	.491	17856	23.0	6	-F	3	C		31		F

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GRP97890	21	0437+2	0439 0449+4	0500	N09	E19	.324	17853	22.6	23	-N						
ABST	21	0437	0439	0500	N08	E20	.339	17853	22.7	23	-N		C	0439	96	1.0	D
LEAR	21	0439	0449	0456	N09	E19	.324	17853	22.6	17	-F	3	C		50		F
PURP	21	0441E	0453	0510D	N10	E19	.326	17853	22.6	29D	-N		P	0453	117	1.3	
GRP97891	21	0539+2	0541+2	0552	N10	E18	.310	17853	22.6	13	-N				110	1.2	F
LEAR	21	0539	0541	0550	N10	E17	.293	17853	22.5	11	-N	3	C		65		F
PURP	21	0541	0543	0553	N10	E19	.326	17853	22.7	12	-B		C	0543	152	1.6	
GRP97892	21	0621>9	0646	0700	N22	W53	.800	17842	17.3	39	-N				70	1.2	D
ABST	21	0621	0646	0700	N24	W54	.812	17842	17.2	39	-N		C	0646	87	1.5	D
PURP	21	0650		0654D	N20	W52	.787	17842	17.4	4D	-F		V	0650	58	1.0	
893 KANZ	21	0906	0910	0922	N17	E51	.774	17858	25.2	16	-N	3					L
894 KANZ	21	1023	1027	1043	N21	E49	.758	17858	25.1	20	-F	3					G
GRP97895	21	1045+6	1050+6 1102+0	1126	N09	E11	.192	17853	22.3	41	-N				160	1.6	
CATA	21	1045	1050	1130	N09	E12	.208	17853	22.3	45	1F		C	1050	281	3.0	
KANZ	21	1047	1054	1145	N10	E12	.212	17853	22.3	58	-N	3					
WEND	21	1051	1056	1113D	N10	E12	.212	17853	22.4	22D	-N		C	1056	100	1.1	
ATHN	21	1059	1102	1121	N07	E09	.155	17853	22.1	22	-B	3	C		159		
ATHN	21	1059	1102	1121	N07	E09	.155	17853	22.1	22	-B	3	V	1102	159	1.7	
896 KANZ	21	1131	1131	1145	S09	W16	.385	17850	20.3	14	-F	2					
897 KANZ	21	1200	1207	1211	N19	W54	.806	17857	17.5	11	-F	3					
898 CULG	21	2121	2123	2135	N09	E08	.142	17853	22.5	14	-F		C	2123	20	.2	
GRP97899	21	2139+1	2207+4	2325	N22	E46	.728	17858	25.4	106	1N				210	3.1	FI
BIGB	21	2139	2207	2329	N20	E45	.713	17858	25.3	110	1N	3	C	2207	190	2.7	
CULG	21	2140	2211	2320	N25	E48	.757	17858	25.5	100	1N		C	2211	240	3.6	FI
900 CULG	21	2246	2252	2256D	N18	W58	.843	17857	17.6	10D	-F		P	2252	20	.3	
901 LEAR	22	0242	0259	0315	N10	E06	.115	17853	22.6	33	-F	3	C		52		
902 CULG	22	0253	0254	0324	N10	W08	.147	17854	21.5	31	-F		C	0254	20	.2	
903 ABST	22	0510	0512	0516	N08	E01	.024	17853	22.3	6	-F		C	0512	87	.9	D
904 ABST	22	0520	0528	0545	S11	E65	.922	17863	27.1	25	-F		C	0528	87		D
905 ABST	22	0542	0545	0555	N13	W46	.715	17844	18.8	13	-F		C	0545	87	1.2	DK
906 ABST	22	0629	0631	0644	N13	W46	.715	17844	18.8	15	-F		C	0631	87	1.2	DJ
907 ABST	22	0633	0637	0644	N19	W65	.900	17857	17.4	11	-F		C	0637	87	1.2	DJ
GRP97908	22	0834+6	0838+0 0845+1	0942	S11	E68	.940	17863	27.5	68	1N				150		U
MONT	22	0834	0845	0945	S10	E66	.927	17863	27.3	71	-N	*	C	0845	150		
ATHN	22	0837	0838	0939	S15	E70	.955	17863	27.6	62	1B	3	C		111		
ATHN	22	0837	0838	0939	S15	E70	.955	17863	27.6	62	1B	3	V	0838	111	3.7	
LEAR	22	0839E	0846	0937D	S10	E65	.920	17863	27.2	58D	1B	*	C		164		FE
CATA	22	0840	0855	0925D	S11	E67	.934	17863	27.4	45D	2F	*	P	0855	253		
UPIC	22	0904E		0950	S10	E69	.944	17863	27.6	46D	2N	*	P	0904	204	6.4	U
909 KHAR	22	1030E	1033	1052D	N09	W01	.038	17853	22.4	22D	-F		P	1033	100	1.0	E
910 KANZ	22	1331		1351	N18	E32	.545	17858	25.0	20	-F	2					
	22	1426	1504	NO FLARE PATROL													
911 BIGB	22	1755	1803	1821	S22	W13	.526	17859	21.8	26	-F	3	C	1803	60	.6	

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GRP97912	22	2224+1	2225+2	2304	S09	W34	.609	17850	20.4	40	-F			100	1.3	FK
BIGB	22	2224	2227	2313	S08	W34	.603	17850	20.4	49	-N	3 C	2227	90	1.1	
CULG	22	2225	2225	2254	S10	W34	.615	17850	20.4	29	-F	C	2225	110	1.4	FK
GRP97913	23	0014+4	0020+2	0025	N10	W03	.073	17853	22.8	11	-N			70	.7	D
CULG	23	0014	0020	0025	N10	W03	.073	17853	22.8	11	-N	C	0020	80	.8	
VORO	23	0018	0022	0024	N11	W04	.098	17853	22.7	6	-N	C	0022	72	.7	D
GRP97914	23	0314+3	0316+4	0328	N13	W04	.124	17853	22.8	14	-F					F
CULG	23	0314	0316U	0331	N14	W05	.148	17853	22.8	17	-N	P	0316	100	1.0	F
LEAR	23	0317	0320	0324	N13	W03	.116	17853	22.9	7	-F	3 C		21		
	23	0427	0434	NO FLARE PATROL												
915 ABST	23	0457E	0500	0520	S25	W22	.623	17859	21.6	23D	-N	P	0500	87	1.1	DJ
916 ABST	23	0515	0518	0530	S14	E89	1.000	17864	29.9	15	?N	C	0518	87		AD
			IMP.1 NO : LEAR													
GRP97917	23	0515+3	0520+4	0540	N08	W05	.088	17853	22.8	25	-F					DJK
ABST	23	0515	0520	0545	N08	W05	.088	17853	22.8	30	-N	* C	0520	87	.9	DJK
LEAR	23	0518	0524	0535	N09	W06	.109	17853	22.8	17	-F	* C		26		
GRP97918	23	0551+1	0559+3	0626	N09	W07	.125	17853	22.7	35	-N			120	1.2	J
			0619													
ABST	23	0551	0559	0624	N08	W05	.088	17853	22.9	33	-N	C	0559	87	1.3	EJ
LEAR	23	0552	0602	0626	N09	W06	.109	17853	22.8	34	-N	3 C		148		
MITK	23	0602E		0609D	N11	W07	.139	17853	22.7	7D	-N	P	0602			D
ABST	23	0615	0619	0635	N06	W15	.258	17853	22.1	20	-N	C	0619	131	1.3	E
CATA	23	0620E	0620	0625	N10	W07	.131	17853	22.7	5D	-F	P	0620	84	.9	T
GRP97919	23	0712+4	0716+2	0734	N11	W07	.139	17853	22.8	22	-B			130	1.3	EJ
ABST	23	0712	0716	0735	N08	W05	.088	17853	22.9	23	-N	C	0716	131	1.3	EJ
LEAR	23	0714	0717	0800	N10	W07	.131	17853	22.8	46	1B	3 C		200		FE
ATHN	23	0716	0718	0732	N12	W07	.148	17853	22.8	16	-B	3 V	0718	95	1.0	
ATHN	23	0716	0718	0732	N12	W07	.148	17853	22.8	16	-B	3 C		95		
CATA	23	0720E	0720	0735	N10	W07	.131	17853	22.8	15D	-F	P	0720	112	1.2	T
GRP97920	23	0816+4	0816+4	0830D	N10	W08	.147	17853	22.7	14	-F			80	.8	EH
KHAR	23	0816E	0816	0830D	N10	W08	.147	17853	22.7	14D	-F	P	0816	80	.8	EH
CATA	23	0820	0820	0825D	N10	W08	.147	17853	22.7	5D	-F	P	0820	84	.9	T
921 KANZ	23	1237	1241	1241D	N18	W82	.986	17857	17.4	4D	-N	2				
	23	1455	1458	NO FLARE PATROL												
922 BIGB	23	1613	1617	1702	N09	W13	.225	17853	22.7	49	-N	3 C	1617	80	.8	
923 BIGB	23	1800	1803	1827	S14	E78	.985	17864	29.6	27	-N	3 C	1803	50		
924 PALE	23	1909	1911	1918	N18	W88	.997	17842	17.2	9	-F	3 C				
925 LEAR	24	0212	0216	0248	N10	W18	.310	17853	22.7	36	-F	3 C		82		F
	24	0348	0403	NO FLARE PATROL												
926 ABST	24	0541E	0541	0550D	N11	W24	.407	17853	22.4	9D	-F	P	0541	131	1.4	E
927 ABST	24	0556	0558	0615	S09	E56	.849	17865	28.4	19	-F	C	0558	87	1.7	D
928 ABST	24	0642	0650	0703	N11	W24	.407	17853	22.5	21	-F	C	0650	131	1.4	D
929 KHAR	24	0803E		0827D	S20	W67	.946	17850	19.3	24D	-F	P	0814			D
930 KHAR	24	0818E		0822D	S18	W90	1.001	17847	17.6	4D	-F	V	0818			E
931 KHAR	24	0835E		0913D	S17	W90	1.001	17847	17.6	38D	-F	V	0855			E
932 KHAR	24	1002E		1010D	S17	W90	1.001	17847	17.7	8D	-F	V	1002			D
	24	1430	1508	NO FLARE PATROL												

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP97933	24	1849+3	1904+2	1925	N08	W22	.372	17853	23.1	36	-F			120	1.3	
BIGB	24	1849	1904	1925	N08	W22	.372	17853	23.1	36	-N	3 C	1904	90	1.0	
HOLL	24	1852	1906	1924	N09	W22	.373	17853	23.1	32	-F	3 C		149		
GRP97934	24	1938+1	1939+2	1953D	N10	W28	.467	17853	22.7	15	-N			50	.6	
HOLL	24	1938	1939	1953	N10	W28	.467	17853	22.7	15	-N	3 C		48		
BIGB	24	1939	1941	2023	N11	W29	.483	17853	22.6	44	-N	3 C	1941	60	.7	
GRP97935	24	2156+2	2208+6 2302	2323	N08	W29	.481	17853	22.7	87	-N			160	1.8	F
BIGB	24	2156	2214	2323	N07	W29	.481	17853	22.7	87	-B	3 C	2214	170	2.0	
HOLL	24	2158	2208	2327	N08	W31	.511	17853	22.6	89	-N	3 C		163		F
CULG	24	2300	2302	2306	N10	W28	.467	17853	22.9	6	-N	C	2302	50	.6	
936 CULG	24	2315	2322	2335	S09	E41	.693	17865	28.0	20	-F	C	2322	30	.4	
937 CULG	25	0025	0038	0105	S06	E44	.717	17865	28.3	40	-F	C	0038	60	.8	J
938 CULG	25	0105	0114	0200	N09	W29	.481	17853	22.9	55	-F	C	0114	30	.3	KJ
939 CULG	25	0139	0148	0222	N21	E26	.482	17861	27.0	43	?F	C	0148	280	3.1	
			IMP.1	NO : LEAR	PURP	PALE										
940 CULG	25	0243	0247	0305	N13	E14	.260	17867	26.2	22	-F	C	0247	30	.3	
941 CULG	25	0356	0403	0430	N21	E27	.495	17861	27.2	34	-F	C	0403	70	.8	
942 ABST	25	0544	0545	0550	N10	W34	.556	17853	22.7	6	-N	C	0545	87	1.0	DJV
943 CULG	25	0544	0547	0601	N13	E13	.244	17867	26.2	17	-F	C	0547	20	.2	
944 ABST	25	0550	0552	0612	S08	E27	.512	17863	27.3	22	-N	C	0552	87	1.1	D
945 ABST	25	0550	0553	0604	S15	E56	.863	17864	29.4	14	-F	C	0553	87	1.8	D
946 ABST	25	0553	0558	0628	N14	W27	.461	17855	23.2	35	-F	C	0558	87	.9	DK
947 ABST	25	0554	0557	0603	N06	E79	.980	17866	1.2	9	?F	C	0557	131		E
			IMP.1	NO : CULG	PURP	LEAR										
948 ABST	25	0556	0558	0602	N10	W35	.570	17853	22.6	6	-N	C	0558	87	1.1	DKV
GRP97949	25	0713+2	0726 0740	0910	N15	W29	.493	17853	23.1	117	1N					E
KANZ	25	0713E	0726	0734D	N11	W28	.468	17853	23.2	21D	-N	1				
CATA	25	0715	0740	0900	N15	W29	.493	17853	23.1	105	1F	C	0740	281	3.3	
YUNN	25	0724E		0741D	N15	W29	.493	17853	23.1	17D	1N	P	0741	193	2.3	E
YUNN	25	0840E	0853	0919D	N15	W30	.507	17853	23.1	39D	-N	P	0853	161	1.9	E
950 KHAR	25	1048E	1052	1058D	S17	E52	.836	17864	29.3	10D	-F	P				
GRP97951	25	1730+0	1731+1 1759	1806	S05	W29	.520	17856	23.6	36	-F			60	.7	F
BIGB	25	1730	1732	1809	S06	W28	.512	17856	23.6	39	-F	3 C	1732	80	.9	
HOLL	25	1730	1731	1746	S04	W32	.556	17856	23.3	16	-F	3 C		37		F
HOLL	25	1758	1759	1803	S04	W28	.500	17856	23.6	5	-F	3 C		24		F
952 CULG	25	2314	2316	2326D	N09	E66	.909	17866	30.9	12D	-F	P	2316	40		
953 CULG	26	0110E	0131	0226D	S16	E37	.685	17864	28.8	76D	-N	P	0131	130	1.7	FW
954 CULG	26	0110E	0118	0138	S09	W16	.383	17862	24.8	28D	-N	P	0118	70	.8	
GRP97955	26	0338+2	0341+0	0347	N11	W56	.823	17853	22.0	9	-F			50	.9	DG
PURP	26	0338	0341	0348	N11	W63	.885	17853	21.4	10	-N	C	0341	62	1.4	DG
LEAR	26	0340	0341	0345	N11	W50	.760	17853	22.4	5	-F	3 C		36		
956 ABST	26	0536	0540	0600	S07	E26	.492	17865	28.2	24	-F	C	0540	131	1.5	DJ
957 ABST	26	0538	0540	0600	N06	E25	.420	17870	28.1	22	-F	C	0540	87	.9	DJ

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
958 UPIC	26	1330	1331	1336	N07	E19	.323	17870	28.0	6	-F		P	1331	61	.7	
959 BIGB	26	1709	1711	1724	S10	E18	.417	17865	28.1	15	-F	3	C	1711	70	.8	
GRP97960	26	1802+1	1804+2	1812	S07	E19	.399	17865	28.2	10	-F				45	.5	
BIGB	26	1802	1804	1813	S08	E18	.396	17865	28.1	11	-F	3	C	1804	60	.7	
HOLL	26	1803	1806	1810	S07	E20	.412	17865	28.3	7	-N	3	C		28		
GRP97961	26	1849+0	1850+0	1904	S09	W46	.749	17856	23.3	15	-N				60	.9	F
BIGB	26	1849	1850	1906	S09	W46	.749	17856	23.3	17	-N	3	C	1850	60	.9	
HOLL	26	1849	1850	1901	S09	W46	.749	17856	23.3	12	-N	3	C		57		F
962 BIGB	26	2128	2129	2150	N10	W56	.823	17853	22.7	22	-N	3	C	2129	40	.7	
GRP97963	26	2136+6	2149+1	2203	S06	W33	.579	17862	24.4	27	-N				70	.9	K
CULG	26	2136E	2149	2202D	S06	W33	.579	17862	24.4	26D	-B		P	2149	60	.7	K
BIGB	26	2142	2150	2203	S06	W33	.579	17862	24.4	21	-N	3	C	2150	80	1.0	
GRP97964	26	2258+5	2301+5	2318	S06	W34	.592	17862	24.4	20	-N						FJ
CULG	26	2233	2301	2330	S06	W34	.592	17862	24.4	57	-N		C	2301	80	1.0	JT
BIGB	26	2258	2303	2323	S06	W34	.592	17862	24.4	25	-N	3	C	2303	80	1.0	
HOLL	26	2259	2306	2312	S06	W34	.592	17862	24.4	13	-N	3	C		23		
LEAR	26	2303	2305	2310	S06	W33	.579	17862	24.5	7	-F	3	C		30		F
GRP97965	26	2358+5	0011+2	0031	S06	W34	.592	17862	24.4	33	-F				60	.7	J
HOLL	27	0003	0013	0025	S07	W35	.610	17862	24.4	22	-F	3	C		40		
CULG	26	2358	2411	0036D	S06	W34	.592	17862	24.4	38D	-N		P	2411	80	1.0	J
966 CULG	27	0008	0024U	0036D	S14	E16	.442	17864	28.2	28D	-F		P	0024	50	.6	
967 PURP	27	0038E	0045	0059	N09	E15	.259	17870	28.2	21D	?N		P	0045	221	2.3	E
IMP.1 NO : LEAR PALE CULG MITK																	
GRP97968	27	0115+6	0125+7	0139	S08	W30	.551	17862	24.8	24	-N				90	1.1	
CULG	27	0115	0127	0210	S08	W30	.551	17862	24.8	55	-B		C	0127	90	1.1	F
PURP	27	0121	0132	0139	S08	W30	.551	17862	24.8	18	-N		C	0132	145	1.8	
YUNN	27	0123E	0125	0135	S07	W31	.558	17862	24.7	12D	-N		P		64	.8	E
969 LEAR	27	0130	0131	0139	N10	W58	.842	17853	22.7	9	-F	3	C		15		
GRP97970	27	0242+7	0253+2	0312	N15	W03	.150	17861	26.9	30	-N						
CULG	27	0242	0255	0318	N16	W03	.166	17861	26.9	36	-B		C	0255	110	1.1	
YUNN	27	0249	0253	0305	N15	W04	.156	17861	26.8	16	-F		C		32	.3	
971 LEAR	27	0313	0313	0323	S17	E28	.596	17864	29.2	10	-F	3	C		37		
972 CULG	27	0355U	0406	0410D	S04	E46	.734	17871	30.6	15D	-F		P	0406	70	1.0	
973 ABST	27	0419	0435	0550	S10	W33	.601	17862	24.7	91	-N		C	0435	87	1.1	EJK
974 CULG	27	0426	0434	0439D	N07	E49	.750	17866	30.9	13D	-F		P	0434	20	.3	
GRP97975	27	0430+3	0439+1	0510	S13	E32	.609	17864	29.6	40	-N				80	1.0	DJ
CULG	27	0430	0439U	0458D	S13	E32	.609	17864	29.6	28D	-N		P	0439	80	1.0	
ABST	27	0433	0440	0510	S14	E33	.627	17864	29.7	37	-N		C	0440	87	1.2	DJ
976 CULG	27	0454E	0456	0512D	N15	W11	.233	17867	26.4	18D	-F		P	0456	40	.4	
GRP97977	27	0624+5	0628+4	0642	N09	E44	.690	17866	30.6	18	-F						D
CULG	27	0624	0628	0640	N10	E44	.690	17866	30.6	16	-F		C	0628	30	.4	
ABST	27	0629	0632	0644	N08	E44	.690	17866	30.6	15	-N		C	0632	87	1.2	D
978 ABST	27	0628	0632	0648	N08	E10	.173	17870	28.0	20	?F		C	0632	262	2.8	EJ
IMP.1 NO : MITK PURP CULG CATA																	
979 KHAR	27	0819E	0819	0828D	S17	W33	.649		24.9	9D	-F		V	0819			L
980 KHAR	27	0946E		1008D	N13	W90	1.000	17854	20.7	22D	-F		V	0950			D
981 KHAR	27	1017E	1017	1034D	S19	E80	.992	17869	3.4	17D	-F		P				D

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982	HOLL	27	1559	1605	1620	S12	E22	.483	17864	29.3	21	-F	3	C		64		
983	RAMY	27	1639	1648	1717	N08	E04	.072	17870	28.0	38	-F	3	C		111		
GRP97984		27	1708+1	1712+1	1730	S16	E06	.401	17864	28.2	22	-F				20	.2	
	RAMY	27	1708	1712	1725	S16	E07	.406	17864	28.2	17	-F	3	C		24		
	HOLL	27	1709	1713	1735	S16	E06	.401	17864	28.2	26	-F	3	C		21		
985	HOLL	27	1740	1742	1751	N03	E43	.682	17866	1.0	11	-F	3	C		21		
GRP97986		27	1831+5	1837+1	1910	S06	W39	.656	17862	24.8	39	-N				90	1.2	FU
	RAMY	27	1831	1837	1839D	S07	W39	.660	17862	24.8	8D	-B	3	C		114		U
	HOLL	27	1832	1837	1911	S06	W40	.668	17862	24.8	39	-B	3	C		106		F
	BIGB	27	1832	1838	1910	S06	W40	.668	17862	24.8	38	-B	3	C	1838	100	1.3	
	PALE	27	1836	1837	1854	S08	W39	.664	17862	24.8	18	-F	3	C		46		F
987	HOLL	27	1915	1917	1935	N04	E42	.668	17866	1.0	20	-F	3	C		42		
GRP97988		27	2030+2	2036+2	2053	N15	E62	.877	17868	2.5	23	1N				100	2.2	
	CULG	27	2030E	2036U	2058	N16	E61	.868	17868	2.4	28D	1N	*	P	2036	110	2.2	
	HOLL	27	2031	2037	2053	N15	E62	.877	17868	2.5	22	-N	*	C		111		
	BIGB	27	2032	2038	2053	N15	E62	.877	17868	2.5	21	-N	*	C	2038	70	1.5	
GRP97989		27	2030>9	2112 2309+0	2347	N08	00	.019	17870	27.9	197	-F				70	.7	JK
	CULG	27	2030E	2112U	0041D	N10	E02	.064	17870	28.0	251D	-N		P	2112	160	1.6	TKJ
	HOLL	27	2307	2309	2347	N08	W01	.026	17870	27.9	40	-F	3	C		65		
	LEAR	27	2309E	2309	2331	N07	E00	.002	17870	28.0	22D	-F	3	C		74		
990	CULG	27	2152	2158U	2211U	N04	E44	.693	17866	1.2	19D	-N		P	2158	40	.6	
GRP97991		27	2244+6	2254+1	2313	S15	E03	.376	17864	28.2	29	-N				60	.6	FK
	CULG	27	2244	2254	2330	S15	E02	.374	17864	28.1	46	-N		C	2254	70	.8	K
	HOLL	27	2249	2255	2310	S15	E03	.376	17864	28.2	21	-N	3	C		54		F
	BIGB	27	2249	2254	2318	S16	E04	.395	17864	28.3	29	-N	3	C	2254	70	.7	
	VORO	27	2250	2254	2310	S14	E03	.360	17864	28.2	20	-N		C	2254	45	.5	F
	LEAR	27	2301E	2301U	2310	S16	E04	.395	17864	28.3	9D	-F	3	C		21		
992	CULG	27	2339	2349U	0015	N05	E40	.640	17866	1.0	36	-N		P	2349	50	.7	
993	CULG	28	0052E	0056	0110	N08	W03	.056	17870	27.8	18D	-N		P	0056	120	1.2	J
GRP97994		28	0140E	0148+3	0203	N08	W02	.040	17870	27.9	23	-F				100	1.0	J
	YUNN	28	0140D	0151	0156	N08	W01	.026	17870	28.0	16D	-F		P		80	.8	
	CULG	28	0145U	0148	0210	N08	W03	.056	17870	27.8	25D	-N		P	0148	120	1.2	J
995	CULG	28	0219	0258	0350	S09	W20	.430	17863	26.6	91	-F		C	0258	60	.7	
996	CULG	28	0314	0320	0335	S07	E32	.571	17871	30.5	21	-N		C	0320	40	.5	
997	CULG	28	0403	0418	0440	N07	E36	.584	17866	30.9	37	-F		C	0418	30	.4	
GRP97998		28	0438>9	0521+3	0532	N08	W04	.072	17870	27.9	54	-N				130	1.3	FJK
	ABST	28	0438	0524	0530	N08	W04	.072	17870	27.9	52	-N		C	0524	131	1.3	FJK
	CULG	28	0516	0521	0534	N08	W04	.072	17870	27.9	18	-N		C	0521	140	1.4	JT
GRP97999		28	0515+3	0519+1	0525	N07	E37	.598	17866	1.0	10	-N						J
	CULG	28	0515	0519	0531	N08	E37	.598	17866	1.0	16	-N		C	0519	60	.7	
	LEAR	28	0517	0519	0525	N05	E37	.600	17866	1.0	8	-F	3	C		30		F
	ABST	28	0518	0520	0525	N07	E36	.584	17866	30.9	7	-N		C	0520	131	1.7	EJ
0	ABST	28	0534	0536	0555	S14	E16	.442	17864	29.4	21	-F		C	0536	87	.9	DJ
1	ABST	28	0548	0550 IMP.1 NO : LEAR CULG	0555	N13	W77	.970	17853	22.5	7	?F		C	0550	87		D
2	ABST	28	0550	0553	0558	N08	W04	.072	17870	27.9	8	-N		C	0553	131	1.3	EJ
GRP98003		28	0603+9	0615+2	0642	S06	W01	.223	17865	28.2	39	-F				45	.5	
	CULG	28	0603	0615	0640	S06	W01	.223	17865	28.2	37	-F		C	0615	50	.5	
	LEAR	28	0612	0617	0643	S07	W01	.240	17865	28.2	31	-F	3	C		39		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
4 CULG	28	0624	0628	0636	N17	E55	.815	17868	2.4	12	-F		C	0628	40	.7	
5 KHAR	28	0820E		0848D	N23	W90	.999		21.6	28D	-F		V	0825			
6 KHAR	28	0836E		0845D	S19	E80	.992	17873	4.4	9D	-F		V	0836			EH
7 KHAR	28	0845E	0849	0855D	S07	W48	.764	17862	24.8	10D	-F		P	0849	30	.5	E
GRP98008	28	0855E	0855+5	0906	N15	W28	.479	17867	26.3	11	-F				110	1.3	
KHAR	28	0855E	0855	0902D	N14	W28	.476	17867	26.3	7D	-F		P	0855	40	.5	D
CATA	28	0855E	0900	0905D	N15	W27	.465	17867	26.3	10D	-F		P	0900	112	1.3	
YUNN	28	0859E	0900	0906	N16	W28	.483	17867	26.3	7D	-F		P		129	1.5	E
9 KHAR	28	0950E	0950	1007D	S14	E15	.433	17864	29.5	17D	-F		P	0950	40	.4	
10 KHAR	28	1037E	1043	1045D	S17	W51	.827		24.6	8D	-F		P	1043	50	.8	E
GRP98011	28	1210E	1213+0	1230	S09	W43	.716	17862	25.3	20	1B				190	2.7	
ATHN	28	1210E	1213	1230	S09	W43	.716	17862	25.3	20D	1B	4	V	1213	191	2.8	
ATHN	28	1210E	1213U	1230	S09	W43	.716	17862	25.3	20D	1B	4	C		190		
	28	1447	1452	NO FLARE PATROL													
GRP98012	28	1750+0	1751+1	1759	N08	W11	.190	17870	27.9	9	-F				60	.6	
HOLL	28	1750	1752	1758	N08	W11	.190	17870	27.9	8	-N	3	C		52		
BIGB	28	1750	1751	1759	N08	W11	.190	17870	27.9	9	-F	3	C	1751	70	.7	
GRP98013	28	1903+2	1906+0	1914	N04	E27	.454	17866	30.8	11	-N				80	.9	F
BIGB	28	1903	1906	1916	N04	E28	.470	17866	30.9	13	-N	3	C	1906	80	.9	
HOLL	28	1905	1906	1912	N04	E27	.454	17866	30.8	7	-N	3	C		76		F
14 HOLL	28	1917	1918	1929	N08	W12	.207	17870	27.9	12	-F	3	C		33		
GRP98015	28	2005+0	2007+0	2028	N07	W12	.206	17870	27.9	23	-N				50	.5	
BIGB	28	2005	2007	2037	N07	W12	.206	17870	27.9	32	-N	3	C	2007	60	.6	
HOLL	28	2005	2007	2018	N08	W13	.224	17870	27.9	13	-N	3	C		51		
GRP98016	28	2050>9	2129+1	2146	N08	W14	.241	17870	27.8	56	-N				60	.6	J
CULG	28	2050	2129	2146	N09	W14	.242	17870	27.8	56	-B		C	2129	60	.6	DJ
HOLL	28	2121	2130	2138	N08	W13	.224	17870	27.9	17	-N	3	C		40		F
BIGB	28	2127	2130	2151	N08	W14	.241	17870	27.8	24	-N	3	C	2130	70		
17 HOLL	28	2159	2206	2227	N08	W14	.241	17870	27.9	28	-N	3	C		47		F
GRP98018	28	2314+2	2327+2 2354+6	0041	N08	W14	.241	17870	27.9	87	-N						JK
HOLL	28	2314	2355	0013D	N08	W14	.241	17870	27.9	59D	-B	3	C		94		FEK
HOLL	28	2314	2327	0013D	N08	W14	.241	17870	27.9	59D	-N	3	C		52		K
CULG	28	2316	2400	0046	N08	W15	.257	17870	27.8	90	-B		C	2400	170	1.8	EKJT
LEAR	28	2327E	2359U	0041	N08	W13	.224	17870	28.0	74D	-N	3	C		133		FK
LEAR	28	2327E	2329	0041	N08	W13	.224	17870	28.0	74D	-F	3	C		32		K
PALE	28	2354	2357	0018	N08	W14	.241	17870	27.9	24	-F	3	C		42		FE
MANI	28	2354E	2354U	0005D	N08	W15	.257	17870	27.9	11D	-N	3	C		60		
MANI	28	2354E	2354U	0005D	N08	W15	.257	17870	27.9	11D	-N	1	V		60	.6	
19 CULG	29	0047	0054	0102D	S15	W01	.372	17864	29.0	15D	-N		P	0054	70	.7	
20 CULG	29	0109E	0122	0152	N08	W16	.274	17870	27.8	43D	-N		P	0122	80	.9	D
21 CULG	29	0208	0232	0310	S08	W16	.371	17865	27.9	62	-F		C	0232	60	.7	KJ
22 CULG	29	0224	0228	0238	S15	W01	.372	17864	29.0	14	-F		C	0228	40	.4	
23 ABST	29	0430	0436	0440	N15	E42	.669	17868	2.3	10	-F		C	0436	87	1.1	D
24 ABST	29	0433	0434	0438	N08	W17	.291	17870	27.9	5	-F		C	0434	87	.9	DJK
GRP98025	29	0522>9	0536+1	0611	N08	W17	.291	17870	27.9	49	-N				150	1.6	EJ
CULG	29	0522	0537	0611	N08	W18	.307	17870	27.9	49	-B		C	0537	60	.7	EJT
ABST	29	0527	0537	0543	N09	W16	.276	17870	28.0	16	-F		C	0537	174	1.9	EJ
LEAR	29	0533	0536	0623	N08	W17	.291	17870	28.0	50	-N	3	C		151		F

H - ALPHA S O L A R F L A R E S

SEPTEMBER 1981

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
26 ABST	29	0552	0652	0655	N08	E36	.584	17868	1.9	63	-N		C	0652	131	1.6	DV
27 ABST	29	0629	0630	0640	N15	E42	.669	17868	2.4	11	-N		C	0630	131	1.8	EJ
GRP98028	29	0649+3	0653+6	0703	N17	E36	.596	17880	2.0	14	-F						DJ
CULG	29	0649	0653	0704	N17	E36	.596	17880	2.0	15	-F		C	0653	20	.3	
ABST	29	0652	0659	0701	N17	E36	.596	17880	2.0	9	-N		C	0659	87	1.0	DJ
GRP98029	29	0718+7	0728+5	0740	N08	W18	.307	17870	28.0	22	-N				90	.9	
LEAR	29	0718	0728	0753	N07	W18	.307	17870	28.0	35	-F	3	C		113		F
ISTA	29	0725	0730	0740	N08	W19	.324	17870	27.9	15	1B						
YUNN	29	0732E	0733	0737	N08	W18	.307	17870	28.0	5D	-N		P		80	.9	D
GRP98030	29	0732+2	0742+3	0752	S07	W60	.878	17862	24.8	20	-F				70	1.4	
LEAR	29	0732	0742	0754	S07	W59	.870	17862	24.9	22	-F	3	C		60		F
YUNN	29	0734	0745	0749	S07	W61	.886	17862	24.7	15	-N		C		80	1.7	E
GRP98031	29	1438	1439+2	1508	S06	W22	.429	17865	28.0	30	-F				35	.4	
RAMY	29	1438	1441	1512	S06	W22	.429	17865	28.0	34	-N	3	C		51		
HOLL	29	1439E	1439U	1504	S06	W22	.429	17865	28.0	25D	-F	3	C		22		
	29	1440	1449	NO FLARE PATROL													
32 RAMY	29	1445	1446	1458	S16	W17	.475	17864	28.3	13	*-N	3	C		50		
GRP98033	29	1452+2	1456+0	1613	N08	W22	.372	17870	28.0	81	-N				130	1.4	F
RAMY	29	1452	1456	1602	N08	W23	.388	17870	27.9	70	-B	3	C		147		
HOLL	29	1454	1456	1623	N08	W22	.372	17870	28.0	89	-N	3	C		107		F
34 HOLL	29	1458	1459	1502	S15	W06	.385	17864	29.2	4	-F	3	C		46		H
35 HOLL	29	1641	1643	1651	N09	W23	.389	17870	28.0	10	-N	3	C		48		
36 HOLL	29	1745	1749	1818	N08	W24	.404	17870	27.9	33	-N	3	C		73		F
37 HOLL	29	1836	1838	1849	N09	E15	.259	17866	30.9	13	-F	3	C		35		
38 HOLL	29	1935	1937	1957	S14	W09	.385	17864	29.1	22	-B	3	C		83		F
39 HOLL	29	1946	1952	2006	N08	W25	.420	17870	27.9	20	-F	3	C		42		
GRP98040	29	2012	2015+0	2028	S08	E09	.298	17871	30.5	16	-B						F
HOLL	29	2012	2015	2028	S08	E09	.298	17871	30.5	16	-B	3	C		106		F
PALE	29	2014E	2015U	2016D	S08	E09	.298	17871	30.5	2D	-B	1	C				F
41 HOLL	29	2143	2143	2159	N12	E30	.500	17868	2.2	16	-F	3	C		63		F
42 CULG	29	2228	2234	2245	S16	E36	.673	17869	2.6	17	-F		C	2234	20	.3	
GRP98043	30	0008+1	0009+3	0022	S17	E58	.883	17873	4.4	14	-F						F
CULG	30	0008	0012	0030	S17	E58	.883	17873	4.4	22	-F		C	0012	80	1.8	
LEAR	30	0009	0009	0014	S18	E58	.886	17873	4.4	5	-F	3	C		25		F
44 CULG	30	0028	0036	0040D	S03	E09	.230	17871	30.7	12D	-F		P	0036	50	.5	
GRP98045	30	0041	0045+3 0055	0145	S14	W12	.406	17864	29.1	64	1B				250	2.7	EJU
LEAR	30	0041	0048	0205	S16	W12	.433	17864	29.1	84	1B	3	C		316		UF
CULG	30	0045E	0045U	0140	S13	W12	.392	17864	29.1	55D	1B		P	0045	210	2.3	E
MITK	30	0048E		0103D	S16	W12	.433	17864	29.1	15D	1N		P	0056	240	2.8	E
VORO	30	0048E		0149D	S14	W13	.416	17864	29.1	61D	1B		P	0048	206	2.3	EJ
PURP	30	0052E	0055	0123	S14	W14	.422	17864	29.0	31D	1F		C	0055	207	2.4	
YUNN	30	0121E	0133	0145	S13	W13	.401	17864	29.1	24D	1F		P	0133	193	2.2	E
GRP98046	30	0208+0	0212+1	0232	N08	W28	.466	17870	28.0	24	-F				70	.8	FJ
CULG	30	0208	0212	0243	N09	W28	.467	17870	28.0	35	-N		C	0212	70	.9	J
LEAR	30	0208	0213	0221	N08	W28	.466	17870	28.0	13	-F	3	C		79		F
47 CULG	30	0213	0223	0244	N06	E07	.122	17866	30.6	31	-N		C	0223	50	.5	
48 CULG	30	0251	0255	0303	S15	W12	.420	17864	29.2	12	-B		C	0255	50	.6	

H - ALPHA S O L A R F L A R E S

SEPTEMBER 1981

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
49 CULG	30	0332	0343	0405	N17	E29	.502	17868	2.3	33	-N	C	0343	70	.8	J
50 CULG	30	0352	0354	0356	S15	W13	.427	17864	29.2	4	-N	C	0354	40	.4	D
GRP98051	30	0355>9	0400 0417	0428	S05	E02	.207	17871	30.3	33	-F					EJ
CULG	30	0355	0400	0433	S05	E03	.210	17871	30.4	38	-N	C	0400	90	.9	J
ABST	30	0412	0417	0422	S05	E02	.207	17871	30.3	10	-F	C	0417	131	1.3	EJ
52 ABST	30	0413	0418	0425	N16	E27	.469	17868	2.2	12	-F	C	0418	87	1.0	DJK
53 ABST	30	0414	0417	0428	N08	W32	.526	17870	27.8	14	-F	C	0417	131	1.5	EJ
54 CULG	30	0511	0515	0527	S17	E54	.852	17873	4.3	16	-F	C	0515	30	.6	
GRP98055	30	0512+2	0520+3	0546	S05	W70	.945	17862	25.0	34	1F			100		EJK
CULG	30	0512	0520	0546	S05	W66	.920	17862	25.3	34	-N	C	0520	70		
ABST	30	0514	0523	0545	S06	W75	.970	17862	24.6	31	1F	C	0523	131		EJK
GRP98056	30	0521+3	0525+1	0551	N08	W31	.511	17870	27.9	30	-N			100	1.2	FJK
CULG	30	0521	0525	0556	N09	W30	.497	17870	28.0	35	-N	C	0525	80	1.0	JT
ABST	30	0524	0526	0545	N08	W32	.526	17870	27.8	21	-N	C	0526	131	1.5	FK
GRP98057	30	0523+3	0527+5	0547	N16	W55	.815	17867	26.1	24	-F					DK
CULG	30	0523	0527	0550	N15	W55	.814	17867	26.1	27	-F	C	0527	30	.5	
ABST	30	0526	0532	0544	N17	W56	.825	17867	26.0	18	-N	C	0532	87	1.3	DK
58 CULG	30	0621	0641	0700	N17	E28	.488	17868	2.4	39	-F	C	0641	60	.7	E
59 KHAR	30	0803E		0850D	S03	W90	1.000	17856	23.6	47D	-F	V	0806			E
GRP98060	30	0840+7	0848+2 0904	0947	N14	E27	.462	17868	2.4	67	-N			40	.5	
LEAR	30	0840	0848	0902	N11	E25	.423	17868	2.2	22	-F 3	C		33		F
KHAR	30	0840E	0904	0940D	N12	E26	.441	17868	2.3	60D	-F	P	0939	150	1.8	E
ATHN	30	0847	0850	0953	N17	E29	.502	17868	2.5	66	-B 4	V	0850	48	.6	
ATHN	30	0847	0850	0953	N17	E29	.502	17868	2.5	66	-B 4	C		48		
61 KHAR	30	1059E		1105D	N18	W57	.835	17867	26.2	6D	-F	V	1100			
	30	1140	1215	NO FLARE PATROL												
	30	1544	1650	NO FLARE PATROL												
GRP98062	30	2204	2215+1	2231D	N10	E90	1.000	17889	7.7	27	-F					
HOLL	30	2204	2215	2216D	N10	E91	1.000	17889	7.7	12D	1F 3	C				
PALE	30	2210E	2216U	2231D	N11	E89	.999	17889	7.6	21D	-F 3	C				
GRP98063	30	2239+3	2243+7	2301	S07	W40	.672	17865	27.9	22	-N			80	1.1	E
CULG	30	2239	2243	2301	S07	W40	.672	17865	27.9	22	-N	C	2243	80	1.1	
HOLL	30	2240	2250	2326	S07	W40	.672	17865	27.9	46	-N 3	C		101		
PALE	30	2242	2245	2252	S07	W40	.672	17865	27.9	10	-F 3	C		36		E
64 CULG	30	2310	2315	2332	S07	W41	.684	17865	27.9	22	-F	C	2315	50	.7	
65 CULG	30	2346	2348	0011	N13	E37	.601	17876	3.8	25	-F	C	2348	30	.4	

D A I L Y F L A R E I N D I C E S
(Includes all Flares)

September 1981

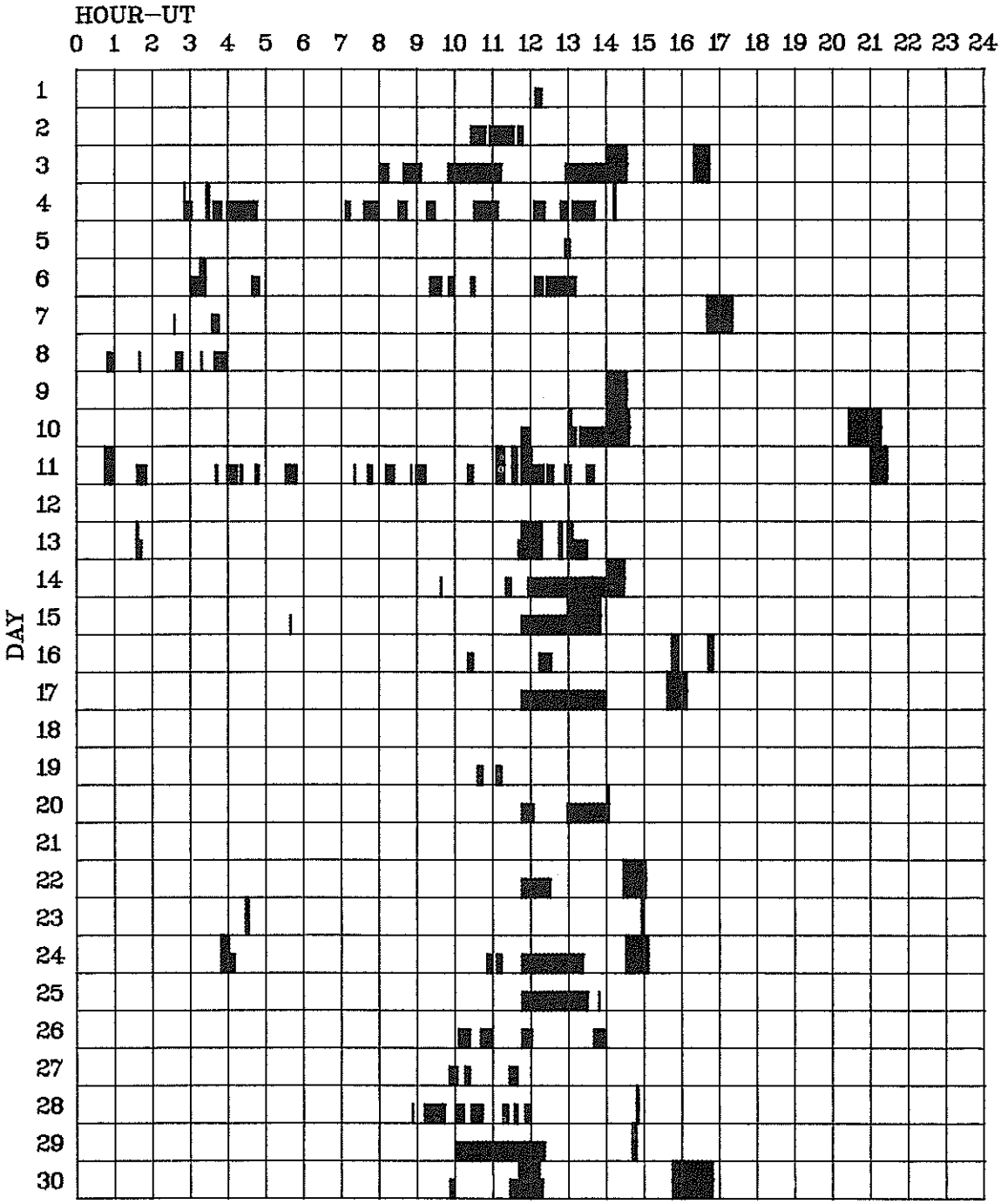
Day	Flare Index*	Hours Observed	Day	Flare Index*	Hours Observed	Day	Flare Index*	Hours Observed
01	151.52	23.8	11	280.30	22.6	21	81.55	24.0
02	120.76	24.0	12	162.03	24.0	22	50.51	23.4
03	129.36	23.0	13	348.02	23.1	23	44.23	23.8
04	28.71	23.7	14	23.22	23.5	24	45.44	23.1
05	126.72	24.0	15	323.97	23.1	25	55.31	24.0
06	100.91	23.8	16	71.04	23.6	26	40.44	24.0
07	133.95	23.2	17	97.27	23.4	27	74.89	24.0
08	188.22	24.0	18	106.77	24.0	28	108.95	23.9
09	241.56	23.4	19	116.59	24.0	29	110.85	23.8
10	237.85	22.4	20	43.71	23.9	30	102.85	22.3

*When no flare index is given, it is zero for that day.

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

SEPTEMBER 1981



Times of no flare patrol, shown here as shaded areas, combine reports from the observatories listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind, that is, of neither visual nor cinematographic; portions of a panel with only the bottom half shaded mark times of strictly visual patrol.

Abastumani	Culgoora	Kharkov	Monte Mario	Tashkent
Athens	Holloman	Learmonth	Palehua	Upice
Big Bear	Huancayo	Lvov	Peking	Voroshilov
Bucharest	Istanbul	Manila	Purple Mt.	Wendelstein
Catania	Kanzelhoehe	Mitaka	Ramey	Yunnan

C O N T E N T S

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NUMBER OF FLARES August 1966 - September 1981. 96

NUMBER OF SOLAR FLARES
(From the Grouped Flare Listings)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1966								391	558	432	417	543
1967	796	589	1009	694	771	629	907	911	573	946	775	1109
1968	1037	773	519	460	768	697	573	611	616	772	556	640
1969	581	504	669	655	839	694	489	551	540	643	566	422
1970	466	646	578	688	722	836	954	780	811	797	687	667
1971	598	505	387	546	461	430	713	673	518	375	431	394
1972	384	599	621	361	614	541	404	515	371	408	175	210
1973	221	171	410	453	388	270	232	182	353	201	136	163
1974	127	148	79	364	255	204	360	187	270	366	153	81
1975	68	82	69	19	42	85	196	346	68	38	127	25
1976	69	18	180	60	38	48	6	47	57	23	13	55
1977	54	77	18	76	64	210	140	140	250	252	107	336
1978	274	588	338	526	330	460	533	346	554	499	418	648
1979	926	781	731	731	907	772	750	821	901	1018	888	786
1980	703	689	621	1092	811	956	763	720	924	988	1027	838
1981	578	782	914	915	658	592	893	982	680			

This table was compiled by hand from SGD published tables. A more accurate table is being compiled from the digital data archive. We do not expect any substantial changes in these numbers, however.

*U. S. GOVERNMENT PRINTING OFFICE: 1984-0-776-019/10,002

WORLD DATA CENTER A
FOR
SOLAR-TERRESTRIAL PHYSICS

The ICSU Panel on WDCs has recommended that it would be appropriate courtesy to acknowledge in publications that data were obtained from the originating station or investigator through the intermediary of the WDCs. The following statement is suggested:

"Data used in this study were provided by WDC-A for Solar-Terrestrial Physics, NOAA E/GC2, 325 Broadway, Boulder Colorado 80303, USA."