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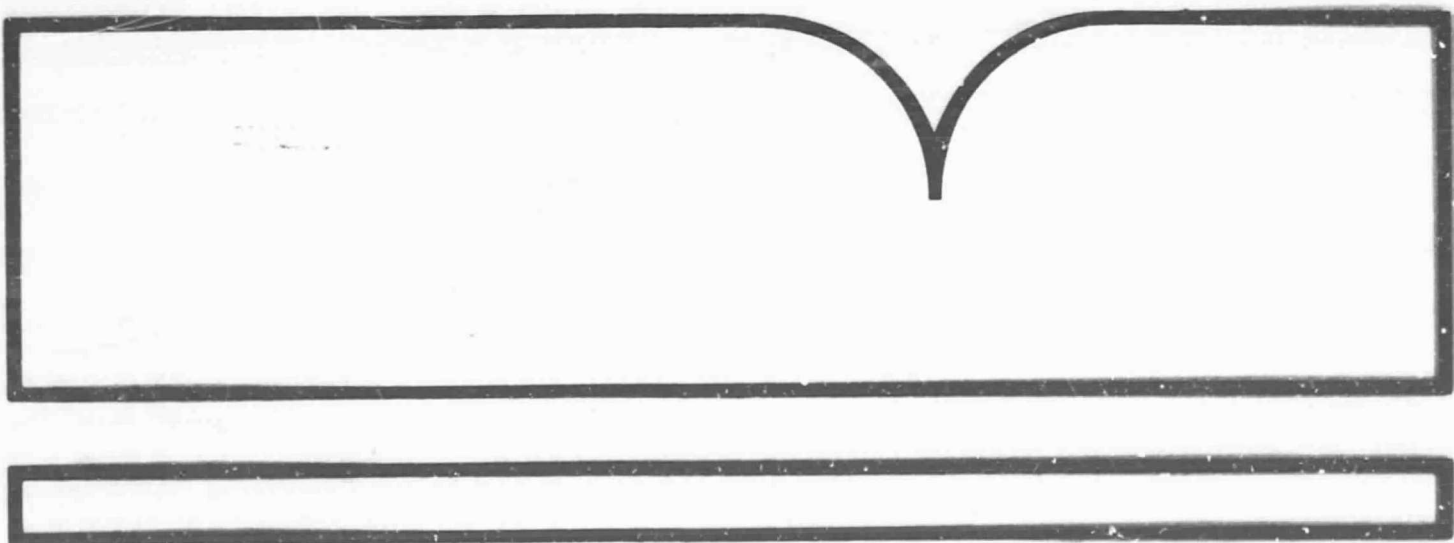
Solar-Geophysical Data Number 479, July 1984  
Part 2 (Comprehensive Reports), Data for  
January 1984 and August 1981 and Miscellanea

(U.S.) National Geophysical Data Center  
Boulder, CO

Prepared for

National Aeronautics and Space Administration  
Washington, DC

Jul 84



JULY 1984 NUMBER 479 -- Part II

LB85-115780

# Solar-Geophysical Data comprehensive reports



Data for January 1984, August 1981, & Miscellanea

Explanation of Data Reports Issued as Number 474 (Supplement) February 1984

**LATE DATA**

**Pages 85-95**

**LATE SOLAR FLARE DATA AUGUST 1981**

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REPRODUCED BY  
**NATIONAL TECHNICAL  
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NATIONAL OCEANIC AND  
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**Solar - Geophysical Data**

NO. 479 JULY 1984

**Part II (Comprehensive Reports)**

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

DATA FOR  
JANUARY 1984  
AUGUST 1981

International Standard Serial Number: 0038-0911

Library of Congress Catalog Number: 79-640375 //r81

For sale through the National Geophysical Data Center, NOAA/NESDIS, E/GC2, 325 Broadway, Boulder, Colorado 80303. Subscription Price: \$64.00 annually for both Part I (Prompt Reports) and Part II (Comprehensive Reports) or \$32.00 annually for either part. Annual supplement containing explanation is included. For foreign mailing add \$42.00 for both parts or \$21.00 for either part. We now require prepayment for all orders. Please include with your request a check or money order payable in U.S. currency to the Department of Commerce, NOAA/NGDC. Payment may be made, too, through an American Express card. UNESCO coupons acceptable.

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BIBLIOGRAPHIC INFORMATION

PB85-115780

Solar-Geophysical Data Number 479, July, 1984, Part 2  
(Comprehensive Reports), Data for January 1984 and August  
1981 and Miscellanea,

Jul 84

by H. E. Coffey.

PERFORMER: National Geophysical Data Center, Boulder, CO.  
SGD-479-PT-2  
Contracts W-15, W-519

SPONSOR: National Aeronautics and Space Administration,  
Washington, DC.

See also PB85-115772, and PB85-112076. Library of Congress  
catalog card no. 79-640375.

Contents: Detailed index for 1983/1984; Data for January  
1984--(Solar radio bursts at fixed frequencies, Solar X-ray  
radiation from GOES satellite, Mass ejections from the sun);  
Data for August 1981--Solar flares August 1981;  
Miscellaneous data--(Meudon carte synoptique, Solar X-ray  
radiation from GOES satellite).

KEYWORDS: \*Solar activity.

Available from the National Technical Information Service,  
SPRINGFIELD, VA. 22161

PRICE CODE: PC A05/MF A01

# S O L A R - G E O P H Y S I C A L   D A T A

NUMBER 479

(Issued in Two Parts)

Editor:  
Helen E. Coffey, Physicist

Joe H. Allen, Chief  
Solar-Terrestrial Physics Division

Staff:  
John A. McKinnon, Physicist  
Daniel C. Wilkinson, Physicist  
Viola W. Miller, Physical Science Technician  
Carol Weathers, Editorial Assistant  
Charles T. Shanks, Draftsman

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Published with partial support from NASA (W-15,519) and NSF (ATM-831491).

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\*Solar radio noise bursts observed at Athens, Learmonth, Manila, Palahua 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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SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

JANUARY 1984

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (2 Hz)		
02	500	HIRA	46 C	0428.3	0429.0	1.0	4.0	2.0		0
	3750	TYKW	20 GRF	0430.0	0500.0	120.0	2.0	1.0		
	2000	TYKW	20 GRF	0430.0	0500.0	120.0	2.0	1.0		
	245	LEAR	47 GB	0803.1	0803.1	.4	150.0			QL=6 ST=2 TYP=5
	410	LEAR	8 S	0803.1	0803.3	1.4	17.0			QL=6 ST=2 TYP=3
	430	KRAK	8 S	1116.5	1116.6	.2	17.0			
	430	KRAK	8 S	1305.8	1306.0	.5	9.0			
03	410	LEAR	8 S	0542.0	0542.1	.3	3.0			QL=6 ST=3 TYP=3
	245	LEAR	8 S	0542.0	0542.3	.5	13.0			QL=6 ST=2 TYP=3
	430	KRAK	42 SER	0824.5	0824.8	8.5	10.0			
	430	KRAK	8 S	0935.3	0935.4	.3	7.0			
	430	KRAK	8 S	0955.4	0955.4	.2	15.0			
	260	ONDR	8 S	1002.2	1002.3	.2	2.0			
	430	KRAK	42 SER	1117.5	1121.6	35.5	35.0			
	430	KRAK		1117.5	1128.2		24.0			
	430	KRAK		1117.5	1137.3		17.0			
	260	ONDR	8 S	1126.8	1126.8	.2	2.0			
	260	ONDR	42 SER	1140.0	1142.0	2.5	11.0			
	260	ONDR	40 F	1219.5	1221.0	2.5	13.0			
	430	KRAK	42 SER	1235.8	1243.2	22.0	17.0			
	430	KRAK		1235.8	1255.4		54.0			
	2800	OTTA	20 GRF	1710.0	1745.0	50.0	1.4	0.7		
245	PALE	8 S	1909.3	1909.3	.3	19.0			QL=6 ST=2 TYP=3	
2695	PENT	1 S	2013.5	2014.0	2.0	1.0	0.5			
04	810	KRAK	8 S	0829.6	0829.6	.2	4.0			
	430	KRAK	7 C	0834.6	0834.8	1.8	35.0	9.0		
	430	KRAK		0834.6	0835.6		18.0			
	430	KRAK	8 S	0842.2	0842.2	.2	12.0			
	810	KRAK	8 S	0851.6	0851.6	.2	4.0			
	430	KRAK	8 S	0958.7	0958.8	.2	7.0			
	260	ONDR	40 F	1053.0U		24.0U	4.0			
	430	KRAK	8 S	1056.4	1056.4	.2	12.0			
	430	KRAK	4 S/F	1114.6	1115.8	2.2	13.0	3.0		
	430	KRAK	40 F	1135.4	1137.2	6.5	8.0			
	430	KRAK	8 S	1225.0	1225.0	.2	42.0			
	430	KRAK	8 S	1257.8	1258.0	.6	9.0			
05	260	ONDR	44 NS	0910.0E		274.00	4.0			
	3750	TYKW	20 GRF	0455.0	0450.0	120.0	1.5	0.7		
06	2950	GORK	20 GRF	0911.4	0912.3	37.2	6.3			
	430	KRAK	42 SER	0922.6	0923.7	16.0	50.0			
	430	KRAK		0922.6	0937.8		26.0			
	245	LEAR	8 S	0948.1	0948.6	.7	18.0			QL=5 ST=2 TYP=3
	430	KRAK	42 SER	1040.5	1050.4	15.0	65.0			
	430	KRAK	2 S/F	1115.2	1115.8	1.5	14.0	5.0		
	260	ONDR	2 S/F	1122.2	1123.0	1.5	3.0	1.0		
	430	KRAK	1 S	1142.8	1143.0	1.0	6.0	2.0		
	2695	PENT	240 R	1518.0	1520.0	2.0	1.4	0.7		
	2695	PENT	1 S	2113.0	2113.3	2.0	2.4	0.8		
07	2695	PENT	1 S	2200.0	2200.3	1.0	2.4	1.2		
	2695	PENT	1 S	2209.5	2209.9	1.0	2.4	1.2		
08	2800	OTTA	1 S	1658.5	1659.5	3.0	6.8	2.3		
	2800	OTTA	21 GRF	2015.0	2025.0	45.0	4.2	2.1		
	2800	OTTA	1 S	2022.0	2023.2	3.0	3.8	1.4		
09	127	TORN	43 NS	1154.0		88.0	20.0			V=1
	2800	OTTA	1 S	1920.0	1924.0	5.0	2.0	1.0		
10	3750	TYKW	5 S	0458.0	0458.6	3.0	1.5	0.5		
	3750	TYKW	45 C	0529.0	0529.9	3.0	8.0	3.0		
	2000	TYKW	5 S	0529.5	0530.2	1.5	2.0	0.7		
	3750	TYKW	29 PBI	0532.0		35.0	1.5	0.7		
	1000	TYKW	5 S	0614.2	0614.6	1.0	12.0	4.0		
	15000	KISV	2 S/F	0624.0		4.0	9.0			
	1470	POTS	1 S	0944.5	0945.0	1.5	5.0			
	6100	KISV		0944.9	0945.0		2.0			

SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

5  
Jan 84

JANUARY 1984

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> w/m <sup>2</sup> Hz)	Mean (10 <sup>-22</sup> w/m <sup>2</sup> Hz)		
10	6100	KISV	46 C	0944.9	0946.2	2.0	7.0			
	6100	KISV		0944.9	0946.7		4.0			
	2695	LEAR	8 S	0945.8	0946.0	1.0	41.0			QL=2 ST=2 TYP=3
	3000	POTS	4 S/F	0946.0	0946.1	1.2	26.0			
	430	KRAK	40 F	1012.8	1012.8	1.5	28.0			
	430	KRAK	8 S	1020.9	1021.0	.4	14.0			
	260	ONDR	40 F	1120.0U	1130.0	20.0U	4.0			
	3100	CRIM	3 S	1214.0	1215.5	6.0				
	430	KRAK	45 C	1229.8	1230.3	5.0	12.0	4.0		
	430	KRAK		1229.8	1232.0		20.0			
430	KRAK	45 C	1246.5	1247.6	7.6	160.0	8.0			
430	KRAK	45 C	1257.5	1258.5	8.5	200.0	25.0			
11	100	HIRA	44 NS	2150.0E	0432.0	570.00	120.0	30.0		
	410	LEAR	8 S	0747.8	0748.0	.3	15.0			QL=1 ST=2 TYP=3
	430	KRAK	42 SER	1053.4	1055.2	6.0	10.0			
	8800	SGMR	20 GRF	1620.8	1624.1	26.8	33.0			QL=5 ST=2 TYP=2
	2695	SGMR	20 GRF	1622.0	1623.1	1.1	13.0			QL=5 ST=2 TYP=2
	4995	SGMR	20 GRF	1622.3	1623.8	1.5	15.0			QL=5 ST=2 TYP=2
	2800	OTTA	20 GRF	1830.0	1900.0	130.0	2.2	1.2		
	2695	PENT	240 R	2042.0	2050.0	8.0	1.8	0.9		
12	200	HIRA	43 NS	0140.0	0407.0	360.00	5.0	3.0		WL
	100	GORK	44 NS	0615.0E		168.00		30.0		
	200	GORK	44 NS	0622.0E		158.00		10.0		
	204	IZMI	43 NS	0700.0		300.0	50.0			
	127	TORN	44 NS	0820.0E		380.00		22.0		V=3, DISTURBED
	245	LEAR	43 NS	2209.0	0949.8	766.00	160.0			QL=6 ST=2 TYP=1
	410	LEAR	8 S	0159.3	0159.8	1.8	11.0			QL=6 ST=2 TYP=3
	245	LEAR	8 S	0215.8	0216.0	.3	15.0			QL=1 ST=2 TYP=3
	3750	TYKW	5 S	0245.0	0247.4	14.0	1.5	0.5		
	2000	TYKW	5 S	0245.0	0247.5	14.0	1.0	0.5		
	3750	TYKW	21 GRF	0305.0	0410.0	210.0	2.0	1.0		
	245	LEAR	8 S	0305.5	0306.0	.8	28.0			QL=5 ST=2 TYP=3
	2000	TYKW	20 GRF	0350.0	0410.0	120.0	1.5	0.7		
	3750	TYKW	20 GRF	0456.0	0508.0	45.0	1.5	0.7		
	15000	KISV	2 S/F	0555.3	0555.9	1.0	11.0			
	6100	KISV	2 S/F	0555.5	0555.9	1.0	3.0			
	3750	TYKW	5 S	0610.0	0618.0	20.0	1.5	0.5		
	6100	KISV	21 GRF	0651.2	0654.0	15.0	3.0			
	3750	TYKW	5 S	0652.0	0654.0	10.0	1.5	0.5		
	2600	TYKW	5 S	0652.0	0654.3	20.0	2.0	0.5		
	9100	GORK	20 GRF	0652.3	0939.8	292.0	14.0			
	245	LEAR	4 S/F	0654.8	0655.1	2.2	15.0			QL=6 ST=2 TYP=3
650	GORK	20 GRF	0819.3		125.7	4.5				
3100	CRIM	20 GRF	0833.0	0933.0	117.0	7.0	2.0			
1470	POTS	2 S/F	0904.4	0904.7	1.3	3.0				
3000	POTS	1 S	0904.5	0904.6	.5	3.0				
6100	KISV	2 S/F	0930.0	0933.2	6.0	3.0				
2800	OTTA	20 GRF	1905.0	2015.0	130.0	1.8	1.3			
3750	TYKW	20 GRF	2336.0	2340.0	55.0	2.0	1.0			
13	208	VORO	43 NS	0106.0		122.0		4.0		
	200	GORK	44 NS	0627.0E		273.00		30.0		
	204	IZMI	43 NS	0700.0		300.0	20.0			
	127	TORN	44 NS	0820.0E	1205.4	350.00	30.0			V=1
	245	SGMR	43 NS	1235.0	1556.1	512.0	270.0			QL=6 ST=2 TYP=1
	200	HIRA	44 NS	2150.0E		590.00		3.0		
	245	LEAR	43 NS	2210.0	0622.6	765.00	330.0			QL=6 ST=2 TYP=1
	410	LEAR	44 NS	2210.0E	2301.5	386.80	17.0			QL=C ST=2 TYP=1
	245	PALE	43 NS	2219.6	0159.3	316.40	210.0			QL=6 ST=2 TYP=1
	9400	TYKW	5 S	0037.0	0037.2	1.0	7.0	2.0		
	3750	TYKW	21 GRF	0110.0	0155.0	190.0	3.0	1.5		
	9400	TYKW	45 C	0233.0	0238.5	20.0	9.0	7.0		
	3750	TYKW	45 C	0233.0	0249.6	32.0	10.0	5.0		
	2000	TYKW	20 GRF	0233.0U	0310.0U	130.0U	3.0	1.5U		INTERFERENCE
	15400	LEAR	20 GRF	0235.5	0243.6	24.6	11.0			QL=6 ST=2 TYP=2
	8800	LEAR	20 GRF	0235.6	0252.1	30.7	20.0			QL=6 ST=2 TYP=2
	4995	LEAR	20 GRF	0236.1	0250.1	27.7	21.0			QL=6 ST=2 TYP=2
17000	NOBE	20 GRF	0237.6	0245.0	28.0	11.0			0	
245	LEAR	8 S	0238.8	0239.0	.3	44.0			QL=5 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		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (10 <sup>-22</sup> W/m <sup>2</sup> Hz)		
13	610	LEAR	B S	0239.1	0239.3	.7	6.0			QL=6 ST=2 TYP=3
	9400	TYKW	29 PBI	0253.0		65.0	8.0	3.0		
	3750	TYKW	29 PBI	0305.0		65.0	5.0	2.5		
	2000	TYKW	20 GRF	0451.0	0530.0	130.0	3.0	1.5		
	3750	TYKW	21 GRF	0451.0	0538.0	130.0	3.0	1.5		
	6100	KISV	21 GRF	0616.0	0623.2	25.0	7.0			
	3750	TYKW	45 C	0618.0	0628.7	22.0	5.0	2.0		
	9400	TYKW	21 GRF	0618.0	0630.0	35.0	4.0	2.0		
	9400	TYKW	5 S	0622.5	0623.2	1.5	4.0	1.5		
	3750	TYKW	29 PBI	0640.0		20.0	1.5	0.7		
	3000	POTS	22 GRF	0920.0	0950.8	135.0	14.0			
	1470	POTS	22 GRF	0920.0	0958.2	110.0	7.0			
	410	LEAR	8 S	0936.1	0936.3	.5	23.0			QL=6 ST=2 TYP=3
	245	LEAR	47 GB	0936.5	0936.6	.3	77.0			QL=6 ST=2 TYP=5
	204	IZMI	5 S	0955.4	0955.7	.6	580.0	290.0		
2695	SQMR	47 GB	1735.6	1735.8	.9	62.0			QL=6 ST=2 TYP=5	
1415	SQMR	49 GB	1735.6	1736.5	3.0	1300.0			QL=6 ST=2 TYP=6	
2800	OTTA	20 GRF	1950.0	2030.0	130.0	4.4	2.2			
14	208	VORO	44 NS	0000.0E		240.00		6.0		
	200	GORK	44 NS	0630.0E		177.00		20.0		
	204	IZMI	43 NS	0700.0		300.0	50.0			
	260	ONDR	44 NS	0825.0E		325.00	30.0			
	410	LEAR	43 NS	0914.3	0940.3	35.8	25.0			QL=6 ST=2 TYP=1
	245	SQMR	43 NS	1236.0	1300.8	452.0	189.0			QL=6 ST=2 TYP=1
	245	PALE	43 NS	1754.0	2152.1	591.00	150.0			QL=6 ST=2 TYP=1
	200	HIRA	44 NS	2150.0E	2315.0	590.00	125.0	40.0		SL
	245	LEAR	43 NS	2210.0	0804.6	766.00	189.0			QL=6 ST=2 TYP=1
	3750	TYKW	21 GRF	0040.0	0058.0	100.0	2.0	1.0		
	9400	TYKW	45 C	0040.5	0041.6	1.5	8.0	2.0		
	245	LEAR	47 GB	0046.8	0047.1	1.0	100.0			QL=6 ST=2 TYP=5
	3750	TYKW	5 S	0047.0	0048.3	4.0	1.0	0.3		
	500	HIRA	8 S	0047.6	0048.0	.5	10.0			WL
	410	LEAR	47 GB	0047.8	0048.0	.5	91.0			QL=6 ST=2 TYP=5
	410	PALE	8 S	0047.8	0048.1	.3	46.0			QL=6 ST=2 TYP=3
	610	LEAR	8 S	0047.8	0048.1	.5	11.0			QL=6 ST=2 TYP=3
	500	HIRA	22 GRF	0132.3	0220.0	82.0	5.0	1.0		WL
	208	VORO	22 GRF	0237.0	0243.0	13.0	200.0			
	200	HIRA	41 F	0238.0	0244.0	15.0	190.0			SL
	410	PALE	8 S	0241.1	0241.3	.5	29.0			QL=6 ST=2 TYP=3
	245	LEAR	47 GB	0513.8	0514.0	.8	270.0			QL=6 ST=2 TYP=5
	610	LEAR	8 S	0513.8	0514.0	.5	3.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0514.0	0514.1	.3	13.0			QL=6 ST=2 TYP=3
	500	HIRA	22 GRF	0540.0	0619.3	53.0	4.0	1.0		WL
	410	LEAR	20 GRF	0615.0	0619.3	6.8	9.0			QL=6 ST=2 TYP=2
	245	LEAR	47 GB	0619.6	0619.8	.7	260.0			QL=3 ST=2 TYP=5
	430	KRAK	42 SER	0916.0	0940.0	33.0	18.0			
	204	IZMI	42 SER	1022.8	1024.3	2.2	580.0			
	1470	POTS	2 S/F	1129.5	1130.2	1.0	3.0			
	536	ONDR	40 F	1151.0	1154.5	5.0	13.0			
	430	KRAK	41 F	1152.2	1153.0	3.0	30.0			
	6100	KISV	1 S	1153.0	1154.6	3.0	5.0			
	1470	POTS	2 S/F	1154.0	1154.5	3.0	4.0			
	3000	POTS	2 S/F	1154.0	1154.6	1.0	4.0			
234	POTS	4 S/F	1338.8	1339.5	1.2	950.0	40.0			
2800	OTTA	3 S	1509.0	1511.6	4.0	12.6	6.2			
8800	ATHN	47 GB	1509.1	1511.8	3.9	100.0				
4995	ATHN	47 GB	1509.6	1511.1	3.5	87.0			QL=4 ST=2 TYP=5	
1415	ATHN	4 S/F	1510.5	1511.3	2.8	16.0			QL=4 ST=2 TYP=3	
2695	ATHN	4 S/F	1510.6	1511.6	2.5	42.0			QL=4 ST=2 TYP=3	
4995	SQMR	8 S	1511.3	1511.6	.5	16.0			QL=4 ST=2 TYP=3	
2695	SQMR	8 S	1511.3	1511.8	.8	17.0			QL=4 ST=2 TYP=3	
2800	OTTA	29 PBI	1513.0	1513.0	17.0	2.0	1.0			
410	LEAR	8 S	2246.5	2246.6	.3	27.0			QL=6 ST=2 TYP=3	
15	208	VORO	44 NS	0600.0E		240.00		10.0		
	410	LEAR	43 NS	0433.8	0706.8	382.20	21.0			QL=6 ST=2 TYP=1
	1415	LEAR	43 NS	0537.8	0538.8	1.8	9.0			QL=1 ST=2 TYP=1
	204	IZMI	44 NS	0700.0E		300.00	60.0			
	430	KRAK	44 NS	0755.0E	1230.5	360.00	14.0			
260	ONDR	44 NS	0830.0E		330.00	31.0				

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Incl	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean		
15	100	GORK	44	K <sup>+</sup>	0910.0E		125.00			
	200	GORK	44	NS	0910.0E		158.00			
	245	SGMR	43	NS	1235.0	1917.5	515.00	189.0		QL=6 ST=2 TYP=1
	245	PALE	43	NS	1750.0	0350.6	595.00	470.0		QL=6 ST=2 TYP=1
	200	HIRA	44	NS	2150.0E	0550.0	590.00	40.0	10.0	SL
	410	LEAR	43	NS	2211.0	0220.6	765.00	13.0		QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2211.0	0421.1	765.00	239.0		QL=6 ST=2 TYP=1
	208	VORO	2	S/F	0206.0	0208.0	7.0	200.0		
	3750	TYKW	5	S	0537.0	0538.4	4.0	1.5	0.5	
	245	LEAR	7	GB	0537.6	0538.0	.7	66.0		QL=6 ST=2 TYP=5
	410	LEAR	8	S	0537.8	0538.0	.3	7.0		QL=6 ST=2 TYP=3
	500	HIRA	45	C	0657.6	0658.0	1.0	15.0	5.0	WR
	6100	KISV	2	S/F	1027.2	1028.2	1.0	3.0		
	234	POTS	4	S/F	1047.0	1047.1	1.7	300.0	30.0	
	810	KRAK	8	S	1243.6	1243.6	.2	6.0		
	234	POTS	4	S/F	1308.0	1308.6	1.5	580.0	150.0	
	2800	OTTA	1	S	1942.0	1944.0	5.0	1.6	0.8	
	410	PALE	47	GB	1943.6	1943.8	.5	90.0		QL=5 ST=2 TYP=5
	200	HIRA	42	SER	2255.0	2256.3	35.0	275.0		WL
	3750	TYKW	5	S	2255.0	2256.3	5.0	2.0	0.7	
500	HIRA	45	C	2302.0	2303.7	2.5	8.0	3.0	WL	
200	HIRA	41	F	2357.6	0006.1	24.0	160.0		SL	
16	208	VORO	44	NS	0000.0E		240.00			
	100	GORK	44	NS	0615.0E		345.00			
	200	GORK	44	NS	0625.0E		336.00			
	204	IZMI	44	NS	0700.0E		300.00	6.0		
	260	ONDR	44	NS	0820.0E		344.00	40.0		
	245	SGMR	43	NS	1235.0	1455.3	516.00	270.0		QL=6 ST=2 TYP=1
	245	PALE	43	NS	1738.0	2117.5	607.00	28.0		QL=6 ST=2 TYP=1
	200	HIRA	44	NS	2149.0E	0124.0	590.00	60.0	15.0	HL
	100	HIRA	44	NS	2149.0E	2240.0	590.00	160.0	80.0	
	245	LEAR	43	NS	2212.0	0131.1	764.00	48.0		QL=6 ST=2 TYP=1
	500	HIRA	8	S	0032.7	0033.0	.4	5.0		WL
	200	HIRA	8	S	0037.0	0037.4	.5	410.0		SL
	4995	LEAR	8	S	0045.3	0046.0	1.8	7.0		QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0045.3	0046.0	1.3	9.0		QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0045.5	0045.9	1.0	6.0	2.0	
	3750	TYKW	5	S	0045.5	0045.9	1.0	2.0	0.7	
	8800	PALE	8	S	0045.8	0045.8	.3	15.0		QL=6 ST=2 TYP=3
	9400	TYKW	20	GRF	0123.0	0128.0	3.0	4.0	2.0	
	3750	TYKW	20	GRF	0124.0	0128.0	45.0	2.0	1.0	
	200	HIRA	42	SER	0229.0	0240.3	25.0	265.0		SL
	200	HIRA	42	SER	0305.5	0308.6	25.7	145.0		SL
	208	VORO	6	S	0322.0	0323.0	3.0	200.0		
	3750	TYKW	5	S	0336.0	0338.0	10.0	1.5	0.7	
	9400	TYKW	20	GRF	0347.0	0348.3	35.0	4.0	2.0	
	3750	TYKW	5	S	0347.0	0352.0	25.0	1.5	0.7	
	200	HIRA	42	SER	0423.3	0425.0	27.0	180.0		SL
	430	KRAK	42	SER	1114.8	1133.6	26.5	70.0		
	430	KRAK			1114.8	1140.3		29.0		
	204	IZMI	5	S	1138.0	1138.2	.5	480.0	240.0	
	430	KRAK	41	F	1209.2	1215.8	9.5	11.0		
430	KRAK	45	C	1256.0	1256.5	4.5	370.00	22.0		
430	KRAK	2	S/F	1304.0	1304.6	1.5	30.0	7.0		
430	KRAK	2	S/F	1309.2	1309.5	1.0	16.0	5.0		
2800	OTTA	20	GRF	1425.0	1445.0	125.0	2.0	1.0		
2800	OTTA	20	GRF	1635.0	1710.0	90.0	2.0	1.0		
2800	OTTA	20	GRF	1810.0	1935.0	170.0	2.8	1.5		
410	PALE	8	S	2112.6	2112.8	.5	20.0		QL=6 ST=2 TYP=3	
245	PALE	47	GB	2112.6	2112.8	.5	139.0		QL=6 ST=2 TYP=5	
17	208	VORO	44	NS	0000.0E		205.00			
	200	GORK	44	NS	0618.0E		344.00			
	260	ONDR	44	NS	0757.0E		360.00	5.0		
	127	TORN	44	NS	1120.0E		90.00			V=1
	500	HIRA	8	S	0026.0	0026.0	.1	16.0		WR
	8800	PALE	47	GB	0232.3	0232.6	.8	82.0		QL=1 ST=2 TYP=5
	245	SGMR	49	GB	1436.6	1436.8	.7	1300.0		QL=1 ST=2 TYP=6
	2800	OTTA	8	S	1737.2	1737.5	.5	1.4	0.7	
	2800	OTTA	20	GRF	1915.0	1930.0	80.0	1.6	0.8	

SOLAR RADIO EMISSION  
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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> w/m <sup>2</sup> Hz)	Mean (10 <sup>-22</sup> w/m <sup>2</sup> Hz)		
17	245	LEAR	4 S/F	2333.8	2335.5	3.3	22.0			QL=1 ST=2 TYP=3
	245	LEAR	8 S	2338.0	2339.6	2.0	20.0			QL=1 ST=2 TYP=3
18	260	ONDR	44 NS	0807.0E		373.00	6.0			
	3750	TYKW	20 GRF	0220.0	0225.0	30.0	1.5	0.7		
	410	LEAR	8 S	0724.6	0724.6	.2	11.0			QL=6 ST=2 TYP=3
	3100	CRIM	26 FAL	0850.0	1020.0		5.0			
	6100	KISV	1 S	0918.9	0919.7	4.0	3.0			
	15000	KISV	1 S	0919.1	0919.5	2.0	7.0			
19	204	IZMI	41 F	1102.1	1102.4	2.4	370.0			
	245	PALE	47 GB	0010.3	0010.8	2.8	210.0			QL=5 ST=2 TYP=5
	536	ONDR	8 S	1238.5	1239.0	.7	9.0			
	3000	POTS	2 S/F	1344.5	1345.0	1.5	4.5	1.7		
	2800	OTTA	1 S	1344.5	1345.0	1.5	3.4			
20	1470	POTS	1 S	1344.8	1345.3	1.2	4.0			
	260	ONDR	44 NS	0820.0E		350.00	6.0			
	245	LEAR	8 S	0322.3	0323.6	1.7	29.0			QL=6 ST=2 TYP=
	245	PALE	8 S	0323.3	0323.5	.3	35.0			QL=6 ST=2 TYP=
	3750	TYKW	20 GRF	0440.0	0545.0	150.0	2.0	1.0		
	2000	TYKW	20 GRF	0450.0	0555.0	150.0	1.5	0.7		
	245	LEAR	8 S	0923.5	0923.6	.3	16.0			QL=6 ST=2 TYP=3
	2800	OTTA	21 GRF	1335.0	1425.0	290.0	18.4	8.0		
	1470	POTS	21 GRF	1341.5	1357.5	54.00	7.0			
	9500	POTS	21 GRF	1342.0	1421.5	50.0	11.0			
	3000	POTS	21 GRF	1347.0	1424.0	48.00	13.0			
	410	SGMR	47 GB	1358.3E	1358.3	1.00	52.0			QL=2 ST=2 TYP=5
	610	SGMR	8 S	1358.3E	1358.5	.50	23.0			QL=2 ST=2 TYP=3
	4995	ATHN	4 S/F	1359.6	1400.1	3.9	19.0			QL=5 ST=2 TYP=3
	1415	ATHN	4 S/F	1359.6	1400.1	3.7	18.0			QL=5 ST=2 TYP=3
	1415	SGMR	8 S	1359.8E	1400.1	1.30	41.0			QL=2 ST=2 TYP=3
	4995	SGMR	8 S	1359.8E	1400.1	1.70	28.0			QL=2 ST=2 TYP=3
	2695	SGMR	4 S/F	1359.8E	1400.3	2.30	32.0			QL=2 ST=2 TYP=3
	1470	POTS	4 S/F	1359.9	1400.4	5.2	28.0			
	2800	OTTA	3 S	1359.9	1400.2	4.0	19.4	6.6		
	3000	POTS	4 S/F	1400.0	1400.1	3.0	27.0			
	9500	POTS	3 S	1400.0	1400.1	1.5	15.0			
	8800	SGMR	8 S	1400.1E	1400.3	.70	19.0			QL=2 ST=2 TYP=3
	33	UPIC	45 C	1400.3	1400.8	1.3				
	29	UPIC	2 S/F	1400.5	1401.0	1.1				
	2800	OTTA	40 F	1407.5	1412.5	6.0	4.0			
	1470	POTS	4 S/F	1408.5	1408.9	1.2	7.5			
	1470	POTS	4 S/F	1410.5	1412.5	3.5	3.5			
	1470	POTS	4 S/F	1415.0	1417.3	4.0	19.0			
	2800	OTTA	1 S	1415.5	1417.0	5.0	9.6	4.8		
9500	POTS	1 S	1416.0	1417.0	3.0	19.0				
3000	POTS	4 S/F	1416.0	1417.2	3.0	19.0				
2800	OTTA	240 R	1835.0	1930.0	55.0	2.8	1.2			
2695	PENT	1 S	2105.0	2105.3	1.0	2.2	1.1			
21	245	LEAR	43 NS	0515.0	1024.1	340.00	32.0			QL=6 ST=2 TYP=1
	260	ONDR	44 NS	0819.0E		343.00	7.0			
	410	LEAR	43 NS	0843.3	0952.0	131.70	13.0			QL=6 ST=2 TYP=1
	200	HIRA	44 NS	0746.0E		600.00		5.0		WR
	245	LEAR	43 NS	2215.0	0935.3	760.00	23.0			QL=6 ST=2 TYP=1
	2000	TYKW	45 C	0132.7	0133.1	0.8	13.0	4.0		
	3750	TYKW	45 C	0132.7	0133.1	1.0	4.0	1.6		
	1000	TYKW	45 C	0132.7	0133.2	2.5	25.0	3.0		
	1415	LEAR	20 GRF	0133.6	0138.0	26.4	13.0			QL=5 ST=2 TYP=2
	2695	LEAR	20 GRF	0133.6	0140.0	29.5	15.0			QL=5 ST=2 TYP=2
	3750	TYKW	20 GRF	0208.0	0233.0	65.0	1.5	0.7		
	410	LEAR	8 S	0245.0	0245.1	.8	24.0			QL=6 ST=2 TYP=3
	3750	TYKW	20 GRF	0314.0	0325.0	35.0	1.5	0.7		
	410	PALE	49 GB	0347.1	0347.5	1.5	2300.0			QL=6 ST=2 TYP=6
	3750	TYKW	20 GRF	0349.0	0400.0	70.0	2.0	1.0		
	2000	TYKW	21 GRF	0520.0	0600.0	120.0	1.5	0.7		
	3750	TYKW	21 GRF	0520.0	0600.0	120.0	2.0	1.0		
	3750	TYKW	21 GRF	0622.0	0645.0	55.0	2.0	1.0		
	2000	TYKW	21 GRF	0625.0	0645.0	55.0	2.0	1.0		
	1000	TYKW	45 C	0632.0	0652.7	2.5	5.0	1.5		

S O L A R R A D I O E M I S S I O N  
O U T S T A N D I N G O C C U R R E N C E S

9  
Jan 84

J A N U A R Y 1 9 8 4

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (W/m <sup>2</sup> Hz)		
21	3750	TYKW	5 S	0652.0	0652.8	5.0	2.0	0.5		
	2000	TYKW	5 S	0652.0	0652.9	5.0	3.0	0.7		
	204	IZMI	41 F	0811.8	0813.1	1.5	50.0			
	2695	PENT	20 GRF	1710.0	1810.0	90.0	2.0	1.0		
22	208	VORO	44 NS	0000.0E		240.00		5.0		
	260	ONDR	44 NS	0816.0E		347.00	7.0			
	200	HIRA	44 NS	2146.0E	0007.0	250.00	10.0	5.0		WR
	245	LEAR	43 NS	2216.0	0601.0	759.00	42.0			QL=6 ST=2 TYP=1
	3750	TYKW	21 GRF	0135.0	0415.0	325.0	6.0	3.0		
	4995	LEAR	8 S	0139.8	0140.3	1.8	8.0			QL=6 ST=2 TYP=3
	8800	LEAR	8 S	0139.8	0140.3	1.0	8.0			QL=6 ST=2 TYP=3
	3750	TYKW	45 C	0140.0	0140.4	3.0	5.0	1.0		
	9400	TYKW	5 S	0140.2	0140.3	0.5	6.0	2.0		
	3750	TYKW	5 S	0219.0	0222.4	7.0	5.0	2.0		
	9400	TYKW	5 S	0220.0	0222.4	5.0	15.0	5.0		
	2000	TYKW	21 GRF	0220.0	0350.0	280.0	4.0	2.0		
	4995	LEAR	4 S/F	0220.8	0222.3	4.0	9.0			QL=6 ST=2 TYP=3
	8800	LEAR	4 S/F	0221.0	0222.3	3.8	13.0			QL=6 ST=2 TYP=3
	8800	PALE	8 S	0221.6	0222.3	1.2	20.0			QL=6 ST=2 TYP=3
	15400	LEAR	8 S	0221.8	0222.3	1.3	8.0			QL=6 ST=2 TYP=3
	9400	TYKW	29 PBI	0225.0		35.0	4.0	2.0		
	3750	TYKW	29 PBI	0226.0		15.0	2.0	1.0		
	610	LEAR	8 S	0243.1	0243.3	.4	32.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0307.0	0307.1	.3	10.0			QL=6 ST=2 TYP=3
	3750	TYKW	5 S	0308.0	0310.1	4.0	5.0	2.0		
	3750	TYKW	29 PBI	0312.0		40.0	2.0	1.0		
	9400	TYKW	20 GRF	0400.0	0415.0	60.0	3.0	1.5		
	3750	TYKW	5 S	0402.0	0402.3	1.0	5.0	1.5		
	2000	TYKW	5 S	0402.0	0402.3	1.0	1.5	0.5		
	3750	TYKW	20 GRF	0425.0	0455.0	90.0	3.0	1.5		
	2000	TYKW	20 GRF	0435.0	0515.0	85.0	2.0	1.0		
	410	LEAR	8 S	0514.1	0514.3	.2	10.0			QL=2 ST=2 TYP=3
	9400	TYKW	45 C	0608.0	0610.5	6.0	17.0	5.0		
	3750	TYKW	5 S	0608.0	0610.5	5.0	7.0	2.5		
	2695	LEAR	20 GRF	0608.3	0610.1	3.7	6.0			QL=2 ST=2 TYP=2
	4995	ATHN	4 S/F	0608.6	0610.6	3.0	22.0			QL=6 ST=2 TYP=3
	2000	TYKW	5 S	0609.0	0610.5	5.0	2.0	0.7		
	4995	LEAR	4 S/F	0609.1	0610.3	4.0	15.0			QL=6 ST=2 TYP=3
	8800	LEAR	4 S/F	0609.1	0610.3	3.9	17.0			QL=6 ST=2 TYP=3
	6100	KISV	45 C	0609.1	0610.4	4.0	20.0			
6100	KISV		0609.1	0611.1		16.0				
2840	PEKG	1 S	0609.2	0610.6	3.3	3.3	0.9			
8800	ATHN	4 S/F	0609.5	0610.6	2.1	20.0			QL=6 ST=2 TYP=3	
1415	ATHN	4 S/F	0609.5	0613.1	5.8	8.0			QL=6 ST=2 TYP=3	
15400	LEAR	8 S	0610.0	0610.3	2.0	13.0			QL=6 ST=2 TYP=3	
15000	KISV	2 S/F	0610.1	0611.3	2.0	11.0				
3750	TYKW	29 PBI	0613.0		40.0	2.0	1.0			
9400	TYKW	29 PBI	0614.0		30.0	3.0	1.5			
245	LEAR	8 S	0620.3	0620.3	.2	5.0			QL=1 ST=2 TYP=3	
410	LEAR	8 S	0620.3	0620.3	.2	6.0			QL=1 ST=2 TYP=3	
810	KRAK	8 S	1002.0	1002.0	.2	9.0				
808	ONDR	2 S/F	1210.5	1210.7	1.5	15.0				
235	SGMR	47 GB	1316.0	1316.8	1.1	189.0			QL=1 ST=2 TYP=5	
410	SGMR	8 S	1726.1	1726.3	.5	24.0			QL=6 ST=2 TYP=3	
2695	PENT	22 GRF	1809.0	1814.0	90.0	1.8	1.1			
3750	TYKW	20 GRF	2320.0	2352.0	70.0	2.0	1.0			
410	LEAR	8 S	2332.0	2332.1	.1	22.0			QL=6 ST=2 TYP=3	
23	208	VORO	44 NS	0000.0E		240.00		3.0		
	260	ONDR	44 NS	0850.0E		313.00	62.0			
	245	SGMR	43 NS	1230.0	2054.8	530.00	180.0			QL=6 ST=2 TYP=1
	200	HIRA	44 NS	2145.0E	0148.0	610.00	30.0	15.0		WL
	410	LEAR	43 NS	2216.0	0218.5	759.00	22.0			QL=5 ST=2 TYP=1
	245	LEAR	43 NS	2216.0	0245.1	759.00	180.0			QL=5 ST=2 TYP=1
	3750	TYKW	20 GRF	0130.0	0143.0	120.0	2.0	1.0		
	9400	TYKW	45 C	0339.5	0339.8	2.5	3.0	1.0		
	3750	TYKW	20 GRF	0412.0	0415.0	30.0	1.0	0.5		
	9400	TYKW	5 S	0416.3	0416.5	0.5	8.0	2.0		
	9400	TYKW	45 C	0619.0	0619.7	3.5	6.0	2.0		
	9100	GORK	20 GRF	0729.5	0733.5	20.0	8.0			

SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

JANUARY 1984

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m	Mean 2 Hz)		
23	410	LEAR	8 S	0750.0	0750.1	.1	13.0			QL=5 ST=2 TYP=3
	410	LEAR	8 S	0953.6	0953.6	.2	11.0			QL=1 ST=2 TYP=3
	245	LEAR	8 S	0953.6	0953.6	.2	4.0			QL=1 ST=2 TYP=3
	9100	GORK	20 GRF	1035.6	1037.6	9.3	7.8			
	15000	KISV	2 S/F	1036.0	1037.8	3.0	13.0			
	6100	KISV	2 S/F	1036.8	1035.9	2.0	2.0			
	430	KRAK	8 S	1153.4	1153.5	.2	7.0			
	2800	OTTA	240 R	1555.0	1630.0	35.0	2.6	1.3		
	410	LEAR	4 S/F	2330.3	2331.3	3.0	4.0			QL=5 ST=2 TYP=3
	245	LEAR	47 GB	2330.8	2331.1	1.0	100.0			QL=5 ST=2 TYP=5
24	208	VORO	44 NS	0000.0E		240.00		10.0		
	100	HIRA	43 NS	0120.0	0353.0	200.0	25.0	5.0		
	204	IZMI	43 NS	0700.0		300.0	20.0			
	127	TORN	43 NS	0753.0	1324.5	407.0	300.0	8.0		V=1
	260	ONDK	44 NS	0900.0E		311.00	121.0			
	245	SGMR	43 NS	1229.0	1536.0	532.00	1100.0			QL=6 ST=2 TYP=1
	410	PALE	44 NS	1735.0E	2036.1		69.0			QL=6 ST=3 TYP=1
	245	PALE	44 NS	1735.0E	2124.3		100.0			QL=6 ST=3 TYP=1
	200	HIRA	44 NS	2145.0E	0441.0	610.00	50.0	10.0		WR
	245	LEAR	44 NS	2217.0E	2239.8	28.00	38.0			QL=5 ST=2 TYP=1
	3750	TYKW	21 GRF	0020.0	0100.0	260.0	3.0	1.5		
	9400	TYKW	20 GRF	0040.0	0053.0	50.0	3.0	1.5		
	9400	TYKW	5 S	0141.0	0141.6	3.0	3.0	1.0		
	3750	TYKW	20 GRF	0150.0	0155.0	40.0	1.5	0.7		
	410	LEAR	8 S	0402.3	0402.8	.8	10.0			QL=6 ST=2 TYP=3
	245	LEAR	47 GB	0402.8	0402.8	.3	200.0			QL=6 ST=2 TYP=5
	3750	TYKW	45 C	0408.0	0409.6	10.0	3.0	1.0		
	9400	TYKW	5 S	0408.5	0409.2	2.5	16.0	8.0		
	4995	LEAR	4 S/F	0408.5	0409.3	3.6	9.0			QL=6 ST=2 TYP=3
	8800	LEAR	8 S	0409.0	0409.3	.5	13.0			QL=6 ST=2 TYP=3
	9400	TYKW	25 PBI	0411.0		20.0	4.0	2.0		
	3750	TYKW	29 PBI	0418.0		15.0	1.0	0.5		
	410	LEAR	8 S	0439.3	0440.1	1.5	27.0			QL=6 ST=2 TYP=3
	3100	CRIM	24 R	0612.0	0620.0		8.0			
	6100	KISV	21 GRF	0618.0	0625.1	17.0	7.0			
	15000	KISV	20 GRF	0618.0	0626.6	15.0	10.0			
	2950	GORK	20 GRF	0622.9	0857.2	337.00	10.0			
	9100	GORK	23 GRF	0633.5	0805.9	292.0	18.0			
	650	GORK	20 GRF	0654.0	1133.00	306.00	8.5			
	6100	KISV	1 S	0735.0	0735.3	3.5	3.0			
	6100	KISV	4 S/F	0802.6	0804.7	16.0	21.00			
	6100	KISV	29 PBI	0802.6	0805.7	13.0	6.0			
	4995	ATHN	8 S	0804.0	0804.6	1.3	24.0			QL=6 ST=2 TYP=3
	9100	GORK	1 S	0804.0	0804.8	1.5	24.0	12.0		
	15000	KISV	1 S	0804.3	0804.8	2.0	10.0			
8800	LEAR	8 S	0804.5	0804.8	.6	31.0			QL=6 ST=2 TYP=3	
4995	LEAR	8 S	0804.6	0804.8	.5	19.0			QL=6 ST=2 TYP=3	
6100	KISV		0850.5	0856.2		13.0				
6100	KISV	46 C	0850.5	0856.5	7.0	25.0				
6100	KISV		0850.5	0857.0		19.0				
3100	CRIM	1 S	0855.3	0857.1	5.0	9.0	3.0			
15000	KISV		0855.6	0856.5		17.0				
15000	KISV	45 C	0855.6	0856.9	2.5	17.0				
9100	GORK	45 C	0855.7	0856.5	2.0	20.0				
9100	GORK		0855.7	0856.9		18.0				
8800	LEAR	8 S	0856.0	0856.8	1.3	30.0			QL=6 ST=2 TYP=3	
4995	LEAR	8 S	0856.3	0856.8	.7	18.0			QL=6 ST=2 TYP=3	
2695	LEAR	8 S	0856.8	0858.0	1.3	13.0			QL=6 ST=2 TYP=3	
15400	LEAR	8 S	0856.8	0858.5	1.8	22.0			QL=6 ST=2 TYP=3	
6100	KISV	29 PBI	0857.5	0857.6	8.0	7.0				
245	LEAR	8 S	0911.1	0911.8	.9	15.0			QL=6 ST=2 TYP=3	
410	LEAR	8 S	0911.1	0912.3	1.7	16.0			QL=6 ST=2 TYP=3	
29	UPIC	2 S/F	1208.2	1208.4	.9					
33	UPIC	2 S/F	1208.3	1208.4	.5					
2800	OTTA	20 GRF	1555.0	1655.0	80.0	2.4	1.3			
2800	OTTA	240 R	1735.0	1830.0	55.0	4.8	2.8			
2800	OTTA	2 S/F	2021.7	2022.0	1.5	9.4	3.2			
25	208	VORO	44 NS	0000.0E		240.00		20.0		
	245	LEAR	43 NS	0326.0	0854.5	449.00	250.0			QL=6 ST=2 TYP=1





SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

JANUARY 1984

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (2 Hz)		
25	1415	LEAR	8 S	0756.3	0756.5	.3	13.0			QL=6 ST=2 TYP=3
	200	GORK	4 S/F	0756.4	0756.8	.9	90.0			
	245	LEAR	47 GB	0756.6	0756.8	2.0	65.0			QL=6 ST=2 TYP=5
	410	LEAR	8 S	0756.6	0757.1	1.7	5.0			QL=6 ST=2 TYP=3
	610	LEAR	8 S	0757.0	0757.1	.3	13.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0801.1	0801.8	1.2	16.0			QL=6 ST=2 TYP=3
	410	LEAR	4 S/F	0803.5	0807.5	9.5	38.0			QL=6 ST=2 TYP=3
	245	LEAR	47 GB	0803.8	0827.5	36.2	300.0			QL=6 ST=2 TYP=5
	650	GORK	1 S	0804.4	0806.0	1.7	6.0	3.0		
	650	GORK	3 S	0825.2	0826.00	2.4	11.0			
	410	LEAR	8 S	0933.0	0933.1	.5	28.0			QL=6 ST=2 TYP=3
	430	KRAK	8 S	0933.4	0933.5	.4	32.0			
	245	LEAR	47 GB	0933.8	0935.3	1.7	119.0			QL=6 ST=2 TYP=5
	3100	CRIM	21 GRF	1006.0	1100.0	78.0	3.0	1.0		
	430	KRAK	27 RF	1006.5	1114.0	111.0	38.0	9.0		
	200	GORK	41 F	1009.5	1009.8	29.5	100.00			
	200	GORK		1009.5	1023.4		100.0			
	200	GORK		1009.5	1037.6		100.00			
	15000	KISV	2 S/F	1011.4	1012.5	6.0	11.0			
	6100	KISV	45 C	1011.4	1012.6	3.0	11.0			
	6100	KISV		1011.4	1013.5		10.0			
	9500	POTS	4 S/F	1012.0	1012.5	1.2	13.0			
	9100	GORK	1 S	1012.0	1012.5	1.3	8.0	4.0		
	9500	POTS		1012.0	1012.9		13.0			
	8800	ATHN	4 S/F	1012.1	1014.0	5.4	15.0			QL=6 ST=2 TYP=3
	8800	LEAR	8 S	1012.3	1013.1	1.3	25.0			QL=6 ST=2 TYP=3
	4995	LEAR	8 S	1013.1	1013.1	.5	17.0			QL=6 ST=2 TYP=3
	2695	LEAR	8 S	1013.1	1013.3	.4	13.0			QL=6 ST=2 TYP=3
	2950	GORK	21 GRF	1038.8	1048.0	33.0	3.0			
	610	LEAR	8 S	1051.1	1051.8	1.7	11.0			QL=6 ST=2 TYP=3
	1415	LEAR	8 S	1051.3	1051.6	1.0	22.0			QL=6 ST=2 TYP=3
	2695	LEAR	8 S	1051.3	1051.6	.8	45.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	1051.3	1051.8	1.7	28.0			QL=6 ST=2 TYP=3
	536	ONDR	46 C	1056.0	1115.0	64.0	44.0	25.0		
	6100	KISV		1100.0	1102.7		7.0			
	6100	KISV	45 C	1100.0	1103.4	6.0	10.0			
	950	GORK	2 S/F	1100.8	1102.7	6.5	8.5			
	650	GORK	46 C	1101.5	1108.7	25.5	27.0			
	650	GORK	46 C	1101.5	1114.6		16.0			
	1470	POTS	4 S/F	1102.0	1102.9	2.3	6.0			
	3000	POTS	4 S/F	1102.0	1103.1	3.0	16.0			
	3100	CRIM	1 S	1102.0	1103.5	3.0	8.0	3.0		
	2950	GORK	3 S	1102.4	1103.5	1.9	9.2			
	260	ONDR	46 C	1111.0	1121.0	50.0	125.00	26.0		
	100	GORK	27 RF	1115.0	1133.0	44.50	20.0			
	29	UPIC	4 S/F	1121.9	1122.6	1.6				
	100	GORK	46 C	1122.0	1122.3	.5	50.00			
	100	GORK		1122.0	1132.5		50.0			
	33	UPIC	4 S/F	1122.2	1122.3	.7				
	100	GORK	41 F	1132.8	1133.1	3.2	35.0			
100	GORK		1132.8	1133.3		35.0				
100	GORK		1132.8	1135.7		30.0				
9100	GORK	21 GRF	1200.0	1212.1	14.7	8.0				
260	ONDR	46 C	1207.0	1208.0	5.0	125.00	41.0			
536	ONDR	2 S/F	1207.0	1208.3	3.0	15.0	8.0			
234	POTS	41 F	1207.3	1207.5	21.3	900.0	10.0			
430	KRAK	4 S/F	1207.5	1208.0	2.5	24.0	15.0			
9500	POTS	4 S/F	1207.5	1208.4	4.0	33.0				
8400	BERN	3 S	1207.5	1208.4	7.0	49.0				
11800	BERN	3 S	1207.5	1208.4	7.0	45.0				
5200	BERN	3 S	1207.5	1208.5	7.0	45.0				
3100	BERN	3 S	1207.5	1208.6	7.0	29.0				
3000	POTS	3 S	1207.6	1208.4	3.4	20.0				
1470	POTS	4 S/F	1207.6	1208.4	2.4	7.0				
3100	CRIM	1 S	1207.6	1208.6	5.0	19.0	6.0			
8800	ATHN	4 S/F	1207.6	1209.0	4.2	29.0			QL=6 ST=2 TYP=3	
810	KRAK	4 S/F	1207.7	1208.5	2.5	15.0	5.0			
9100	GORK	3 S	1207.8	1208.5	2.6	33.0	15.0			
2950	GORK	3 S	1207.8	1208.7	1.8	12.3				
650	GORK	4 S/F	1207.9	1208.3	2.0	7.0	3.0			
4995	ATHN	4 S/F	1208.0	1208.6	4.3	27.0			QL=6 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean		
25	1415	ATHN	4 S/F	1208.0	1209.1	3.3	7.0			QL=6 ST=2 TYP=3
	2695	ATHN	4 S/F	1208.3	1209.0	4.2	24.0			QL=6 ST=2 TYP=3
	2950	GORK	29 PBI	1209.6	1209.7	6.50	9.2			
	430	KRAK	27 RF	1210.8	1226.0	33.0	10.0	1.0		
	536	ONDR	40 F	1226.0		56.0	12.0			
	430	RAK	42 SER	1248.6	1310.6	40.0	46.0			
	234	POTS	4 S/F	1310.0	1310.4	.7	550.0	60.0		III
	1470	POTS	1 S	1310.0	1310.5	1.5	2.0			
	430	KRAK	45 C	1335.0	1336.4	5.8	110.0	35.0		
	234	POTS	4 S/F	1347.6	1347.7	.6	440.0	15.0		
	2800	OTTA	22 GRF	1500.0	1605.0	115.0	6.0	3.0		
	15400	SGMR	8 S	1717.6	1718.0	1.2	27.0			QL=6 ST=2 TYP=3
	8800	SGMR	8 S	1717.6	1718.1	1.0	21.0			QL=6 ST=2 TYP=3
	2800	OTTA	23 GRF	1740.0	1830.0	155.0	7.8	3.9		
	2800	OTTA	4 S/F	1835.5	1837.0	5.0	10.0	5.0		
	8800	PALE	47 GB	1909.1	1911.6	3.5	260.0			QL=6 ST=2 TYP=5
	8800	PALE	8 S	1949.6	1949.8	1.0	45.0			QL=6 ST=2 TYP=3
	3750	TYKW	5 S	2250.0	2255.0	20.0	3.0	1.5		
	9400	TYKW	45 C	2257.0	2258.2	3.0	8.0	4.0		
	410	LEAR	4 S/F	2257.8	2258.3	3.3	10.0			QL=6 ST=2 TYP=3
	4995	LEAR	4 S/F	2257.8	2258.3	2.3	10.0			QL=6 ST=2 TYP=3
	15400	LEAR	4 S/F	2257.8	2300.8	3.3	15.0			QL=5 ST=2 TYP=3
	8800	LEAR	4 S/F	2258.0	2258.3	2.3	10.0			QL=6 ST=2 TYP=3
	245	LEAR	47 GB	2258.1	2258.3	.7	93.0			QL=6 ST=2 TYP=5
	9400	TYKW	29 PBI	2300.0		15.0	3.0	1.5		
3750	TYKW	28 PRE	2340.0	0035.0	55.0	10.0	5.0			
3750	TYKW	20 GRF	2341.0	2347.0	40.0	4.0	2.0			
9400	TYKW	45 C	2342.0	2343.8	8.0	8.0	4.0			
1000	TYKW	5 S	2342.6	2342.9	0.7	5.0	1.5			
9400	TYKW	29 PBI	2350.0		25.0	3.0	1.5			
26	208	VORO	44 NS	0000.0E		240.0D		30.0		
	200	GORK	44 NS	0627.0E		230.0D		20.0		
	100	GORK	44 NS	0627.0E		228.0D		5.0		
	204	IZMI	44 NS	0700.0E		300.0D	40.0			
	127	TORN	43 NS	0726.0	1424.8	434.0	170.0	5.0		V=1
	536	ONDR	44 NS	0806.0E		372.0D	6.0			
	260	ONDR	44 NS	0806.0E		364.0D	48.0			
	245	SGMR	43 NS	1227.0	1344.8	537.0D	200.0			QL=6 ST=2 TYP=1
	410	SGMR	43 NS	1400.1	1608.3	443.9D	97.0			QL=6 ST=2 TYP=1
	610	SGMR	43 NS	1436.0	1610.1	408.0D	51.0			QL=6 ST=2 TYP=1
	410	PALE	43 NS	1738.0	2137.1	612.0D	290.0			QL=6 ST=2 TYP=1
	245	PALE	43 NS	1739.0	0239.1	612.0D	720.0			QL=6 ST=3 TYP=1
	200	HIRA	44 NS	2144.0E	0408.0	610.0D	135.0	40.0		MR
	245	LEAR	43 NS	2218.0	0240.8	756.0D	280.0			QL=6 ST=2 TYP=1
	410	LEAR	43 NS	2218.0	0251.8	756.0D	139.0			QL=6 ST=2 TYP=1
	1415	PALE	8 S	0014.6	0014.6	.7	47.0			QL=6 ST=2 TYP=3
	100	HIRA	46 C	0026.3	0026.6	.9	2300.0	330.0		
	9400	TYKW	47 GB	0032.0	0039.5	38.0	609.0	120.0		
	17000	NOBE	7 C	0044.6	0039.5	18.7	428.0			L
	3750	TYKW	45 C	0046.7	0046.7	20.0	270.0	115.0		
	2000	TYKW	45 C	0046.9	0046.9	20.0	120.0	45.0		
	2930	VORO	45 C	0035.0	0047.0	25.0	404.0			
	8800	PALE	49 GB	0035.3	0039.3	5.3	840.0			QL=6 ST=2 TYP=6
	4995	PALE	47 GB	0035.6	0040.6	44.0	330.0			QL=6 ST=2 TYP=5
	1000	TYKW	45 C	0036.0	0036.6	19.0	114.0	27.0		
	1000	TYKW		0036.0	0042.3		98.0			
	2695	PALE	47 GB	0036.1	0039.3	37.5	160.0			QL=6 ST=2 TYP=5
	15400	PALE	49 GB	0036.1	0039.5	33.2	560.0			QL=6 ST=2 TYP=6
	8800	LEAR	49 GB	0036.1	0039.5	30.7	530.0			QL=6 ST=2 TYP=6
	500	HIRA	48 C	0036.5	0038.4	58.0	460.0	80.0		WR
	4995	LEAR	47 GB	0036.5	0040.5	18.8	310.0			QL=6 ST=2 TYP=5
	15400	LEAR	49 GB	0036.8	0039.3	30.8	520.0			QL=6 ST=2 TYP=6
	2695	LEAR	47 GB	0036.8	0039.5	21.8	219.0			QL=2 ST=2 TYP=5
	1415	PALE	47 GB	0036.8	0040.0	16.7	100.0			QL=6 ST=2 TYP=5
	610	LEAR	47 GB	0037.0	0039.0	25.6	440.0			QL=6 ST=2 TYP=5
410	PALE	47 GB	0037.1	0037.3	.4	130.0			QL=6 ST=2 TYP=5	
610	PALE	47 GB	0037.1	0039.0	17.5	470.0			QL=6 ST=2 TYP=5	
1415	LEAR	47 GB	0037.8	0040.0	15.5	87.0			QL=6 ST=2 TYP=5	
410	LEAR	47 GB	0038.3	0039.1	29.3	68.0			QL=6 ST=2 TYP=5	
200	HIRA	46 C	0038.9	0040.0	3.8	360.0	56.0		0	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (W/m <sup>2</sup> Hz)		
26	245	PALE	47 GB	0039.6	0039.8	.9	460.0			QL=6 ST=2 TYP=5
	245	LEAR	47 GB	0039.6	0039.8	.5	390.0			QL=6 ST=2 TYP=5
	100	HIRA	8 S	0041.3	0041.7	.6	80.0			
	200	HIRA	27 RF	0042.8	0057.0	174.0	130.0	35.0		WR
	100	HIRA	27 RF	0046.0	0110.0	146.0	220.0	65.0		
	17000	NOBE	29 PBI	0053.3	0053.3	25.0	30.0			0
	3750	TYKW	30 PBI	0055.0		200.0	24.0	8.0		
	2000	TYKW	30 PBI	0055.0		90.0	12.0	5.0		
	1000	TYKW	30 PBI	0055.0		50.0	4.0	2.0		
	100	HIRA	46 C	0057.8	0057.9	1.0	800.0	470.0		
	3750	TYKW	5 S	0058.0	0058.2	1.0	3.0	0.7		
	2000	TYKW	5 S	0058.0	0058.2	0.6	9.0	3.0		
	1000	TYKW	5 S	0058.0	0058.3	1.0	4.0	1.5		
	3750	TYKW	5 S	0106.0	0106.3	1.5	2.0	0.7		
	1000	TYKW	45 C	0106.0	0107.3	2.0	2.0	0.5		
	9400	TYKW	30 PBI	0110.0		70.0	20.0	7.0		
	1000	TYKW	5 S	0118.4	0118.6	0.6	6.0	2.0		
	1000	TYKW	45 C	0124.0	0126.2	6.0	4.0	1.0		
	3750	TYKW	5 S	0125.0	0128.0	20.0	2.0	1.0		
	9400	TYKW	5 S	0157.3	0157.7	1.7	11.0	4.0		
	9400	TYKW	29 PBI	0159.0		15.0	3.0	1.5		
	3750	TYKW	21 GRF	0258.0	0329.0	70.0	3.0	1.5		
	3750	TYKW	5 S	0259.0	0259.7	1.00	3.0	1.00		
	9400	TYKW	45 C	0259.0	0300.3	2.0	6.0	2.0		
	9400	TYKW	21 GRF	0259.0	0320.0	80.0	6.0	3.0		RAIN
	500	HIRA	27 RF	0432.4	0444.7	22.0	5.0	3.0		WR
	9400	TYKW	20 GRF	0440.0	0449.0	35.0	4.0	2.0		RAIN
	3750	TYKW	20 GRF	0440.0	0450.0	35.0	3.0	1.5		
	3750	TYKW	21 GRF	0540.0	0546.0	75.0	2.0	1.0		
	3750	TYKW	5 S	0540.5	0541.3	2.5	2.0	0.7		
	9400	TYKW	45 C	0541.0	0543.7	5.0	10.0	3.0		
	9400	TYKW	29 PBI	0546.0		6.0	2.0	1.0		
	9400	TYKW	5 S	0600.6	0601.1	1.4	10.0	3.0		RAIN
	6100	KISV	4 S/F	0600.8	0601.2	1.0	14.0			
	9400	TYKW	30 PBI	0602.0		20.0	3.0	1.5		
	3750	TYKW	5 S	0603.0E	0603.4	4.00	3.0	1.00		
	500	HIRA	27 RF	0606.4	0616.4	50.0	17.0	8.0		WR
	4	LEAR	20 GRF	0608.3	0617.5	28.5	26.0			QL=6 ST=2 TYP=2
	610	LEAR	20 GRF	0609.8	0616.0	12.5	18.0			QL=6 ST=2 TYP=2
	9100	GORK	21 GRF	0610.9	0904.2	332.0	24.0			
	245	LEAR	20 GRF	0611.0	0615.0	49.0	38.0			QL=6 ST=2 TYP=2
	9400	TYKW	5 S	0611.3	0611.7	2.0	6.0	2.0		
	6100	KISV	1 S	0611.4	0611.7	1.0	4.0			
	2950	GORK	20 GRF	0645.1	0800.0	300.0	7.6			
	650	GORK	20 GRF	0722.0U	1001.3	263.0U	6.0			
	33	UPIC	2 S/F	0833.7	0833.8	.4				
	29	UPIC	3 S	0833.7	0833.8	.4				
	610	LEAR	8 S	0907.1	0907.3	.2	11.0			QL=6 ST=2 TYP=3
	810	KRAK	8 S	0924.6	0924.6	.2	6.0			
	6100	KISV	20 GRF	0949.5	0950.5	6.0	5.0			
6100	KISV	20 GRF	1036.0	1040.0	10.0	6.0				
204	IZMI	41 F	1046.8	1048.1	1.3U	230.0				
234	POTS	8 S	1102.4	1102.4	.3	360.0	120.0			
204	IZMI	5 S	1102.5	1102.6	.4	320.0	160.0			
430	KRAK	42 SER	1116.5	1139.2	55.0	10.0				
5200	BERN	3 S	1120.6	1121.6	5.0	15.0				
8400	BERN	3 S	1120.6	1121.6	5.0	36.0				
11800	BERN	3 S	1120.6	1121.6	5.0	26.0				
9500	POTS	3 S	1121.0	1121.5	2.5	23.0				
15400	ATHN	4 S/F	1121.0	1121.6	3.3	21.0			QL=6 ST=2 TYP=3	
8800	ATHN	4 S/F	1121.0	1121.6	3.3	21.0			QL=6 ST=3 TYP=3	
9100	GORK	1 S	1121.2	1121.7	1.3	22.0	10.0			
9100	GORK	1 S	1127.2	1127.7	1.0	8.0	4.0			
234	POTS	4 S/F	1311.4	1311.5	.3	190.0	15.0			
2800	OTTA	240AR	1425.0	1535.0	70.0	9.8	4.9			
4995	SGMR	4 S/F	1530.6	1531.3	7.5	48.0			QL=6 ST=2 TYP=3	
8800	SGMR	47 GB	1530.6	1531.3	12.0	139.0			QL=6 ST=2 TYP=5	
15400	SGMR	47 GB	1530.8	1531.3	13.8	73.0			QL=6 ST=2 TYP=5	
2600	OTTA	1 S	1530.8	1531.3	2.0	2.6	1.3			
2800	OTTA	20 GRF	1540.0	1545.0	25.0	2.2	1.4			
2800	OTTA	21 GRF	1615.0	1630.0	165.0	5.4	3.8			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean		
26	610	SGMR	47 GB	1617.3	1618.1	1.7	58.0			QL=6 ST=2 TYP=5
	245	SGMR	47 GB	1617.8	1618.1	1.5	430.0			QL=6 ST=2 TYP=5
	410	SGMR	49 GB	1617.8	1618.1	1.7	1899.0			QL=6 ST=2 TYP=6
	2800	OTTA	40 F	1618.0	1621.0	13.0	4.8			
	4995	SGMR	8 S	1628.6	1629.1	.9	20.0			QL=6 ST=2 TYP=3
	8800	SGMR	8 S	1628.8	1629.1	.5	16.0			QL=6 ST=2 TYP=3
	410	SGMR	47 GB	1641.5	1641.6	5.3	290.0			QL=6 ST=2 TYP=5
	245	SGMR	49 GB	1641.6	1641.6	.5	1500.0			QL=6 ST=2 TYP=6
	610	SGMR	47 GB	1641.6	1641.6	.7	60.0			QL=6 ST=2 TYP=5
	2800	OTTA	22 GRF	1723.0	1727.0	12.0	9.2	4.4		
	410	PALE	47 GB	1911.0	1911.1	.5	56.0			QL=5 ST=2 TYP=5
	610	PALE	8 S	1911.1	1911.3	.4	11.0			QL=5 ST=2 TYP=3
	245	PALE	47 GB	1911.1	1911.3	.5	180.0			QL=5 ST=2 TYP=5
	245	PALE	47 GB	2016.0	2016.1	.3	390.0			QL=5 ST=2 TYP=5
	245	SGMR	47 GB	2020.8	2021.0	.5	119.0			QL=6 ST=2 TYP=5
	610	SGMR	8 S	2023.0	2023.3	.6	11.0			QL=6 ST=2 TYP=3
	2800	OTTA	1 S	2024.0	2024.5	1.0	2.6	1.3		
	610	PALE	8 S	2024.1	2024.3	.5	26.0			QL=6 ST=2 TYP=3
	410	SGMR	47 GB	2024.3	2024.5	.5	139.0			QL=6 ST=2 TYP=5
	245	PALE	47 GB	2024.3	2024.5	.5	130.0			QL=6 ST=2 TYP=5
	410	PALE	47 GB	2024.3	2024.5	.5	350.0			QL=6 ST=2 TYP=5
	1415	PALE	8 S	2024.5	2024.6	.3	30.0			QL=6 ST=2 TYP=3
	245	PALE	47 GB	2042.1	2042.3	.5	219.0			QL=6 ST=2 TYP=5
	610	PALE	47 GB	2045.8	2045.8	.8	480.0			QL=6 ST=2 TYP=5
	610	SGMR	47 GB	2045.8	2046.0	.8	400.0			QL=6 ST=2 TYP=5
	2800	OTTA	3 S	2046.0	2046.5	1.2	15.8	7.0		
	4995	PALE	8 S	2046.1	2046.3	.5	18.0			QL=6 ST=2 TYP=3
	1415	PALE	8 S	2046.1	2046.3	.7	44.0			QL=6 ST=2 TYP=3
	2695	PALE	8 S	2046.1	2046.3	.5	22.0			QL=6 ST=2 TYP=3
	1415	SGMR	8 S	2046.1	2046.5	.7	45.0			QL=6 ST=2 TYP=3
	8800	SGMR	8 S	2046.3	2046.3	.5	21.0			QL=6 ST=2 TYP=3
	8800	PALE	8 S	2046.3	2046.3	.3	21.0			QL=6 ST=2 TYP=3
	4995	SGMR	8 S	2046.3	2046.5	.5	17.0			QL=6 ST=2 TYP=3
	2695	SGMR	8 S	2046.3	2046.5	.5	21.0			QL=6 ST=2 TYP=3
	245	PALE	47 GB	2053.3	2053.6	.5	139.0			QL=6 ST=2 TYP=5
	2695	PENT	20 GRF	2055.0	2110.0	30.0	2.8	1.4		
	8800	PALE	47 GB	2059.6	2100.3	4.7	88.0			QL=6 ST=2 TYP=5
	4995	PALE	8 S	2100.1	2100.3	.7	22.0			QL=6 ST=2 TYP=3
	15400	PALE	8 S	2100.6	2100.8	.4	30.0			QL=6 ST=2 TYP=3
	410	PALE	47 GB	2153.8	2153.8	.5	280.0			QL=6 ST=2 TYP=5
	9400	TYKW	45 C	2241.8	2242.1	2.5	13.0	3.0		
	9400	TYKW	5 S	2247.5	2248.1	1.5	6.0	2.0		
9400	TYKW	21 GRF	2301.0	2335.0	160.0	8.0	4.0			
9400	TYKW	5 S	2302.0	2305.0	15.0	8.0	3.0			
3750	TYKW	21 GRF	2302.0	2346.0	130.0	6.0	3.0			
3750	TYKW	5 S	2304.0	2307.5	12.0	3.0	1.0			
410	LEAR	8 S	2322.5	2322.6	.5	40.0			QL=6 ST=2 TYP=3	
245	LEAR	47 GB	2322.5	2322.8	.8	300.0			QL=6 ST=2 TYP=5	
3750	TYKW	5 S	2328.0	2329.1	5.0	5.0	1.0			
3750	TYKW	45 C	2335.0	2337.9	4.0	2.0	0.5			
9400	TYKW	5 S	2336.3	2336.6	1.0	3.0	1.0			
9400	TYKW	5 S	2339.0	2341.0	15.0	4.0	1.5			
500	HIRA	27 RF	2340.3	0014.4	80.0	40.0	20.0			
610	LEAR	47 GB	2340.8	2343.1	22.5	30.0			WR	
1000	TYKW	45 C	2341.0	0014.8	70.0	57.0	6.0			
200	HIRA	27 RF	2341.0	0019.0	39.0	34.0	11.0			
610	PALE	20 GRF	2341.3	2343.1	18.3	25.0			QL=6 ST=3 TYP=2	
245	LEAR	47 GB	2341.6	2342.8	6.2	90.0			QL=6 ST=2 TYP=5	
410	PALE	20 GRF	2342.6	2343.8	4.2	24.0			QL=6 ST=3 TYP=2	
410	LEAR	8 S	2344.0	2344.1	.3	32.0			QL=6 ST=2 TYP=3	
410	PALE	20 GRF	2359.6	0001.1	15.7	35.0			QL=6 ST=2 TYP=2	
610	PALE	47 GB	2359.6	0001.3	15.7	58.0			QL=6 ST=2 TYP=5	
27	208	VORO	44 NS	0000.0E		240.00	25.0			
	100	HIRA	43 NS	0320.0		220.00		64.0U		
	200	GORK	44 NS	0603.0E		352.00		30.0		
	100	GORK	44 NS	0606.0E		348.00		20.0		
	204	IZMI	44 NS	0700.0E		300.00	40.0			
	127	TORN	43 NS	0719.0		401.0		31.0		V=1, DISTURBED
	260	ONDR	44 NS	0752.0E		374.00	85.0D			
	536	ONDR	44 NS	0753.0E		373.00	60.0			

SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

JANUARY 1984

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Density Mean (2 Hz)	Int	Remarks
27	430	KRAK	44 NS	0800.0E	0921.0	170.0D	320.0			
	430	KRAK	43 NS	1107.0	1219.0D	175.0D	40.0	16.0D		
	245	SGMR	43 NS	1225.0	1438.1	500.0D	610.0			QL=6 ST=2 TYP=1
	410	SGMR	43 NS	1225.0	1608.3	500.0D	97.0			QL=6 ST=2 TYP=1
	610	SGMR	43 NS	1225.0	1610.1	500.0D	60.0			QL=6 ST=2 TYP=1
	100	HIRA	44 NS	2142.0E	2315.0	170.0D	40.0	10.0		
	200	HIRA	44 NS	2142.0E	2324.0	615.0D	70.0	20.0		WL
	610	LEAR	44 NS	2219.0E	2313.3	748.0D	77.0			QL=6 ST=2 TYP=1
	410	LEAR	44 NS	2219.0E	2315.5	748.0D	89.0			QL=6 ST=2 TYP=1
	610	LEAR	47 GB	0003.3	0004.1	27.0	65.0			QL=6 ST=3 TYP=5
	410	LEAR	47 GB	0003.3	0004.1	25.7	52.0			QL=6 ST=3 TYP=5
	4995	LEAR	8 S	0014.3	0014.6	.7	16.0			QL=6 ST=3 TYP=3
	2000	TYKW	5 S	0014.5	0014.8	1.0	8.0	2.0		
	3750	TYKW	5 S	0014.5	0014.8	1.5	5.0	2.0		
	1415	LEAR	8 S	0014.6	0014.6	.4	46.0			QL=6 ST=3 TYP=3
	410	PALE	47 GB	0015.3	0015.3	7.3	139.0			QL=6 ST=2 TYP=5
	610	PALE	47 GB	0015.3	0015.3	18.0	110.0			QL=6 ST=2 TYP=5
	3750	TYKW	29 PBI	0016.0		10.0	1.5	0.7		
	610	PALE	47 GB	0033.3	0033.5	13.8	110.0			QL=6 ST=2 TYP=5
	245	LEAR	47 GB	0053.8	0054.3	1.5	62.0			QL=6 ST=2 TYP=5
	410	LEAR	8 S	0053.8	0054.3	.7	13.0			QL=6 ST=2 TYP=5
	9400	TYKW	5 S	0107.0	0107.4	2.0	6.0	2.0		
	9400	TYKW	29 PBI	0109.0		8.0	2.0	1.0		
	9400	TYKW	5 S	0124.0	0125.5	15.0	3.0	1.0		
	245	LEAR	47 GB	0141.6	0144.3	3.4	88.0			QL=6 ST=2 TYP=5
	1415	LEAR	8 S	0142.3	0142.8	1.0	22.0			QL=6 ST=2 TYP=3
	1000	TYKW	45 C	0142.4	0142.7	1.5	10.0	1.5		
	610	PALE	47 GB	0142.5	0142.6	.3	100.0			QL=6 ST=2 TYP=5
	610	LEAR	47 GB	0142.5	0142.6	.3	139.0			QL=6 ST=2 TYP=5
	2000	TYKW	45 C	0142.5	0142.8	1.5	12.0	1.5		
	3750	TYKW	21 GRF	0200.0	0250.0	290.0	10.0	5.0		
	9400	TYKW	45 C	0211.0	0214.8	7.0	10.0	4.0		
	9400	TYKW	30 PBI	0218.0		136.0	4.0	2.0		
	2000	TYKW	21 GRF	0223.0	0258.0	160.0	2.0	1.0		
	9400	TYKW	45 C	0225.5	0226.0	9.5	17.0	6.0		
	9400	TYKW	29 PBI	0235.0		15.0	4.0	2.0		
	245	PALE	47 GB	0240.6	0240.8	.5	320.0			QL=6 ST=2 TYP=5
	9400	TYKW	45 C	0258.0	0328.7	60.0	32.0	14.0		
	3750	TYKW	45 C	0303.0E	0328.5	57.0D	18.0	9.0D		
	2000	TYKW	20 GRF	0333.0	0345.0	45.0	2.0	1.0		
	410	PALE	47 GB	0336.6	0336.8	.7	139.0			QL=6 ST=2 TYP=5
	9400	TYKW	29 PBI	0358.0		35.0	10.0	5.0		
	3750	TYKW	29 PBI	0400.0		30.0	6.0	3.0		
	3750	TYKW	21 GRF	0440.0	0455.0	120.0	3.0	1.5		
	9400	TYKW	45 C	0441.0	0442.1	3.0	15.0	6.0		
	9400	TYKW	29 PBI	0444.0		6.0	4.0	2.0		
	3750	TYKW	45 C	0451.0	0452.4	3.0	3.0	1.0		
	9400	TYKW	5 S	0451.0	0453.0	10.0	3.0	1.5		
	9400	TYKW	5 S	0510.0	0514.0	12.0	3.0	1.0		
	9400	TYKW	21 GRF	0524.0	0532.0	35.0	4.0	2.0		
3750	TYKW	20 GRF	0525.0	0532.0	50.0	5.0	2.0			
2000	TYKW	20 GRF	0526.0	0535.0	40.0	3.0	1.5			
9400	TYKW	5 S	0543.0	0544.0	9.0	3.0	1.0			
9400	TYKW	5 S	0600.0	0602.0	12.0	3.0	1.0			
3100	CRIM	25 R	0606.0	0654.0	48.0	9.0	3.0			
9100	GORK	23 GRF	0618.0U	0712.0	275.0U	70.0				
2950	GORK	21 GRF	0631.9	0712.0	200.0	15.0				
650	GORK	21 GRF	0645.0U	0923.3	315.0D	7.0				
9400	TYKW	47 GB	0651.0	0657.2	12.0	690.0	180.0			
8800	LEAR	49 GB	0652.3	0657.1	25.0	690.0			QL=6 ST=2 TYP=6	
3750	TYKW	45 C	0653.0	0657.3	20.0	203.0	40.0			
2000	TYKW	45 C	0653.0	0657.4	21.0	89.0	17.0			
9100	GORK	46 C	0653.2U	0655.5	11.0U	250.0				
9100	GORK		0653.2U	0657.2		660.0				
8800	ATHN	49 GB	0653.3	0657.1	18.7	540.0			QL=6 ST=3 TYP=6	
6100	KISV	49 GB	0653.5		8.0	160.0D				
6100	KISV		0653.5	0658.2		240.0				
6100	KISV		0653.5	0659.2		190.0				
4995	ATHN	47 GB	0653.6	0657.1	19.5	350.0			QL=6 ST=3 TYP=5	
2695	ATHN	47 GB	0653.6	0657.3	12.5	57.0			QL=2 ST=2 TYP=5	
1415	ATHN	4 S/F	0653.6	0657.3	13.9	46.0			QL=6 ST=3 TYP=3	

SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

JANUARY 1984

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (2 Hz)		
27	2950	GORK	45 C	0653.9	0657.4	7.7	33.0			
	2950	GORK		0653.9	0659.4		18.0			
	15000	KISV	47 GB	0654.0		4.0	490.00			
	3100	CRIM	3 S	0654.0	0657.4	9.0	195.0	65.0		
	4995	LEAR	47 GB	0654.1	0657.1	23.2	310.0			QL=6 ST=2 TYP=5
	17000	NOBE	7 C	0654.2	0657.1	15.0	439.0			3
	15400	LEAR	47 GB	0654.6	0657.1	21.5	490.0			QL=6 ST=2 TYP=5
	950	GORK	23 GRF	0654.7	0706.0	35.8	6.5			
	1000	TYKW	45 C	0655.0	0659.0	20.0	53.0	9.0		
	2695	LEAR	47 GB	0655.1	0657.1	6.0	139.0			QL=6 ST=2 TYP=5
	1415	LEAR	47 GB	0655.3	0657.0	7.5	93.0			QL=6 ST=2 TYP=5
	650	GORK	4 S/F	0655.7	0659.3	3.2	24.0			
	950	GORK	4 S/F	0655.8	0657.6	4.7	17.5			
	610	LEAR	8 S	0656.6	0656.6	.2	23.0			QL=6 ST=2 TYP=3
	15000	KISV	29 PBI	0658.0	0658.0	55.0	360.0			
	6100	KISV	29 PBI	0702.0	0702.0	50.0	45.0			
	9400	TYKW	29 PBI	0703.0		20.00	47.0	37.00		
	3100	CRIM	29 PBI	0703.0	0703.0	67.0	22.0	7.0		
	6100	KISV	3 S	0710.0	0712.0	4.0	12.0			
	3750	TYKW	29 PBI	0713.0		20.0	20.0	10.0		
	2000	TYKW	29 PBI	0714.0		12.00	7.0	5.00		
	9100	GORK	1 S	0820.2	0820.6		7.0	3.0		
	9100	GORK	1 S	0824.7	0825.1	1.0	6.0	3.0		
	33	UPIC	3 S	0844.6	0844.7	.6				
	29	UPIC	3 S	0844.7	0844.9	.6				
	33	UPIC	1 S	0903.5	0903.6	.3				
	29	UPIC	1 S	0903.6	0903.9	.5				
	33	UPIC	42 SER	1014.6	1039.9	68.5				
	29	UPIC	42 SER	1014.7	1039.7	68.6				
	6100	KISV	3 S	1030.6	1030.8	1.0	6.0			
	234	POTS	4 S/F	1036.8	1036.9	.8	425.0	150.0		
	33	UPIC	1 S	1233.5	1233.5	.3				
	29	UPIC	1 S	1233.6	1233.7	.2				
	430	KRAK	46 C	1241.5	1244.5	17.0	80.0	36.0		
	234	POTS	4 S/F	1248.0	1248.8	1.7	470.0	10.0		
	8400	BERN	41 F	1249.00	1251.8	130.00	66.00			
	11800	BERN	41 F	1249.00	1251.8	130.00	42.00			
	5200	BERN	41 F	1249.00	1251.9	130.00	39.00			
	9500	POTS	4 S/F	1249.5	1251.5	7.5	58.0			
	8800	ATHN	47 GB	1250.1	1252.0	4.9	54.0			QL=6 ST=2 TYP=5
	8800	SGMR	47 GB	1250.3	1251.8	12.0	81.0			QL=6 ST=2 TYP=5
	4995	ATHN	4 S/F	1250.5	1252.0	4.5	17.0			QL=6 ST=2 TYP=3
4995	SGMR	4 S/F	1251.0	1251.8	3.3	27.0			QL=6 ST=2 TYP=3	
15400	SGMR	8 S	1251.1	1251.8	1.2	31.0			QL=6 ST=2 TYP=3	
33	UPIC	2 S/F	1303.0	1303.0	.7					
29	UPIC	2 S/F	1303.1	1303.2	.5					
234	POTS	8 S	1321.5	1321.5	.3	900.0	300.0			
8800	ATHN	8 S	1344.3	1344.6	1.0	24.0			QL=6 ST=2 TYP=3	
4995	ATHN	8 S	1344.3	1344.6	1.0	7.0			QL=6 ST=2 TYP=3	
9500	POTS	4 S/F	1344.5	1344.8	1.8	28.0				
8800	SGMR	8 S	1344.5	1344.8	.8	29.0			QL=6 ST=2 TYP=3	
15400	SGMR	8 S	1344.6	1344.8	.7	23.0			QL=6 ST=2 TYP=3	
2800	OTTA	20 GRF	1355.0	1430.0	65.0	4.2	2.1			
8800	ATHN	4 S/F	1402.5	1403.5	3.3	33.0			QL=6 ST=2 TYP=3	
4995	ATHN	4 S/F	1402.5	1403.5	3.3	10.0			QL=6 ST=2 TYP=3	
9500	POTS	4 S/F	1402.7	1403.5	2.8	32.0				
4995	SGMR	8 S	1403.1	1403.6	.9	15.0			QL=6 ST=2 TYP=3	
15400	SGMR	8 S	1403.1	1403.6	.9	15.0			QL=6 ST=2 TYP=3	
8800	SGMR	4 S/F	1403.1	1403.6	2.5	43.0			QL=6 ST=2 TYP=3	
33	UPIC	42 SER	1411.0	1421.2	12.8					
29	UPIC	42 SER	1411.1	1421.3	13.2					
4995	ATHN	4 S/F	1444.0	1445.3	8.5	26.0			QL=6 ST=2 TYP=3	
8800	ATHN	47 GB	1444.0	1445.3	5.1	67.0			QL=6 ST=2 TYP=5	
8800	SGMR	47 GB	1444.1	1445.3	5.7	99.0			QL=6 ST=2 TYP=5	
4995	SGMR	8 S	1444.3	1445.3	1.7	30.0			QL=6 ST=2 TYP=3	
15400	SGMR	8 S	1444.3	1445.3	1.7	15.0			QL=6 ST=2 TYP=3	
2800	OTTA	240 R	1550.0	1630.0	40.0	3.4	1.7			
4995	SGMR	8 S	1723.8	1724.6	1.2	20.0			QL=6 ST=2 TYP=3	
8800	SGMR	8 S	1724.1	1724.6	.9	18.0			QL=6 ST=2 TYP=3	
2695	PALE	8 S	1807.3	1807.5	.5	17.0			QL=5 ST=2 TYP=3	
4995	PALE	4 S/F	1807.3	1807.5	3.7	24.0			QL=5 ST=2 TYP=3	

SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

JANUARY 1984

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean			
27	15400	PALE	8 S	1807.3	1807.6	.8	38.0			QL=5 ST=2 TYP=3	
	1415	PALE	8 S	1807.3	1807.6	.3	13.0			QL=5 ST=2 TYP=3	
	610	PALE	4 S/F	1807.3	1808.3	3.7	20.0			QL=5 ST=2 TYP=3	
	8800	PALE	47 GB	1807.3	1808.8	5.8	219.0			QL=5 ST=2 TYP=5	
	2800	OTTA	20 GRF	1840.0	1845.0	30.0	3.6	1.8			
	245	PALE	47 GB	1853.6	1853.6	.2	200.0			QL=6 ST=2 TYP=5	
	8800	PALE	47 GB	1902.8	1903.1	2.2	91.0			QL=6 ST=2 TYP=5	
	8800	SGMR	47 GB	1902.8	1903.3	1.8	87.0			QL=6 ST=2 TYP=5	
	4995	PALE	8 S	1903.2	1903.5	.3	13.0			QL=6 ST=2 TYP=3	
	245	PALE	47 GB	1935.0	1935.1	.5	55.0			QL=6 ST=2 TYP=5	
	410	PALE	47 GB	1935.0	1935.1	.5	88.0			QL=6 ST=2 TYP=5	
	2695	PENT	22 GRF	2035.0	2140.0	110.0	5.6	2.8			
	410	PALE	8 S	2230.8	2231.0	.5	47.0			QL=6 ST=2 TYP=3	
	9400	TYKW	45 C	2241.0	2245.9	15.0	20.0	6.0			
	500	HIRA	27 RF	2255.6	2313.7	61.0	25.0	10.0			WL
	9400	TYKW	45 C	2257.0	2303.3	15.0	9.0	3.0			
	9400	TYKW	5 S	2315.0	2315.6	6.0	5.0	1.5			
	9400	TYKW	45 C	2338.0	2350.3	25.0	10.0	3.0			
245	PALE	47 GB	2342.3	2342.3	.3	410.0				QL=6 ST=2 TYP=5	
28	108	VORO	44 NS	0000.0E		240.00		25.0			
	200	GORK	44 NS	0536.0E		367.00		30.0			
	100	GORK	44 NS	0536.0E		224.00		5.0			
	204	IZMI	44 NS	0700.0E		300.00	70.0				
	127	TORN	43 NS	0726.0		394.0		1.0			V=1
	260	ONDR	44 NS	0824.0E		340.00	68.0				
	536	ONDR	44 NS	0833.0E		331.00	16.0				
	245	SGMR	44 NS	1225.0E	1247.5	22.50	30.0				QL=6 ST=3 TYP=1
	410	SGMR	43 NS	1415.0	2058.8	432.00	119.0				QL=6 ST=2 TYP=1
	245	PALE	43 NS	1734.0	2104.1	616.00	740.0				QL=6 ST=2 TYP=1
	410	PALE	43 NS	1734.0	2137.8	616.00	620.0				QL=6 ST=2 TYP=1
	100	HIRA	44 NS	2141.0E	0540.0	615.00	45.0	15.0			
	200	HIRA	44 NS	2141.0E	0547.0	615.00	70.0	40.0			WL
	410	LEAR	43 NS	2220.0	2308.0	754.00	58.0				QL=6 ST=2 TYP=1
	245	LEAR	43 NS	2320.0	0456.8	694.00	700.0				QL=6 ST=2 TYP=1
	9400	TYKW	21 GRF	0010.0	0016.0	170.0	11.0	4.0			
	3750	TYKW	21 GRF	0010.0	0110.0	180.0	9.0	5.0			
	3750	TYKW	5 S	0012.0	0017.0	20.0	3.0	1.5			
	9400	TYKW	45 C	0020.0	0023.3	9.0	13.0	4.0			
	3750	TYKW	5 S	0036.0	0046.0	22.0	4.0	2.0			
	9400	TYKW	45 C	0040.0	0041.4	9.0	6.0	2.0			
	9400	TYKW	5 S	0051.5	0052.1	1.5	3.0	1.0			
	9400	TYKW	5 S	0109.0	0110.2	4.0	3.0	1.0			
	100	HIRA	46 C	0117.2	0117.6	1.4	82.0	31.0			
	9400	TYKW	5 S	0118.0	0119.4	5.0	3.0	1.0			
	9400	TYKW	5 S	0138.9	0139.1	0.7	4.0	1.5			
	9400	TYKW	5 S	0142.3	0142.8	1.5	6.0	2.0			
	9400	TYKW	45 C	0150.0	0153.8	14.0	12.0	3.0			
	500	HIRA	27 RF	0151.8	0218.0	65.0	17.0	10.0			WL
	3750	TYKW	21 GRF	0153.0	0225.0	65.0	3.0	1.5			
	15400	LEAR	8 S	0159.6	0159.6	.2	16.0				QL=6 ST=2 TYP=3
	9400	TYKW	5 S	0206.0	0207.2	4.0	4.0	1.5			
	9400	TYKW	5 S	0223.0	0225.5	10.0	3.0	1.0			
	2000	TYKW	20 GRF	0223.0	0234.0	30.0	1.5	0.7			
	3750	TYKW	5 S	0233.0	0239.0	20.0	2.0	1.0			
	9400	TYKW	5 S	0303.0	0304.0U	7.0	6.0	2.00			
8800	LEAR	4 S/F	0303.1	0304.6	4.2	26.0				QL=6 ST=2 TYP=3	
8800	LEAR	4 S/F	0311.5	0311.8	2.6	48.0				QL=6 ST=2 TYP=3	
9400	TYKW	5 S	0311.5	0311.9	1.5	48.0	13.0				
3750	TYKW	5 S	0311.5	0312.0	3.5	3.0	1.0				
15400	LEAR	8 S	0311.5	0312.6	1.6	39.0				QL=6 ST=2 TYP=3	
4995	LEAR	8 S	0311.6	0311.8	.5	13.0				QL=6 ST=2 TYP=3	
9400	TYKW	29 PBI	0313.0		6.0	4.0	2.0				
3750	TYKW	5 S	0326.0	0330.0	18.0	1.5	0.7				
9400	TYKW	45 C	0329.0	0338.4	14.0	5.0	1.5				
9400	TYKW	5 S	0345.5	0346.0	1.5	3.0	1.0				
9400	TYKW	45 C	0359.0	0406.7	16.0	27.0	8.0				
3750	TYKW	5 S	0402.0	0407.0	15.0	2.0	1.0				
8800	LEAR	4 S/F	0403.1	0412.0	14.9	29.0				QL=6 ST=2 TYP=3	
9400	TYKW	29 PBI	0415.0		15.0U	6.0	3.0U			INTERFERENCE	
9400	TYKW	45 C	0439.5	0440.0	9.0	4.0	1.5				

S O L A R   R A D I O   E M I S S I O N  
O U T S T A N D I N G   O C C U R R E N C E S

19  
Jan 84

J A N U A R Y   1 9 8 4

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> w/m <sup>2</sup> Hz)	Mean		
28	2000	TYKW	20 GRF	0450.0	0511.0	80.0	2.0	1.0		
	3750	TYKW	45 C	0450.0	0513.2	40.0	11.0	6.0		
	2695	LEAR	4 S/F	0454.6	0457.5	4.0	8.0			QL=2 ST=3 TYP=3
	4995	LEAR	4 S/F	0454.8	0456.3	3.3	8.0			QL=6 ST=2 TYP=3
	9400	TYKW	45 C	0455.0	0512.8	20.0	10.0	5.0		
	8800	LEAR	4 S/F	0455.6	0456.3	2.7	7.0			QL=6 ST=2 TYP=3
	9400	TYKW	30 PBI	0515.0		65.0	6.0	3.0		
	3750	TYKW	29 PBI	0530.0		45.0	5.0	2.0		
	9400	TYKW	45 C	0553.0	0558.0	17.0	25.0	6.00		
	8800	LEAR	4 S/F	0557.1	0557.8	2.9	34.0			QL=6 ST=2 TYP=3
	9100	GORK	23 GRF	0608.5	0741.0	336.0	40.0			
	200	HIRA	41 F	0623.7	0624.7	2.4	115.0			0
	9400	TYKW	5 S	0624.0	0626.8	5.0	10.0	4.0		
	6100	KISV	4 S/F	0625.0	0627.0	10.0	15.0			
	3750	TYKW	5 S	0625.0	0627.0	11.0	2.0	1.0		
	9100	GORK	1 S	0626.1	0626.6	1.3	8.0	4.0		
	9400	TYKW	29 PBI	0629.0		10.0	4.0	2.0		
	650	GORK	20 GRF	0640.7U	0756.6	304.00	6.0			
	3750	TYKW	45 C	0653.0	0653.9	1.5	4.0	1.0		
	6100	KISV	28 PRE	0710.0	0714.0	4.0	8.0			
	9400	TYKW	45 C	0712.0	0714.8	8.0	112.0	30.0		
	8800	ATHN	47 GB	0712.5	0714.8	7.0	119.0			QL=6 ST=2 TYP=5
	9100	GORK	46 C	0713.8	0714.4	5.8	108.0			
	8800	LEAR	47 GB	0713.8	0714.8	6.0	119.0			QL=6 ST=2 TYP=5
	9100	GORK		0713.8	0715.3		74.0			
	6100	KISV		0714.0	0714.8		45.0			
	3750	TYKW	5 S	0714.0	0715.7	10.0	7.0	2.5		
	6100	KISV	45 C	0714.0	0715.7	4.0	57.0			
	4995	ATHN	4 S/F	0714.3	0715.6	5.2	31.0			QL=6 ST=2 TYP=3
	17000	NOBE	1 S	0714.5	0714.8	2.0	32.0			L
	15000	KISV	4 S/F	0714.5	0714.8	2.0	56.0			
	15400	LEAR	4 S/F	0714.6	0714.8	2.2	47.0			QL=6 ST=2 TYP=3
	4995	LEAR	4 S/F	0714.6	0715.6	5.0	34.0			QL=6 ST=2 TYP=3
	2695	LEAR	4 S/F	0714.6	0715.6	3.0	10.0			QL=2 ST=2 TYP=3
	245	LEAR	47 GB	0714.8E	0715.0	1.30	219.0			QL=6 ST=2 TYP=5
	2950	GORK	1 S	0715.0	0715.5	1.1	3.5	1.5		
	6100	KISV	29 PBI	0718.0	0718.0	40.0	18.0			
	9400	TYKW	29 PBI	0720.0		5.00	18.0	13.00		
	8800	LEAR	4 S/F	0729.8	0732.0	12.3	20.0			QL=6 ST=3 TYP=3
	9100	GORK	45 C	0732.6	0733.6	6.9	15.0			
	9100	GORK		0732.6	0737.9		14.0			
	29	UPIC	3 S	0816.4	0816.6	.6				
	33	UPIC	1 S	0816.5	0816.6	.7				
	2950	GORK	20 GRF	0822.6	0921.0	120.0	7.7			
	234	POTS	4 S/F	0822.8	0822.9	1.3	660.0	160.0		
	6100	KISV	20 GRF	0846.0	0851.0	15.0	18.0			
	430	KRAK	42 SER	0852.4	1000.0	102.0	24.0			
	9100	GORK	1 S	0917.7	0921.0	4.9	11.0	5.0		
	1470	POTS	20 GRF	0918.0	0920.0	17.0	3.0			
	15000	KISV	3 S	0918.0	0920.0	5.0	11.0			
	6100	KISV	20 GRF	0919.0	0921.0	4.0	7.0			
	234	POTS	8 S	0946.6	0946.7	.5	130.0	40.0		
	810	KRAK	8 S	1050.3	1050.5	.4	90.0			
	9100	GORK	1 S	1107.1	1107.6	1.5	6.0	3.0		
	430	KRAK	40 F	1133.8	1151.5	21.5	26.0			
	234	POTS	8 S	1241.4	1241.4	.5	825.0	275.0		
	430	KRAK	2 S/F	1311.5	1312.0	1.5	11.00	3.0		
	2800	OTTA	21 GRF	1335.0	1410.0	200.0	10.6	5.3		
	2800	OTTA	20 GRF	1533.0	1535.0	60.0	3.6	2.0		
	2800	OTTA	20 GRF	1800.0	1830.0	40.0	2.4	1.2		
	2800	OTTA	22 GRF	1905.0	2010.0	230.0	12.0	5.0		
	8800	PALE	47 GB	2153.8	2154.3	4.3	420.0			QL=6 ST=2 TYP=5
	15400	PALE	47 GB	2154.1	2154.3	2.4	410.0			QL=6 ST=2 TYP=5
	4995	PALE	4 S/F	2154.1	2154.6	2.2	40.0			QL=6 ST=2 TYP=3
	9400	TYKW	5 S	2316.0	2316.8	3.0	3.0	1.0		
	9400	TYKW	5 S	2328.5	2329.3	2.5	3.0	1.0		
	9400	TYKW	5 S	2339.5	2339.7	0.6	3.0	1.0		
	4995	LEAR	4 S/F	2342.1	2343.8	10.0	1.0			QL=6 ST=2 TYP=3
	8800	LEAR	4 S/F	2342.1	2343.8	7.7	27.0			QL=6 ST=2 TYP=3
	9400	TYKW	45 C	2342.5	2343.7	4.5	30.0	8.0		
	8800	PALE	8 S	2343.1	2343.6	1.2	47.0			QL=6 ST=2 TYP=3



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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10^-22 w/m^2 Hz)	Mean		
28	17000	NOBE	20 GRF	2345.7	2348.8	40.0	15.0		0	
	9400	TYKW	29 PBI	2347.0		5.0	4.0	2.0		
	3750	TYKW	5 S	2357.0	0008.0	25.0	2.0	1.0		
	9400	TYKW	5 S	2358.5	2359.2	5.5	6.0	2.0		
29	208	VORO	44 NS	0000.0E		240.00		25.0		
	100	GORK	44 NS	0548.0E		355.00		20.0		
	200	GORK	44 NS	0548.0E		355.00		40.0		
	127	TORN	44 NS	0700.0E		160.00		14.0		V=1
	204	IZMI	44 NS	0700.0E		300.00	85.0			
	536	ONDR	44 NS	0835.0E		315.00	19.0			
	260	ONDR	44 NS	0835.0E		325.00	73.0			
	430	KRAK	43 NS	1110.0	1138.0	180.00	16.0			
	245	SGMR	43 NS	1224.0	1513.3	544.00	580.0			QL=6 ST=2 TYP=1
	245	PALE	43 NS	1730.0	2230.5	633.00	390.0			QL=6 ST=3 TYP=1
	200	HIRA	44 NS	2140.0E	2234.0	615.00	100.0	55.0		W.
	100	HIRA	44 NS	2140.0E	2330.0	615.00	750.0	190.0		
	410	LEAR	43 NS	2220.0	0358.8	754.00	63.0			QL=6 ST=2 TYP=1
	610	LEAR	44 NS	2220.0E	2325.8	550.00	26.0			QL=6 ST=2 TYP=1
	245	LEAR	43 NS	2220.0	2348.6	754.00	640.0			QL=6 ST=2 TYP=1
	4995	LEAR	4 S/F	0004.5	0009.1	6.6	9.0			QL=6 ST=2 TYP=3
	8800	LEAR	4 S/F	0006.8	0007.1	5.5	16.0			QL=6 ST=2 TYP=3
	9400	TYKW	5 S	0007.0E	0007.3	4.00	6.0	2.00		
	9400	TYKW	5 S	0026.5	0027.3	2.5	4.0	1.5		
	3750	TYKW	21 GRF	0030.0	0110.0	115.00	5.0	2.5		
	9400	TYKW	5 S	0039.8	0039.9	0.6	12.0	3.0		
	9400	TYKW	5 S	0047.0	0047.5	3.0	10.0	2.0		
	8800	LEAR	4 S/F	0047.0	0047.3	2.1	11.0			QL=6 ST=2 TYP=3
	15400	LEAR	8 S	0047.0	0047.3	.8	19.0			QL=6 ST=2 TYP=3
	610	LEAR	4 S/F	0051.3	0055.6	6.5	11.0			QL=6 ST=2 TYP=3
	410	LEAR	4 S/F	0053.1	0055.6	5.0	9.0			QL=6 ST=2 TYP=3
	1000	TYKW	45 C	0055.0	0055.7	3.0	3.0	1.0		
	9400	TYKW	45 C	0055.0	0101.0	10.0	10.0	4.0		
	9400	TYKW	30 PBI	0105.0		40.0	4.0	2.0		
	9400	TYKW	45 C	0115.0	0120.6	9.0	15.0	3.0		
	8800	LEAR	4 S/F	0115.8	0120.3	8.5	11.0			QL=6 ST=2 TYP=3
	15400	LEAR	4 S/F	0116.8	0120.6	5.5	19.0			QL=6 ST=2 TYP=3
	17000	NOBE	1 S	0120.4	0120.6	1.0	15.0			L
	9400	TYKW	30 PBI	0124.0		13.0	4.0	2.0		
	8800	LEAR	4 S/F	0127.0	0128.1	5.3	45.0			QL=6 ST=2 TYP=3
	4995	LEAR	4 S/F	0127.5	0128.1	4.6	11.0			QL=6 ST=2 TYP=3
	9400	TYKW	5 S	0127.5	0128.2	3.5	39.0	8.0		
	8800	PALE	47 GB	0127.8	0128.1	.8	52.0			QL=6 ST=2 TYP=5
	15400	LEAR	4 S/F	0127.8	0128.1	4.0	10.0			QL=6 ST=2 TYP=3
	3750	TYKW	5 S	0128.0	0128.5	3.0	2.0	0.7		
	3750	TYKW	5 S	0135.0	0135.9	3.0	3.0	1.0		
9400	TYKW	5 S	0138.0	0138.8	5.0	3.0	1.0			
9400	TYKW	21 GRF	0148.0	0158.0	35.0	6.0	3.0			
9400	TYKW	45 C	0148.5	0149.2	1.5	10.0	2.0			
3750	TYKW	5 S	0200.0	0210.0	25.0	2.0	1.0			
1000	TYKW	45 C	0228.5	0229.5	3.5	3.0	0.7			
2000	TYKW	5 S	0229.2	0229.7	1.5	1.0	0.3			
3750	TYKW	21 GRF	0240.0	0405.0	260.0	8.0	4.0			
9400	TYKW	5 S	0251.0	0251.4	4.0	3.0	1.0			
9400	TYKW	5 S	0300.5	0300.7	2.0	9.0	3.0			
2695	PALE	47 GB	0311.0	0311.1	.5	52.0			QL=6 ST=2 TYP=5	
9400	TYKW	20 GRF	0320.0	0325.0	65.0	4.0	2.0			
2840	PEKG	1 S	0458.0	0459.8	6.0	8.2	2.5			
3750	TYKW	5 S	0458.5	0459.8	2.5	9.0	3.0			
9400	TYKW	5 S	0459.0	0459.6	2.0	4.0	1.5			
2000	TYKW	45 C	0459.0	0459.7	2.0	6.0	1.0			
3750	TYKW	29 PBI	0501.0		20.0	2.0	1.0			
9400	TYKW	45 C	0513.5	0515.4	6.0	9.0	2.0			
8800	LEAR	8 S	0513.8	0515.3	1.7	13.0			QL=6 ST=2 TYP=3	
2840	PEKG	1 S	0552.0	0553.3	4.0	9.2	2.9			
9400	TYKW	45 C	0552.5	0553.1	6.0	19.0	4.0			
3750	TYKW	5 S	0552.5	0553.2	2.5	12.0	4.0			
8800	LEAR	8 S	0552.8	0553.0	.5	22.0			QL=6 ST=2 TYP=3	
4995	LEAR	8 S	0552.8	0553.0	.5	18.0			QL=6 ST=2 TYP=3	
2000	TYKW	5 S	0553.0	0553.2	1.0	2.0	0.7			
2695	LEAR	8 S	0553.0	0553.1	.3	15.0			QL=6 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> w/m <sup>2</sup> Hz)	Mean (10 <sup>-22</sup> w/m <sup>2</sup> Hz)		
29	3750	TYKW	29 PBI	0555.0		10.0	2.0	1.0		
	9100	GORK	21 GRF	0612.0	0815.0	533.00	22.0			
	650	GORK	20 GRF	0640.4	0649.7	49.1	3.0			
	6100	KISV	1 S	0648.0	0648.6	1.0	5.0			
	9100	GORK	1 S	0659.7	0700.1	.9	6.0	3.0		
	2950	GORK	20 GRF	0719.2	0842.0	204.0	4.6			
	245	LEAR	49 GB	0734.8	0735.1	.5	1500.0			QL=6 ST=2 TYP=6
	410	LEAR	8 S	0735.0	0735.1	.5	36.0			QL=6 ST=2 TYP=3
	234	POTS	4 S/F	0735.0	0735.1	.5	8000.0	2500.0		
	6100	KISV	1 S	0740.3	0741.2	2.0	6.0			
	650	GORK	20 GRF	0743.1	0909.3	242.00	5.0			
	430	KRAK	27 RF	0924.0	0949.5	50.5	11.0	2.0		
	29	UPIC	42 SER	1055.2	1122.9	100.8				
	33	UPIC	42 SER	1055.2	1232.8	99.2				
	9500	POTS	3 S	1205.0	1205.5	1.5	17.0			
	8800	ATHN	47 GB	1302.6E	1311.6	27.90	77.0			QL=5 ST=3 TYP=5
	2695	SGMR	8 S	1305.1	1305.3	.5	15.0			QL=6 ST=2 TYP=3
	8800	SGMR	8 S	1305.1	1305.3	.5	25.0			QL=6 ST=2 TYP=3
	15400	SGMR	8 S	1305.1	1305.3	.5	21.0			QL=6 ST=2 TYP=3
	4995	SGMR	8 S	1305.1	1305.3	.5	19.0			QL=6 ST=2 TYP=3
	2800	OTTA	20 GRF	1420.0	1430.0	35.0	3.4	2.0		
	2800	OTTA	1 S	1804.0	1805.0	5.0	2.8	1.4		
	1415	SGMR	8 S	1805.6	1806.0	1.2	40.0			QL=6 ST=2 TYP=3
	2695	PENT	22 GRF	2030.0	2130.0	100.0	4.2	1.8		
	9400	TYKW	21 GRF	2220.0	2230.0	75.0	12.0	6.0		
	3750	TYKW	20 GRF	2240.0	2244.0	35.0	6.0	3.0		
	>400	TYKW	45 C	2241.0	2244.0	11.0	19.0	10.0		
	9400	TYKW	30 PBI	2252.0		40.0	4.0	2.0		
	8800	LEAR	8 S	2312.6	2312.8	.7	11.0			QL=6 ST=2 TYP=3
9400	TYKW	5 S	2312.7	2313.0	1.5	11.0	3.0			
15400	LEAR	47 GB	2312.8	2312.8	1.3	62.0			QL=6 ST=2 TYP=5	
15400	PALE	8 S	2312.8	2312.8	.5	40.0			QL=6 ST=2 TYP=3	
17000	NOBE	1 S	2312.8	2313.0	1.0	37.0			L	
9400	TYKW	5 S	2320.7	2321.2	1.0	6.0	2.0			
245	PALE	49 GB	2348.6	2348.8	1.0	780.0			QL=6 ST=2 TYP=6	
30	208	VORO	44 NS	0060.0E		240.00		30.0		
	200	GORK	44 NS	0612.0E		349.00		40.0		
	127	TORN	44 NS	0700.0E		110.00		428.0		V=1
	204	IZMI	44 NS	0700.0E		300.00	50.0			
	260	ONDR	44 NS	0754.0E		386.00	57.0			
	536	ONDR	44 NS	0755.0E		325.00	17.0			
	808	ONDR	44 NS	0755.0E		327.00	20.0			
	410	SGMR	43 NS	1223.0	1457.3	547.00	51.0			QL=6 ST=2 TYP=1
	245	SGMR	43 NS	1223.0	2107.8	547.00	260.0			QL=6 ST=2 TYP=1
	430	KRAK	43 NS	1258.5	1316.5	58.00	17.0			
	245	PALE	43 NS	1737.0	2107.8	618.00	160.0			QL=6 ST=2 TYP=1
	100	HIRA	44 NS	2140.0E	0626.0	615.00	65.0	10.0		
	200	HIRA	44 NS	2140.0E	0630.0	615.00	40.0	20.0		WR
	245	LEAR	43 NS	2221.0	0250.8	752.00	580.0			QL=6 ST=2 TYP=1
	410	LEAR	43 NS	2221.0	2325.1	752.00	51.0			QL=6 ST=2 TYP=1
	3750	TYKW	20 GRF	0050.0	0111.0	50.0	4.0	2.0		
	500	HIRA	45 C	0050.3	0050.5	1.5	400.0	130.0		WL
	610	LEAR	47 GB	0050.6E	0050.8	1.40	160.0			QL=6 ST=2 TYP=5
	610	PALE	47 GB	0050.6	0050.8	1.2	150.0			QL=6 ST=2 TYP=5
	410	LEAR	47 GB	0051.5E	0051.6	.50	350.0			QL=6 ST=2 TYP=5
	2000	TYKW	5 S	0102.3	0102.7	1.0	7.0	1.5		
	9400	TYKW	5 S	0129.0	0129.2	2.0	3.0	1.0		
	3750	TYKW	5 S	0149.0	0149.5	4.0	2.0	1.0		
	9400	TYKW	45 C	0200.0	0205.2	11.0	19.0	4.0		
	15400	LEAR	4 S/F	0201.0	0205.1	6.6	23.0			QL=6 ST=2 TYP=3
	8800	LEAR	4 S/F	0201.0	0205.1	7.1	18.0			QL=6 ST=2 TYP=3
	2695	LEAR	4 S/F	0202.8	0205.1	3.0	22.0			QL=5 ST=2 TYP=3
	1415	LEAR	4 S/F	0203.3	0205.0	2.3	8.0			QL=6 ST=2 TYP=3
	3750	TYKW	21 GRF	0204.0	0355.0	290.0	14.0	7.0		
4995	LEAR	8 S	0204.1	0205.0	1.5	10.0			QL=6 ST=2 TYP=3	
2000	TYKW	45 C	0204.5	0205.1	3.5	11.0	1.5			
3750	TYKW	45 C	0204.5	0205.2	3.5	9.0	2.0			
610	LEAR	47 GB	0204.6	0204.8	2.4	73.0			QL=6 ST=2 TYP=5	
1000	TYKW	5 S	0204.7	0205.2	1.3	3.0	1.0			
610	PALE	47 GB	0204.8	0204.8	.3	70.0			QL=6 ST=2 TYP=5	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean		
30	8800	PALE	8 S	0204.8	0205.1	.7	25.0			QL=6 ST=2 TYP=3
	2000	TYKW	21 GRF	0240.0	0330.0	180.0	3.0	1.5		
	9400	TYKW	21 GRF	0319.0	0322.0	60.0	4.0	2.0		
	3750	TYKW	5 S	0320.0	0320.7	3.0	1.5	0.5		
	9400	TYKW	5 S	0335.0	0336.0	3.0	6.0	2.0		
	9400	TYKW	5 S	0353.0	0354.2	5.0	7.0	2.0		
	3750	TYKW		0428.0	0430.4		36.0			
	3750	TYKW	45 C	0428.0	0438.4	25.0	55.0	15.0		
	9400	TYKW		0429.0	0430.3		101.0			
	9400	TYKW	45 C	0429.0	0438.2	41.0	164.0	35.0		
	8800	LEAR	47 GB	0429.1	0430.1	36.7	110.0			QL=6 ST=2 TYP=5
	4995	LEAR	47 GB	0429.3	0430.1	4.0	80.0			QL=6 ST=2 TYP=5
	2695	LEAR	4 S/F	0429.3	0430.1	9.5	15.0			QL=6 ST=2 TYP=3
	2000	TYKW	5 S	0429.4	0430.6	3.5	3.0	1.0		
	17000	NOBE	7 C	0429.5	0438.2	17.4	70.0			L
	15400	LEAR	47 GB	0429.8	0430.3	1.5	39.0			QL=6 ST=2 TYP=5
	2000	TYKW	45 C	0436.4	0438.5	5.6	9.0	5.0		
	2000	TYKW	29 PBI	0442.0		20.0	2.0	1.0		
	17000	NOBE	29 PBI	0446.9	0447.0	40.0	17.0			0
	3750	TYKW	29 PBI	0453.0		20.0	5.0	3.0		
	2950	GORK	21 GRF	0507.7	0725.0	180.0	13.1			
	9400	TYKW	29 PBI	0510.0		50.0	9.0	4.0		
	3750	TYKW	5 S	0516.0	0518.3	25.0	3.0	1.5		
	3750	TYKW	5 S	0547.0	0554.0	25.0	2.0	1.0		
	9100	GORK	23 GRF	0611.8	0725.1	278.0	36.0			
	200	HIRA	46 C	0616.7	0617.4	1.6	75.0	25.0		NR
	650	GORK	23 GRF	0637.5U	1044.2	309.00	15.0	7.0		
	9400	TYKW	45 C	0638.0	0638.6	2.0	8.0	3.0		
	9400	TYKW	29 PBI	0640.0		8.0	3.0	1.5		
	100	HIRA	46 C	0640.5	0642.3	2.8	530.0	340.0		
	6100	KISV	20 GRF	0719.0	0725.0	20.0	10.0			
	3100	CRIM	20 GRF	0720.0	0730.0	40.0	8.0	3.0		
	15000	KISV	1 S	0724.9	0725.2	.5	11.0			
	9100	GORK	1 S	0729.7	0730.0	.9	36.0	18.0		
	6100	KISV	8 S	0729.8	0730.0	.5	22.0			
	15000	KISV	8 S	0729.9	0730.0	.3	24.0			
	2950	GORK	1 S	0729.9	0730.0	.2	7.3			
	9100	GORK	1 S	0837.0	0857.3	.8	8.0	4.0		
	15000	KISV	1 S	0840.0	0840.7	1.5	10.0			
	1470	POTS	23 GRF	0902.5	0908.3	13.0	6.0			
	430	KRAK	41 F	0906.0	0908.5	4.0	10.0			
	950	GORK	3 S	0907.9	0908.1	1.7	41.0			
	15000	KISV	1 S	0908.0	0908.2	1.0	15.0			
	650	GORK	8 S	0908.0	0908.1	.7	80.0	20.0		
9500	POTS	1 S	0908.0	0908.1	1.0	10.0				
810	KRAK	8 S	0908.0	0908.2	.4	220.0				
9100	GORK	1 S	0908.0	0908.3	.8	12.0	6.0			
2950	GORK	1 S	0908.0	0908.3	.7	5.9				
3000	POTS		0908.0	0908.3		8.0				
6100	KISV	2 S/F	0908.2	0908.4	1.0	8.0				
6100	KISV	2 S/F	0924.0	0924.8	1.0	11.0				
650	GORK	4 S/F	0951.6	0953.0	2.3	12.0	3.0			
810	KRAK	27 RF	0957.0	1002.6	12.2	8.0	3.0			
430	KRAK	45 C	0958.0	1002.4	11.5	20.0	3.0			
650	GORK	46 C	1000.0	1001.2	9.0	12.0	6.0			
650	GORK		1000.0	1004.0		22.0				
430	KRAK	40 F	1037.3	1049.8	18.0	16.0				
810	KRAK	2 S/F	1047.4	1049.8	2.4U	9.0	3.0			
650	GORK	4 S/F	1048.5	1050.0	3.9	12.0	4.0			
430	KRAK	41 F	1113.6	1121.5	17.5	7.0				
810	KRAK	2 S/F	1120.7	1121.5	1.5	9.0	3.0			
430	KRAK	40 F	1221.0	1242.5	28.5	12.0				
810	KRAK	40 F	1223.5	1242.0	27.0	19.0	1.0			
9500	POTS	40 F	1242.0	1243.2	3.0	86.0				
9500	POTS	40 F	1256.5	1257.9	4.5	16.0				
810	KRAK	27 Rf	1259.5	1316.5	58.00	40.0	5.00			
3000	POTS	40 F	1307.0E	1312.4	13.00					
9500	POTS	40 F	1307.5	1312.9	23.0	24.0				
2800	OTTA	20 GRF	1330.0	1355.0	105.0	6.0	3.2			
33	UPIC	45 C	1411.3	1412.2U	1.5					
29	UFIC	45 C	1411.5	1411.8	1.7					

SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

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Jan 84

JANUARY 1984

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean (W/m <sup>2</sup> Hz)	Int	Remarks
30	2800	OTTA	22 GRF	1600.0	1638.0	90.0	5.2	2.4		
	8800	PALE	20 GRF	2053.8	2056.8	5.0	29.0			QL=6 ST=2 TYP=2
	2800	OTTA	1 S	2054.0	2055.0	6.0	2.2			
	2695	PENT	260 FAL	2125.0	2140.0	15.0	-3.8	-1.9		
	3750	TYKW	21 GRF	2226.0	2247.0	60.0	5.0	2.5		
	3750	TYKW	45 C	2229.0	2232.4	7.0	10.0	4.0		
	2695	PENT	1 S	2230.0	2232.5	7.0	7.2	3.2		
	2000	TYKW	45 C	2230.5	2231.8	3.5	8.0	2.5		
	9400	TYKW	21 GRF	2244.0U	2254.0U	70.0U	6.0	3.0U		RAIN
	3750	TYKW	5 S	2300.5	2301.1	1.5	3.0	1.0		
	9400	TYKW	45 C	2332.0	2332.7	5.0	6.0	2.0		
	3750	TYKW	21 GRF	2354.0	2358.0	43.0	2.0	1.0		
	410	LEAR	47 GB	2356.8	2357.1	.7	83.0			QL=6 ST=2 TYP=5
	2000	TYKW	5 S	2357.0	2357.3	1.0	1.0	0.3		
31	208	VORO	44 NS	0000.0E		240.0D		10.0		
	204	IZMI	44 NS	0700.0E		300.0D	150.0			
	113	POTS	44 NS	0720.0E	0809.0	456.0D	456.0D	850.0		1+111
	234	POTS	44 NS	0720.0E	1002.0	453.0D	600.0			1+111
	430	KRAK	44 NS	0727.0E	1001.5	390.0D	130.0	45.0D		
	200	GORK	44 NS	0742.0E		261.0D		90.0		
	100	GORK	44 NS	0745.0E		255.0D		1000.0		
	260	ONDR	44 NS	0806.0E		378.0D	93.0D			
	127	TORN	44 NS	0930.0E	1052.6	370.0D	10000.0	714.0		V=1
	33	UPIC	43 NS	0944.0		316.0D				
	29	UPIC	43 NS	0944.1		315.9D				
	245	SGMR	43 NS	1222.0	1246.1	429.0D	380.0			QL=6 ST=2 TYP=1
	410	SGMR	43 NS	1222.0	1417.0	429.0D	25.0			QL=6 ST=2 TYP=1
	245	PALE	43 NS	1735.0	0214.1	628.0D	430.0			QL=6 ST=? TYP=1
	200	HIRA	44 NS	2138.0E	0335.0U	620.0D	110.0U	67.0U		WR
	100	HIRA	44 NS	2138.0E	2206.0U	620.0D	260.0U	54.0U		
	245	LEAR	43 NS	2221.0	0217.8	752.0D	410.0			QL=6 ST=2 TYP=1
	410	LEAR	43 NS	2221.0	0839.3	752.0D	68.0			QL=6 ST=2 TYP=1
	2000	TYKW	45 C	0015.5	0016.1	1.0	3.0	0.7		
	3750	TYKW	5 S	0015.5	0016.3	1.5	2.0	0.7		
	3750	TYKW	28 PRE	0040.0	0045.5	7.0	2.0	1.0		
	1415	LEAR	47 GB	0046.5	0049.3	5.1	58.0			QL=2 ST=2 TYP=5
	4995	PALE	4 S/F	0046.6	0047.1	2.9	38.0			QL=6 ST=2 TYP=3
	8800	LEAR	8 S	0046.8	0048.1	1.7	33.0			QL=6 ST=2 TYP=3
	2695	LEAR	4 S/F	0046.8	0049.5	2.8	26.0			QL=6 ST=2 TYP=3
	4995	LEAR	4 S/F	0046.8	0049.5	3.0	38.0			QL=6 ST=2 TYP=3
	9400	TYKW	45 C	0047.0	0048.2	4.0	26.0	6.0		RAIN
	3750	TYKW	45 C	0047.0	0048.3	5.0	26.0	9.0		
	2840	PEKG	45 C	0047.0	0048.4	5.0	14.0	5.2		
	2000	TYKW	45 C	0047.0	0049.4	5.0	24.0	7.0		
	1000	TYKW	45 C	0047.0	0049.5	5.0	13.0	4.0		
	2840	PEKG		0047.0	0049.5					
	1415	PALE	4 S/F	0047.0	0048.5	2.3	34.0			QL=6 ST=2 TYP=3
	8800	PALE	8 S	0047.1	0047.1	1.7	35.0			QL=6 ST=2 TYP=3
	2695	PALE	8 S	0047.1	0047.3	1.5	19.0			QL=6 ST=2 TYP=3
	410	LEAR	4 S/F	0047.1E	0047.8	3.9D	46.0			QL=6 ST=2 TYP=3
	610	PALE	8 S	0047.3	0047.3	.3	13.0			QL=6 ST=2 TYP=3
	500	HIRA	45 C	0047.3	0048.0	2.5	13.0	5.0		0
	610	LEAR	4 S/F	0047.8	0048.3	3.3	18.0			QL=6 ST=2 TYP=3
	245	LEAR	4 S/F	0047.8E	0050.0	3.0D	28.0			QL=1 ST=2 TYP=3
	15400	LEAR	8 S	0048.8	0049.5	1.0	32.0			QL=6 ST=2 TYP=3
3750	TYKW	30 PBI	0052.0		20.0	1.5	0.7			
3750	TYKW	5 S	0103.5	0104.7	3.5	1.5	0.5			
3750	TYKW	5 S	0120.0	0128.0	16.0	3.0	1.0			
15400	LEAR	8 S	0133.8	0134.1	.8	19.0			QL=6 ST=2 TYP=3	
17000	NOBE	1 S	0134.1	0134.2	.8	16.0			0	
9400	TYKW	5 S	0146.2	0146.5	0.8	4.0	1.5			
3750	TYKW	21 GRF	0153.0	0213.0	75.0	2.0	1.0			
3750	TYKW	20 GRF	0224.0	0240.0	40.0	3.0	1.0			
500	HIRA	45 C	0228.7	0229.0	1.3	7.0	2.0		C	
500	HIRA	8 S	0240.6	0241.0	.6	4.0	2.0		WR	
200	HIRA	46 C	0253.3	0253.5	1.1	225.0	140.0		WR	
9400	TYKW	21 GRF	0315.0	0352.0	120.0	6.0	3.0		RAIN	
3750	TYKW	21 GRF	0315.0	0355.0	130.0	6.0	3.0			
2000	TYKW	20 GRF	0330.0	0355.0	60.0	2.0	1.0			
3750	TYKW	5 S	0339.0	0341.7	6.0	3.0	1.0			

SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

JANUARY 1984

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean		
31	9400	TYKW	5 S	0355.0	0356.0	3.0	3.0	1.0		
	9400	TYKW	5 S	0403.0	0403.7	3.0	3.0	1.0		
	9400	TYKW	5 S	0406.7	0407.2	4.0	4.0	1.5		
	2840	PEKG	1 S	0417.0	0420.1	7.0	5.3	1.2		
	3750	TYKW	5 S	0417.0	0420.2	7.0	20.0	6.0		
	9400	TYKW	5 S	0417.0	0420.2	8.0	54.0	12.0		
	8800	LEAR	47 GB	0419.3	0420.1	2.3	57.0			QL=6 ST=2 TYP=5
	4995	LEAR	8 S	0419.5	0420.1	1.6	31.0			QL=6 ST=2 TYP=3
	15400	LEAR	8 S	0419.8	0420.1	.3	16.0			QL=6 ST=2 TYP=3
	3750	TYKW	30 PBI	0424.0	0424.0	55.0	5.0	2.0		
	9400	TYKW	30 PBI	0425.0		45.0	6.0	3.0		
	9400	TYKW	45 C	0436.0	0439.5	12.0	19.0	6.0		
	3750	TYKW	20 GRF	0439.0	0445.0	30.0	4.0	2.0		
	15400	LEAR	8 S	0439.1	0439.3	.5	31.0			QL=6 ST=2 TYP=3
	8800	LEAR	8 S	0439.3	0439.3	.5	19.0			QL=6 ST=2 TYP=3
	17000	NOBE	1 S	0439.3	0439.5	.7	17.0			L
	9400	TYKW	29 PBI	0448.0		12.0	4.0	2.0		
	610	LEAR	49 GB	0453.6	0453.8	.5	660.0			QL=6 ST=2 TYP=6
	9400	TYKW	5 S	0524.0	0524.4	6.0	5.0	2.0		
	3750	TYKW	45 C	0535.0	0539.1	14.0	130.0	23.0		
	2000	TYKW	45 C	0535.0	0539.1	12.0	98.0	20.0		
	2840	PEKG	45 C	0535.0	0539.3	13.0	85.0	21.2		
	9400	TYKW	45 C	0535.5	0539.1	6.5	95.0	30.0		
	1000	TYKW	45 C	0535.5	0539.8	11.5	59.0	14.0		
	100	HIRA	46 C	0536.0	0539.0	5.0	510.0	87.0		
	4995	LEAR	47 GB	0536.0	0539.0	5.1	139.0			QL=6 ST=2 TYP=5
	410	LEAR	49 GB	0536.0	0539.1	5.1	1800.0			QL=6 ST=2 TYP=6
	2695	ATHN	4 S/F	0536.1	0538.6	5.4	15.0			QL=2 ST=2 TYP=3
	4995	ATHN	47 GB	0536.1	0538.6	6.2	80.0			QL=2 ST=2 TYP=5
	1415	ATHN	4 S/F	0536.1	0539.5	8.0	31.0			QL=2 ST=2 TYP=3
	200	HIRA	46 C	0536.3	0539.3	3.4	234.0	57.0		
	2695	LEAR	47 GB	0536.8	0539.0	4.0	100.0			QL=6 ST=2 TYP=5
	8800	LEAR	47 GB	0536.8	0539.1	4.0	110.0			QL=6 ST=2 TYP=5
	1415	LEAR	47 GB	0536.8	0539.1	3.8	110.0			QL=6 ST=2 TYP=5
	15400	LEAR	4 S/F	0537.1	0537.8	2.9	40.0			QL=6 ST=2 TYP=3
	610	LEAR	47 GB	0537.1	0538.1	3.5	150.0			QL=6 ST=2 TYP=5
	245	LEAR	49 GB	0538.6	0539.1	1.0	710.0			QL=6 ST=2 TYP=6
	9400	TYKW	30 PBI	0542.0		65.0	6.0	3.0		
	9400	TYKW	5 S	0543.0	0545.0	10.0	6.0	3.0		
	410	LEAR	20 GRF	0543.8	0547.5	8.0	47.0			QL=6 ST=2 TYP=2
	4995	LEAR	8 S	0544.8	0544.8	.3	13.0			QL=6 ST=2 TYP=3
	2000	TYKW	30 PBI	0547.0		35.0	2.0	1.0		
	3750	TYKW	29 PBI	0549.0		10.0	2.0	1.0		
	245	LEAR	47 GB	0553.1	0553.3	.5	110.0			QL=6 ST=2 TYP=5
	410	LEAR	4 S/F	0555.3	0555.3	5.8	47.0			QL=6 ST=2 TYP=3
	2000	TYKW	5 S	0603.0	0603.3	1.0	2.0	0.7		
	3750	TYKW	20 GRF	0619.0	0624.0	45.0	4.0	2.0		
	9100	GORK	23 GRF	0619.9	0740.6	370.00	68.0			
	2950	GORK	21 GRF	0645.8U	1051.5	330.00	39.0			
	2950	GORK	21 GRF	0645.8U	1051.5	330.00	39.0			
	2840	PEKG	28 PRE	0659.0		20.0	32.0	11.3		
	6100	KISV	28 PRE	0705.0	0719.2	15.5	28.0			
	3750	TYKW	45 C	0705.0	0728.3	40.0	370.0	70.0		
	2000	TYKW	45 C	0705.0	0729.5	35.0	155.0	50.0		
	2695	LEAR	47 GB	0707.6	0709.1	14.4	24.0			QL=6 ST=2 TYP=5
	245	LEAR	47 GB	0708.3	0708.6	.5	230.0			QL=6 ST=2 TYP=5
	1000	TYKW	45 C	0710.0	0721.6	16.50	60.0	12.00		
	9400	TYKW	45 C	0710.0	0721.8	16.00	95.0	20.00		
	204	IZMI	47 GB	0710.0	0728.1	46.0	380.0	200.0		
	2950	GORK	45 C	0710.6U	0722.0	19.00	196.0			
	2950	GORK		0710.6U	0724.0		175.0			
	2950	GORK		0710.6U	0728.2		270.0			
	4995	LEAR	8 S	0711.5	0713.1	1.6	15.0			QL=6 ST=2 TYP=3
	1415	LEAR	47 GB	0712.8	0713.1	9.2	24.0			QL=6 ST=2 TYP=5
	15000	KISV	1 S	0712.8	0713.1	.5	13.0			
	410	LEAR	4 S/F	0718.1	0719.1	3.9	16.0			QL=6 ST=3 TYP=3
	8800	LEAR	8 S	0718.6	0719.1	.7	18.0			QL=6 ST=2 TYP=3
	2840	PEKG	45 C	0719.0	0724.0	21.0	155.0	62.0		
	2840	PEKG		0719.0	0729.5					
	3100	BERN	46 C	0720.0U	0721.2	30.0U	819.0			
	8400	BERN	4 S/F	0720.0U	0728.3	30.0U	116.0			

SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (10 <sup>-22</sup> W/m <sup>2</sup> Hz)		
31	5200	BERN	46 C	0720.00	0728.4	30.00	337.0			
	6100	KISV		0720.5	0722.0		220.0			
	6100	KISV		0720.5	0723.9		193.0			
	6100	KISV		0720.5	0725.2		205.0			
	6100	KISV	46 C	0720.5	0728.3	13.0	360.0			
	650	GORK	21 GRF	0721.0E		305.00	20.0			
	15000	KISV		0721.0	0722.3		48.0			
	9100	GORK	46 C	0721.00	0722.7	19.00	160.0			
	15000	KISV		0721.0	0727.5		95.0			
	9100	GORK		0721.00	0727.9		270.0			
	15000	KISV	46 C	0721.0	0728.5	15.0	140.0			
	9100	GORK		0721.00	0728.8		300.0			
	1415	ATHN	4 S/F	0721.0	0722.1	15.5	41.0			QL=6 ST=2 TYP=3
	2695	ATHN	47 GB	0721.0	0728.5	21.3	56.0			QL=6 ST=2 TYP=5
	8800	ATHN	47 GB	0721.0	0728.5	20.5	210.0			QL=6 ST=2 TYP=5
	610	LEAR	8 S	0721.1	0721.5	.9	40.0			QL=6 ST=2 TYP=3
	650	GORK	41 F	0721.4	0724.9	6.8	30.0			
	650	GORK		0721.4	0725.9		42.0			
	15400	LEAR	8 S	0721.5	0721.8	.5	30.0			QL=6 ST=2 TYP=3
	4995	ATHN	47 GB	0721.8	0728.5	22.3	410.0			QL=6 ST=2 TYP=5
	15400	LEAR	47 GB	0722.5	0724.0	22.3	28.0			QL=6 ST=2 TYP=5
	1415	LEAR	47 GB	0722.5	0727.8	14.3	88.0			QL=6 ST=2 TYP=5
	4995	LEAR	47 GB	0722.5	0728.1	22.6	420.0			QL=6 ST=2 TYP=5
	2695	LEAR	47 GB	0722.5	0728.1	21.5	330.0			QL=6 ST=2 TYP=5
	8800	LEAR	47 GB	0722.5	0728.3	22.6	310.0			QL=6 ST=2 TYP=5
	245	LEAR	47 GB	0723.0	0724.0	12.8	280.0			QL=6 ST=2 TYP=5
	410	LEAR	49 GB	0723.5	0728.0	18.5	610.0			QL=6 ST=2 TYP=6
	1470	POTS		0725.0E		20.00				
	3000	POTS		0725.0E		30.00				
	9500	POTS		0725.0E		25.00				
	610	LEAR	47 GB	0727.3	0732.3	11.7	89.0			QL=6 ST=2 TYP=5
	430	KRAK	45 C	0729.5	0735.2	8.0	260.0	13.0		
	6100	KISV	29 PBI	0733.5	0733.5	30.0	120.0			
	15000	KISV	29 PBI	0736.0	0736.0	30.0	42.0			
	2000	TYKW	29 PBI	0740.0		2.00	11.0	10.00		
	2840	PEKG	29 PBI	0740.0		20.00	45.0	16.0		
	3750	TYKW	29 PBI	0745.0		10.00	18.0	14.00		
	6100	KISV	1 S	0745.7	0746.1	1.0	6.0			
	15000	KISV	3 S	0745.7	0746.4	1.5	18.0			
	9100	GORK	1 S	0745.8	0746.7	3.0	16.0	8.0		
	15000	KISV	1 S	0820.7	0821.0	1.0	12.0			
	9100	GORK	1 S	0833.3	0834.9	2.2	9.0	5.0		
	245	LEAR	47 GB	0833.5	0836.3	20.6	110.0			QL=6 ST=2 TYP=5
	410	LEAR	8 S	0836.6	0836.6	.2	13.0			QL=6 ST=2 TYP=3
	950	GORK	46 C	0839.0	1145.0	204.00	263.7			
	810	KRAK	49 GB	0842.3	1105.00	218.0	800.00	160.00		
	650	GORK	47 GB	0846.7	1117.0	217.00	350.0			
610	LEAR	8 S	0847.0	0847.1	.3	13.0			QL=6 ST=2 TYP=3	
6100	KISV	21 GRF	0854.0	0857.0	12.0	19.0				
410	LEAR	47 GB	0854.1	0855.1	14.2	27.0			QL=6 ST=2 TYP=5	
245	LEAR	47 GB	0854.1	0855.3	14.2	139.0			QL=6 ST=2 TYP=5	
610	LEAR	47 GB	0854.1	0857.1	14.2	24.0			QL=6 ST=2 TYP=5	
9100	GORK	1 S	0856.1	0957.1	5.7	10.0	5.0			
2695	LEAR	8 S	0856.8	0857.1	1.0	34.0			QL=6 ST=2 TYP=3	
536	ONDR	20 GRF	0900.0		230.0	268.00				
9100	GORK	1 S	0907.3	0907.7	1.4	6.0	3.0			
245	LEAR	47 GB	0908.3	0912.8	20.0	139.0			QL=6 ST=2 TYP=5	
410	LEAR	47 GB	0908.3	0914.3	20.0	76.0			QL=6 ST=2 TYP=5	
610	LEAR	47 GB	0908.3	0914.6	20.0	57.0			QL=6 ST=2 TYP=5	
2695	LEAR	4 S/F	0909.1	0909.3	19.2	31.0			QL=6 ST=2 TYP=3	
260	ONDR	21 GRF	0915.0		179.0	87.00				
200	GORK	27 RF	0923.3	1059.5	159.7	1030.0	550.0			
1470	POTS	23 GRF	0925.0	1102.9	270.0	20.0				
15000	KISV	8 S	0926.1	0926.4	.5	11.0				
9500	POTS	23 GRF	0930.0	1052.0	300.0	38.0				
3000	POTS	23 GRF	0932.0	1138.0	126.8	27.0				
245	LEAR	47 GB	0935.8	0936.3	12.2	270.0			QL=6 ST=2 TYP=5	
610	LEAR	47 GB	0935.8	0937.6	12.2	139.0			QL=6 ST=2 TYP=5	
410	LEAR	47 GB	0935.8	0941.3	12.2	68.0			QL=6 ST=2 TYP=5	
2695	LEAR	4 S/F	0940.8	0942.5	7.2	38.0			QL=6 ST=2 TYP=3	
1415	LEAR	8 S	0945.6	0945.8	.4	13.0			QL=6 ST=2 TYP=3	

SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

JANUARY 1984

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (2 Hz)		
31	808	ONDR	49 GB	1013.0		227.0	566.0D			
	9100	GCRK	1 S	1020.2	1020.5	.8	11.0	5.0		
	15000	KISV	4 S/F	1020.2	1020.6	.7	30.0			
	15000	KISV	21 GRF	1033.0	1036.5	10.0	27.0			
	1470	POTS	42 SER	1033.0	1051.2	33.0	123.0			
	6100	KISV	21 GRF	1033.0	1051.5	35.0	32.0			
	3000	POTS	3 S	1050.2	1052.3	3.0	35.0			
	9100	GORK	1 S	1050.8	1051.5	2.8	12.0	6.0		
	9100	GORK	1 S	1104.7	1105.3	1.0	12.0	6.0		
	810	KRAK	30 PBI	1220.0	1258.5U	102.0	70.0D	10.0D		
	610	SGMR	47 GB	1256.8E	1257.1	2.3D	200.0			QL=6 ST=2 TYP=5
	4995	ATHN	47 GB	1256.8	1258.1	9.3	180.0			QL=6 ST=2 TYP=5
	11800	BERN	3 S	1256.8	1258.1	7.0	134.0			
	1415	ATHN	47 GB	1256.8	1258.1	8.8	85.0			QL=6 ST=2 TYP=5
	8400	BERN	3 S	1256.8	1258.1	7.0	155.0			
	5200	BERN	3 S	1256.8	1258.1	7.0	235.0			
	3100	BERN	3 S	1256.8	1258.1	7.0	272.0			
	19600	BERN	3 S	1256.8	1258.1	7.0	38.0			
	8800	ATHN	47 GB	1256.8	1258.1	7.3	119.0			QL=6 ST=2 TYP=5
	9500	POTS	4 S/F	1257.0	1257.9	4.0	194.0			
	3000	POTS	4 S/F	1257.0	1258.0	6.0	195.0			
	1470	POTS	3 S	1257.0	1258.3	7.2	134.0			
	245	SGMR	47 GB	1257.1E	1257.3	4.5D	400.0			QL=6 ST=2 TYP=5
	410	SGMR	49 GB	1257.1E	1257.3	4.5D	1100.0			QL=6 ST=2 TYP=6
	2800	OTTA	20 GRF	1320.0	1350.0	210.0D	17.2			
	536	ONDR	8 S	1346.0	1346.0	1.0	205.0			
	536	ONDR	46 C	1356.8	1357.5	3.0	254.0D			
	15400	PALE	8 S	2052.6	2052.8	1.5	41.0			QL=6 ST=2 TYP=3
	8800	PALE	8 S	2052.6	2052.8	1.5	25.0			QL=6 ST=2 TYP=3
	9400	TYKW	21 GRF	2228.0	2236.0	85.0	4.0	2.0		
	9400	TYKW	45 C	2251.0	2253.2	5.0	12.0	5.0		
	9400	TYKW	29 PBI	2256.0		10.0	3.0	1.5		
	410	PALE	47 GB	2308.5	2308.6	.5	219.0			QL=6 ST=2 TYP=5
	410	LEAR	47 GB	2308.5	2308.6	.6	89.0			QL=6 ST=2 TYP=5
	610	LEAR	8 S	2308.6	2308.6	.2	11.0			QL=6 ST=2 TYP=3
	3750	TYKW	21 GRF	2323.0	2338.0	90.0	2.0	1.0		

Reports are received routinely from the following observatories:

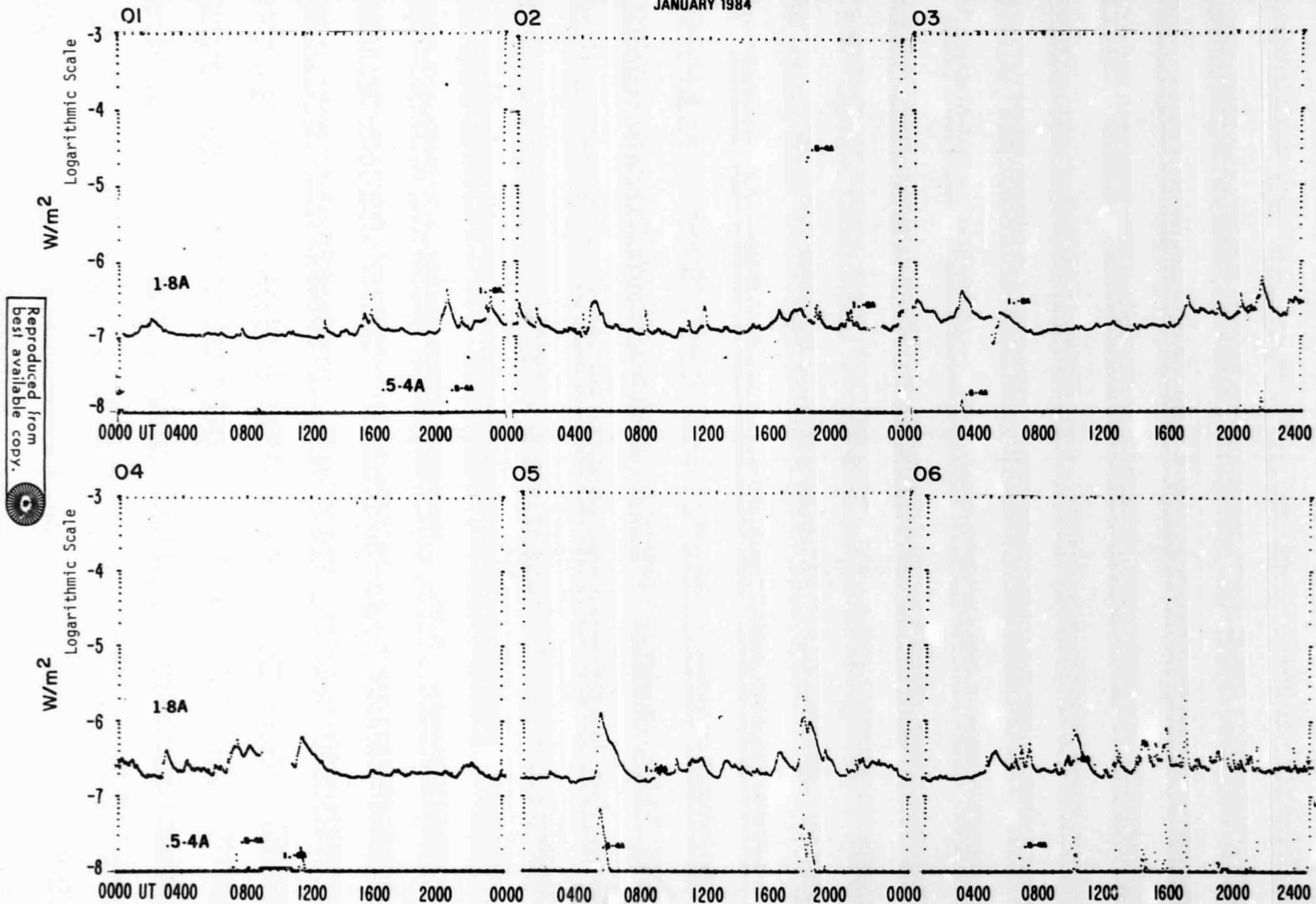
ATHN = Athens	HUAN = Huancayo	NAGO = Nagoya	POTS = Potsdam
BERN = Berne	IRKU = Irkutsk	NOBE = Nobeyama	SAOP = Sao Paulo
BORD = Bordeaux	IZMI = IZMIRAN	ONDR = Ondrejov	SGMR = Sagamore Hill
CRIM = Crimea	KISV = Kislovodsk	OTTA = Ottawa	TORN = Torun
DWIN = Dwingeloo	KRAK = Krakow	PALE = Palohua	TYKW = Toyokawa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

Explanation of Type Code:

1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm In Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 3F	28 Precursor	41 Group of Bursts	47 Great Burst
6 Minor	23 Simple 3AF	29 Post Burst Increase	42 Series of Bursts	48 Major
				49 Major +
1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F	
3A Simple 2A	24O Rise only	16A Fall A	27AF Rise and Fall AF	
21A Simple 3A GRF	24OF Rise only F	26O Fall Only	31A Post Burst Decrease A	
2A Simple 1AF	24P Post Rise	26F Fall F	32A Absorption A	
			46F Complex F	

# SMS-GOES X-RAYS

JANUARY 1984



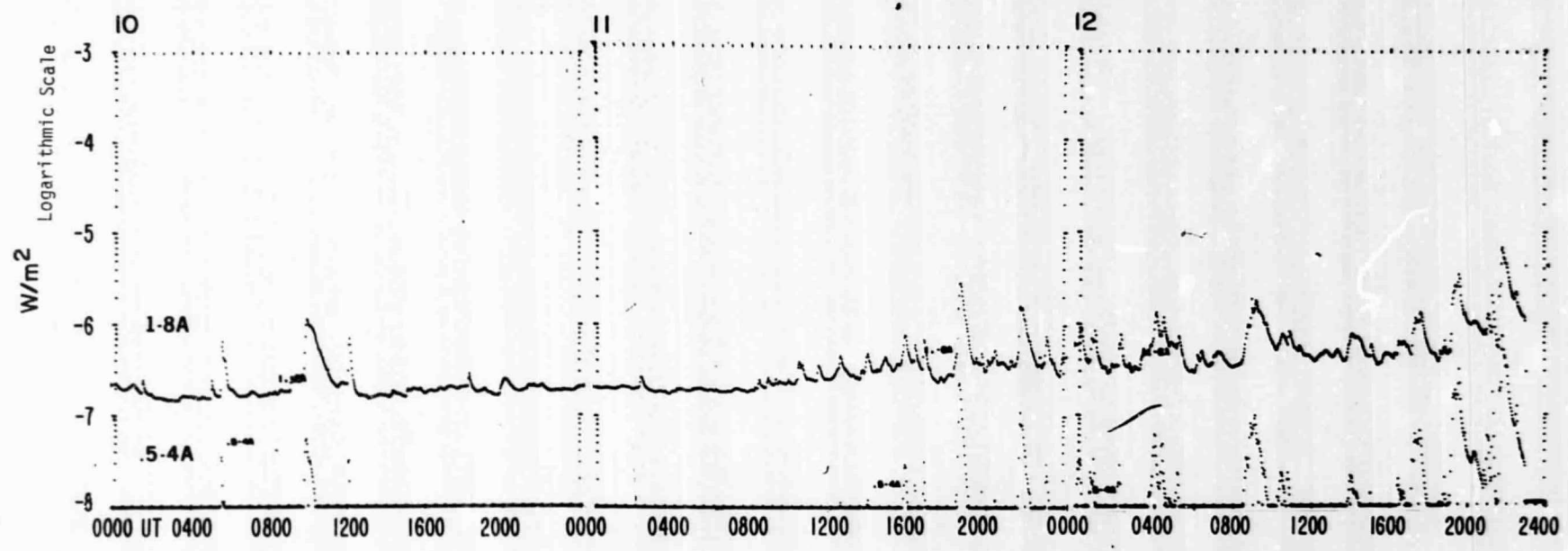
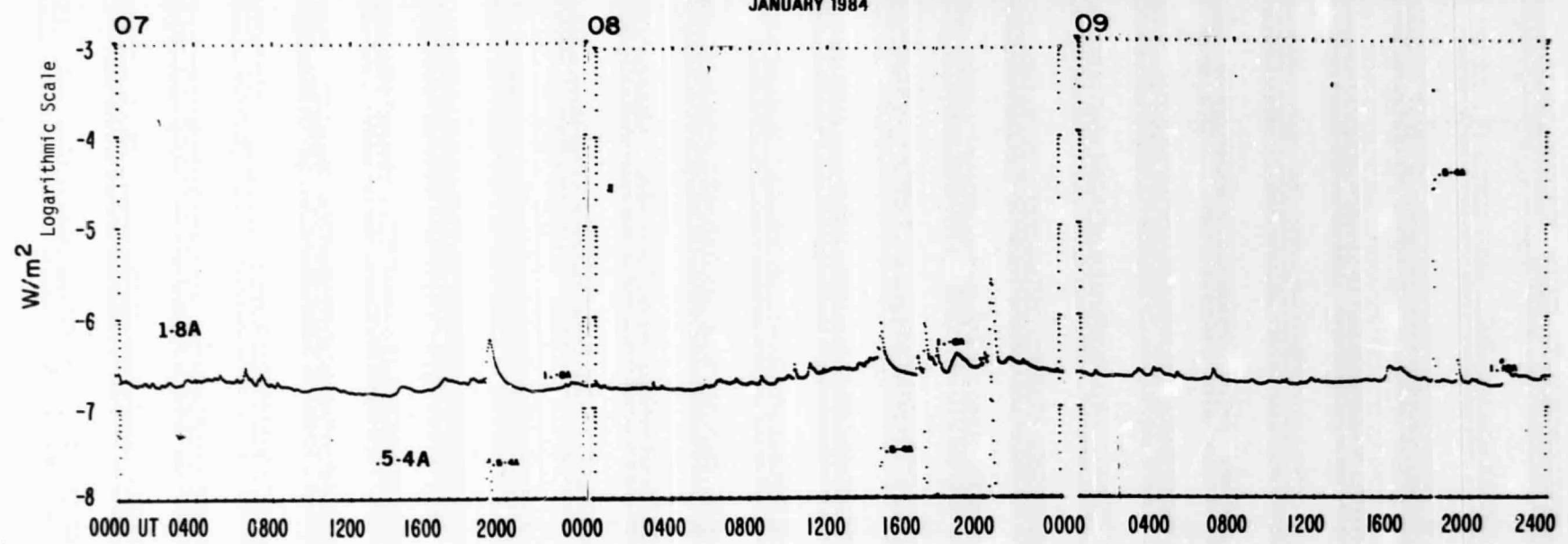
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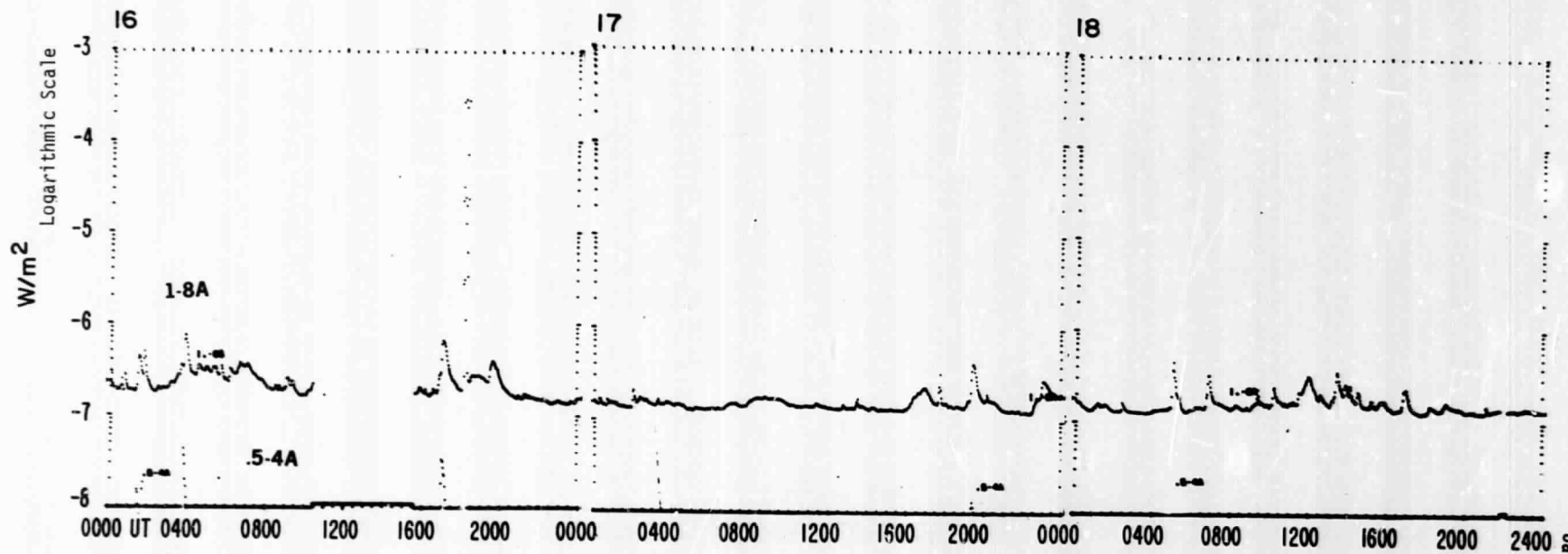
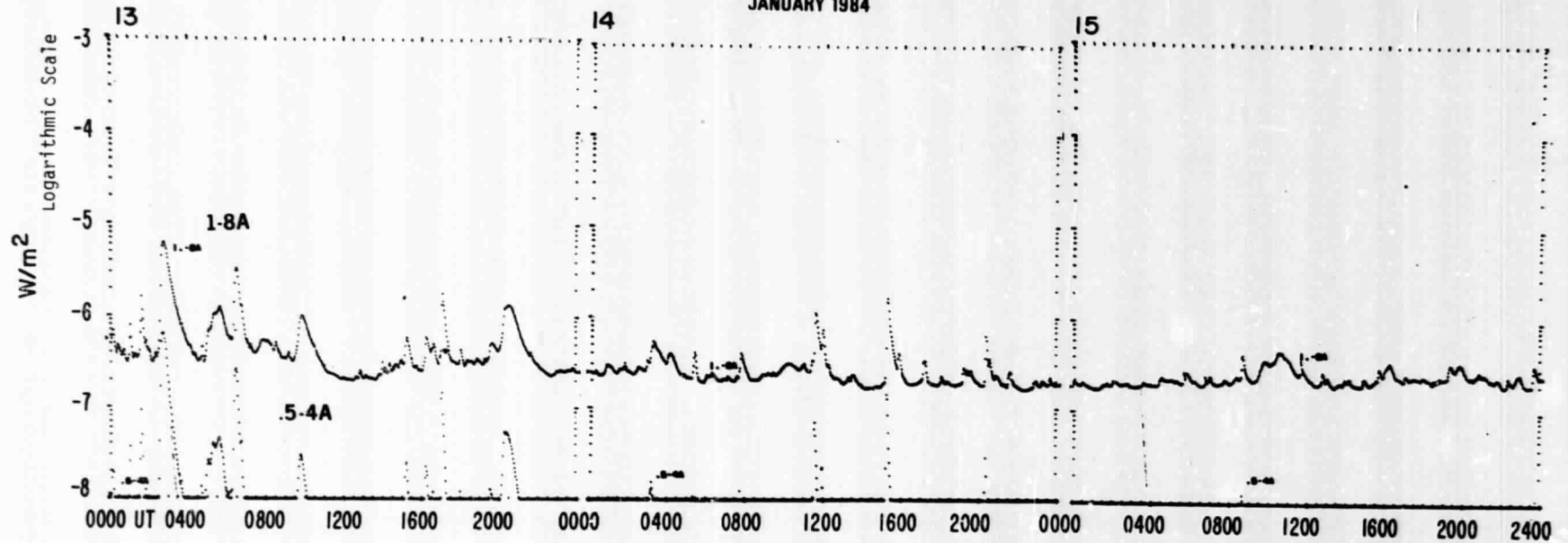
# SMS-GOES X-RAYS

JANUARY 1984



# SMS-GOES X-RAYS

JANUARY 1984

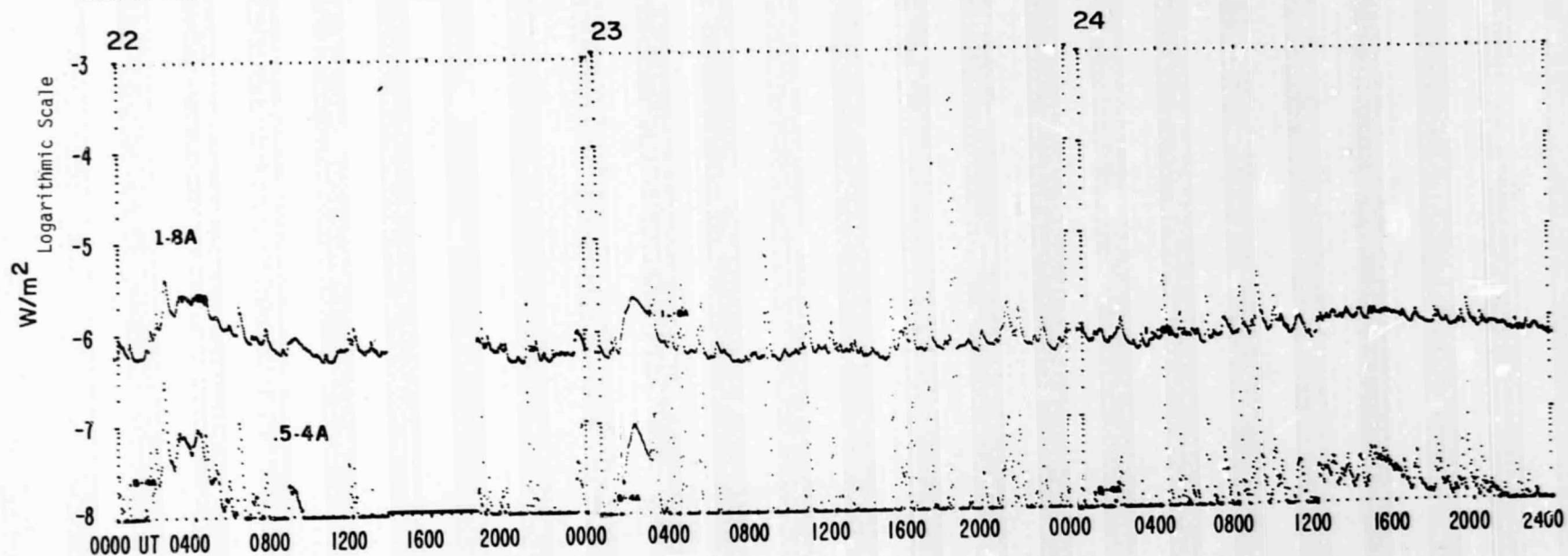
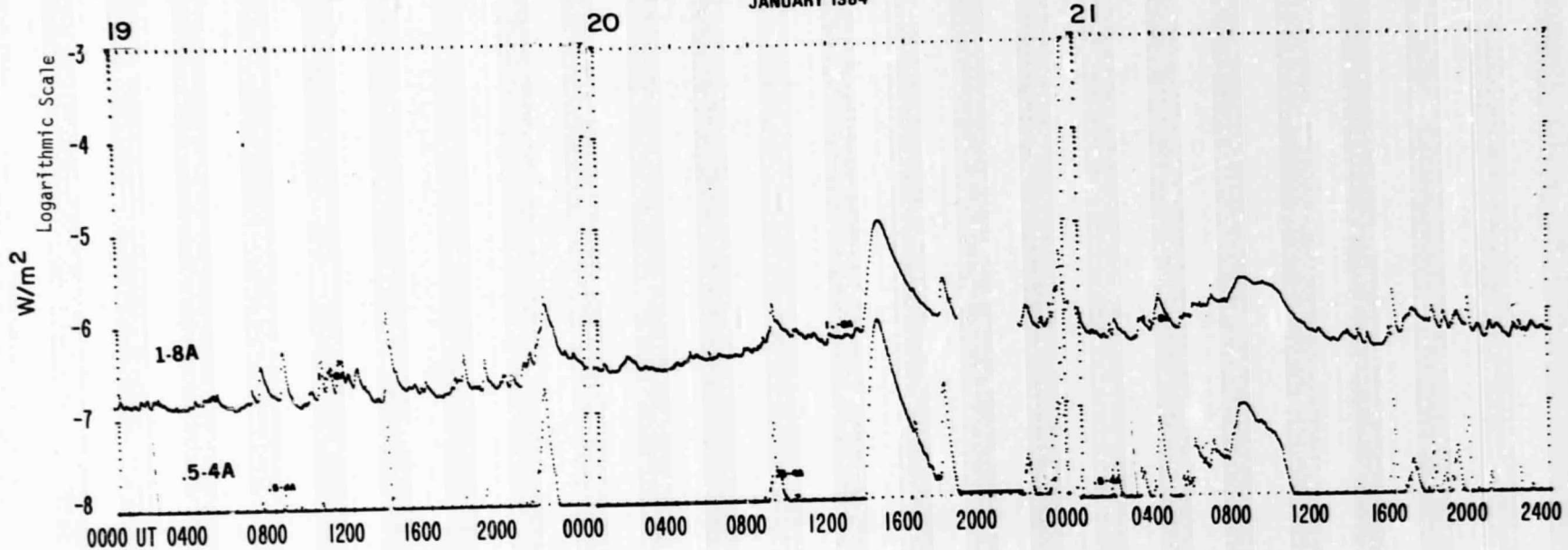


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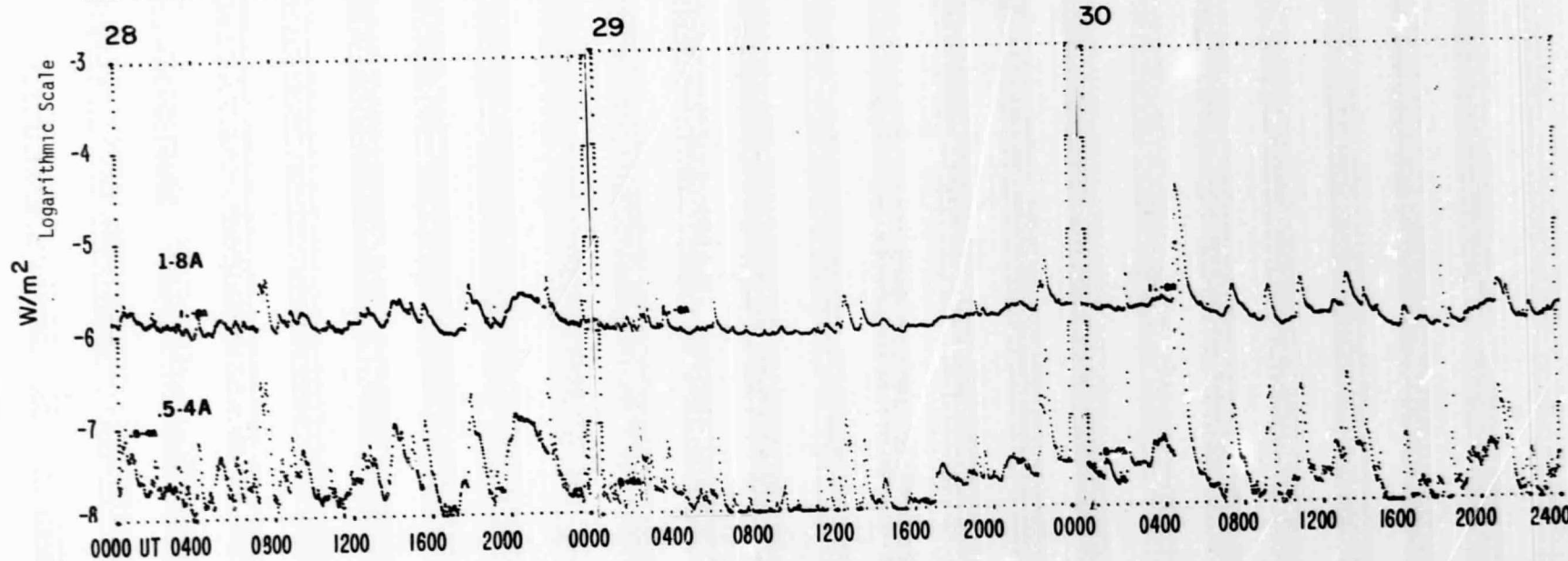
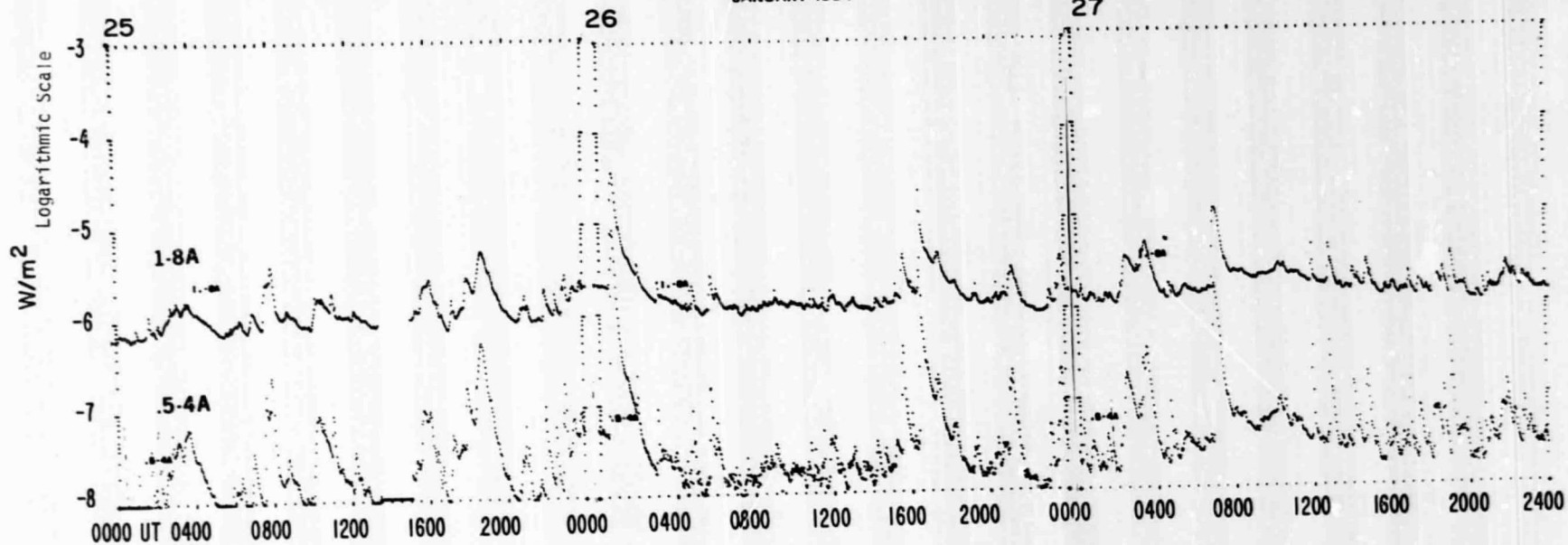
# SMS-GOES X-RAYS

JANUARY 1984



# SMS-GOES X-RAYS

JANUARY 1984

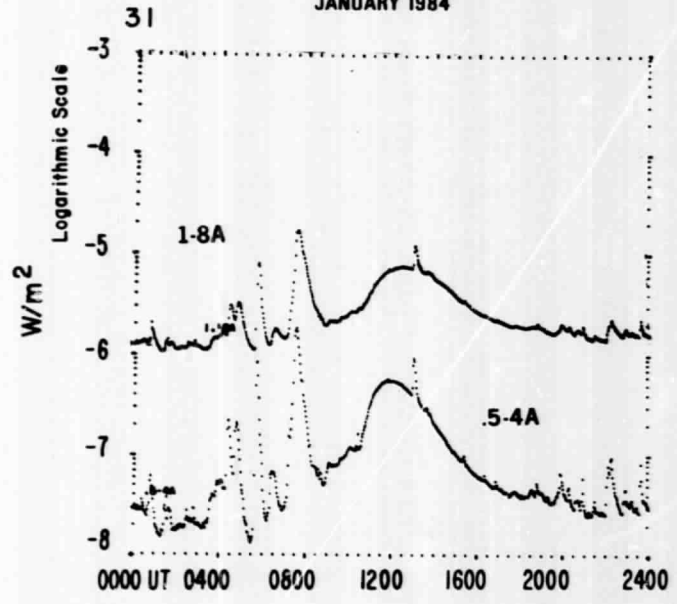


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### SMS - GOES X-RAYS

JANUARY 1984



MASS EJECTIONS FROM THE SUN

33  
Jan 84

JANUARY 1984

Sta	Day	Observed UT			Location		Freq or Wavelength	Kind of Event
		Start	Max	End	RA*	R/R <sub>0</sub>		
LEAR	Jan 26	0052.0		0102.C			Decimeter	II
LEAR	Jan 26	0055.0		0700.0			Decimeter	IV
LEAR	Jan 26	0804.1		0810.5			Decimeter	II
KHAR	Jan 27	0852	E	0932	D 266	1	H-alpha	S
KHAR	Jan 27	1041	E	1050	D 266	1	H-alpha	S
KHAR	Jan 29	1040	E	1059	D 015	0.23	H-alpha	S
KHAR	Jan 30	0910	E	0942	D 295	0.75	H-alpha	SP
LEAR	Jan 31	0544.6		0600.0			Decimeter	II
LEAR	Jan 31	0600.0		0621.3			Decimeter	IV
ABST	Jan 31	- 0623	E 0630	0716	D 288	0.84	H-alpha	SP
LEAR	Jan 31	- 0703.0		1053.0			Decimeter	IV
WEIS	Jan 31	- 0900		1240			30-540 MHz	IV

QUALIFIERS ON START, MAX AND END TIMES

D = event ended after tabulated time  
E = event began before the tabulated time  
U = uncertain time

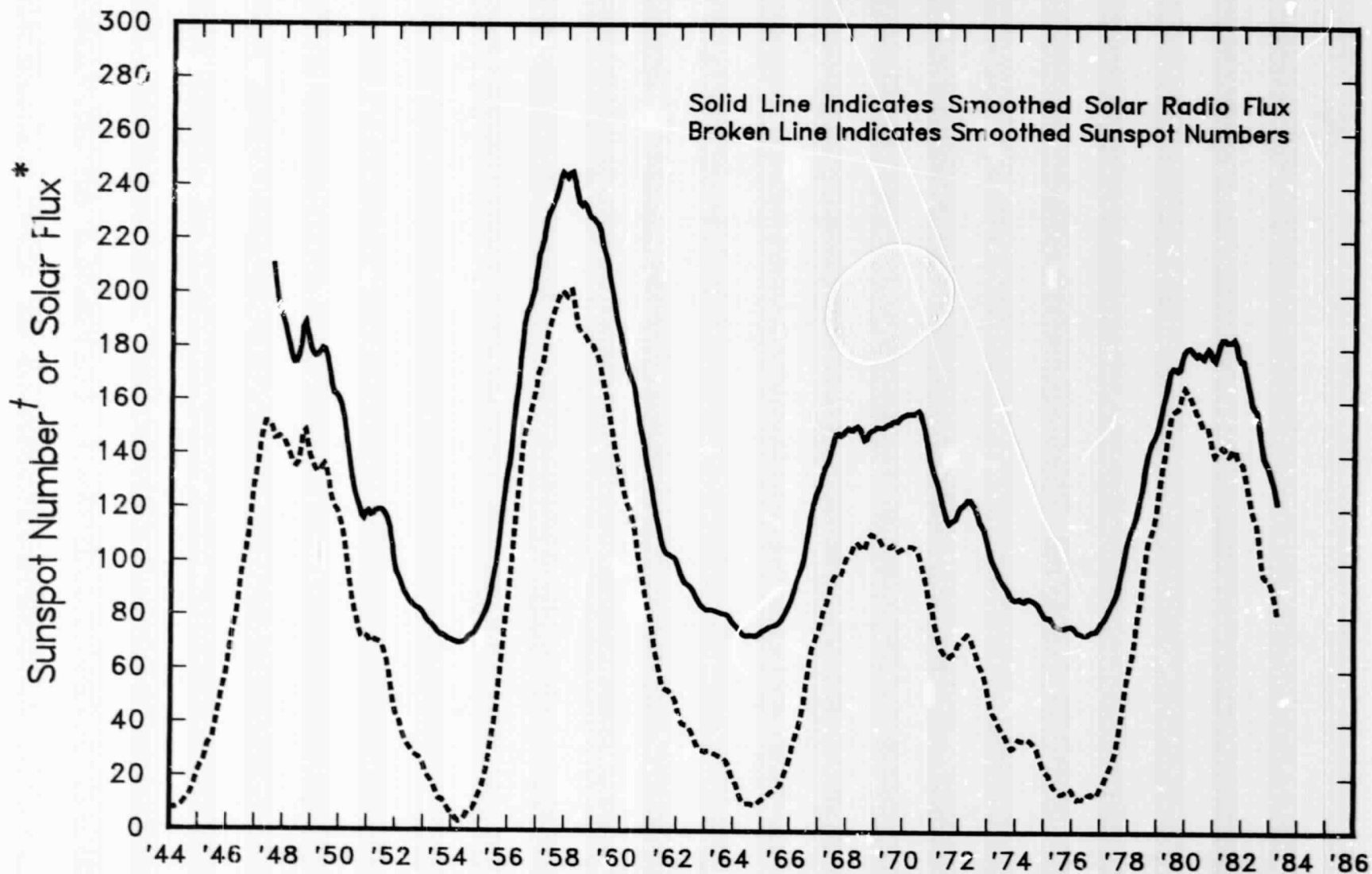
REPORTING STATIONS

ABST = Abastumani  
KHAR = Khar'kov  
LEAR = Learmonth  
WEIS = Weissenau

TYPE OF EVENT

A = eruptive active region prominence  
CB = coronal cloud bubble  
C = 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

# SUNSPOT NUMBERS AND 10.7 cm SOLAR RADIO FLUX January 1944 - April 1983



\* Solar Flux Units ( $10^{-22}$  W/m<sup>2</sup> Hz) Adjusted to 1 A.U., Ottawa Series D.  
† Reduced Zürich Sunspot Numbers.

National Geophysical  
Data Center  
D. S. Wilkinson

C O N T E N T S

Comprehensive Reports                      DATA FOR AUGUST 1981                      Number 479      Part II

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H - ALPHA SOLAR FLARES

AUGUST 1981

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMP	Hale				Obs Imp	Type	Area Time (UT)	Measurement		Remarks	
							cen Dist	Plage Region	CMP Dcy	Dur (Min)				Appar (Disk)	Corr (Sq Deg)		
404	CULG	01 0033	0039U	0058	N11	W43	.680	17763	28.8	25	-N	P	0039	50	.7		
GRP96405	01 0045	0050+4	0104	S09	W61	.888	17760	27.5	19	-F						F	
LEAR	01 0045	0054	0103	S09	W61	.888	17760	27.5	18	-F	3	C		23			
CULG	01 0046E	0050U	0105	S09	W62	.895	17760	27.4	19D	-N		P	0050	60	1.2	F	
406	CULG	01 0109	0120	0150	S10	W58	.865	17760	27.7	41	-F	C	0120	80	1.5		
407	CULG	01 0138	0142	0203	S06	W85	.997		25.7	25	-F	C	0142	50			
408	CULG	01 0158	0200	0208	S13	W63	.909	17760	27.4	10	?F	C	0200	110	2.5		
			IMP.1													NO : MITK PURP	
409	CULG	01 0249	0256	0310	S12	W60	.885	17760	27.6	21	-N	C	0256	90	1.8	F	
GRP96410	01 0307	0308+2	0321	S04	W82	.991		26.0	14	-N				40		A	
CULG	01 0307	0310	0316	S06	W85	.997		25.8	9	-N		C	0310	40			
TACH	01 0306E	0308	0326D	S02	W80	.986		26.1	18D	1N		C	0308	132		AB	
411	CULG	01 0340	0346	0400	N12	E16	.292	17769	2.4	20	-N	C	0346	30	.3	J	
412	CULG	01 0451E	0455	0512D	N13	E17	.313	17769	2.5	21D	-N	P	0455	80	.8	F	
413	TACH	01 0457E	0500	0509D	S02	W80	.986		26.2	12D	?N	C					
			IMP.1													NO : CULG MITK PURP	
GRP96414	01 0558+0	0606	0650	S07	W19	.388	17767	30.8	52	1N				260	2.8	EU	
		0619+6															
MITK	01 0558	0606	0650	S08	W19	.398	17767	30.8	52	-F		C	0606	220		EU	
KANZ	01 0558	0625	0633D	S08	W18	.385	17767	30.9	35D	-N	3					U	
TACH	01 0610E	0620	0628D	S05	W19	.372	17767	30.8	18D	1N		C	0620	264	3.0	U	
ISTA	01 0610E		0648	S06	W15	.326	17767	31.1	38D	1N						BU	
BUCA	01 0615E		0700	S06	W20	.394	17767	30.8	45D	1F		C	0620	322	3.8		
CULG	01 0618E	0619U	0620D	S07	W21	.415	17767	30.7	2D	-N		P	0619	80	.9		
HTPR	01 0638E		0640D	S06	W20	.394	17767	30.8	2D	-F		C	0639	100	1.0	E	
GRP96415	01 0710		0755	N13	E15	.283	17769	2.4	45	-F							
BUCA	01 0710		0755	N15	E16	.313	17769	2.5	45	-N		C	0720	161	1.7		
HTPR	01 0736E		0751D	N12	E14	.262	17769	2.4	15D	-F		C	0743	40	.4		
GRP96416	01 0803+4		0947D	S04	W82	.991		26.2	104	-F						AGK	
KANZ	01 0803		0947D	S05	W84	.995		26.0	104D	-N	3					K	
ISTA	01 0807		0818D	S04	W80	.986		26.3	11	-F						AG	
417	HTPR	01 0832	0835	0841	N17	E16	.330	17769	2.6	9	-F	C	0835	20	.2		
		01 1001	1003													NO FLARE PATROL	
418	HTPR	01 1135	1135	1138	S13	W63	.909	17760	27.8	3	-F	C	1135	20	.4		
GRP96419	01 1157	1208	1220	N17	E14	.304	17769	2.5	23	-F						E	
HTPR	01 1157	1208	1220	N17	E16	.330	17769	2.7	23	-F		C	1208	40	.4	E	
HTPR	01 1203	1208	1220	N17	E12	.280	17769	2.4	17	-F		C	1208	20	.2	E	
GRP96420	01 1323+4	1330	1356	N16	E15	.308	17769	2.7	33	-N				50	.5	E	
HTPR	01 1323		1347D	N17	E15	.317	17769	2.7	24D	-F		C	1326	50	.5	E	
ATHN	01 1327	1330	1356	N15	E16	.313	17769	2.8	29	-B	3	V	1330	64	.7		
		01 1401	1407													NO FLARE PATROL	
GRP96421	01 1558+0		1608D	S20	E12	.475	17770	2.6	10	-F						EG	
HTPR	01 1558		1608D	S20	E12	.475	17770	2.6	10D	-F		C	1608	50	.5	EG	
KANZ	01 1558		1606D	S21	E13	.495	17770	2.6	8D	-F	1					G	
GRP96422	01 1917+9	1938+1	2049	N13	E09	.198	17769	2.5	92	1N				260	2.7		
BIGB	01 1917	1938	2049	N13	E09	.198	17769	2.5	92	1N	3	C	1938	240	2.5		
RAMY	01 1932	1939	1942D	N13	E09	.198	17769	2.5	10D	1N	3	C		277			
423	HOLL	01 2201	2224	2252	S10	W56	.848	17760	28.7	51	-F	3	C		39		

H - ALPHA SOLAR FLARES

37  
Aug 81

AUGUST 1981

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	LMD	Hale			Dur (Min)	Obs Imp	Type	Area Measurement			Remarks
							cen Dist	Plage Region	OMP Day				Time (UT)	Appar (Disk)	Corr (Sq Deg)	
GRP96424	01	2228+1	2230+2	2253	N17	E10	.257	17769	2,7	25	-B		110	1.1	E	
HOLL	01	2228	2230	2249	N17	E10	.257	17769	2,7	21	-B	3 C	120		E	
BIGB	01	2229	2232	2256	N17	E10	.256	17769	2,7	27	-B	3 C	2232	100	1.0	
425 PALE	02	0104	0105	0113	S11	W57	.859	17760	28,6	9	-F	3 C	22			
426 CULG	02	0132	0135	0145	N18	E04	.221	17769	2,4	13	-N	P	0135	50	.5	E
427 CULG	02	0149	0156	0159	S09	W17	.383	17773	31,8	10	-F	C	0156	20	.2	
428 CULG	02	0205	0215	0255D	S09	W17	.383	17773	31,8	50D	-N	C	0215	40	.4	K
429 CULG	02	0209	0212	0224	N19	E04	.237	17769	2,4	15	-F	C	0212	50	.5	
430 CULG	02	0248	0252	0313	N11	W61	.870	17763	28,5	25	-F	C	0252	20	.4	
431 CULG	02	0308	0328	0339D	N17	E04	.205	17769	2,4	31D	-N	P	0328	40	.4	
432 ABST	02	0626	0628	0652	S10	W63	.904	17760	28,5	26	?F	C	0628	87		DJ
		IMP.1 NO : CULG MITK														
433 ABST	02	0630	0632	0640	N19	E06	.249	17769	2,7	10	-F	C	0632	87	1.3	DJ
GRP96434	02	1300E	1301	1357	N17	E01	.194	17769	2,6	57	-N					K
			1323													
RAMY	02	1300E	1301	1357	N17	E01	.194	17769	2,6	57D	-N	3 C	39			K
RAMY	02	1300E	1323	1357	N17	E01	.194	17769	2,6	57D	-N	3 C	40			K
GRP96435	02	1510>9	1521+2	1547	N21	W34	.591	17774	31,1	37	-F					
BIGB	02	1510	1523	1540	N22	W35	.608	17774	31,0	30	-N	3 C	1523	60	.3	
RAMY	02	1521	1521	1553	N21	W34	.591	17774	31,1	32	-F	3 C	20			
GRP96436	02	1524+2	1527+1	1542	N18	W02	.213	17769	2,5	18	-N			90	.9	F
RAMY	02	1524	1527	1542	N18	W02	.213	17769	2,5	18	-N	3 C		131		F
BIGB	02	1525	1528	1547	N17	W04	.205	17769	2,3	22	-N	3 C	1528	80	.8	
HOLL	02	1526	1527	1532	N18	W02	.213	17769	2,5	6	-F	3 C		57		F
437 RAMY	02	1620	1625	1630	S20	W71	.963	17750	28,4	10	-F	3 C		36		
GRP96438	02	2010+2	2016+5	2039	N22	W35	.608	17774	31,2	29	-F			50	.6	E
BIGB	02	2010	2021	2048	N23	W35	.613	17774	31,2	38	-F	3 C	2021	70	.9	
PALE	02	2012	2016	2029	N22	W36	.620	17774	31,1	17	-F	3 C		36		E
439 HOLL	02	2026	2035	2037	S15	W67	.937	17760	28,8	11	-N	3 C		66		F
440 HOLL	02	2033	2034	2038	S19	W73	.970	17760	28,4	5	-N	3 C		40		F
GRP96441	02	2153>9	2204+2	2223	S12	W75	.973	17760	28,3	30	-N					
HOLL	02	2153	2204	2223	S11	W75	.972	17760	28,3	30	-N	3 C				
BIGB	02	2159	2206	2225	S12	W75	.973	17760	28,3	26	IN	3 C	2206	110		
PALE	02	2203	2205	2208	S14	W70	.952	17760	28,7	5	-F	3 C				
442 HOLL	02	2222	2222	2241	N20	W07	.271	17769	2,4	19	-F	3 C		41		F
GRP96443	03	0104E	0105	0111D	N25	W34	.611	17774	31,5	7	-F			50	.6	D
CULG	03	0104E	0105U	0111D	N26	W34	.618	17774	31,5	7D	-N	P	0105	30	.4	
VORO	03	0105E		0107D	N24	W35	.618	17774	31,4	2D	-F	P	0106	72	.9	D
444 CULG	03	0217	0221	0228	S15	E27	.559		5,1	11	-F	C	0221	20	.2	
GRP96445	03	0243>9	0251	0312	N22	W41	.678	17774	31,0	29	-F					J
			0259													
CULG	03	0243	0251	0316	N24	W42	.697	17774	31,0	33	-N	C	0251	70	.9	J
PALE	03	0257	0259	0307	N21	W41	.675	17774	31,0	10	-F	3 C		54		
446 CULG	03	0308	0315	0335	N07	E49	.751		6,8	27	-F	C	0315	30	.4	G
447 CULG	03	0314	0320	0350	N14	W12	.247	17769	2,2	36	-F	C	0320	50	.5	
448 CULG	03	0323	0328	0349	S21	W07	.466	17770	2,6	26	-F	C	0328	40	.4	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale		Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement		Remarks	
							Con Dist	Plage Region					Appar (Disk)	Corr (Sq Deg)		
GRP96449	03	0420E	0427	0454	S07	W78	.981	17760	28.3	34	1N				E	
TACH	03	0420E	0427	0440D	S08	W74	.966	17760	28.6	20D	1N	C 0427	176		E	
CULG	03	0432E	0432U	0454	S07	W82	.992	17760	28.0	22D	1F	P 0432	80			
450	CULG	03	0451	0456U	0516	N08	E85	.995	17775	9.6	25	-F	P 0456	20		
451	CULG	03	0504	0512	0522	N25	W37	.646	17774	31.4	18	-N	C 0512	60	.8	
452	CULG	03	0508	0512	0519	N14	E54	.806		7.3	11	-F	C 0512	40	.7	
453	CULG	03	0523	0525	0530	N17	W04	.204	17769	2.9	7	-F	C 0525	20	.2	
454	CULG	03	0600	0608	0619D	N17	W07	.226	17769	2.7	19D	-F	P 0608	50	.5	
455	KHAR	03	0817		0840	S08	E90	1.000	17777	10.1	23	-F	V 0826			H
GRP96456	03	0844+3	0848	0852	N21	W38	.640	17774	31.5	8	-F					H
KANZ	03	0844	0848	0852	N21	W38	.640	17774	31.5	8	-F	3				
KHAR	03	0847		0852	N22	W39	.655	17774	31.4	5	-F	V 0848				H
457	KANZ	03	0903	0911	0927	S10	W81	.991	17760	28.3	24	-N	3			
458	KANZ	03	0957	0957	1009	N20	W14	.335	17769	2.4	12	-F	2			
GRP96459	03	1119+2	1124+0	1138	S07	W78	.981	17760	28.6	19	-N					
KANZ	03	1119	1124	1147	S10	W86	.999	17760	28.0	28	-B	3				
RAMY	03	1121	1124	1129	S04	W71	.949	17760	29.1	8	1F	3 C	106			
460	RAMY	03	1214	1218	1241	N15	W14	.284	17769	2.5	27	-N	3 C	68		
461	RAMY	03	1228	1233	1241	S13	W81	.992	17760	28.4	13	-F	3 C	19		
462	RAMY	03	1255	1310	1324	N11	E78	.975	17775	9.4	29	-N	3 C	171		
GRP96463	03	1359+4	1405+0	1410	S10	W84	.996	17760	28.3	12	-F					
KANZ	03	1358	1405	1409	S08	W87	.999	17760	28.1	11	-N	2				
RAMY	03	1402	1405	1411	S13	W81	.992	17760	28.5	9	-F	3 C	11			
GRP96464	03	1417+0	1420+1	1428	N10	E77	.971	17775	9.4	11	-F					
RAMY	03	1417	1420	1426	N11	E77	.971	17775	9.4	9	-F	3 C	30			
KANZ	03	1417	1421	1429	N10	E77	.971	17775	9.4	12	-N	2				
465	RAMY	03	1424	1425	1428	N09	W78	.975	17763	28.7	4	-F	3 C	11		
466	KANZ	03	1441	1441	1457	S10	W85	.998	17760	28.2	16	-F	2			
GRP96467	03	1641+2	1646+4	1707	S09	E86	.999	17777	10.1	26	-N			40		D
HUAN	03	1641	1650	1703D	S09	E87	.999	17777	10.2	22D	-N	2 P	1650	30		D
BIGB	03	1643	1646	1707	S09	E85	.998	17777	10.1	24	-N	3 C	1646	50		
468	RAMY	03	1652	1657	1759	S03	E67	.924		8.7	67	-N	3 C	57		
469	PALE	03	1954E	1954U	2016	S10	E89	1.000	17777	10.5	22D	-F	3 C			
470	PALE	03	2019	2025U	2027D	S10	E89	1.000	17777	10.5	8D	?N	3 C			
				IMP.1 NO : BIGB												
471	PALE	03	2030	2037	2046	N11	E76	.967	17775	9.6	16	-F	3 C			
		03	2157	2201	NO FLARE PATROL											
472	CULG	03	2233E	2242U	2253D	N24	W48	.760	17774	31.3	20D	-F	P 2242	60	.9	
GRP96473	03	2328>9	2340+3	0014	S10	E85	.998	17777	10.4	46	1N			100		DHK
VORO	04	0011E		0022	S10	E85	.998	17777	10.4	11D	1N	P 0013	90			D
VORO	03	2328	2340	0006	S11	E88	1.000	17777	10.6	38	-B	C 2340	81			DKH
CULG	03	2357	2340	0001	S13	E85	.998	17777	10.4	24	1B	P 2340	120			
PALE	03	2341E	2343U	0024D	S08	E84	.996	17777	10.3	43D	-N	3 C				
BIGB	03	2341	2343	0015	S10	E84	.996	17777	10.3	34	-N	3 C	2343			
474	CULG	04	0015	0016	0026	S06	W59	.867	17767	30.6	11	-F	P 0016	20	.3	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	OMD	Hale Cen Dist	Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks	
GRP96475	04	0025+9	0041 0105	0145	S10	E83	.995	17777	10.2	80	1N					DH	
PURP	04	0025	0105	0145	S09	E78	.982	17777	9.9	80	1B	C	0105	129		H	
VORO	04	0038	0041	0101D	S11	E89	1.000	17777	10.7	23	1N	C	CJ41	90		DH	
476	CULG	04	0133	0135	0141	N25	W49	.772	17774	31.4	8	-F	C	0135	40	.6	H
477	CULG	04	0258	0300	0306	N24	W50	.780	17774	31.4	8	-N	C	0300	80	1.2	
478	CULG	04	0337	0338	0342	N10	E68	.923	17775	9.3	5	-F	C	0338	40	1.0	
479	CULG	04	0418E	0425U	0625D	N24	W53	.808	17774	31.2	127D	-N	P	0425	100	1.7	F
480	CULG	04	0514E	0520	0559	N18	W19	.376	17769	2.8	45D	-N	P	0520	60	.7	
481	HTPR	04	0629	0629	0630	S12	E71	.955	17777	9.6	1	-F	C	0629	20	.5	
GRP96482	04	0647+4	0657+1	0714	S09	E71	.953	17777	9.6	27	-R					H	
LEAR	04	0647	0657	0938	S07	E70	.946	17777	9.5	171	1B	* C		130		H	
ATHN	04	0651E	0658	0708	S10	E72	.959	17777	9.7	17D	1B	* V	0658	80	2.6		
HTPR	04	0651	0657	0701	S12	E71	.955	17777	9.6	10	-B	* C	0657	20	.5		
WEND	04	0656E		0720D	S08	E72	.957	17777	9.7	24D	-N	* C	0656	31			
483	HTPR	04	0649	0650	0700	N23	W55	.825	17774	31.2	11	-F	C	0650	30	.5	E
484	LEAR	04	0656	0659	0711	N18	W27	.484	17769	2.3	15	-F	3 C		38		
485	HTPR	04	0730	0732	0736	N23	W55	.825	17774	31.2	6	-F	C	0732	20	.4	
486	HTPR	04	0758	0840	0908	N23	W58	.851	17774	31.0	70	-F	C	0840	30	.6	E
487	HTPR	04	0811	0811	0813	S10	E70	.948	17777	9.6	2	-F	* C	0811	10	.2	
GRP96488	04	0815+6	0824+2	0848	N09	E70	.936	17775	9.6	33	1N			110		E	
WEND	04	0815	0826	0844	N09	E70	.936	17775	9.6	29	1N	C	0826	100			
LEAR	04	0815	0824	0855	N10	E68	.923	17775	9.4	40	-F	3 C		96			
MONT	04	0820	0826	0839	N09	E72	.947	17775	9.7	19	1N	C	0826	250			
HTPR	04	0821	0826	0852	N10	E70	.936	17775	9.6	31	1N	C	0826	120	2.8	E	
GRP96489	04	0822+1	0827 0850	0851	S10	E71	.954	17777	9.7	29	-B						
HTPR	04	0822	0850	0900	S12	E70	.950	17777	9.6	38	-N	* C	0850	40	.9		
ATHN	04	0823	0827	0842	S09	E72	.958	17777	9.7	19	1B	* V	0827	143	4.7		
490	HTPR	04	0910	0912	0930	S12	E70	.950	17777	9.6	20	-F	* C	0912	40	.9	
491	HTPR	04	0918	0922	0925	N23	W53	.806	17774	31.4	7	-N	C	0922	30	.5	
492	ABST	04	0934E	0935	0950	N22	W59	.858	17774	31.0	16D	-N	P	0935	87	1.7	DJ
GRP96493	04	0945+4	0950+1	0955	S11	E76	.976	17777	10.1	10	-N			60		DJ	
ABST	04	0945	0950	0956	S08	E80	.988	17777	10.4	11	1B	C	0950	131		DJ	
HTPR	04	0948	0951	0955	S12	E70	.950	17777	9.7	7	-N	C	0951	60	1.4	E	
MONT	04	0949	0951	0953	S11	E76	.976	17777	10.1	4	-F	C	0951	50		D	
GRP96494	04	1023+0	1024+3	1038	S11	E69	.944	17777	9.6	15	-F			45		E	
HTPR	04	1023	1024	1032	S12	E69	.945	17777	9.6	9	-F	C	1024	30	.7	E	
ATHN	04	1023E	1027	1043	S10	E70	.948	17777	9.7	20D	-N	2 V	1027	64	1.9		
495	HTPR	04	1046	1048	1055	S12	E69	.945	17777	9.6	9	-F	C	1048	30	.7	
GRP96496	04	1106+2	1108+3 1131	1150	S10	E70	.948	17777	9.7	44	-B					E	
HTPR	04	1106	1108	1150	S12	E69	.945	17777	9.6	44	-N	C	1131	60	1.4	E	
HTPR	04	1106	1131	1150	S12	E69	.945	17777	9.6	44	-N	C					
ATHN	04	1108	1111	1149	S09	E71	.953	17777	9.8	41	1B	2 V	1111	80	2.4		
497	HTPR	04	1217	1222	1231	S09	E71	.953	17777	9.8	14	-N	C	1222	60	1.4	CE



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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	OMD	Hale		OMP Day	Dur (Min)	Imp	Obs Type	Area Measurement			Remarks	
							Con Dist	Plage Region					Time (UT)	Appar (Disk)	Corr (Sq Deg)		
GRP96519	05	0530>9	0557	0604	N19	W35	.594	17769	2.6	34	-F					F	
HTPR	05	0530E		0608	N18	W32	.551	17769	2.8	38D	-F	C	0544	40	.5		
CULG	05	0555	0557	0600	N20	W38	.635	17769	2.4	5	-F	P	0557	40	.5	F	
GRP96520	05	0540	0549+1	0606	N09	E59	.853	17775	9.7	26	1N			150	2.9	E	
HTPR	05	0540	0550	0612	N10	E59	.853	17775	9.7	32	1N	C	0550	140	2.8	E	
CULG	05	0546E	0549	0600	N08	E60	.862	17775	9.7	14D	1N	P	0549	160	3.0		
521	HTPR	05	0636	0648	0708	N18	W32	.551	17769	2.9	32	-F	C	0648	20	.4	
GRP96522	05	0738+3	0739+6	0749	S07	E64	.908	17777	10.1	11	-N			60	1.4	E	
MOMT	05	0738	0739	0747	S07	E66	.921	17777	10.3	9	-N	C	0739	70			
HTPR	05	0739	0739	0749	S07	E62	.893	17777	10.0	10	-B	C	0739	60	1.3	E	
ATHM	05	0740E	0742	0750	S08	E66	.923	17777	10.3	10D	-B	3	V	0742	48	1.0	
KANZ	05	0741	0745	0749	S05	E63	.898	17777	10.0	8	-N	3					
523	HTPR	05	0845	0849	0900	N17	W34	.573	17769	2.8	15	-F	C	0849	20	.2	
524	HTPR	05	0907	0908	0910	N18	W34	.577	17769	2.8	3	-F	C	0908	30	.4	
525	HTPR	05	1131	1132	1137	S11	E57	.859	17777	9.8	6	-F	C	1132	20	.4	
GRP96526	05	1214	1216+2	1237	S10	E56	.848	17777	9.7	23	-N						
HTPR	05	1214	1216	1235	S11	E57	.859	17777	9.8	21	-B	C	1216	60	1.1		
KANZ	05	1215E	1218	1238	S10	E56	.848	17777	9.7	23D	-N	3					
527	KANZ	05	1226	1226	1234	N12	W43	.680	17769	2.3	8	-N	3				
528	KANZ	05	1303	1311	1322	N11	E54	.805	17775	9.6	19	-F	2				
529	HOLL	05	1340	1350	1428	S10	E57	.857	17777	9.8	48	-N	3	C	78		F
530	HOLL	05	1452	1453	1517	S10	E58	.866	17777	10.0	25	-N	3	C	18		
531	HOLL	05	1518	1524	1530	S10	E57	.857	17777	9.9	12	-N	3	C	36		
GRP96532	05	1540+2	1543+1	1607	S10	E57	.857	17777	9.9	27	-N			80	1.5	E	
KANZ	05	1540E	1544	1612	S10	E56	.848	17777	9.9	32D	-N	3					
HOLL	05	1541	1543	1608	S10	E59	.874	17777	10.1	27	-B	3	C	98		E	
HTPR	05	1542	1543	1605	S10	E55	.839	17777	9.8	23	-N	C	1543	60	1.0	E	
BIGB	05	1542	1544	1605	S10	E58	.866	17777	10.0	23	-B	3	C	1544	70	1.4	
533	HTPR	05	1619	1619	1623	N23	W70	.935	17774	31.4	4	-N	C	1619	20	.5	
534	HTPR	05	1631	1635	1646	S07	E57	.851	17777	10.0	15	-F	C	1635	20	.4	
535	HOLL	05	1728	1729	1736	N10	E53	.794	17775	9.7	8	-F	3	C	34		
GRP96536	05	1805	1805	1839	S10	E56	.848	17777	10.0	34	-N						
			1825														
HOLL	05	1805	1805	1839	S10	E56	.848	17777	10.0	34	-N	3	C	17		K	
HOLL	05	1805	1825	1839	S10	E56	.848	17777	10.0	34	-N	3	C	27		K	
537	HOLL	05	1853	1914	1927	S10	E56	.848	17777	10.0	34	-N	3	C	24		F
538	HOLL	05	1928	1933	1939	S10	E55	.839	17777	9.9	11	-F	3	C	21		
539	PALE	05	2034	2037	2048	S09	E55	.837	17777	10.0	14	-F	3	C	31		
GRP96540	05	2236+2	2242+1	2258	N13	W49	.752	17769	2.3	22	-N			50	.8	F	
CULG	05	2236	2242	2253	N14	W49	.753	17769	2.3	17	-N	C	2242	50	.7	F	
BIGB	05	2238	2243	2303	N13	W49	.752	17769	2.3	25	-N	3	C	2243	50	.8	
541	CULG	05	2358	2400	0006	S11	E51	.804	17777	9.8	8	-F	C	2400	40	.5	F
542	HOLL	06	0103	0104	0106	S06	E53	.812	17777	10.0	3	-N	3	C	21		
543	CULG	06	0111	0114	0119	S09	E54	.828	17777	10.1	8	-F	C	0114	80	1.3	







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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	O MD	Hale			Dur (Min)	Imp	Obs Type	Area Measurement			Remarks
							Gen Dist	Plage Region	OMP Day				Time (UT)	Appar (Disk)	Corr (Sq Deg)	
	08	0231	0237	NO FLARE PATROL												
	08	0239	0258	NO FLARE PATROL												
589	CULG	08 0309	0317U	0334D	S10	E30	.559	17777	10.4	25D	-F	P	0317	60	.7	F
590	ABST	08 0545	0548	0600	N25	E55	.827	17778	12.4	15	-F	C	0548	87	1.5	DJ
GRP96591	08 0658+3	0656+4	0703	S08	E22	.441	17777	9.9	5	-F						DJ
	KANZ	08 0658	0658	0702	S08	E21	.428	17777	9.9	4	-F	2				
	ABST	08 0701	0702	0704	S08	E23	.454	17777	10.0	3	-F	C	0702	87	.9	DJ
592	KANZ	08 0743	0756	0803D	N14	W88	.998	17769	1.7	20D	-N	2				
593	00 0000	0000	0000	00	00	.099	17777	31.0					0000			
593	00 0000	0000	0000	00	00	.099	17777	31.0					0000			
593	00 0000	0000	0000	00	00	.099	17777	31.0					0000			
593	00 0000	0000	0000	00	00	.099	17777	31.0					0000			
593	00 0000	0000	0000	00	00	.099	17777	31.0					0000			
593	HTPR	08 1224		1232D	S07	E25	.473	17777	10.4	8D	-N	C	1225	60	.7	E
594	RAMY	08 1436	1440	1453	S24	W09	.522	17776	7.9	17	-F	3 C		41		
595	HOLL	08 1520	1522	1538	S09	E24	.475	17777	10.4	18	-F	3 C		47		F
596	HUAN	08 1615	1617	1619	N11	E10	.190	17775	9.4	4	-F	1 C	1617	20	.2	D
GRP96597	08 1620+4	1631	1740	S09	E23	.462	17777	10.4	80	-F						E
	HUAN	08 1620		1637D	S08	E23	.454	17777	10.4	17D	-F	1 P	1629	20	.2	E
	BIGB	08 1624	1631	1740	S10	E24	.483	17777	10.5	76	-F	3 C	1631	70	.8	
598	PALE	08 1807	1809	1818	S08	E23	.454	17777	10.5	11	-F	3 C		43		E
GRP96599	08 2025+1	2027+0	2056	S13	E06	.344	17777	9.3	31	-B				160	1.7	E
	BIGB	08 2025	2027	2103	S13	E06	.344	17777	9.3	38	-B	3 C	2027	180	1.0	
	PALE	08 2026	2027	2048	S13	E06	.344	17777	9.3	22	-B	3 C		147		FE
	HUAN	08 2037E		2045D	S14	E06	.360	17777	9.3	8D	-F	1 P	2037	60	.7	E
600	HUAN	08 2055	2056	2059	S25	W11	.545	17776	8.0	4	-F	1 C	2056	10	.1	D
GRP96601	08 2129+0	2132+5	2222	S10	E20	.434	17777	10.4	53	-N				120	1.3	FI
	BIGB	08 2129	2132	2205	S10	E20	.434	17777	10.4	36	-N	3 C	2132	90	1.0	
	PALE	08 2129E	2137U	2222D	S10	E20	.434	17777	10.4	53D	-N	3 C		151		FE
	CULG	08 2158E	2158U	2239D	S10	E13	.355	17777	9.9	41D	1N	P	2158	240	2.6	FBI
602	CULG	09 0103	0106	0112D	S12	E17	.421	17777	10.3	9D	-N	P	0106	70	.8	
603	CULG	09 0121	0124	0131D	S31	E11	.626		9.9	10D	-F	P	0124	30	.4	
604	LEAR	09 0146	0147	0150	N15	W27	.468	17782	7.0	4	-F	3 C		31		
605	YUNN	09 0231	0238	0247	N16	W30	.514	17782	6.9	16	-N	C		161	1.9	
606	CULG	09 0256E	0256U	0259D	N14	E46	.718	17779	12.6	3D	-F	P	0256	80	1.2	
607	CULG	09 0256E	0258U	0259D	S14	E15	.425	17777	10.2	3D	-N	P	0258	120	1.2	
GRP96608	09 0348>9	0508+3	0542	N15	W30	.511	17782	6.9	114	-N				50	.6	FH
	CULG	09 0348U	0511U	0538U	N16	W31	.528	17782	6.8	110D	-N	P	0511	50	.6	
	LEAR	09 0451	0508	0542	N14	W30	.507	17782	7.0	51	-N	3 C		51		FH
GRP96609	09 0623+0	0625+0	0638	S24	W18	.574	17776	7.9	15	-N				110	1.3	F
	PURP	09 0623	0625	0638	S24	W19	.581	17776	7.8	15	-N	C	0625	133	1.6	
	ATHN	09 0623	0625	0642	S25	W16	.573	17776	8.1	19	-N	3 V	0625	111	1.4	
	LEAR	09 0623	0625	0636	S24	W18	.574	17776	7.9	13	-F	3 C		24		F
610	ATHN	09 0632	0634	0647	S08	E05	.261	17777	9.6	15	-B	3 V	0634	32	.3	
611	ATHN	09 0815	0818	0825	S08	E05	.261	17777	9.7	10	-F	3 V	0818	32	.3	
612	KHAR	09 0846	0848	0856	N15	W34	.566	17782	6.8	10	-F	V	0848			H
613	KANZ	09 0946	1000	1003	N13	W34	.561	17782	6.9	17	-F	2				
614	KHAR	09 1004	1007	1012	N15	W35	.580	17782	6.8	8	-F	V	1007			DH
615	KANZ	09 1028		1041D	N14	W34	.564	17782	6.9	13D	-F	2				

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Ond	Hale		DMP Day	Dur (Min)	Imp	Obs Type	Area Measurement			Remarks	
							Gen Dist	Plage Region					Time (UT)	Appar (Disk)	Corr (Sq Deg)		
GRP96616	09	1319E	1320	1323D	S06	E10	.273	17777	10.3	4	-F					EJ	
ABST	09	1319E	1320	1323D	S05	E15	.322	17777	10.7	4D	-F	P	1320	131	1.3	EJ	
ABST	09	1319E	1320	1323D	S08	E05	.261	17777	9.9	4D	-F	P	1320	131	1.3	EJ	
617	HOLL	09	1328	1332	1336	S23	W24	.609	17776	7.8	8	-F	3 C		23		
GRP96618	09	1501+0	1502+1 1528	1535	S12	W05	.325	17777	9.3	34	-B					K	
BIGB	09	1501	1503	1535	S12	W05	.325	17777	9.3	34	-B	3 C	1503	80	.8		
HOLL	09	1501	1502	1534	S12	W05	.325	17777	9.3	33	-B	3 C		31		FEK	
HOLL	09	1501	1528	1534	S12	W05	.325	17777	9.3	33	-N	3 C		57		K	
619	HOLL	09	1536	1537	1559	S09	E09	.305	17777	10.3	23	-N	3 C		36		F
GRP96620	09	1950+3	1953+0	2003	S13	W07	.350	17777	9.3	13	-F				50	.5	
BIGB	09	1950	1953	2008	S13	W07	.350	17777	9.3	18	-N	* C	1953	70	.7		
PALE	09	1953	1953	1957	S14	W07	.366	17777	9.3	4	-F	* C		30		FE	
GRP96621	09	1951+3	1955+5	2019	N14	W40	.644	17782	6.8	28	-F				70	.9	
HOLL	09	1951	1955	2019	N14	W40	.644	17782	6.8	28	-F	3 C		70			
BIGB	09	1952	1955	2019	N15	W40	.645	17782	6.8	27	-N	3 C	1955	80	1.1		
PALE	09	1954	2000	2002	N13	W40	.642	17782	6.8	8	-F	4 C		20			
622	HOLL	09	2104	2106	2113	N16	W38	.622	17782	7.0	9	-F	3 C		21		
623	CULG	10	0020	0024	0028	S13	E03	.335	17777	10.2	8	-F	P	0024	30	.3	
GRP96624	10	0052+0	0053+0	0057	N16	W40	.647	17782	7.0	5	-N				40	.5	H
PALE	10	0052	0053	0056	N15	W40	.645	17782	7.0	4	-F	3 C		33			
LEAR	10	0057	0053	0100	N16	W39	.634	17782	7.1	8	-N	3 C		36		H	
HOLL	10	0052	0053	0057	N16	W40	.647	17782	7.0	5	-B	3 C		50			
625	ABST	10	0422	0429	0505	S11	W01	.299	17777	10.1	43	-N	C	0429	131	1.4	EJK
626	CULG	10	0438	0440	0448	S24	W47	.819		6.7	10	-F	C	0440	40	.6	
627	CULG	10	0508	0519	0547	S11	E47	.765		13.7	39	-F	C	0519	100	1.6	
628	ABST	10	0508	0510	0513	S11	W01	.299	17777	10.1	5	-N	C	0510	131	1.4	DJK
GRP96629	10	0631+2	0634+4	0646	S12	W15	.401	17777	9.1	15	-N				140	1.5	EJK
CULG	10	0631	0634	0639D	S10	W18	.411	17777	8.9	8D	-F	P	0634	150	1.6		
ABST	10	0633	0636	0655	S13	W15	.414	17777	9.1	22	-N	C	0636	174	1.9	EJK	
ATHN	10	0633	0638	0642	S12	W11	.364	17777	9.4	9	-B	3 V	0638	95	1.0		
BUCA	10	0634E	0635	0649	S11	W15	.389	17777	9.1	15D	IN	C	0635	268	3.0		
LEAR	10	0636E	0636U	0643	S13	W16	.423	17777	9.1	7D	-F	2 C		43			
GRP96630	10	0657+2	0658+7	0727	S12	W15	.401	17777	9.2	30	1B				330	3.6	EIJK
YUNN	10	0657D	0704	0721	S11	W15	.389	17777	9.2	24D	1B	P		401	4.5		
PEKG	10	0657	0702	0705D	S11	W16	.400	17777	9.1	8D	1B	C	0702	273	3.1	EU	
BUCA	10	0657	0658	0743	S13	W13	.395	17777	9.3	46	2B	C	0658	820	8.5		
MITK	10	0658	0659	0737D	S12	W15	.401	17777	9.2	39D	1B	C	0659	250	2.8	EI	
ATHN	10	0658	0703	0713	S12	W11	.364	17777	9.5	15	1B	3 V	0703	255	2.8		
LEAR	10	0659	0659	0728D	S13	W15	.414	17777	9.2	29D	1B	3 C		352		FE	
ABST	10	0703E	0705	0720D	S13	W15	.414	17777	9.2	17D	1B	P	0705	349	3.7	EJK	
GRP96631	10	0745+2	0745+2	0754	S11	W02	.300	17777	10.2	9	-N				110	1.2	F
LEAR	10	0745	0746	0754	S12	W02	.317	17777	10.2	9	-N	3 C		162		F	
BUCA	10	0747E		0757	S11	W02	.300	17777	10.2	10D	-N	C	0747	107	1.2		
ATHN	10	0747	0748	0750	S11	W04	.260	17777	10.0	3	-B	3 V	0748	32	.3		
632	BIGB	10	1444	1445	1523	S10	W12	.346	17777	9.7	39	-F	3 C	1445	90	.9	
GRP96633	10	1615+2	1619 1637+0	1645	S13	W06	.346	17777	10.2	30	-N						F
RAMY	10	1615	1637	1645	S12	W05	.326	17777	10.3	30	-N	3 C		121			
BIGB	10	1616	1619	1653	S13	W06	.346	17777	10.2	37	-N	3 C	1619	70	.7		
HOLL	10	1617	1637	1643	S14	W06	.362	17777	10.2	26	-N	3 C		36		F	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Imp	Obs Type	Area Measurement			Remarks	
							Cent Dist	Plage Region	OMP Day				Time (UT)	Appar (Disk)	Corr (Sq Deg)		
GRP96634	10	1803+3	1811 1822+0	1901	S07	E55	.834	17784	14.9	58	1N		160	2.9	FKU		
HOLL	10	1803	1811	1819D	S07	E55	.834	17784	14.9	16D	1N 3 C		174		K		
HOLL	10	1803	1805	1819D	S07	E55	.834	17784	14.9	16D	-N 3 C		47		UK		
BIGB	10	1804	1822	1909	S10	E55	.840	17784	14.9	65	1B 3 C	1822	180	3.2			
PALE	10	1806	1822	1852	S07	E56	.843	17784	15.0	46	1F 3 C		150		F		
635 HOLL	10	1807	1808	1810	N11	W23	.394	17775	9.0	3	-F 3 C		20				
636 CULG	10	2212	2222U IMP.2 NO : BIGB	2252	N09	E85	.995	17788	17.3	40	?N	C	2222	180			
637 CULG	10	2212	2238U	2320	S13	W34	.628		8.4	68	-F	P	2238	100	1.3	FIJ	
638 CULG	10	2347	2349	2354	S11	W26	.517	17777	9.0	7	-F	C	2349	50	.6		
GRP96639	11	0038	0044 0059	0125	S10	W23	.472	17777	9.3	47	-N					F	
LEAR	11	0038	0044	0125	S11	W16	.400	17777	9.8	47	-F 3 C		113		F		
CULG	11	0052E	0059U	0124D	S10	W30	.561	17777	8.8	32D	1B	P	0059	420	5.0		
GRP96640	11	0144+0	0146+0	0211	S13	W25	.523	17777	9.2	27	1B		410	4.8	EI		
PALE	11	0144	0146	0209	S13	W24	.511	17777	9.3	25	2B 3 C		512		FE		
LEAR	11	0144	0146	0146D	S13	W25	.523	17777	9.2	2D	1B 3 C		411		FE		
BIGB	11	0144	0146	0213	S14	W26	.543	17777	9.1	29	1B 3 C	0146	300	3.4			
MITK	11	0156E		0202D	S12	W25	.514	17777	9.2	6D	1N	C	0157	250	3.0	EI	
641 CULG	11	0222E	0222U	0222D	S09	W29	.541	17777	8.9		-B	P	0222	120	1.3		
GRP96642	11	0233+1	0239	0245D	S10	W20	.435	17777	9.6	12	-N		90	1.0	F		
CULG	11	0233E	0234U	0234D	S11	W25	.506	17777	9.2	1D	-B	P	0234	90	1.0		
LEAR	11	0234	0239	0245D	S10	W16	.389	17777	9.9	11D	-F 3 C		104		F		
643 LEAR	11	0322	0324	0329	S25	W44	.800	17776	7.8	7	-F 3 C		28				
644 CULG	11	0348E	0348	0352	S10	W27	.523	17777	9.1	4D	-N	P	0348	80	.9		
GRP96645	11	0418	0418	0441	S13	W21	.477	17777	9.6	23	-B		110	1.2	DJV		
CULG	11	0418	0418	0446	S14	W31	.601	17777	8.9	28	-B	C	0418	130	1.5	V	
ABST	11	0423E	0423	0435	S12	W12	.374	17777	10.3	12D	-F	P	0423	87	.9	DJ	
GRP96646	11	0436+4	0440+0	0449	S24	W48	.827	17776	7.6	13	-F					EJ	
ABST	11	0436	0440	0455	S24	W50	.843	17776	7.4	19	-N	C	0440	87	1.7	EJ	
LEAR	11	0440	0440	0443	S25	W46	.816	17776	7.7	3	-F 3 C		30				
647 PEKG	11	0514	0531	0546	S10	E47	.762	17784	14.7	32	-N	C	0531	105	1.7	U	
648 HTPR	11	0551E		0623	S07	E48	.763	17784	14.8	32D	-F	C	0556	50	.7	E	
GRP96649	11	0551>9	0629	0700	S11	W12	.360	17777	10.3	69	-F					J	
HTPR	11	0551E		0702	S10	W13	.357	17777	10.3	71D	-N *	C	0637	80	.8	E	
ABST	11	0626	0629	0658	S12	W12	.374	17777	10.4	32	-F *	C	0629	87	.9	DJ	
96650	11	0623>9	0626 0639	0646	S10	W30	.561	17777	9.0	23	-N					HW	
CULG	11	0623	0626	0649	S10	W30	.561	17777	9.0	26	1B *	C	0626	370	4.4	WFH	
PEKG	11	0635	0639	0642	S11	W30	.567	17777	9.0	7	-F *	C	0639	97	1.2	E	
GRP96651	11	0737+5	0747+1	0820	S11	W16	.400	17777	10.1	43	2B					FIKZ	
ISTA	11	0737		0810	S12	W15	.402	17777	10.2	33	3B					F	
HTPR	11	0740E		0826D	S10	W14	.367	17777	10.3	46D	1B	C	0749	300	3.1	EK	
LEAR	11	0741	0747	0839	S13	W16	.424	17777	10.1	58	2B 3 C		977		ZF		
ATHN	11	0742	0748	0815D	S10	W18	.444	17777	10.0	33D	1B 3 V		0748	286	3.2		
PEKG	11	0745E	0747	0820	S12	W17	.423	17777	10.0	35D	2B	C	0747	652	7.4	FI	
652 KHAR	11	0902	0902	0915	S08	W17	.379	17777	10.1	13	-F	P				D	
653 HTPR	11	0918E		0930D	S07	W15	.344	17777	10.3	12D	-F	C	0922	30	.3		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale				Obs	Area Measurement			Remarks		
							cen Dist	Plage Region	OMP Day	Dur (Min)		Time (UT)	Appar (Disk)	Corr (Sq Deg)			
GRP96654	11	1313>9	1335+3	1345	S11	W18	.422	17777	10.2	32	-B						
RAMY	11	1313	1338	1340D	S12	W17	.423	17777	10.3	27D	1B	3	C	379			
ATHN	11	1333	1335	1345	S10	W20	.472	17777	10.1	12	-B	3	V	1335	127	1.4	
GRP96655	11	1313>9	1338 1447+1	1519	S13	W32	.605	17777	9.2	126	1B			300	3.7	EK	
RAMY	11	1313	1448	1450D	S14	W32	.612	17777	9.2	97D	1B	*	C	409		FEK	
RAMY	11	1313	1338	1450D	S14	W32	.612	17777	9.2	97D	1B	*	C	379		K	
BIGB	11	1430	1447	1518	S13	W32	.605	17777	9.2	48	1B	*	C	1447	180	2.2	
HTPR	11	1450E		1520	S13	W32	.605	17777	9.2	30D	1B	*	C	1450	300	3.5	E
656 HTPR	11	1349E		1402	S12	W12	.374	17777	10.7	13D	-N	*	C	1350	80	.8	E
	11	1405	1410	NO FLARE PATROL													
657 HTPR	11	1604		1605D	N16	E13	.275	17779	12.6	1D	-F		C	1605	20	.2	
658 HUAN	11	1700		1709D	S13	W21	.477	17777	10.1	9D	-F	1	P	1701	10	.1	E
659 BIGB	11	1717	1725	1802	N16	E45	.708	17783	15.1	45	-N	3	C	1725	50	.7	
GRP96660	11	1808+2	1808+3 1842+2	1912	S12	W25	.514	17777	9.9	64	-N			70	.8	EK	
BIGB	11	1808	1808	1816	S12	W20	.456	17777	10.3	8	-N	3	C	1808	70	.8	
PALE	11	1810E	1811U	1818D	S11	W18	.422	17777	10.4	8D	-F	3	C	57		E	
HOLL	11	1810	1811	1844D	S12	W29	.562	17777	9.6	34D	-N	3	C	93		K	
HOLL	11	1810	1844	1844D	S12	W29	.562	17777	9.6	34D	-B	3	C	125		K	
BIGB	11	1841	1842	1900	S13	W30	.562	17777	9.5	19	-N	3	C	1842	60	1.0	
HOLL	11	1858E	1858U	1923	S12	W20	.456	17777	10.3	25D	-N	3	C	122			
661 CULG	11	2217	2221	2227	S10	W50	.793		8.2	10	?N		P	2221	330	5.5	
			IMP.2 NO : BIGB														
662 BIGB	11	2219	2237	2350	S13	W32	.605	17777	9.5	91	-N	3	C	2237	110	1.3	
663 CULG	11	2225	2228	2250	S17	E85	.999	17790	18.3	25	?N		C	2228	160		
			IMP.1 NO : BIGB														
GRP96664	12	0000+9	0002+8	0013	S12	W41	.704	17777	8.9	13	-N			70	1.0	FI	
CULG	12	0000	0002	0008	S12	W41	.704	17777	8.9	8	-B		C	0002	70	.9	
PALE	12	0003	0005	0013	S12	W22	.479	17777	10.4	10	-F	3	C	60			
CULG	12	0009	0010	0019D	S09	W41	.691	17777	8.9	10D	-B		P	0010	150	1.9	FI
GRP96665	12	0043+1	0048 0059	0146	S10	W30	.561	17777	9.8	63	1N			260	3.1	FHI	
CULG	12	0029E	0035	0104	S11	W43	.722	17777	8.8	35D	-B		P	0035	100	1.4	FI
PEKG	12	0043	0048	0120	S09	W31	.567	17777	9.7	37	1N		C	0048	336	4.3	FI
LEAR	12	0044	0059	0213	S12	W29	.563	17777	9.9	89	1N	3	C	240		FH	
PALE	12	0103E	0103U	0144D	S10	W30	.561	17777	9.8	41D	1F	3	C	284		E	
BIGB	12	0120E	0124	0215D	S10	W30	.561	17777	9.8	55D	1B	3	P	0124	240	2.9	
GRP96666	12	0219+2	0221+1 0234+1	0258	S10	W28	.536	17777	10.0	39	1B						FIK
PEKG	12	0219	0235	0251	S10	W27	.523	17777	10.1	32	2N		C	0235	547	6.6	FIT
PEKG	12	0219	0221	0251	S09	W30	.554	17777	9.8	32	2B		C	0221	631	7.9	FIKT
LEAR	12	0221	0234	0304	S10	W27	.523	17777	10.1	43	1B	3	C	191		FEK	
LEAR	12	0221	0222	0304	S10	W27	.523	17777	10.1	43	-B	3	C	159		K	
667 LEAR	12	0311	0313	0318	S10	W27	.523	17777	10.1	7	-N	3	C	56		F	
668 LEAR	12	0318	0323	0331	S16	E56	.864	17786	16.3	13	-F	3	C	94			
GRP96669	12	0346+0	0347+1	0354D	S10	W25	.498	17777	10.3	8	-N			80	.9	EK	
PEKG	12	0346	0348	0433	S09	W26	.503	17777	10.2	47	-N		C	0348	105	1.2	EKT
LEAR	12	0346	0347	0354	S11	W25	.506	17777	10.3	8	-B	3	C	61			
CULG	12	0348E	0348	0350D	S10	W25	.498	17777	10.3	2D	-N		P	0348	80	.9	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	OMD	Hale			Dur (Min)	Imp	Obs Type	Area Measurement		Remarks
							Con Dist	Plage Region	OMP Day				Time (UT)	Appar (Disk)	
GRP96670	12	0417+1	0418+4	0435	S12	W30	.575	17777	9.9	18	IN		200	2.4	J
PEKG	12	0346	0421	0433	S11	W34	.617	17777	9.6	47	IN	C 0421	265	3.4	F
TACH	12	0417	0418	0436	S12	W30	.575	17777	9.9	19	IF	C 0418	292	3.6	E
LEAR	12	0418	0422	0434	S13	W29	.570	17777	10.0	16	-N	3 C	64		F
CULG	12	0418	0420	0439	S14	W26	.544	17777	10.2	21	-N	C 0420	170	2.0	
ABST	12	0418	0420	0422D	S12	W30	.575	17777	9.9	4D	IN	P 0420	174	2.1	EJ
671 LEAR	12	0544	0545	0550	S11	W26	.518	17777	10.3	6	-N	3 C	26		
GRP96672	12	0616+8	0626+7	0705	S10	W30	.561	17777	10.0	49	1B		290	3.5	FJKZ
HTPR	12	0616	0626	0715	S10	W25	.498	17777	10.4	59	1B	C 0626	200	2.2	E
CULG	12	0623	0633	0651	S10	W28	.536	17777	10.2	28	1N	C 0633	250	2.8	
ABST	12	0624	0628	0706	S12	W34	.623	17777	9.7	42	-B	C 0628	87	1.1	FJK
ATHN	12	0624	0629	0647	S10	W32	.586	17777	9.9	23	1B	3 V 0629	286	3.4	
LEAR	12	0624	0626	0720	S10	W28	.536	17777	10.2	56	1B	3 C	353		ZF
PEKG	12	0625E	0626	0730	S09	W30	.554	17777	10.0	65D	2N	C 0626	518	6.4	F
HTPR	12	0626	0627	0710	S10	W35	.623	17777	9.6	44	-N	C 0630	60	.7	E
HTPR	12	0626	0630	0710	S10	W35	.623	17777	9.6	44	-N	C			
PURP	12	0627		0652D	S09	W31	.567	17777	9.9	25D	2B	P 0642	553	7.5	
GRP96673	12	0737>9	0747+3	0815	S11	W36	.641	17777	9.6	38	-F				EHIU
HTPR	12	0737	0750	0815	S11	W35	.629	17777	9.7	38	-F	C 0750	80	1.0	EU
PEKG	12	0745	0747	0807	S09	W36	.630	17777	9.6	22	1N	C 0747	315	4.2	FITU
KHAR	12	0749		0819	S12	W36	.647	17777	9.6	30	-F	P 0758			EH
674 HTPR	12	0948	0950	0956	S11	W29	.555	17777	10.2	8	-F	C 0950	20	.2	E
675 HTPR	12	1011	1013	1019	S14	W38	.681	17777	9.6	8	-F	C 1013	20	.2	E
GRP96676	12	1023+1	1027+1	1036	S11	W31	.580	17777	10.1	13	-N		110	1.3	EHL
HTPR	12	1023	1027	1035	S11	W30	.568	17777	10.2	12	-B	C 1027	120	1.3	E
KHAR	12	1024	1028	1036	S12	W33	.611	17777	10.0	12	-N	P 1031	100	1.3	EHL
677 HTPR	12	1255		1319D	S14	W30	.590	17777	10.3	24D	-F	C 1309	60	.7	E
	12	1343	1352	NO FLARE PATROL											
GRP96678	12	1447	1501+0	1518	S24	W64	.936	17776	7.8	31	-N				
HOLL	12	1447	1501	1518	S24	W64	.936	17776	7.8	31	-N	3 C	40		
HOLL	12	1448	1522	1536	S11	W39	.676	17776	9.7	48	-N	* C	62		K
KANZ	12	1455E	1501	1508D	S25	W64	.938	17776	7.8	13D	-N	3			
BIGB	12	1516	1523	1549	S13	W44	.741	17776	9.3	33	-N	* C 1523	70	1.0	
GRP96679	12	1448	1449	1543	S11	W39	.676	17777	9.7	55	-N		60	.8	FK
			1522+1												
HOLL	12	1448	1449	1536	S11	W39	.676	17777	9.7	48	-N	3 C	29		FK
KANZ	12	1455E	1501	1508D	S07	W38	.646	17777	9.8	13D	-N	3			
680 HOLL	12	1509	1510	1514	N26	W06	.348	17778	12.2	5	-F	3 C	38		
GRP96681	12	1546	1606	1631D	S06	W39	.654	17777	9.7	45	-N				FK
			1628												
HOLL	12	1546	1606	1631D	S06	W39	.654	17777	9.7	45D	-N	* C	73		FK
HOLL	12	1546	1628	1631D	S0C	W39	.654	17777	9.7	45D	-N	* C	23		K
	12	1632	1647	NO FLARE PATROL											
682 HOLL	12	1649	1652	1657	S26	W75	.983	17776	7.1	8	-N	3 C			
GRP96683	12	1702>9	1704	1750D	S13	W40	.698	17777	9.7	48	-N				FK
			1740												
BIGB	12	1702	1704	1750	S14	W38	.681	17777	9.9	48	-N	3 C	1704	60	.8
HOLL	12	1740	1740	1901	S12	W42	.715	17777	9.6	81	1N	3 C	178		FK
HOLL	12	1740	1823	1901	S12	W42	.715	17777	9.6	81	-N	3 C	65		K
	12	1848	1855	NO FLARE PATROL											
684 HOLL	12	1904	1905	1909	S27	W87	1.000		6.3	5	-F	3 C			
685 HOLL	12	1951	1955	2009	S11	W39	.676	17777	9.9	18	-N	3 C	22		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	OMD	Hale		Dur (Min)	Imp	Obs Type	Area Measurement		Remarks		
							Pen Dist	Plage Region				Time (UT)	Appar (Disk) (Sq Deg)		Corr (Sq Deg)	
GRP96686	12	2038+5	2110+6 2222+0	2243	S11	W37	.653	17777	10.1	125	1B			FK		
HUAN	12	2038		2052D	S12	W49	.789	17777	9.2	14D	-N	1	P 2041	30	.5	
HOLL	12	2043	2116	2248	S10	W37	.648	17777	10.1	125	2B	3	C	466		FK
HOLL	12	2043	2222	2248	S10	W37	.648	17777	10.1	125	1B	3	C	214		K
PALE	12	2103	2110	2243	S11	W36	.641	17777	10.2	100	1B	3	C	316		F
BIGB	12	2105E	2105	2106D	S09	W37	.643	17777	10.1	1D	-B	1	P 2105	110	1.4	
CULG	12	2217	2222	2235	S12	W52	.818	17777	9.0	18	1N		C 2222	300	4.5	
GRP96687	12	2225+0	2228+3	2257	S13	E80	.990	17790	18.9	32	1N					
HOLL	12	2225	2228	2256	S13	E75	.974	17790	18.6	31	1B	3	C			
CULG	12	2225	2231	2257	S14	E85	.998	17790	19.3	32	1N		C 2231	150		
688 HOLL	12	2319	2326	2352	S18	E73	.970	17790	18.4	33	-N	3	C			
689 HOLL	12	2348	2350	2359	S08	W41	.687	17777	9.9	11	-N	3	C		34	
GRP96690	13	0000+9	0003 0010+6	0042	S08	W41	.687	17777	9.9	42	1B					FIK
CULG	13	0000	0010	0053	S08	W40	.675	17777	10.0	53	1N		P 0010	280	3.9	KFI
HOLL	13	0001	0003	0007D	S11	W41	.700	17777	9.9	6D	-B	3	C	80		
PEKG	13	0009	0016	0030	S08	W44	.722	17777	9.7	21	1B		C 0016	336	4.9	EF
	13	0127	0130	NO FLARE PATROL												
	13	0136	0139	NO FLARE PATROL												
GRP96691	13	0153+9	0201+4	0215	N15	E26	.452	17783	15.0	22	-F			100	1.1	E
CULG	13	0153	0201	0216	N16	E26	.457	17783	15.0	23	-F		C 0201	90	1.0	
PEKG	13	0203	0205	0213	N15	E27	.467	17783	15.1	10	-N		C 0205	165	1.2	E
692 PEKG	13	0203E	0205	0208D	S05	W47	.747	17777	9.6	5D	?N		P 0205	421	6.5	FU
		IMP.2 NO : CULG LEAR														
GRP96693	13	0249+1	0252+5	0328	S09	W41	.691	17777	10.0	39	1B					FIUZ
MITK	13	0211E		0302D	S09	W39	.667	17777	10.2	51D	-F		P 0302			I
CULG		0249	0252	0321	S09	W39	.667	17777	10.2	32	1B		C 0252	340	4.5	
LEAR		0250	0257	0334	S11	W46	.755	17777	9.7	44	1B	3	C	305		Z
PEKG	13	0255E	0307	0307D	S09	W44	.726	17777	9.8	12D	2B		P 0307	463	6.8	FIU
GRP96694	13	0343	0345+3	0354	S11	W56	.852	17777	9.0	11	-N			80	1.5	
LEAR	13	0343	0345	0354	S12	W57	.863	17777	8.9	11	-N	3	C	68		
CULG	13	0344E	0348	0350D	S11	W55	.843	17777	9.0	6D	-N		P 0348	100	1.8	
695 TACH	13	0442	0443	0448D	S10	W56	.850	17777	9.0	6D	?N		C 0443	133	2.8	E
		IMP.1 NO : CULG PEKG														
GRP96696	13	0507	0508	0614	S16	E69	.950	17790	18.4	67	1N					DJKV
ABST	13	0507	0508	0618	S16	E70	.955	17790	18.5	71	1N		C 0508	87		DJKV
WEND	13	0542E		0609	S16	E69	.950	17790	18.4	27D	-F		C 0542	44		
GRP96697	13	0631+9	0637+1 0644+1	0648	S10	W49	.783	17777	9.6	17	-F			110	1.7	EJ
ABST	13	0631	0637	0648	S10	W48	.773	17777	9.7	17	-N		C 0637	131	1.7	EJ
WEND	13	0632	0638	0655	S08	W47	.755	17777	9.7	23	-F		C 0638	113	1.7	
CULG	13	0635	0638	0648	S11	W54	.834	17777	9.2	13	-F		C 0638	40	.6	
LEAR	13	0636	0644	0648	S11	W48	.776	17777	9.7	12	-F	3	C	39		
YUNN	13	0640	0645	0646	S10	W50	.793	17777	9.5	6	-F		P	80	1.3	
GRP96698	13	0704	0708	0721	S16	E63	.916	17790	18.0	17	-N					IJ
HTRP	13	0704	0708	0721	S17	E62	.911	17790	17.9	17	-N		C 0708	40	.8	EI
ABST	13	0706E	0706	0706D	S16	E64	.922	17790	18.1		1F		P 0706	131		DJ
GRP96699	13	0711+5	0717+5	0749	S10	W55	.841	17777	9.2	38	1B					I
HTRP	13	0711	0718	0750	S12	W52	.818	17777	9.4	39	-B		C 0718	80	1.2	EI
WEND	13	0715	0721	0750	S08	W52	.807	17777	9.4	35	1N		C 0721	138	2.3	
LEAR	13	0716	0717	0735	S11	W55	.843	17777	9.2	19	-B	3	C	71		F
MONT	13	0719E	0719	0747	S11	W57	.860	17777	9.0	28D	1N		C 0719	250		
ATHN	13	0720E	0722	0805	S08	W58	.863	17777	9.0	45D	1B	3	V 0722	191	3.3	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	QMD	Gen Dist	Hale Plage Region	OMP Day	Dur (Min)	imp	Obs Type	Area Time (UT)	Measurement Apper (Disk)	Corr (Sq Deg)	Remarks	
GRP96700	13	0757+9	0806+8	0834	S10	W42	.707	17777	10.2	37	1B		19C	2.7			
LEAR	13	0757	0809	0839	S10	W41	.695	17777	10.3	42	1B	3 C		238		F	
HTPR	13	0803	0807	0831	S11	W43	.722	17777	10.1	28	-B	C 0807	120	1.6		E	
ATHN	13	0803E	0806	0830	S08	W38	.651	17777	10.5	27D	1B	3 V	0806	191	3.3		
MONT	13	0804	0808	0832	S09	W41	.691	17777	10.3	28	-N	C 0808	200				
KANZ	13	0806	0814	0845	S10	W44	.729	17777	10.0	39	1N	3					
GRP96701	13	0913+0	0913+1	0924	S12	W57	.863	17777	9.1	11	-F					E	
HTPR	13	0913	0914	0923	S13	W58	.873	17777	9.0	10	-F	C 0914	70	1.4		E	
KANZ	13	0913	0913	0924	S12	W56	.854	17777	9.2	11	-N	3					
702	HTPR	13	0942	0947	0955	S13	E61	.896	17790	18.0	13	-N	C 0947	40	.8		
703	HTPR	13	0951	0956	0959	S11	W51	.806	17777	9.6	8	-F	C 0956	20	.3		
GRP96704	13	1005+3	1009	1045	S10	W53	.822	17777	9.4	40	-N					E	
HTPR	13	1005	1009	1019	S07	W50	.785	17777	9.7	14	-F	C 1009	70	1.1		E	
KANZ	13	1008	1029	1040D	S10	W51	.803	17777	9.6	32D	1N	3					
HTPR	13	1032	1040	1045	S13	W59	.881	17777	9.0	13	-N	C 1040	40	.8		E	
705	HTPR	13	1014	1014	1022	S15	E68	.944	17790	18.5	8	-N	C 1014	20	.5		
706	HTPR	13	1051	1057	1100	S16	E68	.945	17790	18.6	9	-N	C 1057	30	.7		
707	HTPR	13	1056	1059	1103	S13	W60	.889	17777	9.0	7	-N	C 1059	50	1.0		E
GRP96708	13	1158	1200+5	1211	S09	W42	.703	17777	10.3	13	-N					E	
HTPR	13	1158	1200	1209	S11	W46	.755	17777	10.0	11	-F	C 1200	30	.4		E	
ATHN	13	1200E	1205	1213	S08	W38	.651	17777	10.7	13D	-B	3 V	1205	95	1.1		
GRP96709	13	1200+0	1205	1221	S16	E67	.940	17790	18.5	21	-N					E	
ATHN	13	1200E	1205	1220	S15	E70	.954	17790	18.8	20D	1N	3 V	1205	95	2.3		
HTPR	13	1200		1221D	S17	E64	.924	17790	18.3	21D	-N	C 1218	80	1.8		E	
GRP96710	13	1219	1225	1245	S07	W52	.805	17777	9.6	26	-F			100	1.7		E
WEND	13	1219	1225	1250D	S08	W53	.817	17777	9.5	31D	1F	C 1225	125	2.2			
HTPR	13	1231E		1239	S07	W52	.805	17777	9.6	8D	-F	C 1231	70	1.1		E	
711	KANZ	13	1336	1347	1347D	S11	W49	.86	17777	9.9	11D	1N	2				
712	ATHN	13	1336E	1339	1348	S08	E38	.651		16.4	12D	-B	3 V	1339	150	1.5	
GRP96713	13	1359E		1425	S09	W50	.790	17777	9.8	26	-F						
WEND	13	1359E		1438D	S08	W50	.787	17777	9.8	39D	-F	C 1359	75	1.2			
KANZ	13	1401E		1412	S10	W51	.803	17777	9.8	11D	-N	2					
714	KANZ	13	1405	1405	1412	N08	E25	.420	17783	15.5	7	-N	3				
GRP96715	13	1431+2	1434+1	1451	S12	W60	.887	17777	9.1	20	-N			50	1.1		
HOLL	13	1424E	1434U	1437D	S12	W64	.915	17777	8.8	13D	-N	* C		40			
KANZ	13	1431	1435	1447	S12	W59	.879	17777	9.2	16	-B	*					
BIGB	13	1433	1435	1454	S10	W60	.883	17777	9.1	21	-N	* C	1435	70	1.4		
716	KANZ	13	1610	1610	1628	S13	W50	.802	17777	9.9	18	-F	3				
717	PALE	13	1805	1812	1816	S12	W53	.828	17777	9.8	11	-F	3 C		32		
718	PALE	13	1934	1935	1939	S11	W52	.816	17777	9.9	5	-F	3 C		27		
719	PALE	13	2142E	2142U	2148D	S13	W65	.924	17777	9.0	6D	-F	3 C		45		
720	CULG	13	2238	2238	2243	S10	W62	.898	17777	9.3	5	-F	C 2238	40	.9		
GRP96721	13	2306+3	2310+4	2326	S11	W67	.933	17777	8.9	20	-F			50			
BIGB	13	2306	2314	2331	S11	W66	.927	17777	9.0	25	-N	2 C	2314	70			
CULG	13	2309	2310	2320	S12	W69	.946	17777	8.8	11	-F	C 2310	40				
96722	13	2313+1	2317+1	2334	S12	W50	.799	17777	10.2	21	-F			50	.8		
CULG	13	2313	2318	2332	S12	W51	.809	17777	10.1	19	-F	C 2318	50	.8			
BIGB	13	2314	2317	2336	S12	W50	.799	17777	10.2	22	-N	2 C	2317	60	1.0		

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AUGUST 1981

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	QMD	cen Dist	Hale Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks	
GRP96723	14	0010+7	0027 0039	0055D	S09	W66	.925	17777	9.1	45	-N					K	
CULG	14	0010	0039	0123	S08	W67	.930	17777	9.0	73	-N	C	0039	80	1.9	K	
BIGB	14	0017	0027	0055	S11	W66	.927	17777	9.1	38	-N	2 C	0027	70			
GRP96724	14	0022+5	0038+4 0119	0228D	N26	W25	.511	17778	12.1	126	1B			330	3.9	EIKU	
CULG	14	0022	0042	0228D	N25	W25	.511	17778	12.1	126D	1B	P	0042	420	5.0	IKFU	
BIGB	14	0027	0038	0118D	N26	W24	.500	17778	12.2	51D	1B	3 P	0038	240	2.7		
VORO	14	0100E		0157D	N26	W26	.522	17778	12.1	57D	2N	P	0104	448	5.2	E	
CULG	14	0110	0119	0228D	N31	W29	.595	17778	11.9	78D	-F	P	0119	30	.4		
PALE	14	0142E	0143U	0145D	N25	W25	.503	17778	12.2	3D	-F	3 C		169		E	
YUNN	14	0146E	0152	0200D	N26	W24	.500	17778	12.3	14D	1B	P		225	2.5		
GRP96725	14	0049+6	0056+0	0116	S09	W54	.829	17777	10.0	27	1B					EIK	
CULG	14	0049	0056	0116	S09	W54	.829	17777	10.0	27	1B	C	0056	150	2.6		
BIGB	14	0055	0056	0110	S09	W51	.800	17777	10.2	15	-B	3 C	0056	80	1.3		
VORO	14	0100E		0125	S10	W63	.906	17777	9.3	25D	2N	P	0101	448	11.5	EIK	
726	CULG	14	0143	0146	0159D	S20	E37	.708	17789	16.8	16D	-F	C	0146	30	.3	
727	CULG	14	0241E	0242	0333D	S17	E58	.883	17790	18.5	52D	-N	P	0242	60	1.4	K
728	YUNN	14	0251	0302	0317	N27	W24	.509	17778	12.3	16	?N	C		225	2.5	B
				IMP.1 NO : CULG TACH													
729	CULG	14	0312U	0321	0331	S10	W67	.932	17777	9.1	19D	-N	P	0321	70	1.8	U
		14	0336	0346	NO FLARE PATROL												
		14	0348	0354	NO FLARE PATROL												
730	CULG	14	0359	0402	0406D	S16	E23	.531	17786	15.9	7D	-N	P	0402	70	.9	E
731	CULG	14	0425	0427	0432	S12	W57	.863	17777	9.9	7	-F	C	0427	40	.8	
732	CULG	14	0425	0432	0443U	S10	W68	.938	17777	9.1	18D	-N	P	0432	60	1.6	
733	CULG	14	0438	0441	0453D	S12	W56	.854	17777	10.0	15D	-N	P	0441	70	1.4	
GRP96734	14	0519	0522+1 0541	0559	S08	W54	.827	17777	10.2	40	1B					E	
CULG	14	0519	0522	0559U	S08	W54	.827	17777	10.2	40D	-B	P	0522	70	1.3	E	
PEKG	14	0520E	0523	0540	S09	W54	.829	17777	10.2	20D	1B	C	0523	126	2.4	E	
ABST	14	0537E	0541	0600D	S08	W57	.854	17777	10.0	23D	1F	P	0541	131	2.5	E	
735	CULG	14	0548	0550U	0554	N11	E45	.703	17788	17.6	6	-F	P	0550	40	.6	
736	CULG	14	0635E	0638U	0648U	S09	W68	.937	17777	9.2	13D	-F	P	0638	40	.9	
737	CULG	14	0654E	0654U	0654D	S17	E56	.867	17790	18.5		?N	P	0654	120	2.6	
				IMP.1 NO : WEND KANZ													
GRP96738	14	0759+4	0805 0827+5	0835	S09	W58	.865	17777	10.0	36	-F			60	1.2	EH	
HTPR	14	0759	0827	0834	S10	W58	.867	17777	10.0	35	-F	C	0827	50	1.0	E	
KHAR	14	0803	0805	0824	S10	W57	.858	17777	10.1	21	-F	P	0805	20	.4	D	
KANZ	14	0824	0832	0839	S09	W58	.865	17777	10.0	15	-N	3					
KHAR	14	0828	0830	0836	S09	W60	.881	17777	9.9	8	-N	V	0832	60	1.5	EH	
739	HTPR	14	0832	0834	0838	S15	E59	.886	17790	18.8	6	-N	C	0834	30	.6	
740	KANZ	14	1323	1323	1327	S15	W60	.893	17777	10.1	4	-F	3				
GRP96741	14	1343+1	1345+2	1358	S20	E54	.860	17790	18.6	15	-N			30	.6		
HTPR	14	1343	1345	1358	S20	E52	.845	17790	18.5	15	-B	C	1345	30	.5		
KANZ	14	1343	1347	1359	S19	E54	.857	17790	18.6	16	-N	3					
RAMY	14	1344	1347	1357	S20	E54	.860	17790	18.6	13	-N	3 C		28			
GRP96742	14	1434+1	1434+4	1444	S11	W71	.955	17777	9.3	10	-F						
KANZ	14	1434	1434	1446	S12	W71	.956	17777	9.3	12	-F	3					
RAMY	14	1435	1438	1444	S11	W72	.960	17777	9.2	7	-F	3 C					



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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Obs Imp	Type	Area Measurement		Remarks
							Con Dist	Plage Region	OMP Day				Time (UT)	Appar (Disk)	
GRP96743	14	1533+2	1535+3	1543	S10	W70	.949	17777	9.4	10	-F				
BIGB	14	1533	1538	1555	S10	W70	.949	17777	9.4	22	-F	3 C	1538	80	
KANZ	14	1535	1535	1543	S12	W72	.961	17777	9.2	8	-N	3			
HOLL	14	1537E	1538U	1541	S09	W70	.948	17777	9.4	40	-F	2 C		17	
744 HTPR	14	1547	1548	1556	S15	E48	.791	17790	18.3	9	-N	C	1548	20	.3 E
GRP96745	14	1615+0	1625+1 1639	1648	S17	E50	.817	17790	18.4	33	-F				H
KANZ	14	1615	1625	1648	S17	E53	.843	17790	18.7	33	-F	3			
HOLL	14	1615	1626	1633	S17	E42	.740	17790	17.8	18	-F	3 C		16	H
HOLL	14	1636	1639	1647	S17	E53	.843	17790	18.7	11	-F	3 C		23	
746 HUAN	14	1703	1705	1707	S16	E43	.745	17790	17.9	4	-F	1 C	1705	20	.3 D
747 CULG	14	2213	2215	2227U	N13	E40	.641	17788	17.9	140	-F	P	2215	60	.8 F
748 CULG	14	2250	2257	2303	S18	E36	.685	17790	17.7	13	-F	C	2257	30	.4
749 CULG	14	2258	2259	2303	S12	W85	.990	17777	8.6	5	-F	C	2259	40	
GRP96750	14	2304+5	2311+5	2320	S08	W64	.910	17777	10.2	51	1N			140	3.3 FI
CULG	14	2304	2311	2355	S07	W66	.922	17777	10.0	51	1N	C	2311	110	2.7
MITK	14	2309	2313	2327	S10	W64	.913	17777	10.2	18	1N	C	2313	110	
HOLL	14	2309	2316	0007	S08	W64	.910	17777	10.2	58	1N	3 C		193	F
751 CULG	14	2328	2331	2344	S22	E47	.811	17790	18.5	16	-N	C	2331	70	1.3
752 CULG	14	2332	2341	0001	S18	E35	.674	17790	17.6	29	-F	C	2341	40	.5
753 CULG	14	2356	2359	0010	N14	E41	.656	17788	18.1	14	-F	C	2359	40	.6
754 CULG	15	0008	0014	0021	S18	E26	.582	17789	17.0	13	-N	C	0014	40	.5
755 CULG	15	0012	0014	0022	S16	E46	.775	17790	18.5	10	-F	C	0014	30	.5
756 CULG	15	0023	0026	0027D	S18	E45	.775	17790	18.4	40	-N	C	0026	30	.5
757 CULG	15	0059	0103	0119	S16	E42	.735	17790	18.2	20	-N	C	0103	60	.9 J
GRP96758	15	0108	0117	0122	S11	W83	.995	17777	8.8	14	-N			35	EK
CULG	15	0108	0117	0122	S10	W85	.998	17777	8.7	14	-N	C	0117	40	EK
YUNN	15	0122		0112D	S13	W82	.994	17777	8.9		-N	P		32	
GRP96759	15	0136+2	0139+0	0207	S12	W77	.981	17777	9.3	31	-N				FV
CULG	15	0136	0139	0203	S12	W85	.998	17777	8.7	27	1N	C	0139	110	V
LEAR	15	0138	0139	0211	S11	W76	.977	17777	9.4	33	-N	3 C			F
YUNN	15	0154E		0154D	S13	W77	.981	17777	9.3		-N	P		32	
760 LEAR	15	0408	0408	0412	S06	W74	.966	17777	9.6	4	-F	3 C			
761 CULG	15	0414	0416	0420	S13	E34	.630	17790	17.7	6	-F	C	0416	30	.4
GRP96762	15	0426+1	0431+0	0442	S16	E39	.704	17790	18.1	16	-F				D
CULG	15	0426	0431	0438	S16	E38	.693	17790	18.0	12	-F	C	0431	20	.3
ABST	15	0427	0431	0446	S17	E41	.730	17790	18.3	19	-F	C	0431	87	1.3 D
763 ABST	15	0513	0514	0528D	S13	W70	.952	17777	10.0	150	?F	P	0514	87	D
				IMP.1 NO : CULG											
764 ABST	15	0518E	0521	0538D	S19	E46	.789	17790	18.7	200	-F	P	0521	87	1.2 D
GRP96765	15	0538+4	0542+3	0554	S12	W74	.970	17777	9.7	16	-N				D
CULG	15	0538	0542	0550	S10	W79	.986	17777	9.3	12	-F	C	0542	30	
ABST	15	0542	0545	0558	S14	W70	.953	17777	10.0	16	1N	C	0545	87	D
GRP96766	15	0600+4	0603+2	0610	N05	W35	.571	17785	12.6	10	-F			70	.9 DJV
CULG	15	0600	0603	0610	N06	W34	.556	17785	12.7	10	-N	C	0603	60	.7
ABST	15	0604	0605	0610	N04	W36	.587	17785	12.6	6	-F	C	0605	87	1.1 DJV

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale		OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement		Remarks	
							cen Dist	Plage Region						Appar (Disk)	Corr (Sq Deg)		
GRP96767	15	0612+4	0616+5	0638	S13	E41	.710	17790	18.3	26	-F					DV	
CULG	15	0612	0621	0636	S14	E40	.704	17790	18.3	24	-N	C	0621	20	.3		
ABST	15	0615	0616	0639	S13	E43	.731	17790	18.5	24	-F	C	0616	87	1.3	DV	
GRP96768	15	0642	0646 0653	0714	S08	W66	.923	17777	10.3	32	-N					EI	
MITK	15	0642	0646	0718	S08	W65	.917	17777	10.4	36	1F	C	0646	100		EI	
KANZ	15	0644E	0653	0709	S09	W68	.937	17777	10.2	25D	-N	2					
769	KANZ	15	0717	0726	0729	S20	E45	.784	17790	18.7	12	-N	3				E
770	KANZ	15	0729	0729	0740	N13	E39	.628	17788	18.2	11	-F	3				G
GRP96771	15	1120E	1123 1130	1207	S10	W78	.983	17777	9.6	47	?B						
ATHN	15	1120E	1123	1124D	S10	W78	.983	17777	9.6	4D	?B	3	V	1123	95		
ATHN	15	1120E	1130	1207	S10	W78	.983	17777	9.6	47D	1B	3	V	1130	159		
GRP96772	15	1512+1	1517+0	1537	S26	W47	.830	17781	12.1	25	-F						
RAMY	15	1512	1517	1537	S26	W47	.830	17781	12.1	25	-F	3	C		30		
KANZ	15	1513	1517	1537	S26	W48	.837	17781	12.0	24	-F	2					
GRP96773	15	1533+4	1540+1	1545	S12	W73	.966	17777	10.2	12	-F						
KANZ	15	1533	1541	1543	S13	W74	.971	17777	10.1	10	-N	3					
HOLL	15	1537	1540	1546	S12	W73	.966	17777	10.2	9	-F	3	C				
GRP96774	15	1647	1648 1654	1701	N15	E47	.729	17792	19.2	14	-F					K	
RAMY	15	1647	1654	1701	N15	E47	.729	17792	19.2	14	-F	3	C		23	K	
RAMY	15	1647	1648	1701	N15	E47	.729	17792	19.2	14	-F	3	C		20	K	
GRP96775	15	1704+6	1710+6	1747	S25	W47	.825	17781	12.2	43	-F				60	1.0	
RAMY	15	1704	1714	1750	S26	W48	.837	17781	12.1	46	-F	*	C		95		
BIGB	15	1707	1710	1747	S25	W46	.752	17781	12.3	40	-F	3	C	1710	70	1.0	
HUAN	15	1709	1713	1730	S25	W46	.817	17781	12.3	21	-F	*	C	1713	20	.4	
HOLL	15	1710	1716U	1729D	S25	W49	.840	17781	12.0	19D	-F	*	C		48		
	15	2102	2136	NO FLARE PATROL													
776	CULG	15	2310	2317	2352	S15	E32	.621	17790	18.4	42	-N	C	2317	90	1.2	F
777	BIGB	15	2320E	2323	2349	S16	E77	.983	17796	21.7	29D	?N	3	P	2323	80	
778	CULG	16	0000	0007	0019	N13	E29	.488	17788	18.2	19	-N	C	0007	40	.5	E
779	CULG	16	0015	0023	0041	S17	E31	.626	17790	18.3	26	-N	C	0023	80	1.0	
780	CULG	16	0035	0037	0048	S07	E70	.946	17799	21.3	13	-N	C	0037	30		
781	CULG	16	0045	0048	0058	S15	E33	.633	17790	18.5	13	-N	C	0048	30	.4	
782	CULG	16	0134	0151	0206	S04	E70	.944	17795	21.3	32	?F	C	0151	100		
783	CULG	16	0447	0452	0503	S23	W56	.885	17781	12.0	16	-F	C	0452	50	1.0	
GRP96784	16	0501>9	0529+1	0611	S17	E31	.626	17790	18.5	70	-B						
LEAR	16	0501	0529	0613	S17	E32	.636	17790	18.6	72	-B	3	C		179		
CULG	16	0525	0530	0600	S17	E28	.594	17790	18.3	35	-B	C	0530	120	1.6	FK	
ABST	16	0533E	0533	0611	S17	E31	.626	17790	18.6	38D	1N	P	0533	253	3.3	BE	
785	KANZ	16	0717	0725	0733	N14	E86	.995	17798	22.8	16	-N	3				
786	KHAR	16	0720		0737	S45	E90	1.003		23.1	17	-F	V				HT
787	KANZ	16	0737	0748	0800	S10	W79	.986	17777	10.4	23	-F	3				
788	KHAR	16	0746		0813	S45	E90	1.003		23.1	27	-F	V				HT

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	OMD	Hale		Dur (Min)	Obs Imp	Type	Area Measurement		Remarks			
							Con Dist	Plage Region				Time (UT)	Appar (Disk)		Corr (Sq Deg)		
789	KHAR	16 0834		0944	S45	E90	1.000	17802	23.1	70	-F	V	0935	HT			
790	KANZ	16 0836	0840	0852	N14	E90	1.000	17802	23.1	16	-N	3					
791	LEAR	16 0903	0903	0912	S08	W81	.990	17777	10.3	9	-F	3	C				
792	KANZ	16 1014	1019	1025	S26	W54	.881	17781	12.4	11	-F	3					
793	RAMY	16 1124	1143	1144	S18	E27	.592	17790	18.5	20	-F	3	C	27			
794	RAMY	16 1212	1219	1230	N13	E84	.992	17798	22.8	18	-F	3	C				
795	RAMY	16 1224	1226	1230	S16	E28	.585	17790	18.6	6	-F	3	C	23			
79	RAMY	16 1230	1233	1236	S06	E72	.956	17800	21.9	6	-F	3	C				
GRP96797	RAMY	16 1310+1	1311+3	1319	S11	W85	.998	17777	10.2	9	-F						
	KANZ	16 1310	1314	1319	S11	W84	.997	17777	10.2	9	-F	3	C				
	RAMY	16 1311	1311	1319	S11	W86	.999	17777	10.1	8	-F	3					
GRP96798	KANZ	16 1319+2	1323+0	1329	S05	E71	.950	17800	21.9	10	-F						
	RAMY	16 1319	1323	1329	S05	E71	.950	17800	21.9	10	-F	3					
	RAMY	16 1321	1323	1329	S06	E72	.956	17800	22.0	8	-F	3	C				
GRP96799	HOLL	16 1613+1	1620+2	1637	N25	W58	.850	17778	12.3	24	-F		40	.8	E		
	HUAN	16 1613	1622	1642	N23	W60	.865	17778	12.2	29	-F	3	C	49			
	RAMY	16 1613	1637	1637	N25	W58	.850	17778	12.3	24	-F	1	C		E		
	RAMY	16 1614	1620	1632	N25	W58	.850	17778	12.3	18	-F	3	C	32			
800	RAMY	16 1619	1619	1627	S15	E22	.511	17790	18.3	8	-F	3	C	27			
801	RAMY	16 1651	1652	1654	S07	E68	.935	17800	21.8	3	-F	3	C	21			
GRP96802	RAMY	16 1728+0	1729+0	1731	S21	W86	1.000	17791	10.3	3	-F						
	HUAN	16 1728	1729	1732	S22	W82	.996	17791	10.6	4	-N	3	C				
	HUAN	16 1728	1729	1730	S21	W90	1.001	17791	10.0	2	-F	1	C	1729	20		
GRP96803	RAMY	16 1934+1	1937+4	2022	S15	E24	.533	17790	18.6	48	-N		80	.9			
	BIGB	16 1921	1939	2139	S15	E22	.511	17790	18.5	138	-N	3	C	152			
	HOLL	16 1934	1939	2030	S17	E26	.573	17790	18.8	56	-N	2	C	1939	80	.9	
	HUAN	16 1934	1937	2014	S15	E22	.511	17790	18.5	40	-N	3	C	78			
	HUAN	16 1935	1941	1959	S16	E26	.564	17790	18.8	24	-F	1	C	1941	10	.1	D
804	BIGB	16 2119	2129	2237	S30	W11	.618	17787	16.1	78	-N	2	C	2129	70	.7	
GRP96805	CULG	16 2232+3	2236+2	2310	S05	E66	.920	17800	21.9	38	1N					IV	
	BIGB	16 2235	2238	2318	S05	E66	.920	17800	21.9	43	1B	2	C	2238	180		
	MITK	16 2240E		2251	S04	E67	.925	17800	22.0	110	1F		C	2240	110		
806	CULG	16 2342	2344	2358	S11	W32	.594	17784	14.6	16	-B		C	2344	70	.9	
807	CULG	16 2347	2351	0017	S24	W70	.965	17781	11.7	30	?N		C	2351	170		
			IMP.1	NO : BIGB	LEAR	MITK										F	
808	CULG	17 0014	0019	0037	S16	E56	.865	17796	21.2	23	-F		C	0019	30	.6	
809	LEAR	17 0206	0208	0217	N26	W63	.890	17778	12.4	11	-F	3	C	17			
GRP96810	CULG	17 0223+2	0225+0	0233	N14	E27	.462	17792	19.1	10	-F		40	.5			
	LEAR	17 0223	0225	0235	N14	E27	.462	17792	19.1	12	-N		C	0225	50	.6	
	LEAR	17 0225	0225	0231	N14	E28	.477	17792	19.2	6	-F	3	C	34			
811	CULG	17 0227	0230	0240	S14	E17	.450	17790	18.4	13	-N		C	0230	30	.3	E
812	CULG	17 0238	0243	0256	S03	E59	.863	17795	21.5	18	-F		C	0243	40	.8	
GRP96813	CULG	17 0324E	0326	0344	S19	E17	.510	17790	18.4	20	-B					D	
	LEAR	17 0324E	0326U	0344D	S19	E16	.503	17790	18.3	20D	-B	P	0326	30	.3	D	
	LEAR	17 0327E	0341	0343	S19	E18	.519	17790	18.5	4D	-F	3	C	24			

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale		Dur (Min)	Obs Imp	Type	Area Time (UT)	Measurement		Remarks	
							cen Dist	Plage Region					Appar (Disk)	Corr (Sq Deg)		
GRP96814	17	0352	0406 0419	0436	S16	E16	.465	17790	18.4	44	-F					
LEAR	17	0352	0354	0357	S14	E17	.450	17790	18.4	5	-F	3	C	22		
CULG	17	0356E	0406U	0417	S13	E16	.428	17790	18.4	21D	-N	P	0406	70	.8	
CULG	17	0413E	0419U	0432U	S19	E15	.495	17790	18.3	19D	-N	P	0419	40	.4	
LEAR	17	0419	0427	0436	S19	E18	.519	17790	18.5	17	-F	3	C	30		
815 CULG	17	0359E	0359U	0409	S09	E41	.692	17794	20.2	10D	-N	P	0359	60	.8	
GRP96816	17	0438	0450 0541+3	0600	S16	E16	.465	17790	18.4	82	1N				EUV	
LEAR	17	0438	0542	0600	S15	E17	.462	17790	18.5	82	-N	*	C	99		
CULG	17	0439U	0450	0508D	S13	E15	.418	17790	18.3	29D	-B	P	0450	60	.7	
ABST	17	0507E	0508	0509D	S17	E15	.469	17790	18.3	2D	1N	P	0508	183	2.1	
PEKG	17	0520	0544	0610	S17	E16	.477	17790	18.4	50	1N	*	C	0544	210	2.4
ABST	17	0540	0541	0558	S16	E16	.465	17790	18.4	18	1N	*	C	0541	183	2.1
CULG	17	0541E	0541U	0558U	S14	E16	.440	17790	18.4	17D	-N	*	P	0541	80	.9
GRP96817	17	0450	0453 0506+2	0520	S17	E61	.905	17796	21.8	30	-N			70	1.6	DJ
PEKG	17	0450	0453	0520	S16	E61	.903	17796	21.8	30	-N	C	0453	34	.8	D
CULG	17	0503E	0506U	0516D	S17	E57	.876	17796	21.5	13D	-N	P	0506	60	1.4	
ABST	17	0507E	0508	0509D	S18	E61	.907	17796	21.8	2D	1F	P	0508	87		DJ
818 CULG	17	0541E	0543U	0601D	S17	E58	.883	17796	21.6	20D	-N	P	0543	50	1.2	
GRP96819	17	0633E	0639	0701	S09	E37	.644	17794	20.0	28	1N					EU
ABST	17	0633E	0639	0702D	S10	E37	.649	17794	20.0	29D	1N	P	0639	175	2.3	E
PEKG	17	0646E	0646	0700	S09	E37	.644	17794	20.1	14D	-N	C	0646	105	1.4	EU
820 ABST	17	0633E	0633	0702D	S19	E15	.495	17790	18.4	29D	-F	P	0633	87	1.0	D
821 CULG	17	0654E	0654U	0704D	S25	E45	.810	17793	20.7	10D	-N	P	0654	40	.8	
822 RAMY	17	1120	1126	1155	S02	E54	.815	17795	21.5	35	-F	3	C	79		
823 RAMY	17	1202	1202	1210	S19	E14	.488	17790	18.6	8	-F	3	C	41		
824 RAMY	17	1244	1245	1255	S25	W72	.974	17781	12.1	11	-F	3	C			
825 RAMY	17	1318	1333	1403	S18	E14	.474	17790	18.6	45	-F	3	C	33		
826 HOLL	17	1400	1421	1436	S03	E50	.775	17795	21.3	36	-F	3	C	30		
827 RAMY	17	1401	1407	1412	S11	W39	.678	17784	14.7	11	-F	3	C	26		
828 RAMY	17	1414	1415	1420	S05	E80	.987	17801	23.6	6	-N	3	C			
829 RAMY	17	1508	1524	1535	S05	E84	.996	17801	23.9	27	-F	3	C			
GRP96830	17	1553+1	1554+0	1559	S14	E19	.470	17790	19.1	6	-N			50	.6	
BIGB	17	1553	1554	1559	S15	E19	.481	17790	19.1	6	-N	3	C	1554	60	.7
RAMY	17	1554	1554	1559	S14	E19	.470	17790	19.1	5	-N	3	C		45	
831 BIGB	17	2205	2207	2219	S09	E75	.972	17801	23.5	14	-N	3	C	2207	60	
832 CULG	17	2236	2244	2302	S18	E06	.429	17790	18.4	26	-F	C	2244	60	.6	
833 PEKG	17	2326	2330	2331	S19	E07	.448	17790	18.5	5	-N	C	2330	50	.6	E
GRP96834	18	0034	0056+2	0117	S20	E07	.464	17790	18.5	43	-N					EJ
CULG	18	0034	0058	0123U	S21	E06	.475	17790	18.5	49D	-N	C	0058	100	1.1	J
PEKG	18	0045E	0045	0045D	S20	E07	.464	17790	18.6		-N	C	0045	42	.5	E
PALE	18	0054	0056	0110	S20	E08	.468	17790	18.6	16	-F	3	C	44		E
835 CULG	18	0048	0051	0056	S07	E80	.988	17801	24.0	8	?N	C	0051	60		
IMP.1 NO : BIGB PALE PEKG MITK																
836 CULG	18	0153	0158	0206U	S18	E47	.794	17796	21.6	13D	-N	P	0158	40	.7	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	OMD	Hale Cen Dist	Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP96837	18	0159>9	0212+4	0228	S15	E05	.380	17790	18.5	29	-F			90	1.0	E
LEAR	18	0159	0214	0237	S16	E06	.399	17790	18.5	38	-F	3 C		122		F
PALE	18	0210	0212	0223	S14	E05	.364	17790	18.5	13	-F	3 C		43		E
CULG	18	0215E	0216U	0228	S15	E05	.380	17790	18.5	13D	-N	P	0216	90	1.0	E
838 CULG	18	0237	0246	0302	S12	E02	.324	17790	18.3	25	-N	P	0246	40	.4	
GRP96839	18	0303>9	0309	0340	S18	E06	.430	17790	18.6	37	-F					E
CULG	18	0303E	0309	0340	S22	E06	.490	17790	18.6	37D	-N	P	0309	110	1.2	
PEKG	18	0320	0330	0339	S15	E06	.384	17790	18.6	19	-F	C	0330	59	.6	E
840 CULG	18	0303	0304	0313	N19	E13	.302	17792	19.1	10	-F	C	0304	40	.4	
GRP96841	18	0346+4	0349+6	0410	S14	W09	.384	17790	17.5	24	-N			50	.5	EW
CULG	18	0346	0349	0419	S14	W09	.384	17790	17.5	33	-N	C	0349	60	.6	W
PEKG	18	0350	0355	0400	S14	W09	.384	17790	17.5	10	-N	C	0355	78	.4	E
842 CULG	18	0349	0350	0353	S13	E12	.392	17790	19.1	4	-F	C	0350	30	.3	
GRP96843	18	0505+5	0512+1	0529	S07	E78	.982	17801	24.1	24	-N			70		D
CULG	18	0505E	0513U	0529	S07	E75	.971	17801	23.8	24D	-N	* P	0513	50		
LEAR	18	0510	0512	0521	S07	E78	.982	17801	24.1	11	-N	* C				
ABSI	18	0514E	0514	0533D	S06	E79	.984	17801	24.1	19D	IF	* P	0514	87		D
GRP96844	18	0506+0	0507+1	0517	S09	E50	.791	17800	22.0	11	-N			45	.7	D
CULG	18	0506E	0507	0513D	S09	E50	.791	17800	22.0	7D	-B	P	0507	40	.7	D
LEAR	18	0506	0508	0517	S09	E51	.801	17800	22.0	11	-N	3 C		50		
845 ABST	18	0559E	0600	0603	S18	W04	.424	17790	17.9	4D	-F	P	0600	87	1.0	DJ
GRP96846	18	0639+1	0641+6	0654	S14	W09	.384	17790	17.6	15	-B					HJL
ABST	18	0639	0645	0658	S15	W11	.412	17790	17.5	19	1N	C	0645	253	2.8	EJ
LEAR	18	0640	0644	0653	S15	W09	.399	17790	17.6	13	-N	3 C		108		
KANZ	18	0640	0643	0654	S14	W08	.378	17790	17.7	14	-B	3				L
WEND	18	0640	0641	0650	S14	W09	.384	17790	17.6	10	-N	C	0641	25	.3	H
BUCA	18	0640	0643	0652	S13	W07	.370	17790	17.6	12	-B	C	0643	107	1.2	D
CULG	18	0641E	0641U	0652D	S14	W07	.384	17790	17.6	11D	-B	P	0641	40	.4	
ATHN	18	0645	0647	0659	S15	W06	.384	17790	17.8	14	-B	3 V	0647	64	.7	
GRP96847	18	0706+3	0714+5	0805	S12	E31	.589	17794	20.6	59	1N			220	2.7	E
WEND	18	0706	0719	0751	S13	E31	.596	17794	20.6	45	1N	C	0719	188	2.3	
KANZ	18	0707	0714	0736D	S10	E31	.576	17794	20.6	29D	-N	2				
LEAR	18	0709	0714	0811	S12	E31	.589	17794	20.6	62	-N	3 C		155		F
BUCA	18	0711E		0737D	S11	E31	.582	17794	20.6	26D	1N	C	0713	322	4.1	E
ATHN	18	0732	0736	0805	S13	E35	.643	17794	20.9	33	-B	3 V	0736	143	1.9	
HTPR	18	0734E		0744D	S12	E32	.601	17794	20.7	10D	-N	C	0736	140	1.7	E
GRP96848	18	0859+8	0901	0915	S15	E03	.374	17790	18.6	16	-N					E
HTPR	18	0859E		0906D	S15	E03	.374	17790	18.6	7D	-N	C	0902	60	.6	E
KANZ	18	0901	0901	0913	S15	E03	.374	17790	18.6	12	-N	2				
KHAR	18	0907		0917	S13	E02	.340	17790	18.5	10	-F	V	0907			D
849 KHAR	18	1017		1025	S17	W04	.408	17790	18.1	8	-F	V	1018			D
	18	1056	1101	NO FLARE PATROL												
850 RAMY	18	1112	1130	1147	S17	E42	.741	17796	21.6	35	1F	3 C		170		
851 ATHN	18	1117	1121	1126	S15	W06	.384	17790	18.0	9	-B	3 V	1121	95	1.1	
GRP96852	18	1206+2	1208+1	1218	S18	E42	.746	17796	21.7	12	-N			30	.4	E
ATHN	18	1206	1209	1218	S18	E45	.775	17796	21.9	12	-B	3 V	1209	80	1.3	
RAMY	18	1208	1208	1218	S17	E42	.741	17796	21.7	10	-N	3 C		29		
HTPR	18	1208	1209	1216	S18	E41	.737	17796	21.6	8	-N	C	1209	30	.4	E
853 KANZ	18	1316	1316	1324	S13	W02	.340	17790	18.4	8	-N	2				

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	OMD	Hale			Dur (Min)	Imp	Obs Type	Area Measurement			Remarks	
							Con Dist	Plage Region	OMP Day				Time (UT)	Appar (Disk)	Corr (Sq Deg)		
GRP	54	18	1352+7	1357+4	1420	S15	E39	.699	17796	21.5	28	-N					
KANZ	18	1352	1357	1421	S14	E38	.683	17796	21.4	29	-N	2					
RAMY	18	1359	1401	1419	S17	E40	.721	17796	21.6	20	-N	3	C	20			
855	KANZ	18	1401	1401	1415	S04	E37	.622	17795	21.4	14	-F	2				
GRP96856	18	1433+1	1435	1442	S03	E37	.618	17795	21.4	9	-F			20	.3	E	
HTPR	18	1433E		1442	S03	E38	.632	17795	21.5	9D	-		C	1435	10	.1	
RAMY	18	1434	1435	1501	S02	E37	.615	17795	21.4	27	-N	3	C		71		
HUAN	18	1435E		1437	S03	E37	.618	17795	21.4	20	-F	1	P	1436	20	.3	E
GRP96857	18	1457+7	1505+1	1519	S15	E38	.688	17796	21.5	22	-N			60	.8	E	
HTPR	18	1457	1505	1514	S15	E39	.699	17796	21.5	17	-N		C	1505	60	.8	E
BIGB	18	1504	1506	1523	S16	E38	.694	17796	21.5	19	-N	3	C	1506	70	.9	
GRP96858	18	1615+0	1617+0	1624	S05	E68	.933	17801	23.8	9	-N			45			
RAMY	18	1615	1617	1622	S05	E68	.933	17801	23.8	7	-N	3	C		47		
BIGB	18	1615	1617	1625	S05	E68	.933	17801	23.8	10	-N	3	C	1617	40		
GRP96859	18	1650+0	1650+3	1659	S17	E39	.711	17796	21.6	9	-N						
HOLL	18	1650	1650	1656	S17	E39	.711	17796	21.6	6	-N	3	C		22		
BIGB	18	1650	1653	1701	S18	E39	.717	17796	21.6	11	-N	3	C	1653	70	.8	F
GRP96860	18	2012+1	2013+2	2022	S14	W16	.441	17790	17.6	10	-N			50	.6		
HOLL	18	2012	2013	2020	S13	W17	.438	17790	17.6	8	-N	3	C		49		
PALE	18	2013	2015	2024	S15	W16	.453	17790	17.6	11	-N	3	C		60		
GRP96861	18	2116>9	2123+4	2138	S16	W14	.449	17790	17.8	22	-F			50	.6	F	
HOLL	18	2116	2123	2143D	S15	W12	.420	17790	18.0	27D	-F	3	C		62		
PALE	18	2126	2127	2133	S17	W16	.478	17790	17.7	7	-F	3	C		40		
862	CULG	18	2158	2200U	2209	N11	W48	.738	17797	15.3	11	-N		P	2200	50	.7
GRP96863	18	2236+2	2239+1	2301	S18	E36	.686	17796	21.6	25	-F			40	.5	DJ	
CULG	18	2236	2240U	2301	S18	E36	.686	17796	21.6	25	-N		C	2240	30	.4	
VORO	18	2237	2240	2249	S18	E38	.706	17796	21.8	12	-F		C	2240	81	1.1	
HOLL	18	2238	2239	2301	S17	E36	.679	17796	21.6	23	-F	3	C		35		
GRP96864	18	2248>9	2254	2316	N09	W49	.750	17797	15.3	28	-F						
CULG	18	2248	2254	2312	N09	W48	.738	17797	15.3	24	-F		C	2254	40	.6	
VORO	18	2305	2311	2320	N10	W50	.761	17797	15.2	15	-F		C	2311	72	1.1	
GRP96865	18	2254>9	2310+1	2326	S14	W12	.406	17790	18.1	32	-N			45	.5	E	
CULG	18	2254	2310	2322	S13	W12	.392	17790	18.1	28	-N		C	2310	40	.4	
BIGB	18	2307	2311	2329	S16	W12	.435	17790	18.1	22	-N	3	C	2311	50	.5	
GRP96866	18	2351+4	2358+3	0010	S04	E15	.316	17794	20.1	19	-F						
CULG	18	2351	2401	0026	S04	E15	.316	17794	20.1	35	-N		C	2401	70	.7	
LEAR	18	2355	2359	0010	S03	E15	.307	17794	20.1	15	-F	3	C		22		
BIGB	18	2355	2359	0010	S04	E16	.330	17794	20.2	15	-F	3	C	2359	70	.8	
PEKG	18	2358E	2358	0009	S04	E15	.316	17794	20.1	11D	-F		P	2358	17	.2	
867	CULG	19	0013	0019	0027	S04	E30	.528	17795	21.3	14	-N		C	0019	70	.8
868	CULG	19	0016	0019	0028	N13	E52	.783	17798	22.9	12	-F		C	0019	20	.3
869	CULG	19	0019	0020	0029	S08	E65	.917	17801	23.9	10	-F		C	0020	30	
GRP96870	19	0041+4	0045+1	0057	S14	E30	.592	17796	21.3	16	-F			40	.5	J	
CULG	19	0026	0045	0103	S15	E30	.600	17796	21.3	37	-N		C	0045	30	.4	
VORO	19	0041	0045	0057	S13	E31	.596	17796	21.4	16	-F		C	0045	63	.8	
HOLL	19	0043	0046	0056	S13	E30	.585	17796	21.3	13	-F	2	C		28		
BIGB	19	0043	0046	0059	S15	E31	.611	17796	21.4	16	-F	3	C	0046	50	.6	
LEAR	19	0045	0046	0056	S14	E30	.592	17796	21.3	11	-F	3	C		23		
871	CULG	19	0052	0101	0128	N03	E24	.410		20.8	36	-N		C	0101	40	.4
872	CULG	19	0106	0115	0128	S18	E35	.676	17796	21.7	22	-N		C	0115	30	.4
873	CULG	19	0108	0115	0123	N10	W54	.803	17783	15.0	15	-N		C	0115	50	.8

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	OMD	Can Dist	Hale Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
874	CULG	19 0117	0123	0140	S16	W20	.503	17790	17.6	23	-F	C	0123	80	.9	
875	CULG	19 0137	0146	0206	S09	W58	.865	17784	14.7	29	-F	C	0146	60	1.3	
876	CULG	19 0208	0212	0219	S16	W21	.513	17790	17.5	11	-F	C	0212	50	.6	
GRP96877	19 0312+7	0317+4	0355	S16	W18	.484	17790	17.8	43	-N				70	.8	K
	CULG	19 0300	0317	0415	S17	W15	.470	17790	18.0	75	-N	C	0317	20	.2	DK
	CULG	19 0312	0319	0358	S16	W20	.503	17790	17.6	46	-B	C	0319	130	1.5	
	PALE	19 0318E	0332U	0353	S17	W18	.496	17790	17.8	35D	-F	2 C		92		
	YUNN	19 0319	0321	0334D	S16	W20	.503	17790	17.6	15D	-N	P		161	1.9	
	PEKG	19 0320E	0334	0340	S15	W21	.502	17790	17.6	20D	-N	C	0334	7'	.8	E
	PEKG	19 0328	0339	0357	S17	W15	.470	17790	18.0	29	-F	P	0339	42	.5	D
878	CULG	19 0320	0324	0338	S15	W02	.373	17790	19.0	18	-N	C	0324	50	.5	
GRP96879	19 0524+7	0531+6	0610	S12	W61	.895	17784	14.7	46	-F						D
	CULG	19 0524	0537	0609	S09	W59	.874	17784	14.8	45	-N	C	0537	30	.7	
	LEAR	19 0531	0531	0555	S13	W61	.897	17784	14.7	24	-F	3 C		19		
	HTPR	19 0538E		0619	S15	W62	.908	17784	14.6	41D	-F	C	0548	30	.6	
	ABST	19 0538E	0546	0610	S11	W66	.928	17784	14.3	32D	-N	P	0546	87		D
GRP96880	19 0546+7	0553+2	0603	N10	W54	.803	17797	15.2	17	-F				60	1.0	D
	CULG	19 0546	0553	0607	N10	W53	.793	17797	15.3	21	-F	C	0553	40	.6	
	ABST	19 0553	0555	0558	N11	W56	.823	17797	15.0	5	-F	C	0555	87	1.5	D
GRP96881	19 0621+6	0628+1	0634	S08	E64	.910	17801	24.1	13	-F				50	1.2	D
	CULG	19 0621	0628	0634	S08	E62	.895	17801	23.9	13	-F	C	0628	50	1.1	
	ABST	19 0623	0629	0634	S12	E64	.916	17801	24.1	11	-F	C	0629	87		D
	LEAR	19 0627	0629	0644	S07	E64	.909	17801	24.1	17	-F	3 C		32		
GRP96882	19 0815+3	0818+4	0834	00	E27	.466	17795	21.4	19	-N				40	.5	D
	HTPR	19 0815	0819	0836	S01	E27	.470	17795	21.4	21	-B	C	0819	20	.2	
	WEND	19 0815	0821	0831	S00	E26	.451	17795	21.3	16	-N	C	0821	50	.6	
	ATHN	19 0816	0818	0835	S01	E28	.485	17795	21.4	19	-N	3 V	0818	64	.8	
	LEAR	19 0816	0818	0837	S00	E27	.466	17795	21.4	21	-N	3 C		47		
	YUNN	19 0816	0820	0829	S00	E27	.466	17795	21.4	13	-N	C		16	.2	D
	KANZ	19 0818	0822	0833	N01	E26	.447	17795	21.3	15	-N	3				
883	WEND	19 0902	0903	0908	S15	W22	.513	17790	17.7	6	-F	C	0903	28	.3	
884	HTPR	19 1130	1159	1223	S13	E75	.975	17801	25.1	53	-F	C	1159	20		
GRP96885	19 1239+9	1253	1448	S14	E25	.536	17796	21.4	129	1B						LU
	KANZ	19 1239	1309	1456	S13	E24	.515	17796	21.3	137	2B	3				UL
	ATHN	19 1245	1253	1404	S16	E28	.586	17796	21.6	79	1B	3 V	1253	318	4.1	
	WEND	19 1250	1300	1310D	S15	E23	.523	17796	21.3	20D	1N	C	1300	236	2.7	
	HUAN	19 1325E		1329	S15	E25	.545	17796	21.4	4D	-N	1 P	1325	100	1.2	U
	HOLL	19 1329E	1331U	1625	S15	E24	.534	17796	21.4	176D	1N	1 C		306		F
	BIGB	19 1410E	1411	1502	S14	E26	.547	17796	21.5	52D	-N	3 P	1411	130	1.5	
	HTPR	19 1447E		1511	S12	E25	.518	17796	21.5	24D	-F	C	1450	60	.7	E
GRP96886	19 1418+9	1439+3	1500	S06	E24	.456	17799	21.4	42	-F						E
	HOLL	19 1418	1439	1450	S01	E25	.441	17799	21.5	32	-F	3 C		44		
	KANZ	19 1429	1441	1500	S06	E25	.470	17799	21.5	31	-F	3				
	HOLL	19 1436	1442	1456	S07	E24	.464	17799	21.4	20	-F	3 C		39		
	HTPR	19 1447E		1535	S08	E22	.446	17799	21.3	48D	-F	C	1447	60	.6	E
887	HOLL	19 1444	1447	1451	N10	W56	.823	17797	15.4	7	-F	3 C		16		
888	HTPR	19 1453	1454	1459	S16	W27	.576	17790	17.6	6	-F	C	1454	50	.6	E
GRP96889	19 1453+6	1500+2	1511	S12	E38	.672	17800	22.5	18	-F						
	KANZ	19 1453	1500	1510	S12	E38	.672	17800	22.5	17	-F	3				
	HOLL	19 1459	1502	1511	S13	E38	.677	17800	22.5	12	-F	3 C		24		
890	HTPR	19 1516	1656	1700	S 3	E25	.527	17796	21.5	104	-F	C	1656	30	.3	E

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	OMD	Hale Cen Dist	P:age Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks	
891	HTPR	19	1524	1546	1610	S05	E70	.945	17801	24.9	46	-F	C	1546	30	.7	
892	HTPR	19	1542	1546	1551	S18	W15	.483	17790	18.5	9	-F	C	1546	20	.2	
GRP96893		19	1550+1	1552+1	1615	S17	W27	.585	17790	17.6	25	-B			90	1.1	H
	HOLL	19	1550	1552	1619	S17	W26	.574	17790	17.7	29	-B	3 C		59		FH
	HTPR	19	1550	1601	1613	S16	W28	.586	17790	17.6	23	-N	C	1601	120	1.4	E
	BIGB	19	1551	1553	1616	S18	W28	.604	17790	17.6	25	-B	3 C	1553	120	1.4	
	KANZ	19	1600E	1600	1611	S18	W27	.594	17790	17.6	11D	-B	3				
894	HOLL	19	1919	1922	1948	S17	W18	.496	17790	18.5	29	-N	3 C		102		
895	HOLL	19	2005	2024	2039	S18	W17	.499	17790	18.6	34	-F	3 C		38		
896	HUAN	19	2105E		2110D	S16	W30	.608	17790	17.6	5D	-F	1 P	2105	10	.1	D
897	CULG	19	2202	2235	2315	S12	W23	.494	17790	18.2	73	-F	C	2235	80	.9	
898	CULG	19	2228	2231	2236	S08	E23	.459	17800	21.7	8	-F	C	2231	30	.3	
GRP96899		19	2328	2329+2	2347	S16	W31	.619	17790	17.7	19	-N			70	.9	
	BIGB	19	2328	2331	2347	S17	W32	.637	17790	17.6	19	-N	3 C	2331	70	.9	
	CULG	19	2329E	2329U	2346	S16	W31	.619	17790	17.7	17D	-N	P	2329	70	.8	
900	CULG	19	2353	2355	2359	S12	E59	.880	17801	24.4	6	-F	C	2355	20	.5	
901	HOLL	19	2356	2356	0005	S03	E16	.321	17799	21.2	9	-F	2 C		24		
GRP96902		20	0005E	0014+2	0100	S14	W23	.514	17790	18.3	55	1B			400	4.6	EI
	BIGB	20	0005	0014	0106	S14	W23	.514	17790	18.3	61	1B	* C	0014	380	4.3	
	LEAR	20	0014E	0015U	0100	S14	W23	.514	17790	18.3	46D	2N	* C		494		F
	PALE	20	0020E	0022U	0106D	S15	W21	.503	17790	18.4	46D	-F	* C		141		E
	YUNN	20	0022E	0025	0034	S14	W23	.514	17790	18.3	12D	1F	* P		241	2.7	E
	CULG	19	2339	2416	0057	S13	W23	.504	17790	18.3	78	1B	* C	2416	320	3.8	I
903	YUNN	20	0058	0106	0110	N08	W62	.878	17797	15.4	12	-F	C		32	.7	D
904	CULG	20	0123	0125	0237	S15	W12	.421	17790	19.2	74	-F	C	0125	60	.7	K
GRP96905		20	0221+5	0226+1	0244	N10	E37	.598	17798	22.9	23	-N			80	1.0	D
	CULG	20	0221	0226	0245	N10	E37	.598	17798	22.9	24	-N	C	0226	80	1.0	
	YUNN	20	0225	0234	0239	N10	E37	.598	17798	22.9	14	-F	C		16	.2	D
	PALE	20	0226	0227	0244D	N10	E36	.584	17798	22.8	18D	-N	3 C		81		
	LEAR	20	0226	0227	0244	N09	E37	.598	17798	22.9	18	-B	3 C		92		
GRP96906		20	0312	0324	0435	S17	W26	.574	17790	18.2	83	-F					EIK
	CULG	20	0312	0324	0435	S17	W25	.564	17790	18.3	83	-F	C	0324	90	1.0	IK
	ABST	20	0358E	0358	0409D	S17	W27	.585	17790	18.1	11D	1F	P	0358	175	2.2	BE
907	CULG	20	0316	0319	0328	S18	E18	.508	17796	21.5	12	-F	C	0319	30	.3	
GRP96908		20	0409+6	0419+6	0439	S15	W13	.428	17790	19.2	30	-N			100	1.1	EI
	CULG	20	0409	0419	0448	S15	W13	.428	17790	19.2	39	-N	C	0419	110	1.2	I
	PEKG	20	0415	0425	0430	S15	W14	.437	17790	19.1	15	-N	P	0425	92	1.0	E
GRP96909		20	0413>9	0418+1	0442	S17	E19	.505	17796	21.6	29	-N			100	1.1	E
	CULG	20	0413	0419	0442	S18	E19	.517	17796	21.6	29	-B	* C	0419	90	1.0	E
	LEAR	20	0415	0418	0445	S17	E19	.505	17796	21.6	30	-F	* C		105		
	PEKG	20	0424	0425	0430	S15	E18	.473	17796	21.5	6	-N	* C	0425	101	1.2	E
GRP96910		20	0414>9	0417	0429	S16	W35	.663	17790	17.6	15	-N					E
	CULG	20	0414	0417	0430	S16	W35	.663	17790	17.6	16	-N	C	0417	50	.7	
	PEKG	20	0424	0425	0427	S17	W36	.680	17790	17.5	3	-N	C	0425	46	.6	E
911	CULG	20	0420	0422	0427	S07	E22	.438	17800	21.8	7	-N	C	0422	30	.3	



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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	QMD	Cen Dist	Hale Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
912	HTPR	20 0538E		0612	S16	W11	.428 17790	19.4	34D	-F	C	0557	30	.3	E	
913	CULG	20 0550	0554	0558	S05	W02	.208 17794	20.1	8	-F	C	0554	30	.3		
914	PEKG	20 0612	0618	0621D	S19	W45	.781 17789	16.9	9D	-N	P	0618	21	.4	D	
915	PEKG	20 0616E	0616	0618D	N10	E36	.584 17798	23.0	2D	-F	P	0616	50	.6	E	
916	HTPR	20 0629	0631	0635	S08	E47	.757 17801	23.8	6	-N	C	0631	20	.3		
GRP96917	20	0713+4	0720 0726+1	0750	S17	E19	.505 17796	21.7	37	-F			30	.3	E	
	HTPR	20 0713	0726	0746	S17	E18	.496 17796	21.7	33	-F	C	0726	30	.3	E	
	LEAR	20 0717	0726	0809	S17	E19	.505 17796	21.7	52	-F	3 C		42		F	
	KANZ	20 0717	0720	0724D	S17	E19	.505 17796	21.7	7D	-F	3					
	PEKG	20 0725	0727	0750	S17	E19	.505 17796	21.7	25	-N	C	0727	34	.4	E	
918	HTPR	20 0832	0839	0850	S17	E17	.488 17796	21.6	18	-F	C	0839	20	.2	E	
919	KHAR	20 0834		0837	S07	E80	.988 17805	26.4	3	-F	V	0834				
920	KHAR	20 0838		0842	S03	E06	.200 17799	20.8	4	-F	V	0842			E	
GRP96921	20	0901+7	0904+1	0916	S01	E12	.247 17795	21.3	15	-N					E	
	KANZ	20 0901	0904	0917	N01	E12	.230 17795	21.3	16	-N	3					
	HTPR	20 0901	0905	0916	S01	E13	.262 17795	21.4	15	-N	C	0905	30	.3	E	
	KHAR	20 0908		0913	S01	E11	.233 17795	21.2	5	-F	V	0910			E	
GRP96922	20	0936+7	0937	1000	S17	W26	.574 17790	18.5	24	-F					E	
	HTPR	20 0936	0937	1000	S17	W25	.564 17790	18.5	24	-F	C	0937	20	.2	E	
	KHAR	20 0937		0944	S19	W26	.593 17790	18.5	7	-F	V	0937			E	
	KHAR	20 0943		1000	S15	W34	.645 17790	17.9	17	-F	P	0947	50	.7	D	
923	KHAR	20 1002		1016	S07	E80	.988 17805	26.4	14	-F	V	1003				
GRP96924	20	1013+8	1023+6	1040	S16	W33	.641 17790	18.0	27	-F					H	
	KHAR	20 1013		1020	S16	W32	.565 17790	18.0	7	-F	P	1016	80	1.1	E	
	HTPR	20 1019	1023	1039	S16	W33	.641 17790	18.0	20	-N	C	1023	20	.2		
	KHAR	20 1020	1024	1048	S15	W34	.645 17790	17.9	28	-F	V	1024			DH	
	KANZ	20 1021	1029	1041	S16	W33	.641 17790	18.0	20	-N	2					
GRP96925	20	1038+3	1044+1	1054	S18	W25	.574 17790	18.6	16	-N			60	.7	E	
	HTPR	20 1038	1044	1052	S17	W27	.585 17790	18.4	14	-F	C	1044	50	.6	E	
	KHAR	20 1040		1053	S19	W26	.593 17790	18.5	13	-N	P	1043	80	.9		
	KANZ	20 1041	1044	1055	S19	W25	.584 17790	18.6	14	-N	2					
	ATHN	20 1042E	1045	1055	S18	W25	.574 17790	18.6	13D	-B	3 V	1045	64	.8		
GRP96926	20	1108	1109	1132	S16	W30	.608 17790	18.2	24	-F					E	
	HTPR	20 1108	1109	1121	S16	W33	.641 17790	18.0	13	-F	C	1109	10	.1		
	HTPR	20 1120	1124	1132	S17	W27	.585 17790	18.4	12	-F	C	1124	30	.4	E	
927	HTPR	20 1252	1255	1300	S15	W38	.689 17790	17.7	8	-N	C	1255	40	.5		
928	HTPR	20 1321	1327	1340	S08	E73	.963 17805	26.0	19	-N	C	1327	30			
929	HTPR	20 1329	1329	1340	S08	W04	.265 17794	20.3	11	-N	C	1329	60	.6	E	
GRP96930	20	1346+3	1357+6	1408	S16	W35	.663 17790	17.9	22	-N			15	.2	D	
	HTPR	20 1346	1357	1405	S16	W35	.663 17790	17.9	19	-N	C	1357	20	.2		
	KANZ	20 1349	1403	1411D	S16	W36	.673 17790	17.9	22D	-N	3					
	HUAN	20 1356E		1402D	S15	W35	.656 17790	18.0	6D	-F	1 P	1357	10	.1	D	
GRP96931	20	1401+9	1410+5	1433	S15	W35	.656 17790	18.0	32	-N			70	.9	H	
	HTPR	20 1401	1415	1428	S15	W38	.689 17790	17.7	27	-N	C	1415	70	.9		
	HOLL	20 1410	1410	1435	S14	W38	.683 17790	17.7	25	-N	3 C		21		FH	
	BIGB	20 1410	1413	1433	S14	W39	.694 17790	17.7	23	-N	3 C	1413	80	1.1		
	HTPR	20 1416	1429	1431	S17	W28	.595 17790	18.5	15	-F	C	1429	20	.2	E	
	KANZ	20 1421E	1429	1433	S18	W27	.594 17790	18.6	12D	-N	3					

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	QMD	Cen Dist	Hale Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Time (UT)	Area (Disk)	Measurement (Sq Deg)	Corr	Remarks
GRP96932	20	1444+5	1458+0	1506	S15	W34	.645	17790	18.1	22	-N				50	.6	
HTPR	20	1444	1458	1507	S15	W38	.689	17790	17.8	23	-N	C	1458	40	.5		
HOLL	20	1449	1458	1505	S15	W30	.600	17790	18.4	16	-N	3 C		66			
933 HTPR	20	1449	1513	1540	S16	W22	.523	17790	19.0	51	-N	C	1513	100	1.0		U
GRP96934	20	1538+4	1547+1	1556	S15	W38	.689	17790	17.8	18	-B				60	.8	F
HTPR	20	1538	1548	1556	S15	W39	.700	17790	17.7	18	-N	C	1548	50	.7		
HOLL	20	1542	1548	1552	S14	W38	.683	17790	17.8	10	-B	3 C		50			F
BIGB	20	1542	1547	1556	S15	W38	.689	17790	17.8	14	-B	3 C	1547	70	.8		
HTPR	20	1548	1551	1603	S16	W36	.673	17790	18.0	15	-N	C	1551	20	.2		
GRP96935	20	1554+1	1555+2	1603	S17	W28	.595	17790	18.6	9	-B				70	.9	E
BIGB	20	1554	1556	1603	S17	W28	.595	17790	18.6	9	-B	3 C	1556	80	.9		
HOLL	20	1554	1555	1557D	S17	W28	.595	17790	18.6	30	-B	3 C		79			
HTPR	20	1555	1557	1602	S17	W29	.606	17790	18.5	7	-N	C	1557	60	.7		E
936 HTPR	20	1610	1619	1630	S22	W07	.495	17793	20.1	20	-N	C	1619	40	.4		E
937 HTPR	20	1613	1617	1620	S08	E71	.953	17805	26.0	7	-F	C	1617	20	.5		
938 HTPR	20	1617	1617	1622	S06	E07	.253	17799	21.2	5	-F	C	1617	20	.2		
939 HTPR	20	1625	1628	1633	S15	E67	.939		25.7	8	-F	C	1628	20	.4		
GRP96940	20	1630+0	1634	1712	S17	E12	.448	17796	21.6	42	-N				80	.9	E
HTPR	20	1630		1651D	S17	E12	.448	17796	21.6	21D	-N	C	1635	70	.7		E
BIGB	20	1630	1634	1712	S17	E12	.448	17796	21.6	42	-N	3 C	1634	100	1.1		
941 HTPR	20	1634		1651D	S08	E71	.953	17805	26.0	17D	-F	C	1644	10	.2		
GRP96942	20	1706+1	1709+0	1717	S14	W39	.694	17790	17.8	11	-N						D
HUAN	20	1706	1709	1713	S15	W39	.700	17790	17.8	7	-N	1 C	1709	10	.1		D
BIGB	20	1707	1709	1720	S13	W39	.689	17790	17.8	13	-N	3 C	1709	60	.8		
943 HOLL	20	1734	1735	1745	S08	E48	.767	17801	24.3	11	-F	3 C		39			
944 HOLL	20	1801	1806	1829	N02	E09	.177	17795	21.4	28	-F	3 C		46			
GRP96945	20	1811+2	1832	1922	S16	E11	.428	17796	21.6	71	1B			210	2.3		K
HOLL	20	1811	1848	1848+2	S16	E11	.428	17796	21.6	71	1B	3 C		263			FK
HOLL	20	1811	1832	1922	S16	E11	.428	17796	21.6	71	-N	3 C		67			K
BIGB	20	1813	1850	1936	S16	E11	.428	17796	21.6	83	1B	3 C	1850	210	2.2		
HUAN	20	1853E		1916	S16	E11	.428	17796	21.6	23D	-N	1 P	1855	90	1.0		E
GRP96946	20	1908+8	1917+3	1929	S14	W04	.362	17794	20.5	21	-F				20	.2	D
HUAN	20	1908	1920	1934	S15	W04	.378	17794	20.5	26	-F	1 C	1920	10	.1		D
HOLL	20	1916	1917	1923	S14	W04	.362	17794	20.5	7	-F	3 C		31			
947 HOLL	20	1914	1915	1920	S17	W36	.680	17790	18.1	6	-B	3 C		48			
948 HOLL	20	1943	1948	1956	S17	W31	.627	17790	18.5	13	-N	3 C		54			
949 HUAN	20	1943	1944	1947	S00	E07	.170	17795	21.3	4	-F	1 C	1944	10	.1		D
GRP96950	20	2012+1	2014+1	2026	S18	W30	.625	17790	18.6	14	-N				50	.6	
BIGB	20	2012	2015	2026	S19	W30	.633	17790	18.6	14	-N	3 C	2015	60	.7		
HOLL	20	2013	2014	2025	S17	W30	.616	17790	18.6	12	-N	3 C		53			
GRP96951	20	2032+1	2034+0	2102	N03	E08	.154	17795	21.5	30	-N				180	1.8	
HOLL	20	2032	2034	2106	N03	E08	.154	17795	21.5	34	1N	3 C		231			F
BIGB	20	2032	2034	2102	N04	E08	.147	17795	21.5	30	-N	3 C	2034	180	1.9		
HUAN	20	2033	2034	2048	N03	E08	.154	17795	21.5	15	-N	1 C	2034	50	.5		E
GRP96952	20	2240+9	2255	0019D	S10	E48	.774	17801	24.5	99	-N						D
PEKG	21	0015	0016	0019	S13	E51	.813	17801	24.8	4	-N	C	0016	34	.6		D
CULG	20	2240	2255	0049	S07	E46	.742	17801	24.4	129	1F	C	2255	150	2.2		
953 CULG	20	2300	2305	2309	S15	W40	.710	17790	18.0	9	-F	C	2305	20	.2		

## H - ALPHA SOLAR FLARES

AUGUST 1981																	
Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	QMD	Dist	Hale Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Mensurement Appar (Disk)	Corr (Sq Deg)	Remarks	
954	CULG	20	2339	2350	0007	S13	W36	.655 17790	18.3	28	-F	C	2350	70	.9		
GRP96955	20	2357	0002+1	0012D	S06	E66	.921 17805	25.9	15	-F							K
	LEAR	21	0002E	0002	0012	S08	E68	.936 17805	26.1	10D	-F	3 C		30			
	CULG	20	2357	2403	0043	S05	E65	.913 17805	25.9	46	-N	C	2403	80	1.5		K
GRP96956	21	0019+0	0020+0	0032	S08	E68	.936 17805	26.1	13	-N				50			D
	LEAR	21	0019	0020	0040	S08	E68	.936 17805	26.1	21	-F	3 C		54			
	PEKG	21	0019	0020	0024	S08	E68	.936 17805	26.1	5	-B	C	0020	55			D
957	CULG	21	0045	0050	0104	S15	W44	.752 17790	17.7	19	-N	C	0050	20	.2		
958	PEKG	21	0050	0055	0102	S08	E68	.936 17805	26.1	12	-F	C	0055	13			D
959	PEKG	21	0151	0201	0209D	N10	W78	.975 17797	15.2	18D	-N	P	0201	92			E
GRP96960	21	0154+6	0200+2	0237	S13	W38	.678 17790	18.2	43	1N				180	2.4		1K
	CULG	21	0154	0200	0203	S13	W38	.678 17790	18.2	9	-N	P	0200	60	.8		
	LEAR	21	0157	0214	0247	S15	W37	.678 17790	18.3	50	1B	3 C		237			FEK
	LEAR	21	0157	0202	0247	S15	W37	.678 17790	18.3	50	-F	3 C		84			K
	PEKG	21	0200	0201	0206	S13	W39	.689 17790	18.2	6	-N	C	0201	84	1.2		E
	CULG	21	0210	0216	0326	S15	W37	.678 17790	18.3	76	1N	P	0216	180	2.5		IFK
	PALE	21	0212	0214	0227	S13	W38	.678 17790	18.2	15	-N	3 C		123			
961	LEAR	21	0257	0259	0307	S07	E36	.623 17801	23.8	10	-F	3 C		52			
962	CULG	21	0359	0400	0404	S13	W39	.689 17790	18.2	5	-F	P	0400	40	.6		
GRP96963	21	0412E	0435+2	0441	S13	W41	.711 17790	18.1	29	-N				120	1.7		DJK
	ABST	21	0412E	0436	0442	S14	W43	.737 17790	17.9	30D	-N	P	0436	96	1.4		DJK
	CULG	21	0415E	0415	0416D	S17	W43	.752 17790	18.0	1D	-F	P	0416	30	.4		
	LEAR	21	0431	0435	0440	S13	W41	.711 17790	18.1	9	-B	3 C		104			
	CULG	21	0431E	0435	0440	S14	W40	.705 17790	18.2	9D	-B	P	0435	140	1.9		
	PEKG	21	0432	0435	0440	S11	W42	.713 17790	18.0	8	1N	C	0435	168	2.5		D
	ABST	21	0435	0437	0444	S10	W34	.613 17790	18.6	9	-N	C	0437	87	1.1		DJ
GRP96964	21	0447+6	0453+1	0500	S08	E68	.936 17805	26.3	13	1F				90			DJ
	CULG	21	0447E	0454	0501D	S07	E66	.922 17805	26.1	14D	1F	P	0454	120	3.0		
	ABST	21	0452	0454	0459	S09	E69	.943 17805	26.4	7	1F	C	0454	87			DJ
	LEAR	21	0453	0453	0457D	S08	E68	.936 17805	26.3	4D	-F	3 C		40			
GRP96965	21	0450+1	0450+1	0455	S16	W40	.716 17790	18.2	5	-F				60	.8		
	CULG	21	0450	0450	0455	S17	W41	.732 17790	18.1	5	-N	C	0450	90	1.3		
	LEAR	21	0451	0451	0454	S16	W39	.706 17790	18.3	3	-F	3 C		39			
GRP96966	21	0529+2	0531+1	0537	S15	W45	.762 17790	17.9	8	-N				60	.9		DJ
	CULG	21	0529	0532	0536	S17	W44	.762 17790	17.9	7	-F	C	0532	40	.6		
	ABST	21	0529	0532	0539	S16	W46	.777 17790	17.8	10	-N	C	0532	87	1.4		DJ
	TACH	21	0530	0532	0538	S14	W45	.758 17790	17.9	8	-N	C	0532	88	1.4		D
	LEAR	21	0531	0531	0535	S14	W45	.758 17790	17.9	4	-N	3 C		21			
GRP96967	21	0538+2	0539+2	0551	S18	W43	.757 17790	18.0	13	-F				40	.6		DJV
	CULG	21	0538	0539	0541	S20	W42	.758 17790	18.1	3	-F	C	0539	96	1.4		DJV
	ABST	21	0540	0541	0600	S17	W44	.762 17790	17.9	20	-N	C	0541	96			
GRP96968	21	0548>9	0626+4	0701	S17	E06	.417 17796	21.7	73	1B				270	2.9		J
	CULG	21	0528	0628	0659D	S13	E08	.365 17796	21.8	91D	1B	* P	0628	220	2.4		
	LEAR	21	0548	0626	0706	S17	E05	.413 17796	21.6	78	1B	* C		239			FE
	PEKG	21	0609	0628U	0652	S17	E03	.408 17796	21.5	43	1B	* C	0628	336	3.8		F
	ABST	21	0619	0630	0702D	S18	E06	.432 17796	21.7	43D	1N	* P	0630	445	5.0		FJ
	YUNN	21	0620	0636	0637D	S16	E06	.401 17796	21.7	17D	1N	* P		321	3.7		E
	AITHN	21	0624E	0626	0656	S17	E06	.417 17796	21.7	32D	-B	* V	0626	191	2.0		
	HTPR	21	0628E		0710D	S17	E05	.413 17796	21.6	42D	1B	* C	0632	220	2.3		E
GRP96969	21	0605+2	0608+1	0616	S11	W41	.702 17790	18.2	11	-N				110	1.5		J
	ABST	21	0605E	0608	0620	S11	W44	.735 17790	18.0	15D	-N	P	0608	96	1.4		DJ
	LEAR	21	0605	0608	0625	S12	W41	.706 17790	18.2	20	-N	3 C		140			
	CULG	21	0605	0609	0612	S10	W40	.685 17790	18.3	7	-B	C	0609	110	1.5		F
	PEKG	21	0607	0609	0612	S11	W41	.702 17790	18.2	5	-N	C	0609	105	1.5		E

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	QMD	Hale			Dur (Min)	Obs Imp	Type	Area Time (UT)	Measurement		Remarks	
							Pen Dist	Plage Region	OMP					Appar (Disk)	Corr (Sq Deg)		
970	ABST	21 0606E	0608	0634D	N04	W88	.999			14.7	28D	7F	P	G608	87		DJ
IMP.1 NO : LEAR CULG PEKG																	
GRP96971	21 0624+4	0629+1	0635	S12	E48	.781	17801	24.9	11	-N							DJ
ABST	21 0624	0630	0637	S12	E49	.791	17801	24.9	13	-N		C	0630	87	1.4	DJ	
CULG	21 0621	0630	0635	S11	E46	.756	17801	24.7	11	-N		C	0630	60	.9		
LEAR	21 0627	0629	0645	S09	E47	.645	17801	24.8	18	-F	3	C		31			
HTPR	21 0628E		0634	S13	E48	.784	17801	24.9	6D	-F		C	0630	20	.3		
PEKG	21 0628	0630	0631	S13	E48	.784	17801	24.9	3	-N		C	0630	59	.9	D	
GRP96972	21 0528+0	0629+0	0650	S08	E68	.936	17805	26.4	22	-F							DJ
ABST	21 0628E	0629	0702D	S09	E69	.943	17805	26.4	34D	1F		P	0629	96		DJ	
LEAR	21 0628	0629	0638	S08	E67	.930	17805	26.3	10	-F	3	C		44			
973	HTPR	21 0639	0641	0644	S19	W42	.753	17790	18.1	5	-F		C	0641	20	.3	
974	HTPR	21 0648	0650	0657	S16	W45	.767	17790	17.9	9	-F		C	0650	20	.3	
GRP96975	21 0657+4	0704+2	0711	S07	E34	.597	17801	23.8	14	-F				50	.6	E	
LEAR	21 0657	0706	0723	S07	E34	.597	17801	23.8	26	-F	3	C		52			
HTPR	21 0700	0704	0711	S08	E33	.589	17801	23.8	11	-F		C	0704	30	.4	E	
BUCA	21 0701		0710	S06	E34	.592	17801	23.8	9	-F		C	0703	54	.7		
976	HTPR	21 0721	0724	0729	S16	W45	.767	17790	17.9	8	-F		C	0724	20	.3	
GRP96977	21 0758+3	0802+5	0818	S12	W43	.728	17790	18.1	20	-N				40	.6	D	
0815																	
KHAR	21 0758	0802	0813	S14	W44	.748	17790	18.0	17	-F		P	0802	50	.8	D	
HTPR	21 0801	0805	0821	S12	W42	.717	17790	18.2	19	-N		C	0805	40	.5		
LEAR	21 0801	0807	0820	S13	W43	.733	17790	18.1	19	-N	3	C		28			
PEKG	21 0813E	0815	0816	S11	W43	.724	17790	18.1	3D	-B		P	0815	42	.6	D	
GRP96978	21 0815+9	0831+3	0949	S16	E02	.390	17796	21.5	94	1B				460	5.0	EIKU	
0840+2																	
KHAR	21 0815	0833	1056	S16	W02	.390	17796	21.2	161	1N		P	0833	400	4.4	CEZ	
HTPR	21 0824	0832	1015	S17	E04	.410	17796	21.6	111	1B		C	0840	280	2.9	EIKU	
HTPR	21 0824	0840	1015	S17	E04	.410	17796	21.6	111	1B		C					
LEAR	21 0826	0831	0941D	S16	E02	.390	17796	21.5	75D	2B	3	C		528		ZU	
PEKG	21 0828	0842	0930	S14	E00	.357	17796	21.4	62	2B		C	0842	631	7.0	FU	
ATHN	21 0828E	0834	0929	S17	E03	.408	17796	21.6	61D	1B	3	V	0834	446	4.8		
YUNN	21 0850E	0850	0851D	S15	E03	.376	17796	21.6	1D	1N		P		353	3.9		
979	HTPR	21 0927	0932	0941	S16	W46	.777	17790	17.9	14	-F		C	0932	20	.3	E
980	KHAR	21 0957		1025	N11	W83	.990	17797	15.2	28	-F		P				D
981	KHAR	21 1012	1021	1056	N14	E54	.804	17806	25.5	44	-F		V	1021			CDH
982	KHAR	21 1020	1020	1025	S19	E04	.441	17796	21.7	5	-F		V	1020			DH
983	KHAR	21 1048		1055	S02	W01	.156	17795	21.4	8	-F		V	1048			D
984	KHAR	21 1055		1056	S14	W44	.748	17790	18.2	1	-F		V	1055			
985	HTPR	21 1133	1135	1140	S16	W47	.786	17790	18.0	7	-F		C	1135	30	.4	E
986	HTPR	21 1145	1158	1215	S09	E56	.848	17805	25.7	30	-F		C	1158	30	.5	
987	HTPR	21 1204	1207	1209	S08	E2C	.525	17801	23.6	5	-F		C	1207	20	.2	
GRP96988	21 1209+1	1211+2	1220	S08	E32	.577	17801	23.9	11	-N				45	.5	E	
ATHN	21 1209	1211	1219	S08	E32	.577	17801	23.9	10	-B	3	V	1211	64	.8		
HTPR	21 1210	1213	1220	S09	E33	.595	17801	24.0	10	-N		C	1213	30	.3	E	
989	HTPR	21 1302	1306	1310	S12	W45	.750	17790	18.2	8	-F		C	1306	30	.4	
GRP96990	21 1316	1321+2	1330	S12	W45	.750	17790	18.2	14	-F				20	.3		
HTPR	21 1316	1320	1332	S12	W45	.750	17790	18.2	16	-F		C	1320	20	.3		
HOLL	21 1320E	1322U	1328	S13	W46	.764	17790	18.1	8D	-N	3	C		22			

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Sta	Date	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Imp	Obs Type	Area Measurement		Remarks	
							Con Dist	Plage Region	OMP Day				Time (UT)	Appar (Disk)		Corr (Sq Deg)
GRP96991	21	1418>9	1428+4	1446	S14	W45	.758	17790	18.2	28	-N		100	1.5	E	
HOLL	21	1418	1428	1442	S15	W45	.762	17790	18.2	24	-B	3 C	84		E	
BIGB	21	1428	1432	1450	S14	W45	.758	17790	18.2	22	-N	3 C	1432	120	1.7	
GRP96992	21	1434+1	1435+4	1455	S14	W15	.442	17794	20.4	21	-N		70	.8	F	
HOLL	21	1434	1435	1454	S14	W17	.452	17794	20.3	20	-N	3 C	68		F	
BIGB	21	1434	1439	1455	S15	W15	.446	17794	20.5	20	-N	3 C	1439	80	.9	
GRP96993	21	1443	1449	1524	S13	W45	.754	17790	18.2	41	-N		120	1.8	K	
HOLL	21	1443	1455	1524	S13	W46	.764	17790	18.2	41	1N	* C	171		FK	
HOLL	21	1443	1449	1524	S13	W46	.764	17790	18.2	41	-N	* C	43		K	
HTPR	21	1455E		1520	S12	W45	.750	17790	18.2	250	-F	* C	1501	70	1.0	E
BIGB	21	1457	1459	1527	S13	W45	.754	17790	18.2	30	-N	* C	1459	120	1.7	
994 HOLL	21	1448	1449	1509	N11	W82	.987	17797	15.5	21	-F	3 C				
995 HOLL	21	1544	1547	1552	S08	W45	.735	17790	18.3	8	-F	3 C		27		F
GRP96996	21	1609>9	1617	1640	S16	W50	.814	17790	17.9	31	-N		40	.7	F	
HOLL	21	1609	1628	1637	S15	W51	.820	17790	17.8	28	-B	3 C	30		F	
HOLL	21	1609	1617	1621	S16	W46	.777	17790	18.2	12	-N	C	86		F	
BIGB	21	1627	1628	1642	S16	W52	.832	17790	17.8	15	-N	C	1628	50	.8	
997 HTPR	21	1652	1701	1715	S08	E28	.525	17801	23.8	23	-F	C	1701	20	.2	E
GRP96998	21	1713+2	1724+3	1800	S14	W46	.768	17790	18.3	47	1B		180	2.8	E	
BIGB	21	1713	1727	1802	S14	W46	.768	17790	18.3	49	1B	3 C	1727	150	2.2	
HOLL	21	1713	1724	1758	S14	W46	.768	17790	18.3	45	1B	3 C	224		E	
HTPR	21	1715		17180	S12	W46	.760	17790	18.3	30	-N	C	1716	50	.7	E
999 HOLL	21	1816	1819	1826	S12	W46	.760	17790	18.3	12	-N	3 C		66		F
GRP97000	21	2018+7	2027+3	2050	S13	W49	.794	17790	18.2	32	1N		150	2.4	FK	
BIGB	21	2018	2030	2057	S13	W49	.794	17790	18.2	39	1N	3 C	2030	180	2.8	
HOLL	21	2018	2030	2050	S13	W50	.804	17790	18.1	32	1N	3 C	190		FK	
HOLL	21	2018	2040	2050	S13	W50	.804	17790	18.1	32	-N	3 C	63		K	
PALE	21	2025	2027	2045	S14	W48	.788	17790	18.3	20	-N	3 C	87			
GRP97001	21	2123+9	2128+4	2203D	S15	W48	.792	17790	18.3	40	-N					
BIGB	21	2123	2128	2234	S14	W48	.788	17790	18.3	71	1N	3 C	2128	160	2.5	
PALE	21	2132	2132	2203	S16	W48	.796	17790	18.3	31	-F	3 C	66			
2 CULG	21	2258	2306	0030	S28	E37	.765	17804	24.7	92	?F	P	2306	130	2.1	IF
IMP.1 NO : HOLL BIGB PALE																
3 CULG	21	2314	2316U	2316D	S11	E30	.571	17801	24.2	20	-N	P	2316	70	.9	IF
4 CULG	22	0024	0025	0029	S07	E24	.465	17801	23.8	5	-F	C	0025	60	.7	
5 CULG	22	0109	0112	0119	S17	W52	.836	17790	18.1	10	-F	C	0112	40	.7	F
GRP97006	22	0110+2	0114+2	0125	S14	W21	.493	17794	20.5	15	-N		100	1.1		
CULG	22	0110	0114	0125	S13	W22	.494	17794	20.4	15	-N	C	0114	140	1.5	
BIGB	22	0112	0116	0129	S14	W21	.493	17794	20.5	17	-N	3 C	0116	60	.7	
LEAR	22	0116E	0116U	0125	S14	W21	.493	17794	20.5	90	-N	3 C	98			
GRP97007	22	0202+5	0207	0246	S18	W05	.429	17796	21.7	44	-N		90	1.0	FI	
CULG	22	0202	0207	0246	S19	W02	.438	17796	21.9	44	1N	P	0207	280	3.1	FI
LEAR	22	0203	0215	0255	S18	W05	.429	17796	21.7	52	-N	3 C	134		F	
PEKG	22	0207	0214	0230	S15	W09	.402	17796	21.4	23	-F	C	0214	55	.6	E
GRP97008	22	0240+5	0246+1	0251	S17	W57	.876	17790	17.8	11	-F		30	.6	D	
PEKG	22	0240	0246	0248D	S14	W59	.884	17790	17.7	80	-F	P	0246	38	.7	D
CULG	22	0244	0246	0251	S17	W56	.869	17790	17.9	7	-F	P	0246	30	.6	
LEAR	22	0245	0247	0250	S17	W57	.876	17790	17.8	5	-N	3 C	18			
9 CULG	22	0255	0258	0300D	S05	E20	.395	17801	23.6	50	-F	P	0258	30	.3	

## H - ALPHA SOLAR FLARES

AUGUST 1981

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Ond	Hale		Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement		Remarks			
							Dist	Region					Appar (Disk)	Corr (Sq Deg)				
10	CULG	22	0339	0339	0343	S17	W51	.827	17790	18.3	4	-F	C	0339	30	.4		
GRP97011	22	0416+1	0417+2	0422	S14	W52	.826	17790	18.3	6	-F			35	.6			
CULG	22	0416	0417	0421	S14	W52	.826	17790	18.3	5	-F	P	0417	40	.7			
LEAR	22	0417	0419	0422	S14	W53	.835	17790	18.2	5	-F	3	C		27			
12	ABST	22	0437	0440	0447	S10	E70	.950	17808	27.4	10	?F	C	0440	87		D	
			IMP.1 NO : CULG TACH MITK PEKG															
GRP97013	22	0512+3	0519+5	0605	S18	W06	.432	17796	21.8	53	1N			250	2.8	I		
			0543															
ABST	22	0512	0522	0600	S18	W07	.436	17796	21.7	48	1N	C	0522	306	3.5	E		
CULG	22	0515	0519	0602	S17	W06	.417	17796	21.8	47	1N	C	0519	210	2.3	FI		
LEAR	22	0515	0524	0608	S17	W07	.421	17796	21.7	53	1N	3	C		222		D	
YUNN	22	0539	0543	0545L	S18	W05	.429	17796	21.9	50	-F	P		32	.4	F		
HTPR	22	0549E		0618	S20	W06	.463	17796	21.8	290	-F	C	0550	30	.3	E		
14	ABST	22	0549	0554	0603	S09	E49	.781	17805	25.9	14	-F	C	0554	87	1.4	DJ	
GRP97015	22	0610+1	0612+0	0615	S16	W60	.896	17790	17.8	5	-N			40	.9	D		
HTPR	22	0610	0612	0616	S16	W60	.896	17790	17.8	6	-B	C	0612	30	.6			
LEAR	22	0611	0612	0614	S16	W53	.841	17790	18.3	3	-F	3	C		49			
YUNN	22	0612E	0612	0615	S17	W60	.898	17790	17.8	30	-N	P		32		D		
16	HTPR	22	0644	0647	0702	S12	E34	.626	17801	24.8	18	-F	C	0647	20	.2		
GRP97017	22	0647>9	0700+1	0715	S16	W08	.411	17796	21.7	28	-F			60	.7	EI		
HTPR	22	0647	0701	0725	S18	W08	.441	17796	21.7	38	-F	C	0701	70	.7	EI		
YUNN	22	0659	0700	0705	S16	W08	.411	17796	21.7	6	-F	C		64	.7	E		
KANZ	22	0700	0700	0715	S16	W08	.411	17796	21.7	15	-N	3						
GRP97018	22	0655+5	0658+5	0705	S16	W60	.896	17790	17.8	10	-B						D	
BUCA	22	0655		0700	S16	W60	.896	17790	17.8	5	1N	P	0658	107	2.5	D		
HTPR	22	0658	0700	0704	S16	W60	.896	17790	17.8	6	-B	C	0700	30	.6			
LEAR	22	0658	0658	0705	S16	W60	.896	17790	17.8	7	-B	3	C		95		E	
CULG	22	0659E	0659U	0659D	S17	W57	.876	17790	18.0		1F	P	0659	160	3.3			
YUNN	22	0659	0700	0703	S17	W61	.905	17790	17.7	4	-B	C		32		D		
ATHN	22	0700	0703	0707	S13	W60	.890	17790	17.8	7	-B	2	V	0703	48	1.0		
KANZ	22	0700	0700	0708	S17	W58	.884	17790	17.9	8	-B	3						
GRP97019	22	0734+3	0735+4	0748	S12	E26	.531	17801	24.3	14	-N			100	1.2	E		
BUCA	22	0734		0745	S12	E27	.542	17801	24.3	11	1N	C	0735	215	2.6			
KANZ	22	0734	0738	0750	S12	E26	.531	17801	24.3	16	-N	3						
HTPR	22	0734	0735	0751	S13	E26	.539	17801	24.3	17	-N	C	0735	70	.8	E		
ATHN	22	0737	0739	0745	S05	E22	.422	17801	24.0	8	-B	2	V	0739	95	1.1		
GRP97020	22	0735	0812+2	0849	S19	W08	.456	17796	21.7	74	-F			130	1.4	EI		
HTPR	22	0735	0814	0845	S18	W08	.441	17796	21.7	70	-F	C	0814	100	1.0	EI		
YUNN	22	0737E		0738D	S19	W07	.451	17796	21.8	10	-N	P		96	1.1	E		
KHAR	22	0802	0812	0853	S20	W08	.470	17796	21.7	51	-F	P	0812	160	1.8			
GRP97021	22	0750+1	0754+4	0816	S03	E18	.351	17801	23.7	26	-N			50	.5	E		
			0805															
HTPR	22	0750	0754	0821	S03	E19	.365	17801	23.8	31	-N	* C	0754	30	.3	E		
BUCA	22	0750		0800	S02	E17	.328	17801	23.6	10	-F	* C	0754	107	1.2			
KANZ	22	0750	0754	0817	S02	E18	.343	17801	23.7	27	-N	*						
PEKG	22	0751	0805	0815	S03	E18	.351	17801	23.7	24	-N	* P	0805	50	.5	E		
MONT	22	0755E	0758	0814	S03	E08	.221	17801	22.9	190	-F	* C	0758	50		E		
KHAR	22	0802		0819	S03	E19	.365	17801	23.8	17	-F	* P	0802	60	.7	E		
22	KHAR	22	0846		0850	S07	E69	.941	17808	27.5	4	-F	V	0848			D	
GRP97023	22	0901+3	0904+8	0922	S12	E33	.614	17801	24.9	21	-N			30	.4	EL		
HTPR	22	0901	0906	0925	S12	E33	.614	17801	24.9	24	-B	C	0908	20	.2	E		
WEND	22	0901	0907	0920	S13	E33	.621	17801	24.9	19	-F	C	0907	25	.3			
KANZ	22	0903	0906	0922	S11	E33	.608	17801	24.9	19	-N	3						
LEAR	22	0903	0907	0919	S12	E33	.614	17801	24.9	16	-N	3	C		23			
KHAR	22	0904	0904	0928	S12	E34	.626	17801	24.9	24	-N	P	0908	70	1.1	EL		
PEKG	22	0910	0912	0914D	S12	E33	.614	17801	24.9	40	-N	P	0912	34	.4	E		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	OMD	Hale			Dur (Min)	Imp	Obs Type	Area Measurement			Remarks
							Gen Dist	Plage Region	OMP Day				Time (UT)	Appar (Disk)	Corr (Sq Deg)	
GRP97024	22	0949+2	0950	1005	S14	W12	.408	17796	21.5	16	-N		50	.5	E	
HTPR	22	0949	0950	1005	S14	W12	.408	17796	21.5	16	-N	C 0950	50	.5	E	
WEND	22	0949E		0954D	S15	W11	.415	17796	21.6	50	-F	C 0949	56	.6		
KANZ	22	0951		0951D	S14	W13	.416	17796	21.4		-N	1				
25	HTPR	22	1019	1021	S08	E48	.768	17805	26.0	6	-F	C 1021	20	.3		
GRP97026	22	1021+9	1033+1	1116	S18	W09	.446	17796	21.8	55	-N		140	1.6	EI	
HTPR	22	1021		1121D	S18	W09	.446	17796	21.8	60D	-N	C 1035	150	1.5	EI	
WEND	22	1027E	1033	1056D	S17	W07	.421	17796	21.9	29D	-N	C 1033	138	1.5	E	
KHAR	22	1030	1034	1110	S20	W10	.480	17796	21.7	40	1N	P 1045	230	2.6	CE	
KANZ	22	1035E	1035	1055D	S18	W09	.446	17796	21.8	200	1N	3				
27	HTPR	22	1112	1121D	S09	E23	.468	17801	24.2	9D	-F	C 1114	20	.2	E	
28	HTPR	22	1134E	1139D	S07	E65	.916	17308	27.4	5D	-N	C 1136	50	1.0		
GRP97029	22	1155	1158	1206	S17	W11	.443	17796	21.7	11	-B				E	
ATHN	22	1155	1158	1205	S19	W10	.465	17796	21.7	10	-E	2 V 1158	80	.9		
HTPR	22	1202E		1206	S16	W13	.443	17796	21.5	4D	-F	C 1202	20	.2	E	
30	HTPR	22	1234	1237	S17	W10	.437	17796	21.8	43	-F	C 1237	30	.3		
31	HTPR	22	1258	1300	S15	W26	.557	17794	20.6	10	-F	C 1300	10	.1		
GRP97032	22	1338+7	1347+0	1416	S20	W10	.480	17796	21.8	38	-N		50	.6	F	
HTPR	22	1338	1347	1505	S20	W10	.480	17796	21.8	87	-N	C 1347	50	.5		
KANZ	22	1343	1347	1414	S19	W10	.465	17796	21.8	31	-N	3				
HOLL	22	1345	1347	1416	S20	W10	.480	17796	21.8	31	-N	3 C	55		F	
GRP97033	22	1425+2	1427+4	1438	S05	E22	.422	17801	24.3	13	-F		30	.3	E	
HTPR	22	1425	1431	1442	S07	E21	.425	17801	24.2	17	-F	C 1431	40	.4	E	
HOLL	22	1427	1427	1434	S04	E24	.686	17801	24.4	7	-F	3 C	20			
GRP97034	22	1433+5	1442+2	1449	S16	W63	.917	17790	17.9	16	-N		50	1.2	L	
WEND	22	1433E	1443	1447	S15	W63	.915	17790	17.9	14D	-F	C 1443	38	.9		
HTPR	22	1435	1444	1449	S16	W64	.923	17790	17.8	14	-B	C 1444	50	1.1	E	
HOLL	22	1438	1444	1448	S16	W63	.917	17790	17.9	10	-N	3 C	52		F	
KANZ	22	1440E	1442	1450	S17	W63	.918	17790	17.9	10D	-N	3			L	
GRP97035	22	1450+5	1456+1	1533	S06	E63	.900	17808	27.3	43	1N		100	2.3		
HOLL	22	1450	1456	1533	S06	E64	.907	17808	27.4	47	1N	3 C	146		F	
KANZ	22	1453	1457	1533	S05	E63	.899	17808	27.3	40	1N	3				
WEND	22	1453	1457	1527	S05	E62	.891	17808	27.3	34	-F	C 1457	69	1.5		
BIGB	22	1453	1457	1536	S06	E64	.907	17808	27.4	43	1N	3 C	140	3.2		
HTPR	22	1455	1456	1530	S07	E63	.902	17808	27.3	35	-N	C 1456	60	1.3	E	
GRP97036	22	1525+1	1527+2	1545	S15	W58	.879	17790	18.3	20	-F					
KANZ	22	1525	1529	1545	S15	W58	.689	17790	18.3	20	-N	3				
HOLL	22	1526	1527	1544	S15	W59	.687	17790	18.2	18	-F	3 C	35			
37	HOLL	22	1639	1643	S15	W60	.894	17790	18.2	9	-F	3 C	40			
GRP97038	22	1642+1	1643+1	1735	S13	W16	.430	17796	21.5	53	-N		70	.8		
HTPR	22	1642	1643	1654	S14	W16	.443	17796	21.5	12	-N	C 1643	70	.7	E	
BIGB	22	1643	1644	1731	S13	W16	.430	17796	21.5	48	-N	3 C	90	1.0		
HOLL	22	1643	1643	1738	S13	W16	.430	17796	21.5	55	-N	3 C	54		F	
HTPR	22	1646		1659D	S17	W12	.449	17796	21.8	13D	-F	C 1648	30	.3	E	
GRP97039	22	1750+7	1751+6	1807	S14	W16	.443	17796	21.5	17	-F		100	1.1	F	
BIGB	22	1750	1751	1815	S14	W16	.443	17796	21.5	25	-N	3 C	1751	130	1.4	
PALE	22	1755E	1755U	1807	S18	W15	.485	17796	21.6	12D	-F	3 C	75			
HOLL	22	1757	1757	1807	S13	W16	.430	17796	21.5	10	-F	3 C	103		F	
GRP97040	22	1800+9	1813+0	1826	S16	W60	.896	17790	18.2	26	-F		45	1.0		
HOLL	22	1800	1813	1826	S15	W60	.894	17790	18.2	26	-N	3 C	55			
PALE	22	1812	1813	1825	S17	W60	.898	17790	18.3	13	-F	3 C	32			
41	CULG	22	2250	2256	S19	W14	.490	17795	21.9	24	-F	C 2256	50	.6	K	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	L +	OMD	Cen Dist	Hale Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks	
GRP97042	23	0009+3	0015+2	0043	S17	W18	.498	17796	21.7	34	-F			70	.8	F	
HOLL	23	0009	0016	0043	S17	W18	.498	17796	21.7	34	-N	3 C		75			
BIGB	23	0010	0017	0056	S21	W15	.524	17796	21.9	46	-F	3 C	0017	80	.9		
LEAR	23	0012	0015	0043	S17	W18	.498	17796	21.7	31	-F	3 C		62		F	
43	LEAR	23	0140	0141	0147	S15	W62	.908	17790	18.4	7	-F	3 C		26		
44	PEKG	23	0230	0234	0240	S13	W23	.505	17796	21.4	10	-N	C	0234	105	1.2	E
45	PEKG	23	0302E	0302	0302D	N22	E57	.557	17807	27.4		-N	P	0302	13	.2	D
46	CULG	23	0424	0425	0434	S05	E08	.248	17801	23.8	10	-N	C	0425	80	.8	
47	CULG	23	0439E	0440	0452D	S05	E08	.248	17801	23.8	130	-B	P	0440	90	.9	
48	CULG	23	0506	0520	0605	N17	E23	.416	17806	24.9	59	-F	C	0520	40	.4	
49	CULG	23	0524	0526	0536	N21	E57	.836	17807	27.5	12	-F	C	0526	20	.3	
50	ADST	23	0628E	0628	0638D	S21	W30	.651	17793	21.0	100	-F	P	0628	70	.9	DJ
51	CULG	23	0722E	0726U	0727	S18	W53	.848	17790	19.3	50	-F	P	0726	60	1.2	
52	LEAR	23	0729	0739	0754	S12	W65	.923	17790	18.4	25	-N	3 C		109		
53	KHAR	23	0815		0843	S18	W68	.949	17790	18.2	28	-F	V	0815			BH
54	LEAR	23	0912	0912	0922	S15	W66	.933	17790	18.4	10	-F	3 C		11		
55	KHAR	23	1001		1004	S09	E16	.384	17801	24.6	3	-F	V	1001			
56	KHAR	23	1020	1026	1054	S04	W36	.610	17794	20.7	34	1N	P	1028	220	2.5	EL
57	KHAR	23	1034	1041	1054	S10	E16	.395	17801	24.6	20	-F	P	1041	140	1.5	E
		23	1055	1119	NO FLARE PATROL												
		23	1141	1151	NO FLARE PATROL												
		23	1401	1436	NO FLARE PATROL												
58	BIGB	23	1542	1604	1659	S07	W25	.478	17800	21.8	77	-F	3 C	1604	60	.7	
59	HOLL	23	1603	1604	1613	N21	E51	.779	17807	27.5	10	-N	3 C		32		
GRP97060	23	1743+1	1748+3	1839	N19	E62	.877	17809	28.4	56	1N			150	3.3	F	
PALE	23	1743	1748	1800D	N18	E64	.892	17809	28.5	17D	-F	3 C		53		F	
BIGB	23	1744	1751	1844	N19	E62	.877	17809	28.4	67	1N	3 C	1751	180	3.9		
HOLL	23	1744	1751	1833	N19	E54	.807	17809	27.8	4	1N	3 C		145			
GRP97061	23	1821>9	1823	1849	S09	E08	.306	17801	24.4	28	-F						
			1832														
PALE	23	1821	1823	1841	S09	E09	.314	17801	24.4	20	-F	3 C		72		E	
HOLL	23	1831	1832	1856	S09	E08	.306	17801	24.4	25	-F	3 C		106		F	
62	HOLL	23	1855	1900	1908	S19	W62	.916	17790	19.1	13	-F	3 C		34		
GRP97063	23	1933+1	1935+1	1946	S16	W29	.598	17796	21.6	13	-N			60	.7	F	
BIGB	23	1933	1936	1947	S16	W30	.609	17796	21.6	14	-N	3 C	1936	70	.8		
HOLL	23	1933	1935	1946	S16	W29	.598	17796	21.6	13	-N	3 C		65		F	
PALE	23	1934	1936	1942	S17	W29	.607	17796	21.6	8	-F	3 C		44			
64	HOLL	23	2000	2005	2013	S14	W65	.926	17790	19.0	13	-F	3 C		29		
65	HOLL	23	2008	2009	2014	S16	W30	.609	17796	21.6	6	-F	3 C		30		
GRP97066	23	2114+1	2119+1	2216	S09	E07	.299	17801	24.4	62	-B			180	1.9	FK	
			2159														
HOLL	23	2114	2119	2215	S09	E07	.299	17801	24.4	61	1N	3 C		245		FK	
HOLL	23	2114	2159	2215	S09	E07	.299	17801	24.4	61	-N	3 C		155		K	
BIGB	23	2115	2120	2217	S09	E08	.306	17801	24.5	62	-B	3 C	2120	120	1.2		
67	HOLL	23	2142	2145	2154	N16	E73	.950	17809	29.4	12	-N	3 C		21		



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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	QMD	Cen Dist	Hale Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
68	CULG	23 2342E	2348U	0014	S08	E02	.200	17801	24.1	32D	?F	P	2348	380	3.8	IF
IMP.1 NO : BIGB MITK VORO																
GRP97069	24	0014+4	0018+3	0043	S17	W31	.628	17796	21.7	29	-N			90	1.1	F
CULG	24	0014	0019	0042	S16	W30	.610	17796	21.8	28	-N	P	0019	100	1.3	F
VORO	24	0015	0019	0044	S18	W32	.647	17796	21.6	29	IN	C	0019	179	2.4	E
BIGB	24	0016	0021	0049D	S17	W31	.628	17796	21.7	33D	-N	3 P	0021	80	1.0	
HOLL	24	0016	0018	0030D	S17	W32	.639	17796	21.6	14D	-N	2 C		96		F
LEAR	24	0018	0019	0038	S17	W30	.618	17796	21.8	20	-F	3 C		66		F
70	CULG	24 0032	0034	0039	S18	E10	.452	17801	24.8	7	-F	C	0034	40	.4	K
71	LEAR	24 0105	0106	0131	S10	E04	.300	17801	24.3	26	-F	3 C		49		F
72	CULG	24 0114	0119	0121	N26	E45	.729	17807	27.4	7	-F	P	0119	40	.6	
GRP97073	24	0128	0137+1	0143	S15	W67	.939	17790	19.0	15	-F					
LEAR	24	0128	0137	0143	S14	W67	.938	17790	19.0	15	-N	3 C		35		
PALE	24	0137E	0138U	0138D	S16	W68	.946	17790	19.0	1D	-F	3 C				
GRP97074	24	0136+0	0147+9	0228	S09	E02	.278	17801	24.2	52	1F			270	3.8	FI
MITK	24	0136	0147	0223	S10	E01	.293	17801	24.1	47	1F	C	0147	280	3.0	F
LEAR	24	0136	0149	0235	S09	E02	.278	17801	24.2	59	1F	3 C		300		F
CULG	24	0136	0157+1	0235	S10	E02	.294	17801	24.2	59	2B	P	0157	560	5.6	IF
PALE	24	0137E	0155U	0225D	S09	E04	.284	17801	24.4	48D	1F	3 C		348		E
YUNN	24	0153E	0154	0214	S09	E02	.278	17801	24.2	21D	1F	P		369	4.0	
75	CULG	24 0209	0212	0216D	N28	E50	.784	17807	27.8	7D	-N	P	0212	60	.9	F
76	LEAR	24 0216	0218	0226	S14	W72	.963	17790	18.7	10	-F	3 C		23		
77	TACH	24 0446	0447	0450	S15	W85	.999	17790	17.8	4	?N	C	0447	64		D
IMP.1 NO : CULG																
78	CULG	24 0533	0533	0549D	S06	E21	.417	17805	25.8	16D	-N	P	0533	50	.5	F
79	MONT	24 0744	0748	0752	N23	E45	.720	17807	27.7	8	-N	C	0748	70		
80	KANZ	24 0821E	0821	0928	S07	E20	.413	17805	25.8	7D	-N	2				
GRP97074	24	0924+1	0928+0	0932	S11	E06	.325	17801	24.8	8	-F					
MONT	24	0924	0928	0933	S12	E06	.341	17801	24.8	9	-F	C	0928	50		DH
YUNN	24	0925	0928	0931	S11	E07	.331	17801	24.9	6	-N	C		161	1.8	DH
GRP97082	24	0946	0951	1010	S17	W37	.691	17796	21.6	24	-N					
MONT	24	0946	0951	1010	S17	W37	.691	17796	21.6	24	-N	C	0951	110		
KANZ	24	0957E	0957	1008D	S17	W37	.691	17796	21.6	11D	-N	3				
83	KANZ	24 1004	1008	1008D	N16	E65	.900	17809	29.3	4D	-N	3				
84	ATHN	24 1020	1022	1058	N18	E69	.927	17809	29.6	38	-B	2 V	1022	64	1.7	
85	ATHN	24 1229	1231	1238	N15	E60	.860	17807	29.0	9	-B	2 V	1231	48	.9	
24 1401 1441 NO FLARE PATROL																
86	HOLL	24 1522	1536	1546	S18	W39	.718	17796	21.7	24	-F	3 C		27		
87	BIGB	24 1608	1615	1702D	N10	E08	.147	17806	25.3	54D	-F	3 C	1615	100	1.0	
88	BIGB	24 1700	1701	1735D	N15	E62	.876	17809	29.4	35D	-N	3 C	1701	50	1.1	
89	HOLL	4 1727	1727	1736	S15	W72	.964	17790	19.3	9	-F	3 C				
90	HOLL	24 1740	1742	1752	S10	W07	.315	17801	24.2	12	-N	3 C		42		
91	HOLL	24 1814	1815	1824	S07	E14	.338	17805	25.8	10	-F	3 C		20		
92	HOLL	24 1821	1821	1830	N28	E42	.706	17807	27.9	9	-F	3 C		52		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Obs Imp	Type	Area Time (UT)	Measurement		Remarks	
							Con Dis	Plage Region	OMP Day					Appar (Disk)	Corr (Sq Deg)		
GRP97093	24	1837+0	1847+1	1909	N23	E36	.617	17807	27.5	32	-B					EH	
H'LL	24	1837	1847	1907	N24	E38	.645	17807	27.6	30	1B	3	C	237		EH	
Bi3B	24	1837	1848	19100	N22	E35	.601	17807	27.4	330	-B	3	C	1848	100	1.3	
94 HOLL	24	1914	191C	1924	S13	W42	.723	17796	21.7	10	-F	3	C		20		
95 HOLL	24	2023	2025	2035	N16	E59	.851	17809	29.3	12	-F	3	C		31	F	
GRP97096	24	2207	2217	2341D	S18	W42	.748	17796	21.8	94	1F			150	2.2	E	
BIGB	24	2207	2217	2341D	S18	W42	.748	17796	21.8	94D	1N	3	C	2217	170	2.4	
MITK	24	2217E		2221D	S18	W42	.748	17796	21.8	4D	1F		C	2217	140	2.2	
	24	2400	0000	NO FLARE PATROL													
97 BIGB	25	0005	0016	0046D	S14	W13	.417	17801	24.0	41D	-F	3	P	0016	70	.7	
98 BIGB	25	0032	0035	0046D	S12	W04	.333	17801	24.7	14D	-N	3	P	0035	60	.6	
	25	0050	0101	NO FLARE PATROL													
	25	0104	0300	NO FLARE PATROL													
99 ABST	25	0519	0522	0524D	N11	W34	.556	17798	22.7	5D	-F		P	0522	87	1.1	DJ
100 ABST	25	0551	0553	0559	S07	E27	.506	17808	27.3	8	-F		C	0553	87	1.0	DJ
GRP97101	25	0552E	0554	0607D	S12	W16	.420	17801	24.0	15	-F						J
			0601														
ABST	25	0552E	0554	0607D	S12	W19	.451	17801	23.8	15D	-F		P	0554	87	1.0	DJ
ABST	25	0554	0601	0607D	S12	W14	.400	17801	24.2	13D	-F		P	0601	87	1.0	DJ
102 ABST	25	0624	0633	0709D	N11	W35	.570	17798	22.6	45D	-F		P	0633	87	1.1	DJ
GRP97103	25	0723+5	0725	0757D	S12	W11	.374	17801	24.5	34	1B						E
			0732														
KANZ	25	0723E	0725	0730D	S12	W09	.359	17801	24.6	7D	1B	2					
ATHN	25	0728	0732	0735D	S09	W11	.332	17801	24.5	7D	1B	2	V	0732	255	2.8	
WEND	25	0735E		0757D	S12	W14	.400	17801	24.3	22D	-F		C	0744	131	1.4	E
	25	0758	0759	NO FLARE PATROL													
104 KHAR	25	0802		0805	S11	W09	.344	17801	24.7	3	-F		V	0802			BDF
105 KHAR	25	0814		0834	S08	E26	.499	17808	27.3	20	-F		V	0817			HL
GRP97106	25	0850		1000	N21	E31	.546	17807	27.7	70	-F						EL
KHAR	25	0850		1000	N20	E32	.554	17807	27.8	70	-F		V	0902			EL
KANZ	25	0904E	0904	0912D	N23	E31	.556	17807	27.7	8D	-N	2					
	25	1101	1209	NO FLARE PATROL													
	25	1218	1248	NO FLARE PATROL													
107 HTPR	25	1322	1324	1333	S14	E90	1.000	17817	1.3	11	-N		C	1324	10		
108 HTPR	25	1335	1337	1349	S05	W30	.534	17801	23.3	14	-F		C	1335	60	.7	
109 HTPR	25	1437	1438	1447	S18	W21	.537	17803	24.0	10	-F		C	1438	20	.2	E
110 HTPR	25	1609	1610	1628	N22	E25	.475	17807	27.5	19	-F		C	1610	20	.2	E
111 HTPR	25	1618	1623	1643	S05	W32	.561	17801	23.3	25	-F		C	1623	30	.3	E
112 BIGB	25	1821	1823	1852	N22	E26	.624	17807	27.7	31	-N	2	C	1823	60	.7	
GRP97113	25	1822	1831+3	1920	S16	W27	.578	17803	23.7	58	-F						
BIGB	25	1822	1834	1930	S17	W28	.597	17803	23.7	68	-N	2	C	1834	100	1.2	
PALE	25	1827E	1831	1909	S16	W27	.578	17803	23.7	42D	-F	3	C		26		
114 PALE	25	1903	1921	1932	N17	E44	.696	17809	29.1	29	-F	3	C		21		
115 PALE	25	1945	1956	2027	S10	W17	.407	17801	24.5	42	-F	3	C		44		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale			Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement		Remarks
								P Lage	OMP	Day					Appar (Disk)	Corr (Sq Deg)	
GRF97116	25	1954+0	1955+0	2012	N15	E48	.740	17809	29.4	18	-N	3 C		40	.6		
PALE	25	1954	1955	2005	N15	E47	.728	17809	29.4	11	-F	3 C		34			
BIGB	25	1954	1955	2014	N15	E48	.740	17809	29.4	20	-N	3 C	1955	50	.8		
HOLL	25	1954	1955	2012	N15	E48	.740	17809	29.4	18	-N	3 C		29			
117 HOLL	25	2144	2145	2205	S04	E19	.374	17808	27.3	21	-F	3 C		33		F	
118 CULG	25	2200	2203	2206	N24	E23	.467	17807	27.6	6	-F	C	2203	60	.7		
119 CULG	25	2237	2239	2242	N11	W14	.248	17806	24.9	5	-F	C	2239	20	.2		
GRP97120	25	2250>9	2252 2308	2318	N23	E22	.446	17807	27.6	28	-F					EJ	
CULG	25	2250	2252	2318	N23	E23	.458	17807	27.7	28	-N	C	2252	80	.9		
VORO	25	2306	2308	2317	N23	E22	.446	17807	27.6	11	-F	P	2308	143	1.6	EJ	
121 CULG	25	2305	2307	2315	N15	E61	.868	17813	30.5	10	-F	C	2307	40	.8		
GRP97122	25	2319+1	2320+1	2330	N11	W17	.297	17806	24.7	11	-F			80	.8	EHJK	
CULG	25	2319	2320	2326	N11	W16	.280	17806	24.8	7	-F	C	2320	70	.7	K	
VORO	25	2320	2321	2334	N12	W18	.316	17806	24.6	14	-N	C	2321	99	1.0	EHJ	
123 VORO	25	2327	2330	2344	S08	E20	.422	17808	27.5	17	-F	C	2330	99	1.1	EHJK	
124 VORO	25	2329	2330	2337	N22	E24	.463	17807	27.8	8	-N	C	2330	116	1.3	D	
GRP97125	25	2329>9	0008 2420	0056D	S10	W23	.478	17801	24.3	87	1N					IJK	
VORO	26	0001	0020	0056	S11	W23	.487	17801	24.3	55	1N	* P	0020	340	3.9	EJK	
HOLL	26	0045	0045	0051D	S09	W22	.457	17801	24.4	6D	-B	* C		41			
CULG	25	2329	2408	0131	S10	W24	.490	17801	24.2	122	1N	* C	2408	260	2.9	IF	
126 CULG	26	0000	0001	0003	N12	W17	.300	17806	24.7	3	-F	C	0001	60	.6		
127 VORO	26	0025	0028	0037	S06	E16	.352	17808	27.2	12	-F	C	0028	161	1.8	EJ	
GRP97128	26	0025+1	0027+3	0035	N23	E21	.434	17807	27.6	10	-F			100	1.1	EJ	
VORO	26	0025	0027	0035	N23	E21	.434	17807	27.6	10	-N	* C	0027	125	1.4	EJ	
CULG	26	0026	0028	0033	N24	E22	.455	17807	27.7	7	-F	* C	0028	100	1.1		
LEAR	26	0026	0030	0036	N20	E21	.409	17807	27.6	10	-F	* C		49			
129 VORO	26	0104	0121	0156	N13	W09	.185	17806	25.4	52	-F	C	0121	90	.9	DJ	
130 CULG	26	0133	0135	0141	N16	E59	.851	17813	30.5	8	-F	C	0135	40	.7		
131 CULG	26	0229	0234	0243	S19	W55	.867	17796	22.0	14	-F	C	0234	40	.8		
132 CULG	26	0253	0259	0310D	S11	W03	.314	17805	25.9	17D	-F	P	0259	90	1.0	F	
GRP97133	26	0326+7	0336+5 0409	0455	S10	W24	.490	17801	24.3	89	2N			480	5.5	EIJ	
CULG	26	0326	0341	0531	S11	W24	.499	17801	24.3	125	2B	P	0341	580	6.4	FEI	
TACH	26	0330	0336	0506	S10	W25	.503	17801	24.3	96	2F	C	0336	477	5.7	E	
LEAR	26	0333	0338	0442	S10	W23	.478	17801	24.4	69	1N	3 C		374		F	
ABST	26	0401E	0409	0444D	S12	W26	.532	17801	24.2	43D	1N	P	0409	262	3.1	EJ	
GRP97134	26	0332+1	0335+0	0355	N21	E21	.417	17807	27.7	23	-N			120	1.3	FU	
CULG	26	0332	0335	0357D	N22	E20	.413	17807	27.6	25D	-B	P	0335	130	1.4	FU	
LEAR	26	0333	0335	0353	N21	E22	.429	17807	27.8	20	-N	3 C		116		F	
GRP97135	26	0408+6	0417+3	0505	N23	E22	.446	17807	27.8	57	1N			270	3.0	IU	
ABST	26	0408E	0420	0530	N27	E26	.526	17807	28.1	82D	-N	P	0420	87	.9	D	
ABST	26	0410	0419	0455	N19	E20	.388	17807	27.7	45	1N	C	0419	262	2.9	F	
LEAR	26	0412	0417	0500	N20	E22	.422	17807	27.8	48	1N	3 C		270		F	
TACH	26	0414	0418	0502	N24	E22	.455	17807	27.8	48	2F	C	0418	548	6.4	E	
CULG	26	0420E	0420U	0512D	N25	E22	.464	17807	27.8	52D	1B	P	0420	290	3.3	FIU	
136 ABST	26	0430	0440	0451	S09	E90	1.000	17817	1.9	21	?F	C	0440	87		AD	
IMP.1 NO :																	
LEAR TACH CULG																	
137 ABST	26	0447	0451	0456	N12	W48	.738	17798	22.6	9	-F	C	0451	87	1.3	D	

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Sta	Day	Start (UT)	Mex (UT)	End (UT)	Lat	CND	Hale		Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement		Remarks	
							Cen Dist	Plage Region					Appar (Disk)	Corr (Sq Deg)		
GRP97138	26	0515	0517	0533	N10	W20	.342	17806	24.7	18	-F				F	
			0525													
CULG	26	0515	0517	0529	N11	W21	.360	17806	24.6	14	-F	C 0517	30	.3	F	
CULG	26	0524	0525	0533	N10	W20	.342	17806	24.7	9	-F	C 0525	40	.4		
GRP97139	26	0545+7	0554+4	0618	N11	W48	.738	17798	22.6	33	-N				E	
HTPR	26	0545	0558	0622D	N10	W49	.749	17798	22.6	37D	-N	C 0558	40	.6	E	
ABST	26	0548	0556	0617D	N12	W47	.726	17798	22.7	29D	-N	P 0556	131	1.9	E	
CULG	26	0549	0555	0622	N10	W48	.738	17798	22.6	33	-F	C 0555	70	1.0	F	
LEAR	26	0550	0554	0607	N11	W47	.726	17798	22.7	17	-N	3 C	33		F	
TACH	26	0552	0557	0614	N13	W50	.761	17798	22.5	22	-N	C 0557	106	1.6	E	
GRP97140	26	0602+6	0606+5	0613	N22	E18	.389	17807	27.6	11	-F				EK	
				0609	N24	E18	.410	17807	27.6	7	-F	C 0606	50	.5	K	
CULG	26	0607	0610	0612	N22	E17	.378	17807	27.5	5	-F	C 0610	40	.4		
HTPR	26	0608	0611	0613	N22	E18	.389	17807	27.6	5	-F	C 0611	30	.3	E	
GRP97141	26	0649+1	0649+2	0705	S10	W17	.407	17801	25.0	16	-F				D	
				0707	S11	W17	.419	17801	25.0	18D	-F	P 0649	87	.9	D	
ABST	26	0649E	0649	0707	S11	W17	.419	17801	25.0	18D	-F	P 0649	87	.9	D	
LEAR	26	0650	0651	0702	S10	W17	.407	17801	25.0	12	-F	3 C	32			
142	HPR	26	0710	0712	0720	N12	E38	.612	17809	29.1	10	-F	C 0712	40	.5	E
143	HPR	26	0725	0729	0735	S14	W08	.383	17805	25.7	10	-F	C 0729	20	.2	
GRP97144	26	0732	0736	0742	S19	W60	.903	17796	21.8	10	-N					
				0739D	S20	W64	.930	17796	21.5	7D	-N	3 C	58		F	
LEAR	26	0732	0736	0739D	S20	W64	.930	17796	21.5	7D	-N	3 C	58		F	
I STA	26	0735E		0742	S19	W56	.875	17796	22.1	7D	-N				E	
GRP97145	26	0732+4	0737+0	0730	N10	W48	.738	17798	22.7	18	-F					
				0750	N10	W50	.760	17798	22.6	18	-F	C 0737	30	.4		
HTPR	26	0732	0737	0750	N10	W50	.760	17798	22.6	18	-F	C 0737	30	.4		
LEAR	26	0736	0737	0743D	N11	W47	.726	17798	22.8	7D	-N	3 C	31	.5		
146	KANZ	26	0737	0749	0757	N23	E16	.377	17807	27.5	20	-N	3			
147	HPR	26	0745	0749	0800	N12	E38	.612	17809	29.2	15	-N	C 0749	80	1.0	E
GRP97148	26	0752+4	0758+3	0824	N11	W48	.738	17798	22.7	32	-N					
				0803D	N10	W49	.749	17798	22.6	26D	-N	*				
KANZ	26	0737	0759	0803D	N10	W49	.749	17798	22.6	26D	-N	*				
HTPR	26	0752	0801	0828	N10	W50	.760	17798	22.6	36	-B	* C	0801	100	1.6	E
LEAR	26	0756	0758	0824	N12	W48	.738	17798	22.7	28	-N	* C	78			
I STA	26	0759E		0820	N12	W48	.738	17798	22.7	21D	1B	*			E	
149	HPR	26	0814	0827	0840	N12	E38	.612	17809	29.2	26	-N	C 0827	100	1.3	E
GRP97150	26	0816+1	0828	0841	N25	E17	.410	17807	27.6	25	-N					
				0841	N23	E17	.388	17807	27.5	25	-N	3 C	135		F	
LEAR	26	0816	0828	0841	N23	E17	.388	17807	27.5	25	-N	3 C	135		F	
I STA	26	0817		0831D	N27	E17	.433	17807	27.6	14D	-N				E	
151	HPR	26	1017	1022	1100	S10	W25	.503	17801	24.6	43	-B	C 1022	80	.9	E
152	HPR	26	1130	1134	1151	N10	W52	.782	17798	22.6	21	-N	C 1134	80	1.2	E
153	HPR	26	1450	1455	1508	N12	W20	.347	17806	25.1	18	-F	C 1455	20	.2	
GRP97154	26	1523+5	1524+4	1545	S11	W22	.475	17801	25.0	22	-F					
				1535	S12	W22	.485	17801	25.0	12	-N	C	1524	40	.4	E
HTPR	26	1523	1524	1535	S12	W22	.485	17801	25.0	12	-N	C	1524	40	.4	E
BIGB	26	1524	1528	1546	S11	W22	.475	17801	25.0	22	-F	3 C	1528	70	.8	
HOLL	26	1528	1528	1545	S10	W22	.466	17801	25.0	17	-F	3 C	38			
155	HPR	26	1543	1544	1547	N22	E14	.344	17807	27.7	4	-F	C 1544	20	.2	E
GRP97156	26	1620+2	1635	1659	N21	E16	.356	17807	27.9	39	-N					
			1652+1													
				1659	N21	E16	.356	17807	27.9	39	-N	3 C	87			
HOLL	26	1620	1635	1659	N21	E16	.356	17807	27.9	39	-N	3 C	87			
HTPR	26	1620	1635	1640	N20	E16	.345	17807	27.9	20	-N	C	1635	40	.4	E
BIGB	26	1622	1633	1702	N21	E16	.356	17807	27.9	40	-N	3 C	1653	60	.6	
HTPR	26	1635	1645	1650	N24	E17	.399	17807	28.0	15	-N	C	1645	30	.3	E
HTPR	26	1648	1652	1658	N22	E13	.334	17807	27.7	10	-B	C	1652	50		E
157	HOLL	26	1641	1641	1647	N11	W53	.793	17798	22.7	6	-N	3 C	17		

## H - ALPHA SOLAR FLARES

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement		Remarks	
							Dist	Region	OMP Day					Appar (Disk)	Corr (Sq Deg)		
158	HOLL	26	1737	1812	1904	N12	W23	.394	17806	25.0	87	-F	3	C	77		F
GRP97159	26	1807+0	1808+0	1823	S12	W33	.615	17801	24.3	16	-F				40	.5	
	BIGB	26	1807	1808	1824	S12	W33	.615	17801	24.3	17	-F	3	C	1808	50	.6
	HOLL	26	1807	1808	1822	S12	W33	.615	17801	24.3	15	-F	3	C		27	
GRP97160	26	1846+2	1902+0	1914	S10	W30	.565	17801	24.5	28	-F				60	.7	
	PALE	26	1846	1902U	1914	S10	W30	.565	17801	24.5	28	-F	3	C		51	
	BIGB	26	1848	1902	1914	S10	W30	.565	17801	24.5	26	-F	3	C	1902	80	1.0
161	HOLL	26	191	1918	1932	N17	E32	.541	17809	29.2	19	-F	3	C		49	
GRP97162	26	2021	2021+2	2033	S09	W31	.571	17801	24.5	12	-F				40	.5	
	HOLL	26	2021	2021	2033	S08	W31	.565	17801	24.5	12	-N	3	C		25	
	PALE	26	202 E	2023U	2028D	S10	W31	.577	17801	24.5	6D	-F	3	C		46	
163	HOLL	26	2048	2049	2051	S12	W35	.638	17801	24.2	3	-F	3	C		22	
164	BIGB	26	2102E	2104	2120	N15	E45	.705	17813	30.3	18D	-N	3	P	2104	100	1.5
GRP97165	26	2113+0	2123+0	2207	S13	W16	.432	17805	25.7	54	-N				120	1.3	F
	HOLL	26	2113	2123	2205	S13	W16	.432	17805	25.7	52	-N	3	C		157	
	BIGB	26	2113	2123	2209	S13	W16	.432	17805	25.7	56	-N	3	C	2123	90	1.0
166	HOLL	26	2130	2131	2142	S08	W31	.565	17801	24.6	12	-N	3	C		39	
	26	2224	2229	NO FLARE PATROL													
167	VORO	26	2250	2255	2320	S04	W42	.686	17801	23.8	30	IN		C	2255	179	2.6
168	VORO	26	2318	2324	2330	S07	E70	.947	17817	1.2	12	-F		C	2324	72	
169	VORO	26	2333	2335	2347	S12	E90	1.000	17817	2.7	14	IN		C	2335	81	
170	HOLL	26	2349	2355	0043	S08	W21	.435	17801	25.4	54	-N	3	C		64	
GRP97171	27	0024+5	0025	0119	S14	W39	.696	17801	24.1	55	IN						FJK
			0035														
	VORO	27	0024	0035	0126	S14	W39	.696	17801	24.1	62	IN		P	0035	179	2.6
	BIGB	27	0024E	0025	0045D	S14	W37	.674	17801	24.2	21D	-N	3	P	0025	110	1.4
	LEAR	27	0029	0059	0111	S12	W41	.707	17801	23.9	42	IN	3	C		441	
	PALE	27	0041E	0042U	0105D	S14	W39	.696	17801	24.1	24D	-F	3	C		41	
GRP97172	27	0036+3	0040+1	0137	N26	E33	.597	17811	29.5	61	1F						IJK
			0057+0														
	VOPO	27	0026	0057	0142	N26	E30	.517	17811	29.3	76	2N		P	0057	502	6.4
	BIGB	27	0036	0041	0045D	N26	E34	.609	17811	29.6	9D	-N	3	P	0041	140	1.7
	LEAR	27	0039	0040	0131	N26	E34	.609	17811	29.6	52	-F	3	C		64	
	PALE	27	0042E	0057U	0105D	N27	E32	.592	17811	29.4	23D	-F	3	C		72	
GRP97173	27	0126+0	0127+1	0142	S05	E01	.210	17808	27.1	16	-N				100	1.0	E
	VORO	27	0126	0128	0138	S05	E01	.210	17808	27.1	12	-B		C	0128	108	1.1
	LEAR	27	0126	0127	0146	S06	E02	.229	17808	27.2	20	-N	3	C		104	
GRP97174	27	0144+1	0148+3	0158	N17	E28	.486	17809	29.2	14	-F				70	.8	EJ
	VORO	27	0144	0151	0158	N18	E30	.518	17809	29.3	14	-F		C	0151	90	1.1
	LEAR	27	0145	0148	0158	N16	E27	.468	17809	29.1	13	-N	3	C		57	
175	LEAR	27	0303	0313	0336	N12	W22	.378	17806	25.5	33	-B	3	C		104	
GRP97176	27	0351+8	0401	0654	S10	W40	.686	17801	24.2	183	2B						FIKU
			0419+5														
	LEAR	27	0351	0419	0650	S11	W40	.691	17801	24.2	179	2B	3	C		986	ZFK
	LEAR	27	0351	0401	0650	S11	W40	.691	17801	24.2	179	1B	3	C		245	K
	ABST	27	0357	0424	0658D	S10	W41	.698	17801	24.1	181D	2N		P	0424	829	11.7
	TACH	27	0359		0422D	S10	W40	.686	17801	24.2	23D	3N		C	0420	1414	20.0
	PEKA	27	0359E	0421	0500D	S10	W42	.709	17801	24.0	61D	3B		C	0421	925	13.6
	HTPR	27	0626E		0720	S11	W37	.656	17801	24.5	54D	-B		C	0635	80	1.0
	YUNN	27	0635E	0637	0637D	S09	W39	.670	17801	24.3	2D	-N		P		64	.9
177	LEAR	27	0404	0404	0409	S08	E02	.262	17808	27.3	5	-F	3	C		27	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale		CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement		Remarks
							Cent Dist	Plage Region						Appar (Disk)	Corr (Sq Deg)	
GRP97178	27	0446+3	0449+2	0454	N10	W31	.512	17806	24.9	8	-F		60	.7	D	
ABST	27	0446	0449	0454	N11	W33	.542	17806	24.7	8	-N	C 0449	87	1.1	D	
LEAR	27	0449	0451	0454	N10	W30	.497	17806	25.0	5	-F	3 C	41			
GRP97179	27	0458+0	0501+1	0511	S11	E71	.956	17817	1.5	13	-N				E	
LEAR	27	0458	0502	0512	S12	E73	.966	17817	1.7	14	-F	3 C	24			
ABST	27	0458	0501	0509	S11	E70	.951	17817	1.5	11	1N	C 0501	157		E	
180 ABST	27	0534E	0548	0602	S06	W03	.232	17808	27.0	280	-F	P 0548	114	1.2	F	
GRP97181	27	0540+3	0554+2	0637	S12	E77	.981	17817	2.0	57	2N				HY	
ABST	27	0540	0554	0658D	S11	E85	.998	17817	2.6	78D	3N	P 0554	402		F	
LEAR	27	0543	0556	0624	S13	E76	.979	17817	1.9	41	2B	3 C				
MITK	27	0555E		0616	S11	E78	.984	17817	2.1	21D	1N	C 0555	170		HY	
HTPR	27	0626E		0650	S13	E76	.979	17817	2.0	24D	-F	C 0632	60		E	
182 ABST	27	0614	0620	0626	N11	W33	.542	17806	24.8	12	-N	C 0620	96	1.2	D	
183 HTPR	27	0706	0711	0715	S14	E67	.938	17817	1.3	9	-F	C 0711	30	.6		
GRP97184	27	0728	0737	0752	S10	W39	.675	17801	24.4	24	-N				D	
HTPR	27	0728	0737	0755	S11	W38	.668	17801	24.5	27	-N	C 0737	20	.2		
ISTA	27	0734E		0748	S10	W40	.686	17801	24.3	14D	-N				D	
GRP97185	27	0730	0732	0750	N13	E90	1.000	17818	3.1	20	-B				AY	
HTPR	27	0730	0732	0750	N13	E90	1.000	17818	3.1	20	-B	C 0732	30			
ISTA	27	0734E		0750	N14	E90	1.000	17818	3.1	16D	-N				A	
YUNN	27	0740E		0750D	N12	E90	1.000	17818	3.1	10D		P			Y	
186 HTPR	27	0732	0743	0800	N10	W32	.526	17806	24.9	28	-F	C 0743	30	.3	E	
GRP97187	27	0740>9	0805+5	0911	S19	W44	.773	17803	24.0	91	-N		50	.8	EG	
HTPR	27	0740	0810	1000	S17	W42	.743	17803	24.2	140	-B	C 0810	50	.7		
HTPR	27	0800	0910	1000	S21	W47	.809	17803	23.8	120	-N	C 0910	100	1.4		
MONT	27	0802	0805	0817	S19	W45	.782	17803	24.0	15	-F	C 0805	60		E	
KANZ	27	0856E		0911D	S20	W43	.768	17803	24.1	15D	-N	3			G	
GRP97188	27	0814>9	0827+1	0832	N09	W34	.555	17806	24.8	18	-N		60	.7	H	
HTPR	27	0814	0827	0831	N09	W35	.569	17806	24.7	17	-N	C 0827	60	.7		
MONT	27	0824	0828	0832	N09	W33	.541	17806	24.9	8	-N	C 0828	70		H	
189 HTPR	27	0846	0847	0855	N17	E46	.719	17813	30.8	9	-N	C 0847	30	.4	E	
190 HTPR	27	0925	0936	0945	N14	E90	1.000	17818	3.1	20	-N	C 0936	20			
191 HTPR	27	1005	1008	1015	N09	W37	.597	17806	24.6	10	-F	C 1008	30	.4		
192 HTPR	27	1014	1015	1020	N17	E38	.621	17813	30.3	6	-N	C 1015	30	.4	E	
193 HTPR	27	1025	1028	1035	N09	W35	.569	17806	24.8	10	-N	C 1028	20	.2	E	
194 HTPR	27	1112	1120	1125	N08	W36	.583	17806	24.8	13	-F	C 1120	40	.5		
195 HTPR	27	1120	1145	1158	S15	W41	.722	17801	24.4	38	-F	C 1145	30	.4	E	
196 HTPR	27	1201	1203	1207	S04	W50	.778	17801	23.8	6	-F	C 1203	30	.5	E	
197 HTPR	27	1218	1219	1223	N07	W21	.356	17806	25.9	7	-N	C 1219	60	.6		
198 HTPR	27	1219	1221	1230	S10	E63	.906	17817	1.2	11	-F	C 1221	40	.8	E	
199 HTPR	27	1239	1243	1301	S10	W73	.964	17800	22.1	22	-N	C 1243	20			
200 RAMY	27	1244	1247	1300	S11	W44	.736	17801	24.2	16	-N	3 C	39			
GRP97201	27	1248+0	1249+1	1326	N12	E22	.378	17809	29.2	38	-N				E	
RAMY	27	1248	1249	1331	N12	E22	.378	17809	29.2	43	-N	3 C	123			
HTPR	27	1248	1250	1320	N13	E23	.397	17809	29.3	32	-B	C 1250	50	.5	E	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Hale Plage Dist	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks	
GRP97202	27	1300>9	1303 1318	1327	N09	W37	.597 17806	24.8	27	-N					KW	
HTPR	27	1300	1303	1328	N09	W37	.597 17806	24.8	28	-N	C	1316	120	1.5	KW	
RAMY	27	1316	1318	1325	N09	W37	.597 17806	24.8	9	-N	3 C		31			
GRP97203	27	1322>9	1359+1	1413	N14	E89	.999 17818	3.2	51	-B						
HTPR	27	1322	1400	1420	N14	E90	1.000 17818	3.3	58	1B	C	1400	100			
HUAN	27	1344	1359	1406	N15	E88	.998 17818	3.2	22	-N	1 C	1359	30			
GRP97204	27	1454+0	1455+2 1507	1510	N11	W34	.556 17806	25.1	16	-F				30	.4	E
RAMY	27	1454	1457	1510	N11	W33	.542 17806	25.1	16	-N	3 C		29			
HTPR	27	1454	1455	1505	N10	W33	.541 17806	25.1	11	-F	C	1455	30	.3	E	
HTPR	27	1505	1507	1510	N11	W39	.625 17806	24.7	5	-F	C	1507	20	.3		
205 RAMY	27	1512	1512	1521	S10	W43	.721 17801	24.4	9	-N	3 C			18		
GRP97206	27	1525>9	1613 1700	1717	S12	E70	.952 17817	1.9	112	-F					E	
HTPR	27	1525		1720D	S12	E70	.952 17817	1.9	115D	1N	C	1645	100	2.4	E	
RAMY	27	1544	1613	1626	S12	E71	.957 17817	2.0	42	-F	3 C					
HOLL	27	1640	1700	1717	S11	E64	.915 17817	1.5	37	-F	3 C		44			
207 HTPR	27	1530	1534	1540	N11	W39	.625 17806	24.7	10	-F	C	1534	20	.3		
208 RAMY	27	1607	1607	1623	N16	E21	.381 17809	29.2	16	-F	3 C			35		
GRP97209	27	1634>9	1654+6	1723	N16	E20	.367 17809	29.2	49	-N				150	1.6	I
RAMY	27	1634	1654	1740	N17	E19	.359 17809	29.1	66	1N	3 C		248		F	
HTPR	27	1640		1720D	N15	E20	.218 17809	29.2	40D	-B	C	1658	150	1.5	EI	
HOLL	27	1644	1700	1722	N17	E20	.373 17809	29.2	38	-N	3 C		166		F	
BIGB	27	1644	1700	1727	N17	E20	.373 17809	29.2	43	-N	3 C	1700	130	1.4		
HUAN	27	1648	1656	1713	N15	E20	.351 17809	29.2	25	-N	1 C	1656	40	.4	E	
GRP97210	27	1659+3	1713+2	1743	S04	W54	.819 17801	23.7	44	-N				60	1.0	
HOLL	27	1659	1715	1744	S04	W53	.809 17801	23.7	45	-N	3 C			72		
RAMY	27	1702	1713	1742	S04	W55	.829 17801	23.6	40	-N	3 C			60		
211 HTPR	27	1701	1705	1713	N11	W39	.625 17806	24.8	12	-N	C	1705	50	.6		
212 HOLL	27	1739	1739	1749	S13	E75	.975 17817	2.4	10	-F	3 C					
GRP97213	27	1755>9	1803+6	1815	S02	W53	.806 17801	23.8	20	-F				20	.3	
HOLL	27	1755	1803	1820	S02	W52	.795 17801	23.8	25	-F	3 C			24		
RAMY	27	1806	1809	1810	S03	W55	.827 17801	23.6	4	-F	3 C			20		
214 RAMY	27	1821	1826	1837	N10	W40	.638 17806	24.8	16	-F	3 C			50		
215 HOLL	27	1840	1844	1856	S03	W55	.827 17801	23.7	16	-F	3 C			51		
GRP97216	27	1850+4	1903+1	1922	N10	W40	.638 17806	24.8	32	-N					E	
RAMY	27	1850	1904	1955	N10	W40	.638 17806	24.8	65	-B	3 C		80		FE	
HOLL	27	1851	1904	1918	N11	W40	.638 17806	24.8	27	-B	3 C		63			
PALE	27	1853	1904	1916	N09	W40	.638 17806	24.8	23	-F	3 C		31			
BIGB	27	1854	1903	1925	N11	W40	.638 17806	24.8	31	-N	3 C	1903	70	.9		
HUAN	27	1859E		1908D	N08	W40	.638 17806	24.8	9D	-F	1 P	1900	20	.3	E	
217 RAMY	27	1915	1930	1955	S16	E63	.917 17817	1.5	40	-F	3 C			27		
218 PALE	27	2046	2051	2058	S11	E59	.878 17817	1.3	12	-F	3 C			29		
219 PALE	27	2055	2058	2103	N15	E19	.346 17809	29.3	8	-F	3 C			25		
GRP97220	27	2158>9	2214+1	2232	S11	E59	.878 17817	1.3	34	-B				100	2.0	EJ
VORO	27	2158	2214	2230	S12	E59	.880 17817	1.3	32	1B	P	2214	134	2.7	EJ	
BIGB	27	2212	2215	2233	S11	E60	.886 17817	1.4	21	-B	3 C	2215	80	1.6		
221 VORO	27	2252	2253	2258	S12	E59	.880 17817	1.4	6	-N	C	2253	63	1.3	E	
222 VORO	27	2303	2306	2325	N12	E18	.316 17809	29.3	22	-N	C	2306	90	1.0	EJ	

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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		Remarks		
														Appar (Disk)	Corr (Sq Deg)			
223	VORO	27	2312	2315	2319	S12	E59	.880	17817	1.4	7	?N	C	2315	99	2.1	EJ	
IMP.1 NO : BIGB CULG																		
GRP97224	28	0014+1	0016+3	0026	S12	E58	.872	17817	1.4	12	-N				60	1.2	E	
CULG	28	0014	0019	0032	S11	E58	.870	17917	1.4	18	1N	C	0019	120	2.4			
VORO	28	0014	0016	0026	S12	E59	.880	17817	1.4	12	-N	C	0016	45	.9	E		
LEAR	28	0015	0017	0025	S12	E57	.864	17817	1.3	10	-F	3	C		60			
GRP97225	28	0019+1	0025+6	0059	N10	W43	.677	17806	24.8	40	-N			80	1.1	EJK		
VORO	28	0019	0025	0110	N10	W46	.714	17806	24.6	51	-N	P	0025	108	1.5	EJK		
CULG	28	0020	0031	0048	N10	W41	.651	17806	24.9	28	-N	C	0031	50	.5			
GRP97226	28	0136+1	0138	0213	S12	E59	.880	17817	1.5	37	1N			150	3.1	EJK		
0144+3																		
CULG	28	0136	0144	0200	S10	E57	.860	17817	1.3	24	1N	C	0144	180	3.6			
LEAR	28	0137	0138	0156	S12	E56	.856	17817	1.3	19	1N	3	C		198			
VORO	28	0137	0147	0213	S12	E59	.880	17817	1.5	36	1N	C	0147	134	2.7	EJK		
CULG	28	0200	0208	0220	S09	E64	.912	17817	1.9	20	-N	C	0208	30	.8			
227	CULG	28	0152	0155	G208	N23	W01	.274	17807	28.0	16	-N	C	0155	100	1.0		
GRP97228	28	0330+4	0335+7	0346	S11	E58	.870	17817	1.5	16	-N			80	1.6	E		
CULG	28	0330	0342	0400	S10	E57	.860	17817	1.4	30	-N	*	C	0342	70	1.4		
VORO	28	0332	0335	0348	S12	E55	.847	17817	1.3	16	-N	*	C	0335	72	1.3	E	
TACH	28	0333	0337	0342	S11	E60	.886	17817	1.6	9	1N	*	C	0337	159	3.5	E	
LEAR	28	0334	0335	0343	S12	E61	.896	17817	1.7	9	-N	*	C		94		F	
GRP97229	28	0330+6	0337	0408	N10	W45	.702	17806	24.8	38	2N			410	5.8	EHJK		
0346+5																		
VORO	28	0330	0347	0425	N10	W46	.714	17806	24.7	55	2N	C	0347	430	6.1	EHJ		
CULG	28	0334	0351	0407	N08	W44	.690	17806	24.8	33	1N	P	0352	320	4.5			
TACH	28	0336	0348	0406	N10	W47	.726	17806	24.6	30	2F	C	0348	530	7.7	EZ		
LEAR	28	0336	0346	0408	N10	W44	.689	17806	24.8	32	1B	3	C		372		FEK	
LEAR	28	0336	0337	0408	N10	W44	.689	17806	24.8	32	-F	3	C		35		K	
GRP97230	28	0346+5	0350+3	0357	S11	W52	.817	17801	24.3	11	-N			90	1.			
VORO	28	0346	0350	0355	S11	W55	.845	17801	24.0	9	-F	C	0350	90	1.0	E		
LEAR	28	0346	0351	0357	S11	W52	.817	17801	24.3	11	-N	3	C		66		F	
CULG	28	0351	0353	0359U	S11	W49	.788	17801	24.5	8D	-N	P	0353	100	1.6			
231	LEAR	28	0606	0609	0624	N16	E13	.268	17809	29.2	18	-F	3	C		32		F
232	HTPR	28	0705	0707	0715	S16	E60	.897	17817	1.8	10	-F	C	0707	20	.4		
233	HTPR	28	0716	0719	0725	N10	W47	.726	17806	24.8	9	-N	C	0719	30	.4	E	
GRP97234	28	0751+1	0752+4	0802	S15	E55	.856	17817	1.5	11	-N						E	
HTPR	28	0751	0756	0802	S15	E60	.894	17817	1.8	11	-N	C	0756	60	1.2	E		
KANZ	28	0752	0752	0801	S15	E51	.821	17817	1.2	9	-N							
GRP97235	28	0905+2	0906+1	0911	N13	W39	.627	17806	25.5	6	-N			60	.8	D		
ABST	28	0905E	0906	0907D	N13	W41	.653	17806	25.3	20	-N	P	0906	87	1.2	D		
HTPR	28	0905	0907	0911	N13	W39	.627	17806	25.5	6	-B	C	0907	40	.5			
LEAR	28	0907	0907	0911	N13	W38	.613	17806	25.5	4	-F	3	C		45			
GRP97236	28	0915+5	0919+1	0938	S03	W61	.881	17801	23.8	23	-N						U	
0926																		
LEAR	28	0915	0919	0946D	S04	W61	.882	17801	23.8	31D	1N	3	C		238		F	
HTPR	28	0915	0920	0935	S04	W61	.882	17801	23.8	20	-N	C	0920	70	1.4	E		
ISTA	28	0920		0932	S03	W61	.881	17801	23.8	12	-N						U	
ATHN	28	0924E	0926	0940	S02	W52	.795	17801	24.5	16D	-B	4	V	0926	127	2.0		
237	HTPR	28	1006	1007	1016	N15	E26	.449	17813	30.4	10	-N	C	1007	60	.7	E	
238	HTPR	28	1006	1022	1100	S14	W36	.663	17805	25.7	54	1N	C	1022	200	2.4	EI	
239	HTPR	28	1018	1020	1033	S11	E51	.808	17817	1.3	15	-B	C	1020	60	.9	E	
240	HTPR	28	1236	1239	1255	S08	W17	.386	17808	27.2	19	-N	C	1239	50	.5	E	
241	HTPR	28	1238	1239	1245	N14	E30	.504	17813	30.8	7	-F	C	1239	50	.6	E	



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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale		Dur (Min)	Imp	Obs Type	Area (UT)	Measurement		Remarks
							Con Dist	Plage Region					Appar (Disk)	Corr (Sq Deg)	
242	RAMY	28 1351	1351	1411	S11	W56	.854	17801	24.4	20	-F	3 C	71		
243	HTPR	28 1351	1353	1408	N12	E08	.161	17809	29.2	17	-N	C	1353	40	.4 E
GRP97244	28 1358+7	1410+1	1449	S12	E51	.811	17817	1.4	51	-B					
	HTPR	28 1358	1411	1450	S13	E52	.823	17817	1.5	52	-N	C	1411	50	.8 E
	RAMY	28 1405	1410	1447	S11	E50	.798	17817	1.3	42	1B	3 C		.39	F
245	RAMY	28 1409	1410	1419	N16	E30	.510	17813	30.8	10	-N	3 C		35	
246	RAMY	28 1432	1432	1439	N10	W51	.771	17806	24.8	7	-N	3 C		51	
GRP97247	28 1505+1	1508+3	1535	S11	E49	.788	17817	1.3	30	-B			120	1.9	E
	RAMY	28 1452	1509	1538	S12	E49	.792	17817	1.3	46	1B	3 C		216	FE
	HTPR	28 1505	1508	1531	S12	E49	.792	17817	1.3	26	-B	C	1508	120	1.9
	BIGB	28 1506	1511	1539	S11	E50	.798	17817	1.4	33	-B	2 C	1511	90	1.4
	HOLL	28 1525E	1525U	1532	S10	E47	.764	17817	1.2	7D	-N	3 C		122	
248	HTPR	28 1545	1556	1607	S12	E49	.792	17817	1.3	22	-F	C	1556	30	.4
249	HTPR	28 1553	1554	1607	S25	E90	1.001	17822	4.4	14	-F	C	1554	20	
250	HTPR	28 1615		1719D	S12	E49	.792	17817	1.4	64D	-F	C	1703	40	6
251	HTPR	28 1640	1701	1709	S16	E55	.858	17817	1.8	29	-N	C	1701	40	.6
252	BIGB	28 1719	1724	1745	S11	E48	.778	17817	1.3	26	-N	3 C	1721	80	1.2
253	HOLL	28 1757	1812	1840	N09	W54	.803	17806	24.7	43	-N	3 C		64	
254	HOLL	28 1757E	1807	1811	S15	E56	.864	17817	1.9	14D	-F	3 C		31	F
GRP97255	28 1848+6	1853+2	1908	S11	E46	.757	17817	1.2	70	-N			90	1.4	F
	HOLL	28 1848	1853	1855D	S12	E46	.761	17817	1.2	7D	-N	3 C		134	
	HUAN	28 1851	1851	1906	S11	E48	.778	17817	1.4	15	-F	1 C			E
	BIGB	28 1854	1855	1915	S13	E47	.775	17817	1.3	21	-N	3 P	1855	70	1.0
	PALE	28 1900E	1900U	1908	S11	E46	.757	17817	1.2	8D	-F	3 C		57	
GRP97256	28 1919+2	1923+3	1941	S08	W42	.701	17805	25.7	22	1N			240	3.3	
	HOLL	28 1907E	1926U	1927D	S08	W43	.713	17805	25.6	20D	1B	3 C		354	
	HUAN	28 1919		1924D	S08	W42	.701	17805	25.7	5D	-N	1 P			
	PALE	28 1920	1924	1933	S09	W42	.705	17805	25.7	13	1N	3 C		194	
	BIGB	28 1921	1923	1948	S09	W42	.705	17805	25.7	27	1N	2 C	1923	180	2.5
GRP97257	28 2000	2012+5	2036	N09	W54	.803	17806	24.8	36	-N			100	1.7	U
	HOLL	28 2000	2012	2023D	N10	W54	.803	17806	24.8	23D	1N	3 C		182	
	PALE	28 2001	2013	2032	N09	W54	.803	17806	24.8	31	-N	3 C		116	U
	HUAN	28 2002	2017	2027D	N08	W55	.814	17806	24.7	25D	-N	1 C	2017	20	.3
	BIGB	28 2006	2014	2040	N10	W54	.803	17806	24.8	34	-N	2 C	2014	80	1.4
GRP97258	28 2017+2	2019+5	2046	N16	E02	.158	17809	29.0	29	-N			70	.7	
	HOLL	28 2017	2019	2023D	N16	E02	.158	17809	29.0	6D	-N	3 C		143	
	BIGB	28 2018	2019	2041	N16	E02	.158	17809	29.0	23	-N	3 C	2019	80	.8
	PALE	28 2018	2021	2046	N17	E03	.185	17809	29.1	28	-F	3 C		65	F
	HUAN	28 2019	2024	2046D	N16	E03	.163	17809	29.1	27D	-N	1 C	2024	30	.3
GRP97259	28 2030+0	2031	2041	S10	E46	.754	17817	1.3	11	-F					
	PALE	28 2030	2031	2043	S10	E45	.743	17817	1.2	13	-F	3 C		69	
	HUAN	28 2030		2038	S11	E47	.768	17817	1.4	8	-F	1 C			
260	PALE	28 2030	2044	2059	S05	W67	.927	17801	23.8	29	-F	3 C		31	
GRP97261	29 0037+2	0039+0	0101	S07	W23	.453	17808	27.3	24	-N			40	.4	F
	BIGB	29 0037	0039	0045D	S07	W23	.453	17808	27.3	8D	-N	3 P	0039	40	.4
	LEAR	29 0039	0039	0052	S07	W23	.453	17808	27.3	13	-F	3 C		27	
	CULG	29 0042E	0042U	0109	S08	W23	.461	17808	27.3	27D	-N	P	0042	60	.7
262	CULG	29 0119	0129	0209	S16	W45	.768	17805	25.7	50	-F	C	0129	40	.6
263	CULG	29 0223	0226	0230	S13	W55	.850	17801	25.0	7	-F	C	0226	30	.5

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	QMD	Cor Dist	Hale Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
264	CULG	29 0253	0255	0325	N16	E10	.228	17812	29,9	32	-F	C	0255	60	.6	F
265	LEAR	29 0327	0328	0335	N15	E63	.884	17818	2,9	8	-F	3 C		41		
GRP97266	29 0327+1	0333+2	0339	N06	W61	.871	17806	24,6	12	-N						
	CULG	29 0327	0333	0340	N05	W61	.872	17806	24,6	13	1N	C	0333	220	4.4	
	LEAR	29 0328	0335	0338	N08	W61	.870	17806	24,6	10	-F	3 C		29		
GRP97267	29 0402+6	0411+2	0439	S12	W46	.761	17805	25,7	37	-F				45	.7	
	CULG	29 0402	0413	0450	S13	W46	.765	17805	25,7	48	-N	C	0413	60	.9	
	LEAR	29 0408	0411	0427	S12	W47	.772	17805	25,6	19	-F	3 C		33		
GRP97268	29 0452+1	0453+7	0508	S11	E40	.691	17817	1,2	16	-B				120	1.6	
	CULG	29 0452	0453	0507	S09	E41	.694	17817	1,3	15	-B	C	0453	140	1.9	
	LEAR	29 0453	0457	0508	S12	E40	.696	17817	1,2	15	-B	3 C		123		
	PEKG	29 0458E	0500	0503	S11	E39	.680	17817	1,1	50	-N	P	0500	63	.9	E
	CULG	29 0506	0508	0511	S05	E41	.678	17817	1,3	5	-F	C	0508	50	.7	F
GRP97269	29 0453+0	0456+0	0511	S13	W45	.755	17805	25,8	18	-N						D
	TACH	29 0453	0456	0505	S12	W42	.665	17805	26,1	12	-B	C	0456	133	1.9	D
	LEAR	29 0453	0456	0516	S14	W48	.789	17805	25,6	23	-F	3 C		39		
270	LEAR	29 0458	0502	0535	N12	W56	.823	17806	25,0	37	-N	3 C		38		
GRP97271	29 0511	0526	0552D	N14	E61	.868	17818	2,8	41	1N				180	3.7	I
	CULG	29 0511	0526	0552	N16	E62	.876	17818	2,9	41	1N	C	0526	180	3.6	FI
	ABST	29 0529E	0529	0633D	N12	E61	.868	17818	2,8	64D	1F	P	0529	175	3.6	BE
GRP97272	29 0537+3	0541+1	0554	S08	W63	.903	17801	24,5	17	-F						D
	ABST	29 0537	0542	0553	S08	W65	.917	17801	24,4	16	-F	P	0542	87		D
	LEAR	29 0540	0541	0555	S09	W62	.898	17801	24,6	15	-F	3 C		23		
273	LEAR	29 0544	0544	0553	N12	W57	.832	17806	25,0	9	-F	3 C		73		
GRP97274	29 0623+1	0626	0650	N09	W61	.869	17806	24,7	27	-F						FW
	ABST	29 0623E	0638	0653D	N09	W61	.869	17806	24,7	30D	1F	F	0638	175	3.6	F
	CULG	29 0624	0626	0648	N08	W62	.878	17806	24,6	24	-F	C	0626	30	.6	W
	LEAR	29 0635	0636	0650	N10	W60	.860	17806	24,8	15	-F	3 C		30		
GRP97275	29 0629+7	0639+5	0701	S11	W65	.922	17801	24,4	32	1N				140		F
	CULG	29 0629	0639	0657	S12	W66	.929	17801	24,3	28	1N	C	0639	120	3.2	F
	LEAR	29 0632	0644	0715	S10	W64	.914	17801	24,5	43	1B	3 C		222		F
	BUCA	29 0636		0705	S10	W71	.955	17801	24,0	29	-F	C	0640	.4	1.7	
	ABST	29 0638E	0643	0648D	S12	W65	.923	17801	24,4	100	1F	F	0643	175		F
	ATHN	29 0640E	0644	0655	S10	W60	.884	17801	24,8	150	1B	4 V	0644	127	3.0	
276	ABST	29 0702E	0702	0704D	S17	E47	.792	17817	1,8	2D	-F	P	0704	96	1.6	F
GRP97277	29 0720+2	0723+2	0740	S16	E46	.778	17817	1,8	20	-N				50	.8	D
	BUCA	29 0720	0725	0740	S14	E46	.769	17817	1,8	20	1N	C	0725	161	2.6	
	LEAR	29 0722	0723	0737	S17	E46	.782	17817	1,8	15	-N	3 C		34		
	HTPR	29 0725E		0745	S16	E47	.788	17817	1,8	200	-B	C	0725	50	.7	B
	YIMN	29 0726E		0732D	S17	E46	.782	17817	1,8	6D	-N	P		64	1.1	D
GRP97278	29 0729+1	0734	0804	S14	W49	.799	17805	25,6	35	-F				110	1.8	
	LEAR	29 0729	0734	0807	S15	W48	.793	17805	25,7	38	-F	3 C		110		
	BUCA	29 0730		0800	S13	W50	.805	17805	25,6	30	-F	P	0738	107	1.8	
GRP97279	29 0757+3	0800+7	0815	S17	E46	.782	17817	1,8	18	-B				120	1.9	E
	KANZ	29 0757	0801	0817	S15	E47	.783	17817	1,9	20	-B	3				
	HTPR	29 0757		0812D	S16	E47	.768	17817	1,9	150	1/3	C	0802	150	2.2	E
	YUNN	29 0800	0804	0811	S17	E46	.782	17817	1,8	11	-N	C		80	1.3	E
	LEAR	29 0800	0800	0816	S17	E46	.782	17817	1,8	16	-B	3 C		80		FE
	PEKG	29 0802E	0805	0814	S18	E46	.787	17817	1,8	120	1N	C	0805	139	2.3	E
	ATHN	29 0803E	0807	0816	S19	E48	.809	17817	1,9	130	1B	4 V	0807	143	2.2	
GRP97280	29 0801+1	0813	0927	N26	W19	.441	17807	27,9	86	-N						EL
			0821													
	KANZ	29 0801	0821	0927	N26	W19	.441	17807	27,9	86	1N	3				L
	PEKG	29 0802	0813	0825D	N26	W20	.451	17807	27,8	230	-F	C	0813	34	.4	E

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Imp	Obs Type	Area Measurement			Remarks	
							Cen Dist	Plage Region	OMP Day				Time (UT)	Appar (Disk)	Corr (Sq Deg)		
281	ATHN	29 0805E	0815	0820	N18	W08	.444	17809	28.7	150	-N	4	V	0815	159	1.7	
282	PEKG	29 0810	0811	0814	N12	E63	.885	17818	3.1	4	-N		C	0811	42	.9	D
GRP97283	29 0845+2	0848+3	0859	N13	E16	.289	17813	30.6	14	-N				30	.3	E	
	LEAR	29 0845	0848	0858	N15	E17	.316	17813	30.6	13	-N	3	C		40		
	HTPR	29 0845		0849D	N13	E16	.289	17813	30.6	40	-F		C	0846	20	.2	E
	KANZ	29 0847	0851	0859	N13	E15	.214	17813	30.5	12	-N	3					
GRP97284	29 0911+4	0919+0	0946	S13	E49	.705	17817	2.1	35	-F							F
	LEAR	29 0911	0919	0947D	S14	E48	.711	17817	2.0	36	-F	3	C		35		F
	KANZ	29 0915	0919	0945	S13	E50	.805	17817	2.1	30	-F	3					
GRP97285	29 0926+1	0927+0	0944	S09	W65	.919	17801	24.5	18	-F							
	LEAR	29 0926	0927	0946	S09	W64	.912	17801	24.6	20	-F	3	C		16		
	KANZ	29 0927	0927	0941	S10	W66	.927	17801	24.4	14	-F	3					
286	KANZ	29 0953	1002	1030	N08	W64	.894	17806	24.6	37	-B	3					
287	KANZ	29 0953	0956	1006	S11	W67	.934	17801	24.4	13	-F	3					
288	KANZ	29 1058	1059	1112	N14	E14	.265	17813	30.5	14	-B	3					L
289	KANZ	29 1237	1240	1258	S27	E85	1.000	17822	4.9	21	-B	3					A
290	KANZ	29 1302	1305	1313	S12	E36	.651	17817	1.2	11	-B	3					
291	HOLL	29 1338	1359	1428	N17	E15	.303	17813	30.7	50	-F	3	C		7		
292	HOLL	29 1339	1347	1356	N19	W26	.468	17807	27.1	17	-F	3	C		21		
293	HOLL	29 1516	1524	1529	S15	W69	.950	17801	24.5	13	-F	3	C		11		
GRP97294	29 1555+0	1555+0	1607	N16	E08	.205	17813	30.3	12	-B				100	1.0		
	BIGB	29 1555	1555	1608	N16	E08	.205	17813	30.3	13	-B	3	C	1555	70	.7	
	HOLL	29 1555	1555	1606	N16	E08	.205	17813	30.3	11	-B	3	C		139		
295	HOLL	29 1612	1619	1630	S12	W72	.962	17801	24.3	18	-F	3	C		10		
296	HOLL	29 1653	1653	1658	S16	E42	.738	17817	1.9	5	-N	3	C		23		
297	HOLL	29 1818	1820	1841	N12	W06	.133	17809	29.3	23	-N	3	C		38		
GRP97298	29 1858+4	1901	1918D	N14	E50	.761	17818	2.5	20	1N							FKU
	BIGB	29 1858	1901	1918	N14	E50	.761	17818	2.5	20	1B	3	C	1901	140	2.2	
	HUAN	29 1902		1909D	N15	E55	.813	17818	2.9	70	-F	1	P				
	HOLL	29 1905E	1905U	0007	N14	E50	.761	17818	2.5	302D	1B	3	C		286		UFK
GRP97299	29 1951+1	1952+0	1956	S10	E30	.566	17817	1.1	5	-N				50	.6		
	BIGB	29 1951	1952	1956	S10	E30	.566	17817	1.1	5	-N	3	C	1952	70	.8	
	HOLL	29 1952	1952	1955	S10	E30	.566	17817	1.1	3	-N	3	C		40		
GRP97300	29 1952+0	2006+1	2354	S29	E74	.984	17822	4.4	242	-N							F
	H. L	29 1952	2007	2350	S29	E74	.984	17822	4.4	244	-N	3	C				F
	BIGJ	29 1952	2006	2352	S29	E74	.984	17822	4.4	240	1N	3	C	2006	90		
301	HOLL	29 1957	1957	2002	N15	E07	.181	17813	30.4	5	-N	3	C		27		
302	HOLL	29 2005	2005	2013	N17	E07	.208	17813	30.4	8	-N	3	C		88		
GRP97303	29 2112	2114	2135	S10	E85	.998	17824	5.3	23	1B							
	BIGB	29 2112	2114	2136	S11	E86	.999	17824	5.3	24	1B	3	C	2114	90		
	HOLL	29 2117E	2117U	2134	S10	E84	.997	17824	5.2	170	1B	3	C				
304	HOLL	29 2209	2210	2223	S10	E38	.663	17817	1.8	14	-N	3	C		27		
GRP97305	29 2239E	2242	0004	N14	E50	.761	17818	2.7	85	-B							K
	HOLL	29 1905E	2242	0007	N14	E50	.761	17818	2.5	302D	-B	*	C		151		K
	BIGR	29 2239	2256	0004	N13	E50	.813	17818	3.1	85	-B	*	C	2256	80	1.4	
	LEAF	29 2349	2352	2352D	N14	E50	.761	17818	2.7	30	-N	*	C		54		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Obs imp	Type	Area Measurement		Remarks		
							cen Dist	Plage Region	CMP Day				Time (UT)	Appar (Disk)		Corr (Sq Deg)	
GRP97306	29	2255>9	2259 2338	2356	N16	E05	.176	17813	30.3	61	-F						
HOLL	29	2255	2259	2349	N16	E05	.176	17813	30.3	54	-F	3	C	50			
LEAR	29	2337	2338	0003	N17	E06	.199	17813	30.4	26	-F	3	C	29			
307	HOLL	29	2348	2349	0006	S10	E37	.651	17817	1.8	18	-F	3	C	38		
308	LEAR	30	0020	0020	0026	N16	W10	.228	17809	29.3	6	-F	3	C	26		
309	HOLL	30	0031	0037	0041	S10	E83	.995	17824	5.2	10	-F	3	C			
310	LEAR	30	0056	0105	0123	N17	E05	.191	17813	30.4	27	-F	3	C	51		
GRP97311	30	0056>9	0124+1	0135	S10	W73	.965	17801	24.6	39	1N			100	E		
LEAR	30	0056	0125	0225	S09	W72	.959	17801	24.6	89	2N	3	C				
CULG	30	0118	0125	0135	S11	W73	.965	17801	24.6	17	1N		P	0125	100		
PEKG	30	0124E	0124	0135	S10	W85	.998	17801	23.7	11D	1N		C	0124	97	E	
312	CULG	30	0123E	0123	0129	N18	W08	.231	17809	29.5	6D	-N		P	0123	70	.7
313	LEAR	30	0125	0151	0206	N18	E10	.252	17813	30.8	41	-F	3	C	111		
314	LEAR	30	0150	0150	0208	N16	W11	.241	17809	29.3	18	-F	3	C	57		
GRP97315	30	0218E	0219+3	0247	S12	E82	.994	17824	5.2	29	1F			70	D		
PEKG	30	0218E	0222	0238	S12	E82	.994	17824	5.2	20D	1N		C	0222	63	D	
CULG	30	0219E	0219U	0232D	S07	E78	.982	17824	4.9	13D	1F		P	0219	80		
LEAR	30	0233E	0233U	0256	S12	E85	.998	17824	5.5	23D	-F	3	C				
316	LEAR	30	0248	0250	0301	S11	E37	.657	17817	1.9	13	-F	3	C	48		
317	LEAR	30	0249	0250	0300	S10	W76	.977	17801	24.4	11	-F	3	C	25		
GRP97318	30	0304+0	0308+0	0314	N13	E48	.738	17818	2.7	10	-B			130	2.0	E	
YUNN	30	0304	0308	0314	N17	E09	.749	17818	2.8	10	-N		C	129	2.0	E	
LEAR	30	0304	0308	0317	N17	E08	.738	17818	2.7	13	-B	3	C	156			
PEKG	30	0307E	0308	0311	N17	E08	.738	17818	2.7	4D	-B		C	0308	92	1.4	E
GRP97319	30	0330+0	0331	0405	S12	E37	.662	17817	1.9	35	-N			70	.9	E	
LEAR	30	0330	0331	0404	S12	E36	.651	17817	1.8	34	-N	3	C	83			
YUNN	30	0330E		0339D	S12	E36	.651	17817	1.8	9D	-N		P	80	1.1	F	
CULG	30	0333E	0333U	0411D	S11	E36	.645	17817	1.8	38D	-N		P	0333	60	.8	F
PALE	30	0334E	0341U	0405	S13	E38	.679	17817	2.0	31D	-F	3	C	65			
PEKG	30	0355E	0355	0355D	S14	E39	.696	17817	2.1		-N		P	0355	42	.6	E
320	LEAR	30	0405	0405	0410	N14	E48	.738	17818	2.8	5	-N	3	C	18		
321	LEAR	30	0443	0446	0451	N16	W13	.267	17809	29.2	8	-F	3	C	22		
GRP97322	30	0550+4	0558+5	0612	N16	E01	.155	17813	30.3	22	-N			100	1.0		
PEKG	30	0550	0601	0610	N16	E01	.155	17813	30.3	20	-N		C	0601	55	.6	E
LEAR	30	0554	0603	0627	N16	E02	.158	17813	30.4	33	-N	3	C	105			
CULG	30	0554	0558	0612	N17	E01	.172	17813	30.3	18	-N		C	0558	120	1.2	F
323	CULG	30	0555	0558	0607	N18	W07	.222	17812	29.7	12	-F		C	0558	40	.4
324	LEAR	30	0623	0624	0641	S12	E78	.984	17824	5.1	18	-F	3	C			
325	LEAR	30	0705	0706	0718	S14	E36	.663	17817	2.0	13	-F	3	C	21		
326	LEAR	30	0706	0707	0721	N14	E48	.738	17818	2.9	15	-F	3	C	24		
327	ISTA	30	0732		0758	N14	E02	.124	17813	30.5	26	-F					FK
GRP97328	30	0753+2	0801+4	0820	S12	E80	.990	17824	5.3	27	-N					DU	
LEAR	30	0753	0803	0820	S12	E77	.981	17824	5.1	27	-F	3	C				
YUNN	30	0755	0805	0825	S12	E83	.996	17824	5.6	30	-B		C	32		D	
ABST	30	0801E	0801	0805D	S13	E80	.990	17824	5.3	4D	1N		P	0801	105	D	
ISTA	30	0804		0817	S12	E80	.990	17824	5.3	13	-F					U	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement		Remarks
							Con Dist	Plage Region	OMP Day					Appar (Disk)	Corr (Sq Deg)	
GRP97329	30	0825+2	0827+1	0838	N14	E03	.130	17813	30.6	13	-N		70	.7		
YUNN	30	0825	0827	0834	N15	E03	.146	17813	30.6	9	-N	C	48	.5	E	
LEAR	30	0825	0828	0838	N14	E03	.130	17813	30.6	13	-F	3 C	56			
ISTA	30	0827		0839	N14	E02	.124	17813	30.5	12	-N					
ABST	30	0830E	0830	0837D	N14	E04	.137	17813	30.7	7D	-F	P 0830	87	.9	D	
GRP97330	30	0905+5	0911+4	0929	S12	E80	.990	17824	5.4	24	IN		160		ERY	
YUNN	30	0905	0911	0927	S12	E80	.990	17824	5.4	22	2N	C	193		RY	
LEAR	30	0907	0911	0939	S12	E76	.978	17824	5.1	32	IN	3 C				
ATHN	30	0910E	0915	0924	S12	E80	.990	17824	5.4	14D	1B	4 V 0915	159			
PEKG	30	0910	0915	0930	S13	E85	.998	17824	5.8	20	-N	C 0915	50		E	
331	LEAR	30	0908	0909	0919	N11	E71	.940	17820	4.7	11	-N	3 C	45		
332	KANZ	30	1000E		1012	N14	E02	.124	17813	30.6	12D	-F	3			
333	KANZ	30	1100E		1108	N16	W01	.155	17813	30.4	8D	-F	3			
GRP97334	30	1138	1142+4	1202D	N16	00	.154	17813	30.5	24	1E					
KANZ	30	1138	1142	1257	N17	W04	.184	17813	30.2	79	2B	3				
ATHN	30	1145E	1146	1202	N15	E05	.161	17813	30.9	17D	1B	4 V 1146	255	2.7		
GRP97335	30	1142	1142+5	1159	S11	E18	.431	17817	31.8	17	-F					
KANZ	30	1142	1142	1201	S11	E22	.476	17817	1.1	19	-F	3				
ATHN	30	1145E	1147	1157	S12	E15	.411	17817	31.6	12D	-N	4 V 1147	95	1.1		
336	KANZ	30	1305	1309	1313	N15	W02	.141	17813	30.4	8	-F	3			
GRP97337	30	1321	1345+3	1355D	N17	E03	.178	17813	30.8	34	IN		210	2.1	L	
KANZ	30	1321	1345	1433	N18	E02	.191	17813	30.7	72	IN	3			L	
ATHN	30	1340E	1348	1355	N15	E05	.161	17813	30.9	15D	IN	4 V 1348	191	2.1		
HOLL	30	1344E	1346U	1348D	N17	E03	.178	17813	30.8	4D	IN	3 C	227			
338	KANZ	30	1324	1335	1341	S11	E22	.476	17817	1.2	17	-N	3			
GRP97339	30	1338	1341+2	1359	S11	E78	.984	17824	5.4	21	-B					
KANZ	30	1338	1341	1405	S10	E76	.977	17824	5.3	27	-B	3				
ATHN	30	1340E	1343	1353	S12	E80	.990	17824	5.6	13D	1B	4 V 1343	127	4.2		
GRP97340	30	1443+1	1445+0	1519	N15	E44	.692	17818	2.9	36	1B		150	2.1	E	
BIGB	30	1443	1445	1519	N15	E45	.704	17818	3.0	36	1B	3 C 1445	180	2.6		
HOLL	30	1443	1445	1445D	N14	E44	.691	17818	2.9	2D	-B	3 C	143		E	
RAMY	30	1444	1445	1447D	N15	E44	.692	17818	2.9	3D	-B	3 C	135			
GRP97341	30	1453+0	1457+0	1608	N15	W03	.146	17813	30.4	75	-B				E	
RAMY	30	1443	1457	1622	N15	W01	.138	17813	30.5	99	1B	* C	396			
BIGB	30	1453	1457	1537	N15	W03	.146	17813	30.4	44	-B	* C 1457	70	.7		
HOLL	30	1453	1455	1455D	N15	W03	.146	17813	30.4	2D	-B	* C	57		E	
HOLL	30	1543	1545	1608	N15	W03	.146	17813	30.4	25	-F	* C	70			
342	RAMY	30	1507	1507	1534	N15	W20	.360	17809	29.1	27	-N	3 C	27		
343	HOLL	30	1607	1611	1624	S12	E23	.497	17817	1.4	17	-B	3 C	46		
344	HOLL	30	1622	1622	1631	S11	E73	.965	17824	5.2	9	-F	3 C			
GRP97345	30	1638+6	1646+1	1701	S26	E58	.908	17822	4.0	23	-B		70	1.6		
HOLL	30	1638	1647	1702	S26	E58	.908	17822	4.0	24	-B	* C	71			
RAMY	30	1639	1646	1701	S26	E58	.908	17822	4.0	22	-B	* C	85			
BIGB	30	1644	1646	1659	S27	E10	.923	17822	4.2	15	-N	* C 1646	60	1.2		
GRP97346	30	1638+9	1639	1747	S11	E72	.961	17824	5.1	69	-N				K	
HOLL	30	1638	1656	1758	S11	E72	.961	17824	5.1	80	-N	3 C			K	
HOLL	30	1638	1639	1758	S11	E72	.961	17824	5.1	80	-N	3 C	43		K	
BIGB	30	1655	1700	1735	S11	E77	.981	17824	5.9	40	-N	3 C 1700	50			
RAMY	30	1656E	1657	1658D	S10	E72	.960	17824	5.1	2D	IN	3 C				

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale		OMP Day	Dur (Min)	Imp	Obs Type	Area Measurement		Remarks	
							Dist	Region					Time (UT)	Appar (Disk)		Corr (Sq Deg)
GRP97347	30	1818+1	1819+1	1828	S23	E53	.865	17822	3.7	10	-N		45	.9		
HOLL	30	1818	1820	1828	S24	E53	.869	17822	3.7	10	-N	3 C	56			
RAMY	30	1819	1819	1827	S23	E53	.865	17822	3.7	8	-N	3 C	33			
GRP97348	30	1826+9	1835+0	1848	S10	E73	.965	17824	5.2	22	-N					
HOLL	30	1826	1835	1904	S10	E73	.965	17824	5.2	38	-N	* C				
PALE	30	1833	1835	1845	S09	E71	.954	17824	5.1	12	-F	* C				
BIGB	30	1834	1835	1848	S12	E78	.984	17824	5.6	14	-N	* C	1835	70		
349 HOLL	30	1827	1833	1837	S11	W77	.981	17801	25.0	10	-N	3 C				
GRP97350	30	1849+1	1851+0	1940	N16	W05	.176	17813	30.4	51	1B				F	
BIGB	30	1849	1851	1956	N16	W05	.176	17813	30.4	67	1B	3 C	1851	240	2.5	
RAMY	30	1849	1851	1937	N17	W05	.191	17813	30.4	48	2B	3 C		577		
PALE	30	1850	1851	1928	N16	W05	.176	17813	30.4	38	1B	3 C		265		
HOLL	30	1853E	1853U	1942	N16	W03	.162	17813	30.6	49D	2B	3 C		525		
351 HOLL	30	1917	1923	1929	S11	W77	.981	17801	25.0	12	-N	3 C				
GRP97352	30	1943+1	1948+2	2018	S11	E73	.965	17824	5.3	35	-F					
HOLL	30	1915	1950	2039	S11	E73	.965	17824	5.3	84	1N	* C				
RAMY	30	1943	1956	2008	S11	E73	.965	17824	5.3	25	-N	* C				
PALE	30	1944E	1948U	2019D	S09	E71	.954	17824	5.1	35D	-F	* C				
BIGB	30	1944	1949	2016	S11	E75	.974	17824	5.4	32	-F	* C	1949	70		
353 HOLL	30	2054	2056	2120	S11	W74	.970	17801	25.3	26	-N	3 C		21		
GRP97354	30	2152+9	2209+0	2217D	S10	W84	.997	17801	24.6	25	-N				DH	
HOLL	30	2152	2209	2311	S11	W79	.987	17801	25.0	79	-N	3 C				
VORO	30	2201	2209	2217	S10	W90	1.000	17801	24.2	16	1N	C	2209	90	DH	
355 VORO	30	2212	2213	2226D	N16	W04	.168	17813	30.6	14D	-F	P	2213	125	EJ	
GRP97356	30	2311+5	2312+1	2353	N16	W06	.184	17813	30.5	42	-N			130	1.3	FIK
CULG	30	2311	2312	2327	N15	W04	.153	17813	30.7	15	-F	C	2312	90	.9	
HOLL	30	2312	2329	0022	N15	W03	.146	17813	30.7	70	1B	3 C		203		
BIGB	30	2312	2330	0011	N17	W07	.208	17813	30.4	59	-N	3 C	2330	70	.7	
HOLL	30	2312	2313	0022	N15	W03	.146	17813	30.7	70	-N	3 C		59		
PALE	30	2315	2330U	2354	N16	W08	.205	17813	30.4	39	-N	3 C		116		
CULG	30	2316	2328	2333D	N16	W11	.241	17813	30.1	17D	-B	P	2328	150	1.5	
357 HOLL	30	2348	2349	0006	S10	E37	.651	17817	2.8	18	-F	3 C		38		
GRP97358	30	2358+6	0008+5	0030	S09	E69	.943	17824	5.2	32	1F				F	
CULG	31	0001	0013	0030	S09	E67	.932	17824	5.0	29	1F	P	0013	90	2.4	
PALE	31	0004	0021	0028	S08	E70	.948	17824	5.3	24	-F	3 C				
VORO	31	0022E		0030	S11	E69	.946	17824	5.2	8D	-N	P	0023	90		
HOLL	30	2358	2408	0035D	S10	E69	.944	17824	5.2	37D	1N	3 C				
GRP97359	31	0048+2	0050+0	0053	S22	E50	.839	17822	3.8	5	-F			70	1.2	
VORO	31	0048	0050	0053	S23	E50	.843	17822	3.8	5	-F	C	0050	99	1.8	
PALE	31	0050	0050	0052	S22	E50	.839	17822	3.8	2	-F	3 C		54		
GRP97360	31	0104+0	0107+6	0124	S10	W84	.997	17801	24.7	20	1N			70		
VORO	31	0104	0108	0125	S10	W90	1.000	17801	24.3	21	1N	C	0108	90	DH	
CULG	31	0104	0107	0122	S09	W80	.989	17801	25.0	18	1N	P	0107	60		
PALE	31	0105E	0113U	0122D	S11	W84	.997	17801	24.7	17D	-N	3 C				
361 CULG	31	0119	0127	0140	N27	W41	.690	17807	28.0	21	-F	C	0127	80	1.1	
362 CULG	31	0226	0230	0245D	N15	W10	.217	17813	30.4	10D	-F	P	0230	110	1.1	
363 CULG	31	0324	0327	0359	N16	W30	.510	17809	28.9	35	-F	C	0327	50	.6	
364 ISTA	31	0635		0646	S08	W90	1.000	17801	24.5	11	-F				A	
365 ISTA	31	0705		0711	S11	E64	.915	17824	5.1	6	-F				E	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale		OMP Day	Dur (Min)	Imp	Obs Type	Area Measurement			Remarks		
							Gen Dist	Plage Region					Time (UT)	Appar (Disk)	Corr (Sq Deg)			
366	ISTA	31	0707	0712	N14	E32	.532	17818	2.7	5	-F					E		
GRP97367	31	0721+3	0725+3	0747	S11	E65	.922	17824	5.2	26	1B					F		
ABST	31	0721	0726	07360	S12	E66	.930	17824	5.3	150	1N	P	0736	183		F		
WEND	31	0723	0727	0746	S12	E65	.923	17824	5.2	23	-N	C	0727	75				
LEAR	31	0723	0727	0748	S12	E65	.923	17824	5.2	25	1B	3	C	122		FE		
MITK	31	0723	0725	0743	S11	E66	.928	17824	5.3	20	1N	C	0725	100		E		
KANZ	31	0724	0728	0748	S10	E66	.927	17824	5.3	24	-B	2						
ATHN	31	0724	0728	0748	S12	E65	.923	17824	5.2	24	2B	2	V	0728	271	7.1		
ISTA	31	0724		0748	S13	E65	.925	17824	5.2	24	2B						F	
BUCA	31	0724	0727	0745	S09	E65	.905	17824	5.0	190	1N	C	0727	215	5.4	C		
MONT	31	0730	0730	0744	S11	E66	.928	17824	5.3	140	1B	C	0730	220				
GRP97368	31	0845+2	0852+1	0920	S11	E67	.934	17824	5.4	35	-B							
KANZ	31	0845	0853	0921	S11	E70	.951	17824	5.6	36	-N	3						
ATHN	31	0847	0852	0919	S12	E65	.923	17824	5.2	32	1B	2	V	0852	143	3.8		
GRP97369	31	0924+5	0929+0	0939	N06	E63	.887	17823	5.1	15	-F							
LEAR	31	0924	0929	09430	N06	E63	.887	17823	5.1	190	1F	3	C	136				
WEND	31	0927	0929	0939	N05	E64	.896	17823	5.2	12	-F	C	0929	50	1.2			
KANZ	31	0929	0929	0936	N08	E63	.886	17823	5.1	7	-N	3						
370	WEND	31	1023	1032	1050	N17	W29	.499	17809	29.3	27	-F	C	1032	75	.9		
371	RAMY	31	1108	1308	1348	N07	E61	.870	17823	5.0	160	-F	3	C	109			
372	RAMY	31	1115	1145	1327	S07	W59	.871	17808	27.0	132	-F	3	C	20			
373	HOLL	31	1442	1443	1458	S06	W60	.877	17808	27.1	16	-F	3	C	16			
374	RAMY	31	1523	1539	1547	S10	W82	.993	17805	25.5	24	-N	3	C				
GRP97375	31	1530+3	1536+2	1555	N20	W11	.287	17813	30.8	25	-F			45	.5			
BIGB	31	1530	1538	1601	N20	W10	.277	17813	30.9	31	-F	3	C	1538	60	.6		
HOLL	31	1533	1536	1549	N20	W12	.298	17813	30.7	16	-F	3	C	30				
GRP97376	31	1621+1	1629+0	1640	N16	W16	.309	17813	30.5	19	-N			45	.5	F		
RAMY	31	1621	1629	1640	N16	W17	.323	17813	30.4	19	-N	3	C	39				
HOLL	31	1622	1629	1639	N17	W16	.317	17813	30.5	17	-N	3	C	50		F		
GRP97377	31	1744+4	1750+2	1835	N17	W34	.568	17809	29.2	51	1N			210	2.6	F		
RAMY	31	1744	1750	1857	N17	W36	.594	17809	29.0	73	1B	3	C	279				
PALE	31	1748	1750	1821	N16	W32	.538	17809	29.3	33	-N	3	C	140		F		
BIGB	31	1748	1752	1829	N18	W33	.558	17809	29.3	41	-B	3	C	1752	150	1.8		
HOLL	31	1749E	1751U	1841	N19	W37	.613	17809	29.0	520	1N	2	C	267		F		
GRP97378	31	1805+7	1811+4	1851	S10	E59	.876	17824	5.2	46	1N			130	2.6	F		
BIGB	31	1805	1815	1856	S10	E60	.884	17824	5.3	51	-N	3	C	1815	100	2.0		
HOLL	31	1805	1812	1849	S10	E59	.876	17824	5.2	44	1B	3	C	143		F		
PALE	31	1807	1811	1833	S09	E59	.874	17824	5.2	26	-N	3	C	115		F		
RAMY	31	1812	1815	1853	S10	E63	.907	17824	5.5	41	1N	3	C	180				
379	PALE	31	1838	1855	1903	S14	E18	.465	17817	2.1	25	-F	3	C	25			
GRP97380	31	1929+0	1931+3	1937	S10	E02	.297	17817	1.0	8	-F			25	.3			
PALE	31	1929	1931	1935	S11	E02	.314	17817	1.0	6	-F	3	C	25				
RAMY	31	1929	1934	1938	S10	E03	.300	17817	1.0	9	-F	3	C	21				
381	BIGB	31	2031	2043	2152	N16	W35	.579	17809	29.2	81	-N	3	C	2043	160	2.0	
GRP97382	31	2224	2236	2259	N19	W14	.310	17813	30.9	35	-N							
BIGB	31	2224	2236	2307	N20	W14	.320	17813	30.9	43	-N	3	C	2236	80	.8		
HOLL	31	2237E		2250	N19	W15	.322	17813	30.8	130	-N	3	C	39				

H - ALPHA SOLAR FLARES

83  
Aug 81

AUGUST 1981

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CND	Hale		Dur (Min)	Obs Imp	Type	Area Measurement			Remarks	
							Plage	Region				Time (UT)	Appar (Disk)	Corr (Sq Deg)		
GRP97	33	31 2312	2313	0022	N15	W03	.145		31.7	70	?B				FK	
HOLL	31	2312	2329	0022	N15	W03	.145		31.7	70	?B	3	C	203	FK	
HOLL	31	2312	2313	0022	N15	W03	.145		31.7	70	-N	3	C	59	K	
384	CULG	31 2316	2316	2328	S17	E11	.446	17817	1.8	12	-F		C	2316	50	.5
385	HOLL	31 2347	2351	0004	S11	W74	.970	17805	26.4	17	-F	3	C		17	

"Remarks":

- |  |   |
|--|---|
| <p>A = Eruptive prominence whose base is less than 90° from central meridian.<br/>                 B = Probably the end of a more important flare.<br/>                 C = Invisible 10 minutes before.<br/>                 D = Brilliant point.<br/>                 E = Two or more brilliant points.<br/>                 F = Several eruptive centers.<br/>                 G = No visible spots in the neighborhood.<br/>                 H = Flare accompanied by high-speed dark filament.<br/>                 I = Active region very extended.<br/>                 J = Distinct variations of plage intensity before or after the flare.<br/>                 K = Several intensity maxima.<br/>                 L = Existing filaments show signs of sudden activity.<br/>                 M = White-light flare.<br/>                 N = Continuous spectrum shows effects of polarization.</p> | <p>O = Observations have been made in the H and K lines of Ca II.<br/>                 P = Flare shows helium D3 in emission.<br/>                 Q = Flare shows Balmer continuum in emission.<br/>                 R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.<br/>                 S = Brightness follows disappearance of filament in same position.<br/>                 T = Region active all day.<br/>                 U = Two bright branches, parallel or converging.<br/>                 V = Occurrence of an explosive phase: important, expansion within roughly 1 minute that often includes a significant intensity increase.<br/>                 W = Great increase in area after time of maximum intensity.<br/>                 X = Unusually wide H-alpha line.<br/>                 Y = System of loop-type prominences.<br/>                 Z = Major sunspot umbra covered by flare.</p> |
|--|---|

DAILY FLARE INDICES  
(Includes all Flares)

August+ 1981

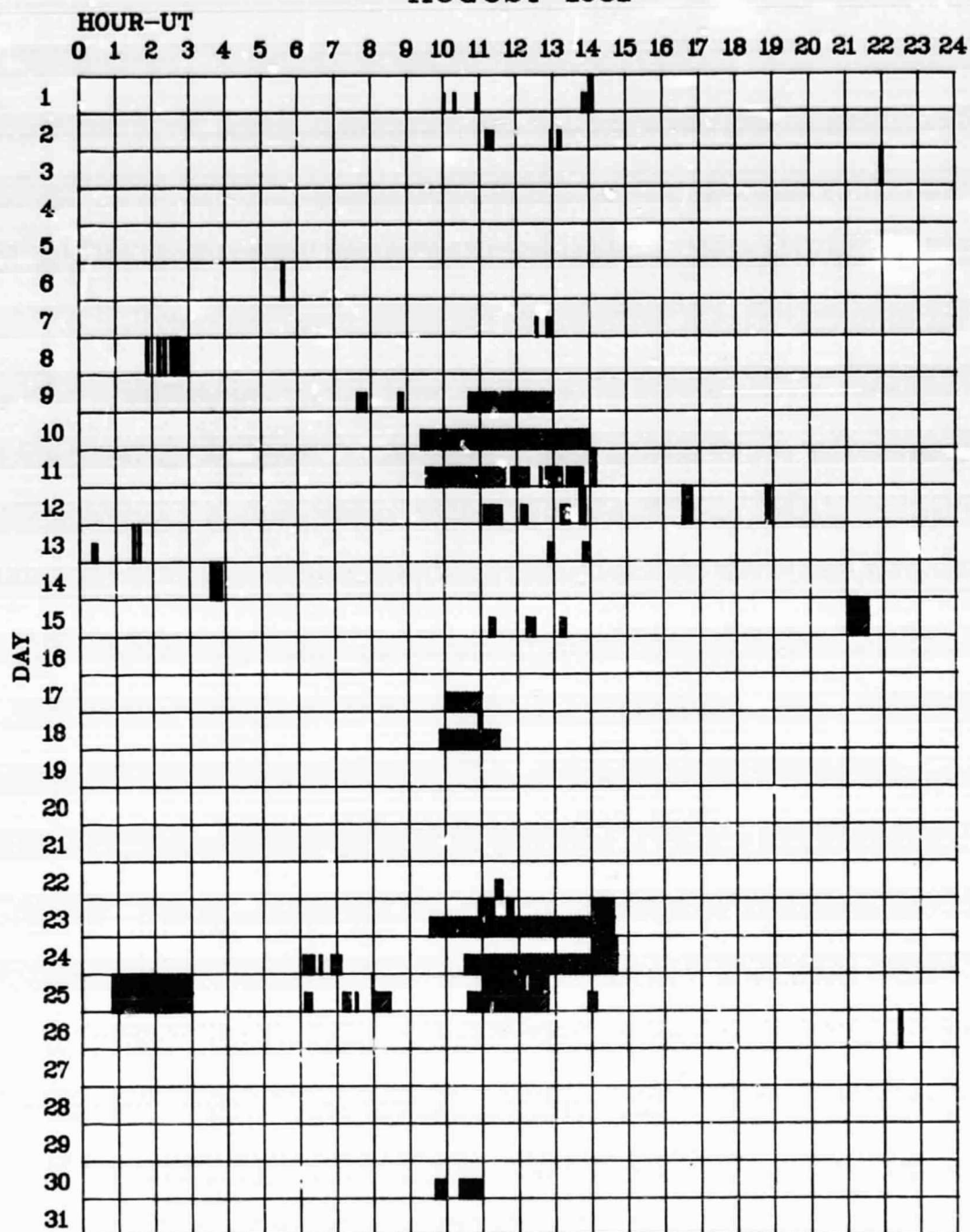
Day	Flare Index*	Hours Observed	Day	Flare Index*	Hours Observed	Day	Flare Index*	Hours Observed
01	118.54	23.9	11	738.68	23.9	21	298.05	24.0
02	56.26	24.0	12	207.47	23.9	22	135.93	24.0
03	69.30	23.9	13	136.43	23.9	23	108.74	22.8
04	73.07	24.0	14	138.38	23.7	24	152.16	23.3
05	54.15	24.0	15	40.56	23.4	25	178.18	20.2
06	150.90	23.9	16	51.51	24.0	26	312.50	23.9
07	95.90	24.0	17	86.03	24.0	27	504.98	24.0
08	58.06	23.4	18	127.66	23.9	28	232.91	24.0
09	80.86	24.0	19	124.34	24.0	29	160.04	24.0
10	130.78	24.0	20	266.86	24.0	30	294.09	24.0
						31	89.66	24.0

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



# INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

AUGUST 1981



Times of no flare patrol, shown here as shaded areas, combine reports from those observatories listed below. Shaded bottom half of panel for each day marks time of no cinematographic patrol; shaded top half of panel marks time of neither visual nor cinematographic patrol.

- |            |                |             |             |             |
|------------|----------------|-------------|-------------|-------------|
| Abastumani | Georgiana      | Kanzelhoehe | Mitaka      | Ramey       |
| Athens     | Haute Provence | Kharkov     | Monte Mario | Tashkent    |
| Big Bear   | Holloman       | Kodaikanal  | Palehua     | Upice       |
| Bucharest  | Huancayo       | Learmonth   | Peking      | Voroshilov  |
| Culgoora   | Istanbul       | Manila      | Purple Mt.  | Wendelstein |
|            |                |             |             | Yunnan      |

C O N T E N T S

Comprehensive Reports

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October 1983

CARTE SYNOPTIQUE

ACTIVE REGIONS  
CARRINGTON ROTATION 1744

(8 January to 5 February 1984)

Region No.	Coordinates		Imp	Age at	Spotless Region	Region No. in Rotation 1743	Activity at West Limb
	Lat.	Long.		OMP (Days)			
1	7°S	358	1	+1	x		dispersed
2	6°S	347	1	>6	x		disappeared
3	3°N	345	1	>6	x		dispersed
4	3°S	339	1	>6	x		dispersed
5	0°	333	1	>6	x	1	dispersed
6	4°S	318	3	>6			decreasing
7	17°S	309	1	>6	x		disappeared
8	23°N	288	1	+3	x		disappeared
9	23°N	283	1	+2	x		disappeared
10	17°S	282	1	>6	x	3	dispersed
11	11°S	278	1	>6	x		dispersed
12	15°S	268	3	>6			decreasing
13	15°S	256	5	>6			decreasing
14	14°N	246	1	-5	x		stable
15	5°S	189	4	+1			decreasing
16	3°S	180	3	>6			decreasing
17	17°S	170	2	>6			decreasing
18	6°N	156	1	-1	x		decreasing
19	16°N	131	1	>6	x		stable
20	17°N	116	4	>6			decreasing
21	15°N	109	9	>6			stable
22	19°S	87	1	-2	x		disappeared
23	12°N	85	7	>6			stable
24	14°N	65	2	>6			decreasing
25	12°S	65	1	>6	x		disappeared
26	21°N	52	1	+5	x		disappeared
27	14°S	50	1	+5	x		disappeared
28	15°S	44	1	+1	x		disappeared
29	16°S	20	1	>6	x	15+16	dispersed
30	9°S	18	1	>6	x	14	dispersed

CARTE SYNOPTIQUE

ACTIVE REGIONS  
CARRINGTON ROTATION 1745

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Misc  
Feb 84

(5 February to 3 March 1984)

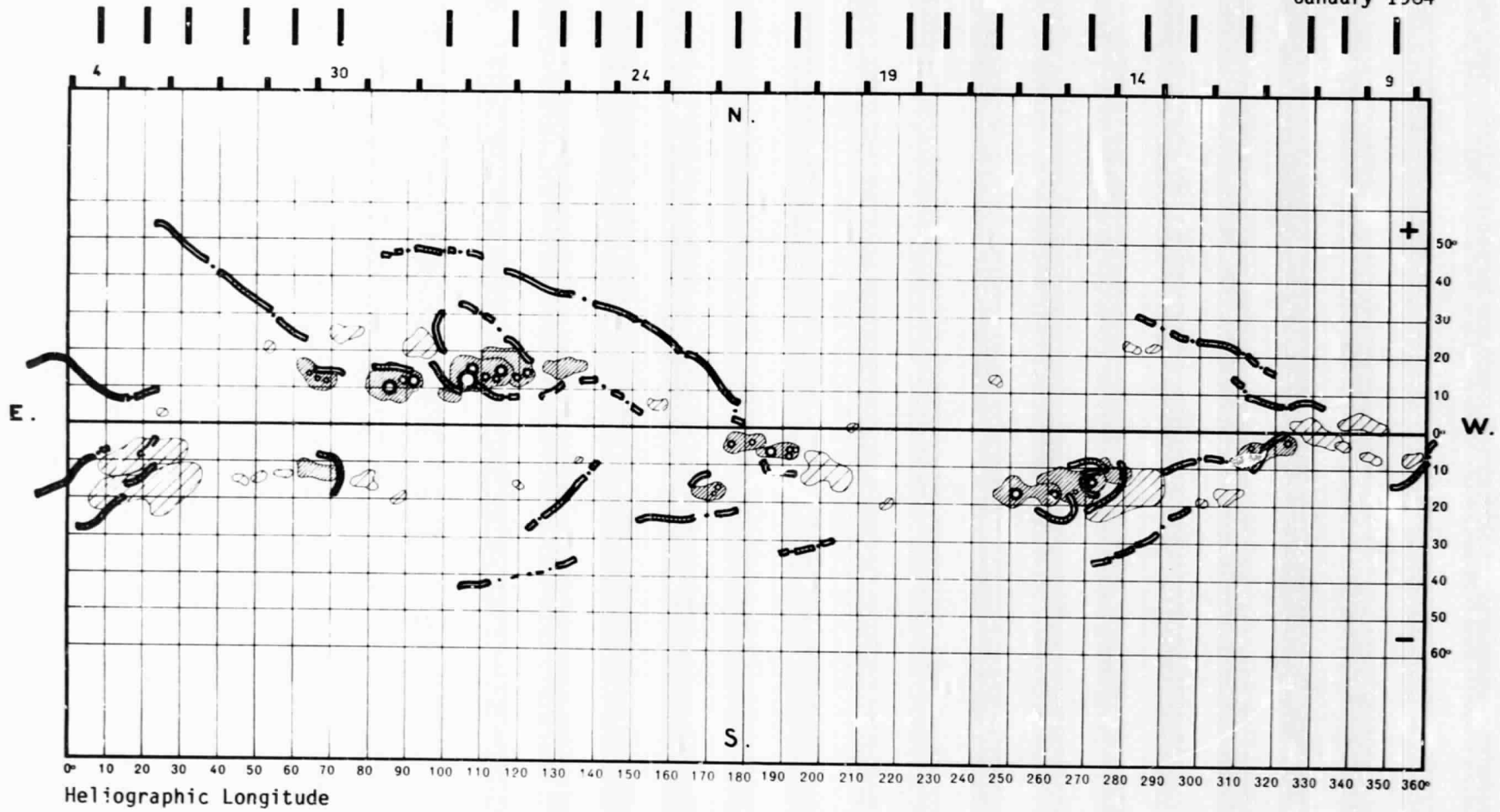
Region No.	Coordinates Lat. Long.	Age at OMP (Days)	Spotless Region	Region No. in Rotation 1744	Activity at West Limb
1	12°S 341	3	-3		stable
2	12°S 338	3	>6		decreasing
3	5°S 335	1	>6	x	disappeared
4	16°S 329	1	>6	x	decreasing
5	14°S 319	2	-2		stable
6	10°N 306	3	+5		decreasing
7	13°S 304	1	>6	x	dispersed
8	3°N 298	1	+2	x	dispersed
9	10°S 297	5	>6		decreasing
10	14°S 284	1	>6	x	10 dispersed
11	8°S 275	2	>6		decreasing
12	17°S 267	1	>6	x	12 dispersed
13	11°S 266	4	+4		decreasing
14	14°N 257	2	+5		decreasing
15	15°S 257	3	>6		13 decreasing
16	19°S 245	1	>6	x	disappeared
17	15°N 234	1	>6	x	disappeared
18	14°N 221	1	0	x	disappeared
19	5°S 200	1	>6	x	15 dispersed
20	5°S 200	2	+3		stable
21	5°S 181	1	>6	x	16 decreasing
22	4°N 166				
23	22°S 156	1	>6	x	decreasing
24	8°S 154	2	+4		stable
25	15°N 112	8	>6	x	20+21 decreasing
26	7°N 95	1	>6	x	dispersed
27	11°N 95	2	-5		
28	8°N 87	2	-5		stable
29	19°N 89	1	>6	x	decreasing
30	10°N 87	6	>6		decreasing
31	12°S 73	2	-1		decreasing
32	15°N 68	1	>6	x	24 dispersed
33	15°S 54	1	>6	x	dispersed
34	10°S 50	3	>6		decreasing
35	13°S 48	4	>6		decreasing
36	25°N 44	1	>6	x	disappeared

# CARTE SYNOPTIQUE

CARRINGTON ROTATION NUMBER 1744  
(January 8 to February 5, 1984)

Meudon Observatory

January 1984

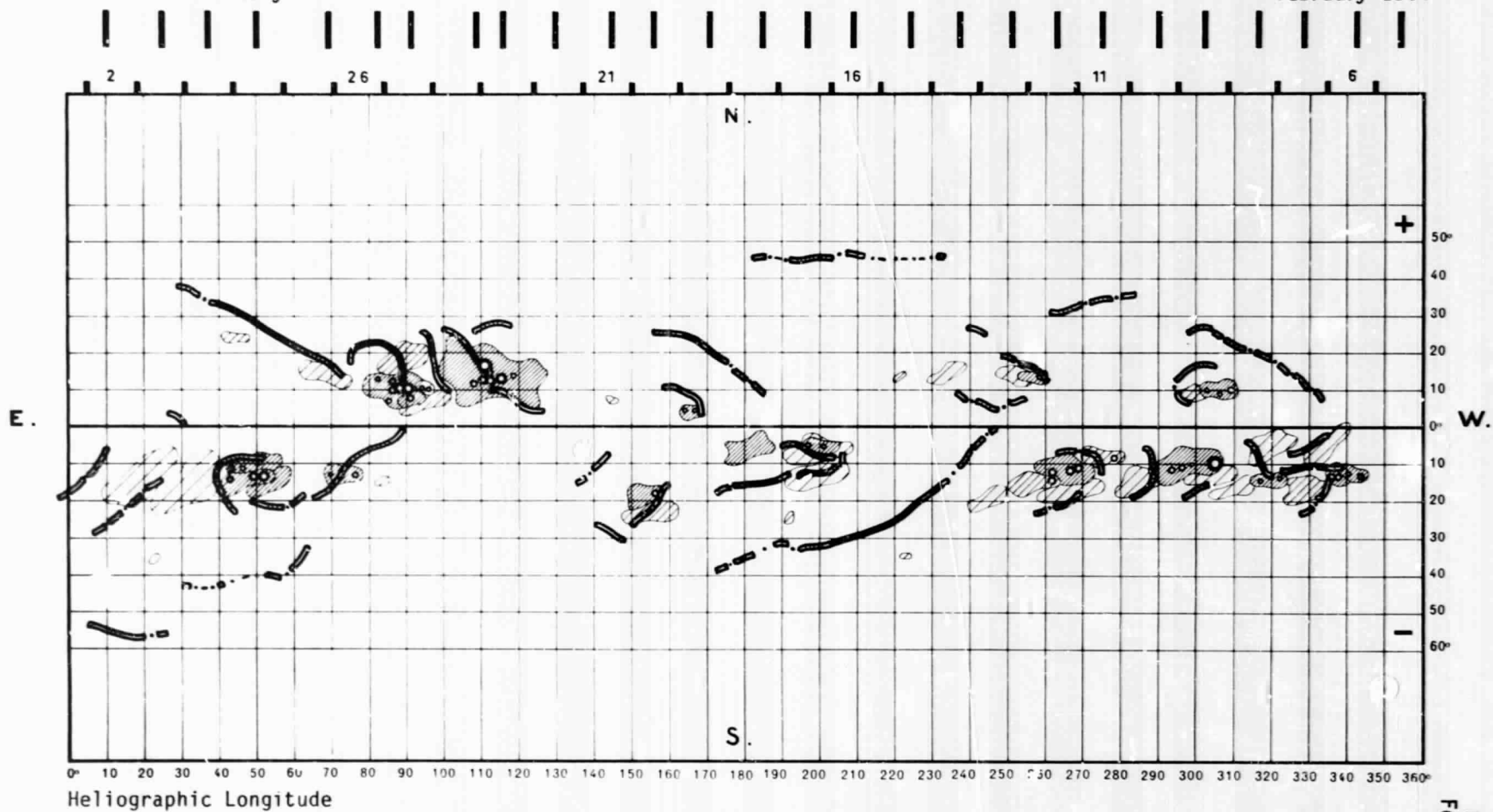


CARTE SYNOPTIQUE

CARRINGTON ROTATION NUMBER 1745  
(February 5 to March 3, 1984)

Meudon Observatory

February 1984

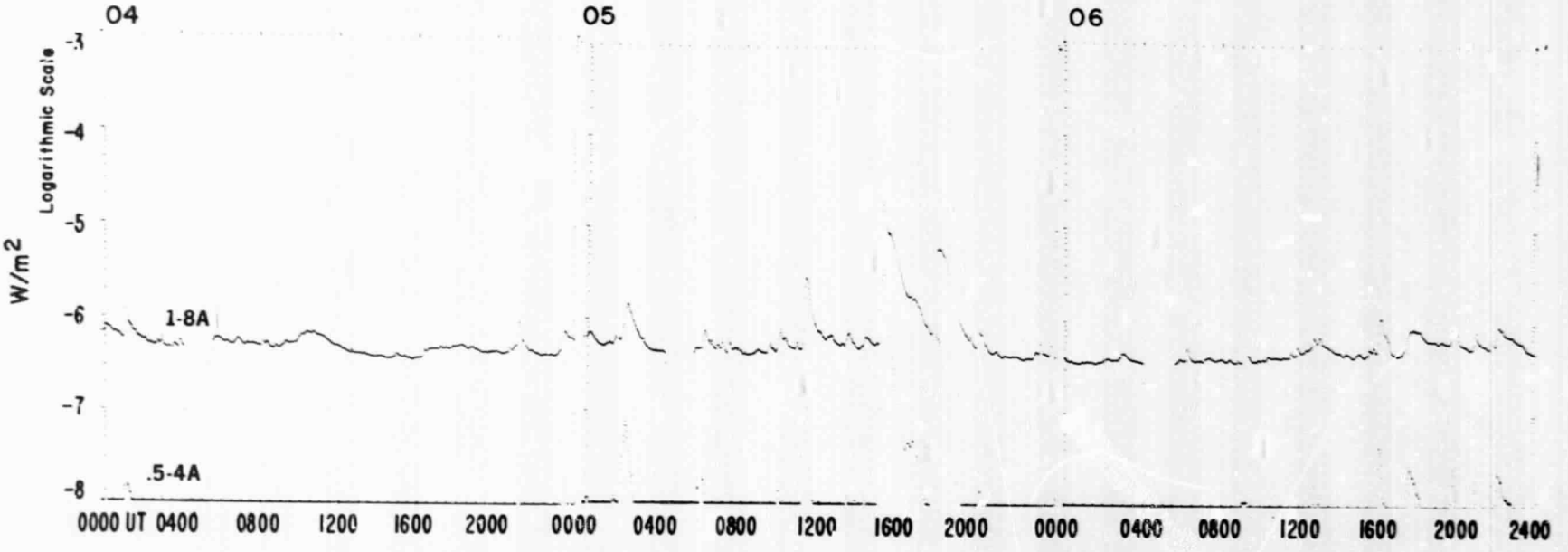
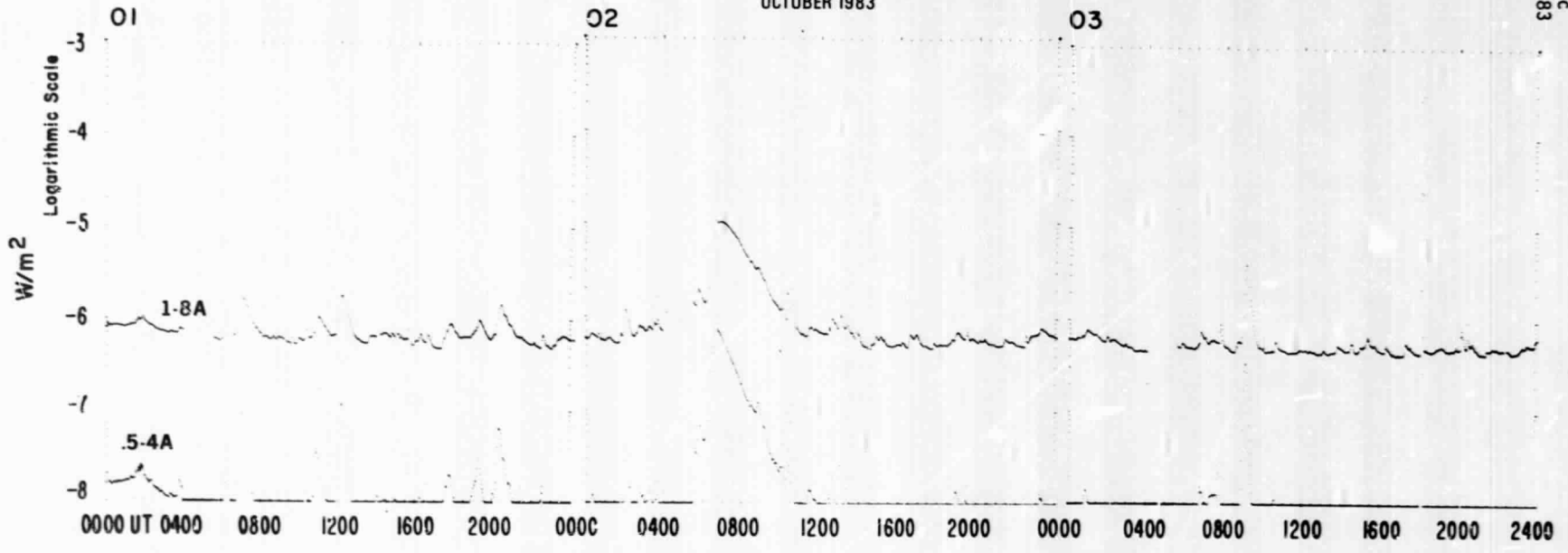


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# SMS - GOES X-RAYS

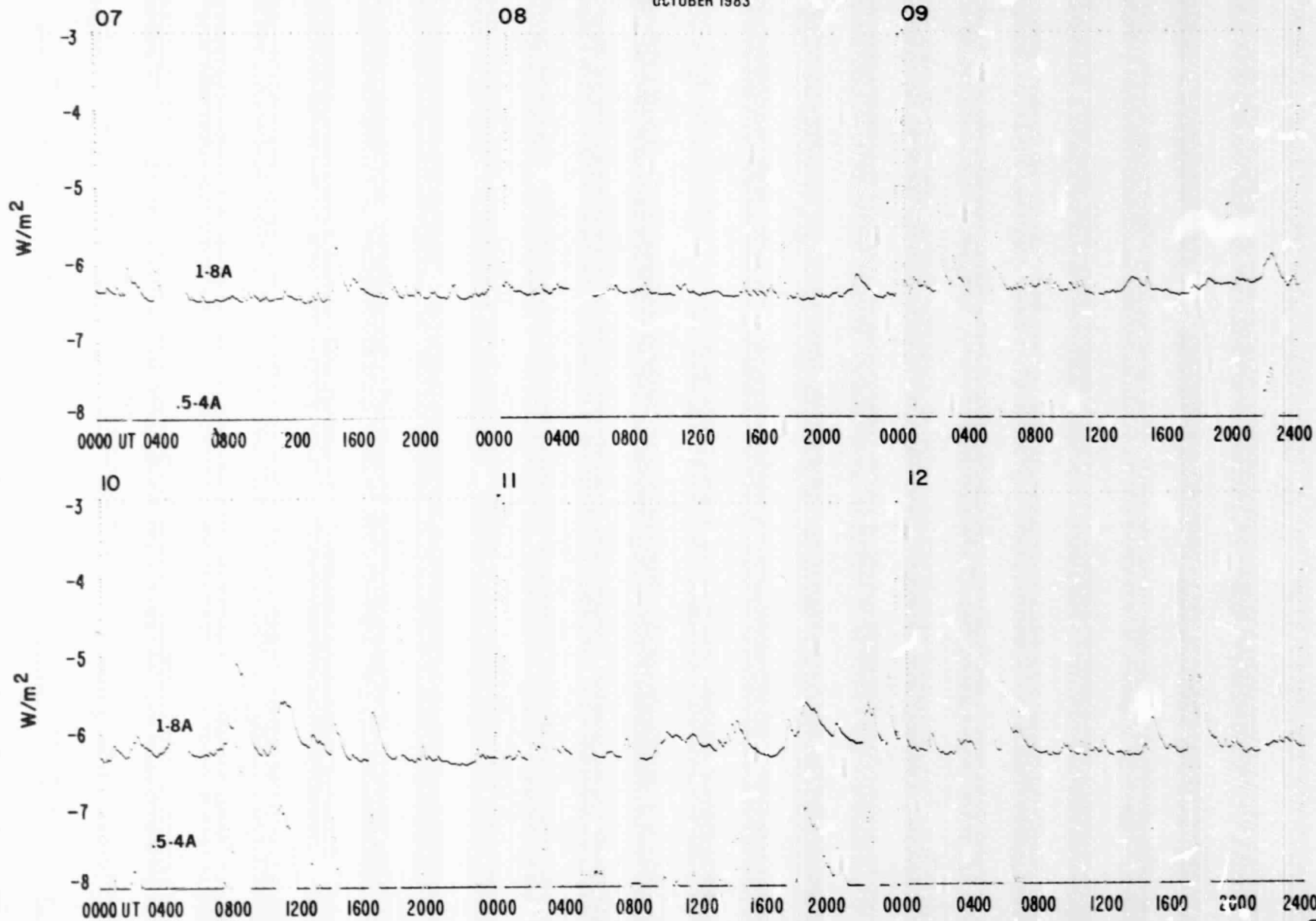
OCTOBER 1983

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Oct 83



# SMS - GOES X-RAYS

OCTOBER 1983

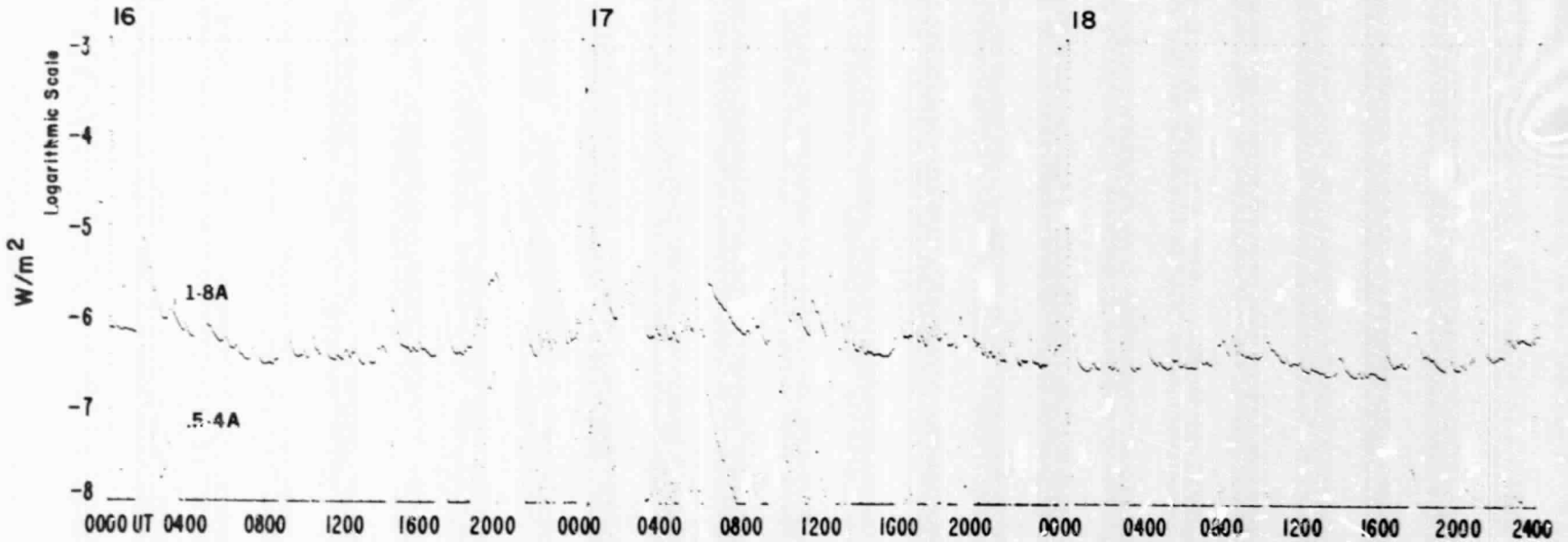
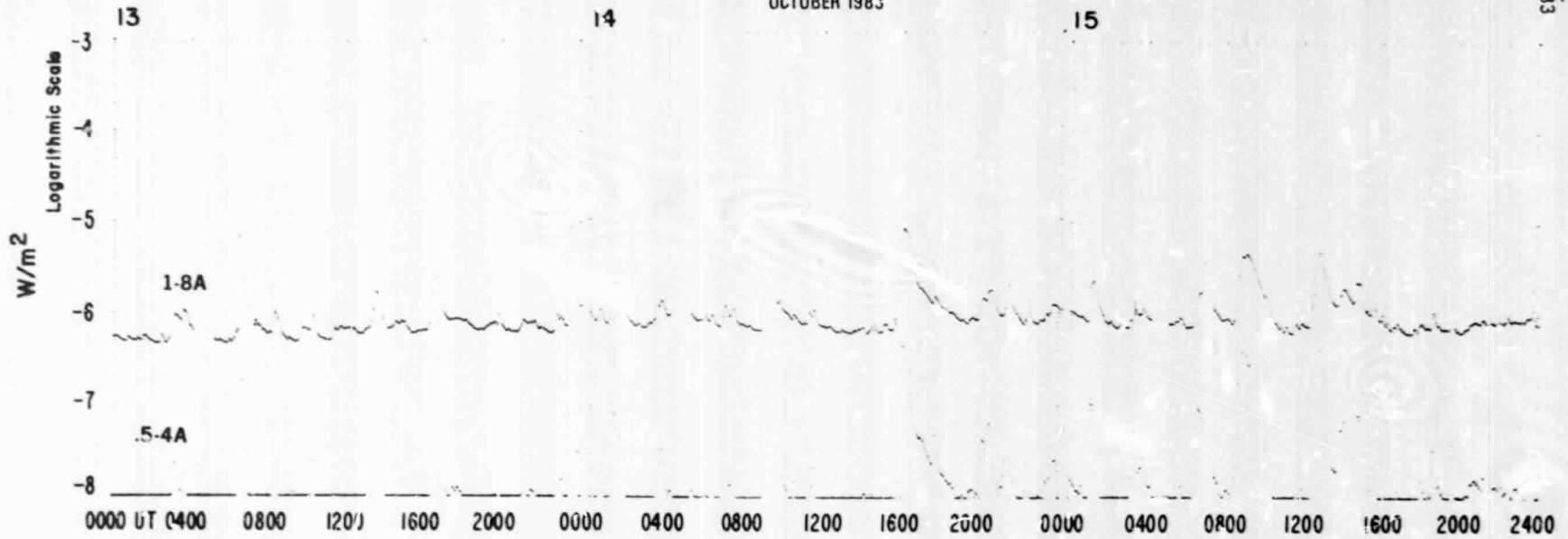




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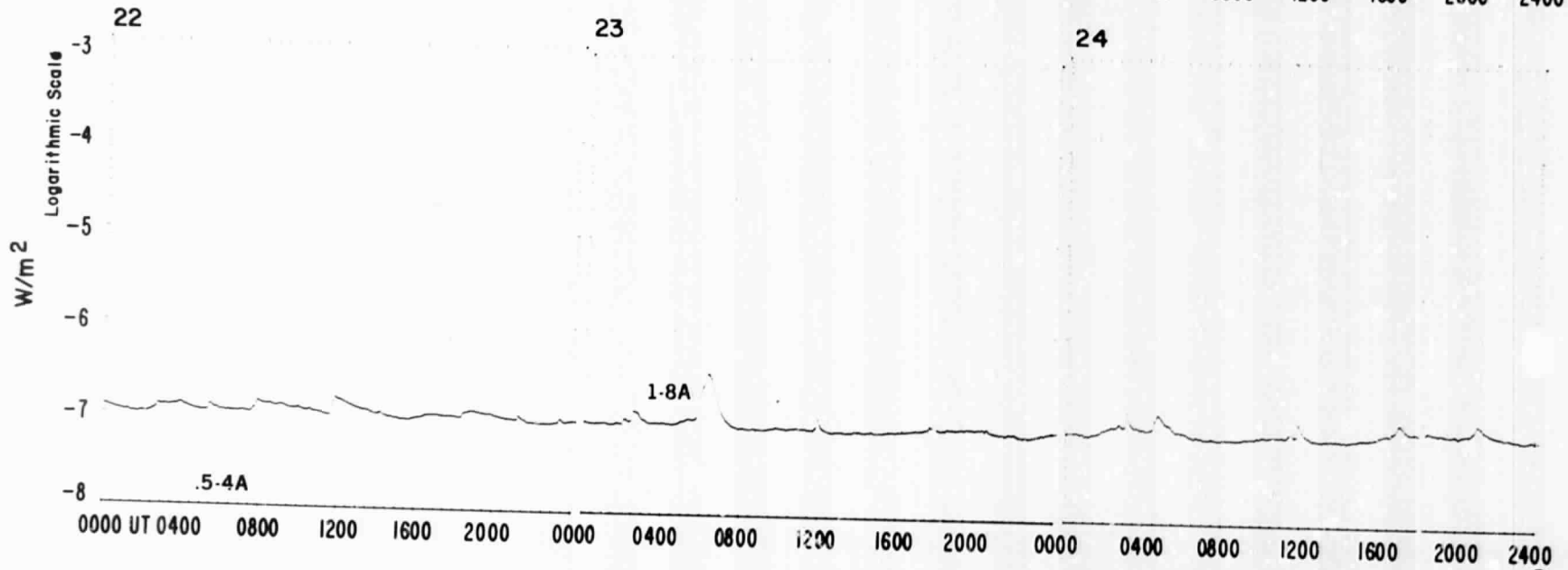
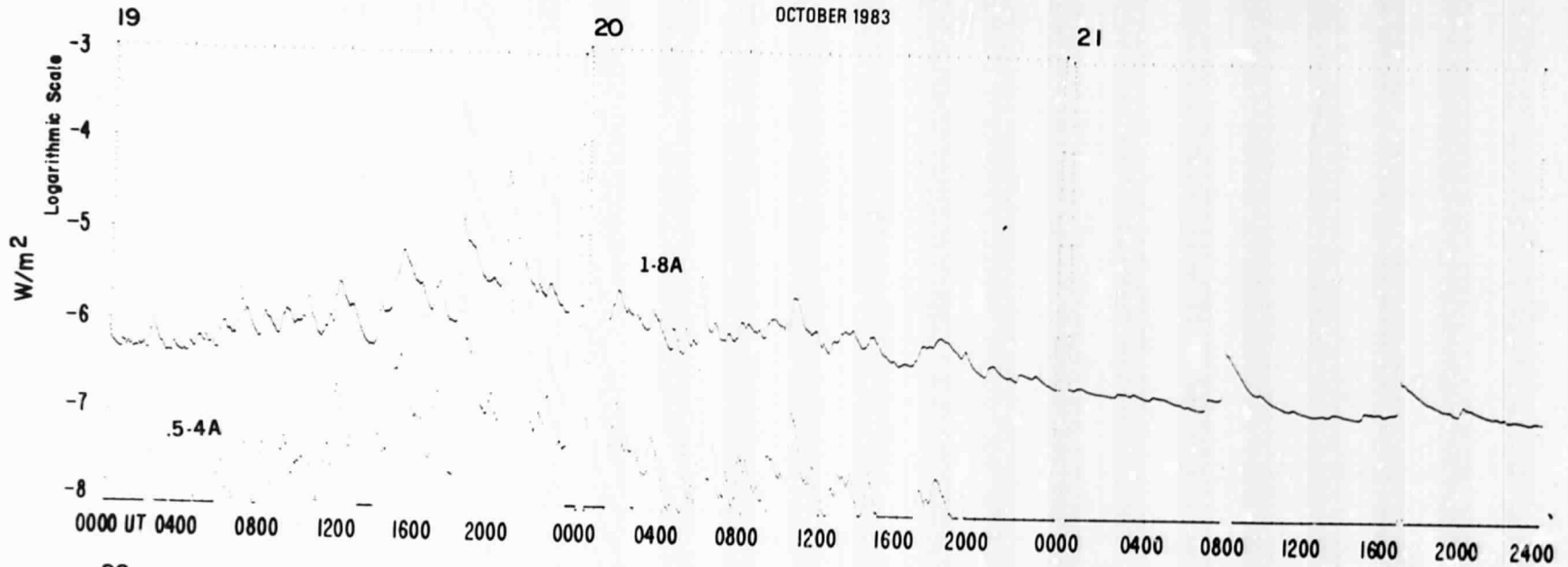
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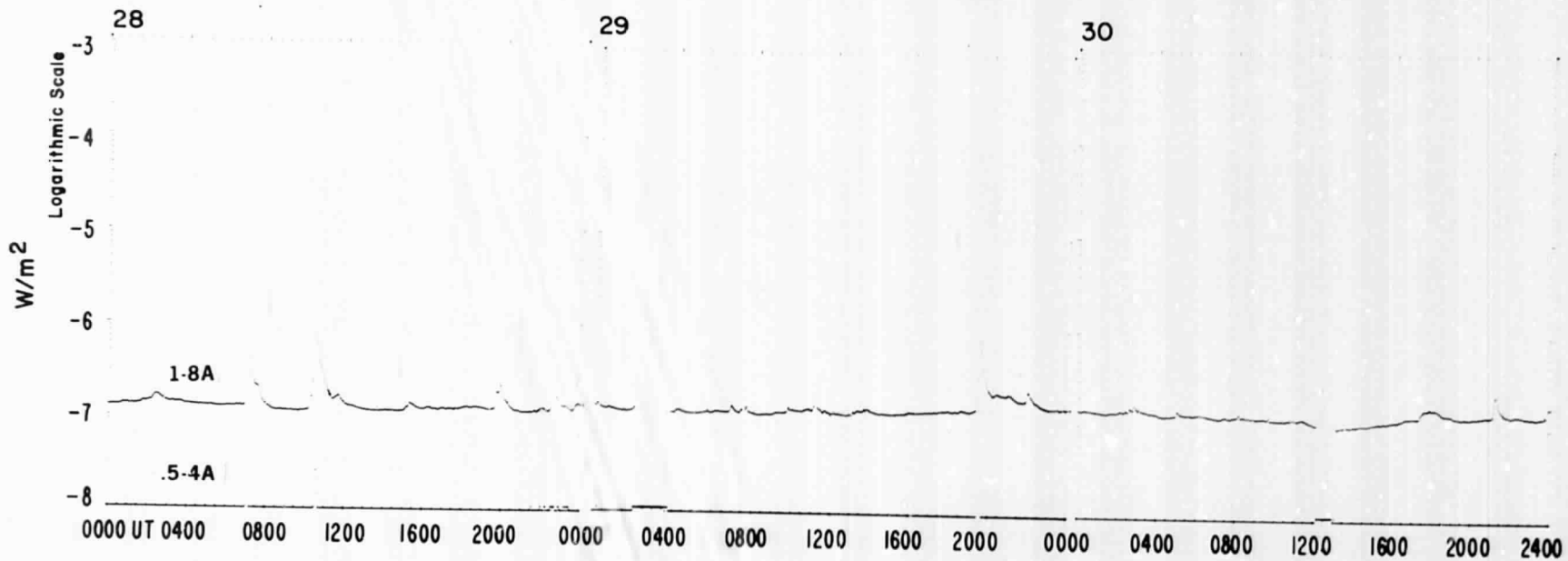
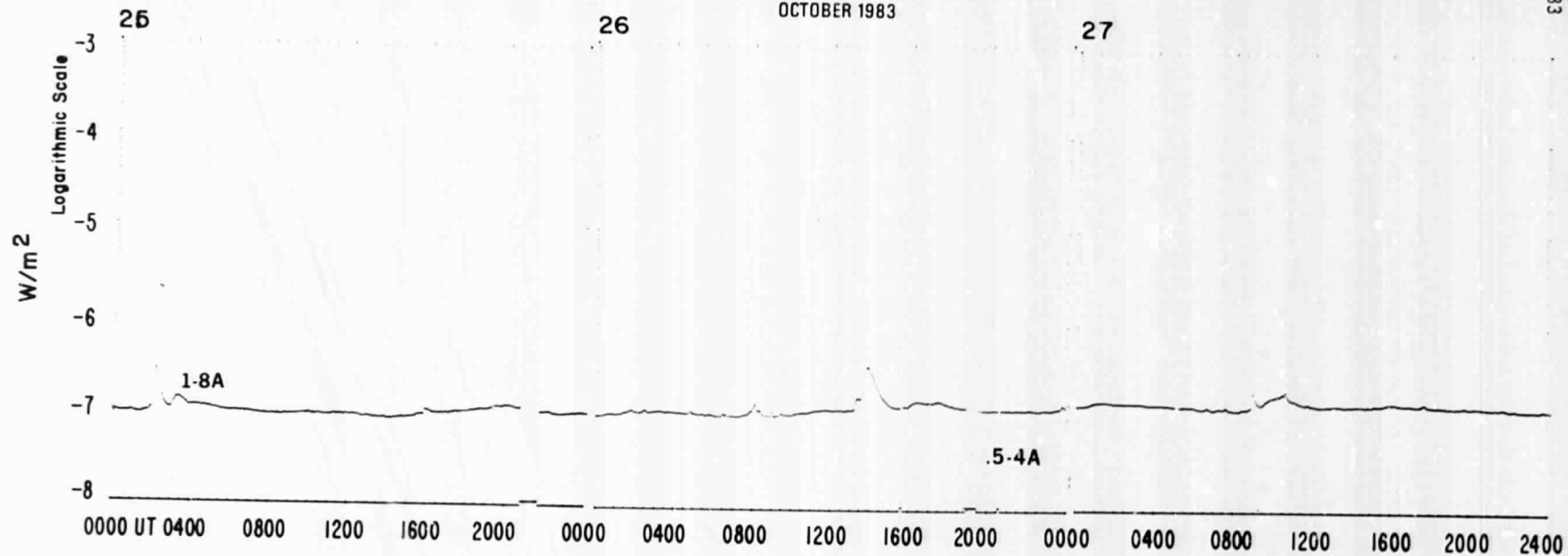
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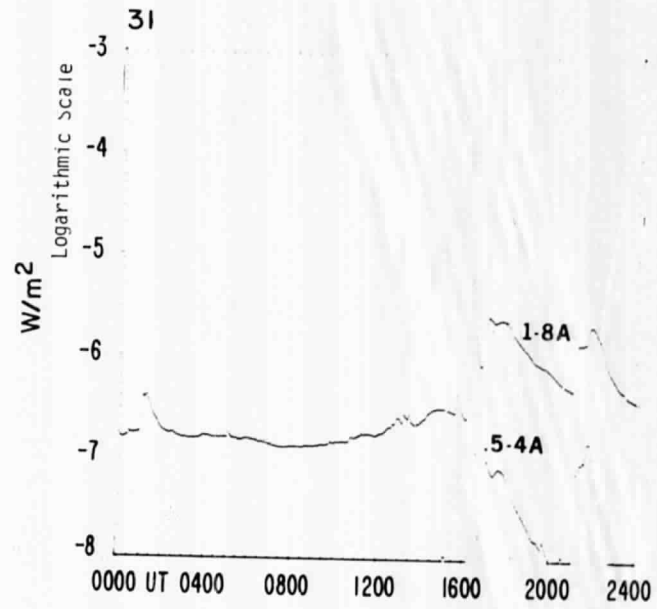
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Misc  
Oct 83



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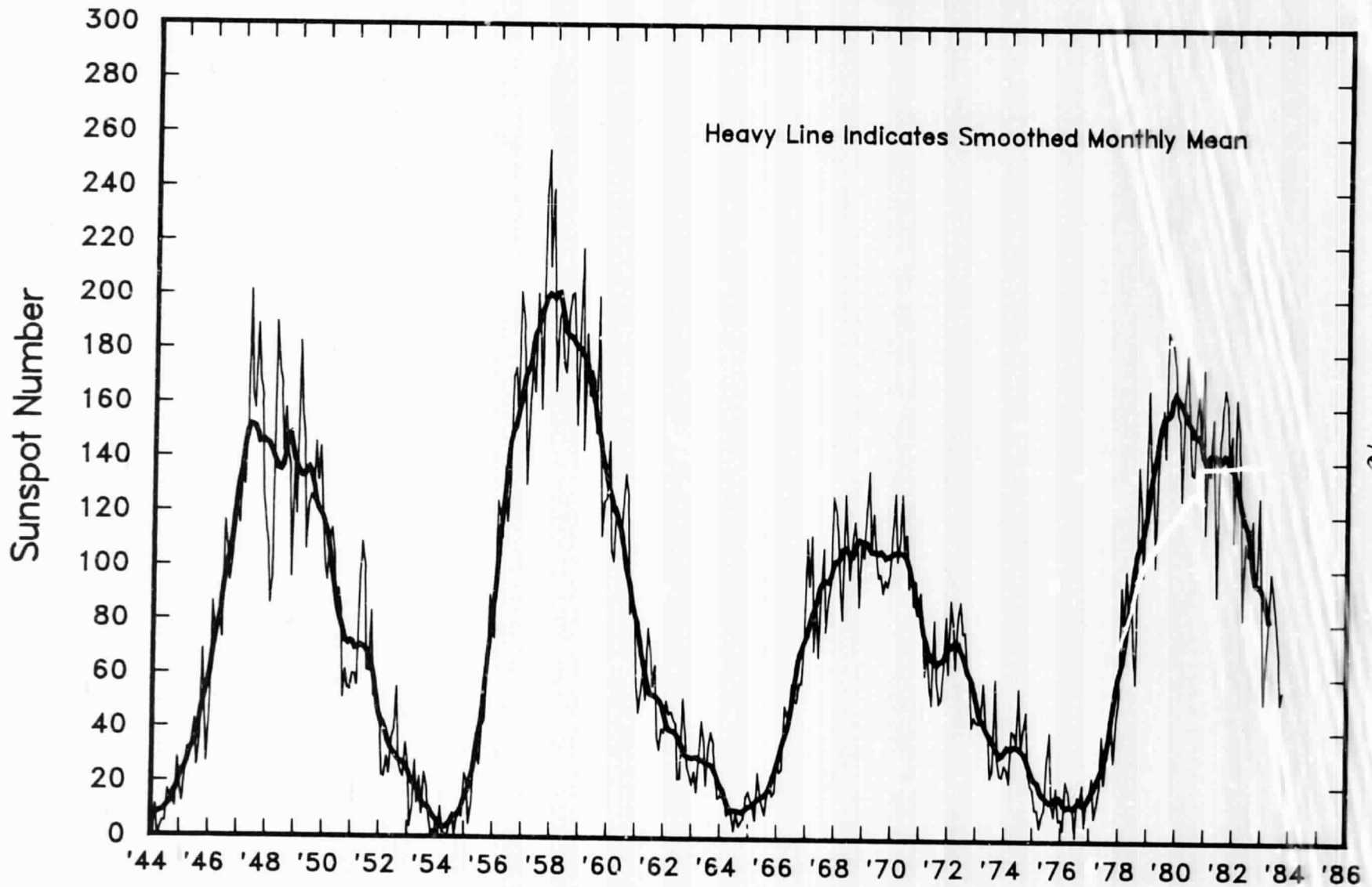
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