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

NUMBER 495

(Issued in Two Parts)

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CARTE SYNOPTIQUE

ACTIVE REGIONS
CARRINGTON ROTATION 1761

(16 April to 13 May 1985)

Region Coordinates			Age at		Spotless Region	Region No. in Rotation 1760	Activity at West Limb
No.	Lat.	Long.	Imp	CMP (Days)			

C A R T E S Y N O P T I Q U E

CARRINGTON ROTATION NUMBER 1761
(April 16 to May 13, 1985)

Meudon Observatory

April 1985

Heliographic Longitude

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

MAY 1985

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
01	100	GORK	44 NS	0303.0E		547.0D		5.0		
	3750	TYKW	32 ABS	0100.0	0310.0	330.0	-4.0	-2.0		
	9400	TYKW	32 ABS	0110.0	0300.0	240.0	-3.0	-1.5		
	3750	TYKW	5 S	0202.0	0202.4	1.0	3.0	.5		
	2000	TYKW	32 ABS	0220.0	0330.0	155.0	-1.5	-0.7		
	3750	TYKW	20 GRF	0500.0	0501.0	30.0	1.0	.5		
	9300	KISV	2 S/F	0539.5	0542.4	8.0	6.0			
	9400	TYKW	5 S	0541.0	0542.3	4.0	3.0	1.0		
	9400	TYKW	45 C	0659.0	0701.1	4.0	22.0	7.0		
	9100	GORK	3 S	0659.7	0701.0	5.7	23.0	10.0		
	9395	PEKG	3 S	0700.0	0701.1	3.6	19.9	6.8		
	3750	TYKW	5 S	0700.0	0701.2	2.0	12.0	4.0		
	2840	PEKG	4 S/F	0700.0	0701.2	4.0	19.5	7.8U		
	8800	ATHN	4 S/F	0700.0	0701.0	3.0	23.0			QL=6 ST=3 TYP=3
	4995	ATHN	8 S	0700.0	0701.0	2.0	25.0			QL=6 ST=3 TYP=3
	2695	ATHN	8 S	0700.0	0701.0	2.0	2.0			QL=6 ST=3 TYP=3
	9300	KISV	2 S/F	0700.0	0701.2	3.5	21.0			
	2950	GORK	3 S	0700.1	0701.2	1.7	5.8	2.9		
	5200	BERN	3 S	0700.3	0701.1	2.0	30.0			
	3100	BERN	3 S	0700.3	0701.1	2.0	24.0			
	2695	LEAR	4 S/F	0700.5	0701.1	2.1	7.0			QL=6 ST=2 TYP=3
	2000	TYKW	5 S	0700.5	0701.3	2.5	2.0	.7		
	15000	KISV	1 S	0700.5	0701.4	3.5				
	15400	LEAR	8 S	0700.6	0701.1	1.7	10.0			QL=6 ST=2 TYP=3
	4995	LEAR	8 S	0701.0	0701.1	.3	13.0			QL=6 ST=2 TYP=3
	8800	LEAR	8 S	0701.0	0701.1	.3	19.0			QL=6 ST=2 TYP=3
	2950	GORK	29 PBI	0701.3	0701.7	6.5	1.6	.8		
	3750	TYKW	29 PBI	0702.0		10.0	1.0	.5		
	9400	TYKW	29 PBI	0703.0		10.0	2.0	1.0		
	2950	GORK	21 GRF	0844.7	0850.4	25.7	2.2			
	3750	TYKW	5 S	0846.5	0847.7	2.5	14.0	7.0		
	5200	BERN	3 S	0847.0	0847.6	2.0	40.0			
	3100	BERN	3 S	0847.0	0847.6	2.0	16.0			
	2950	GORK	3 S	0847.1	0847.7	2.2	4.4	2.2		
	9100	GORK	1 S	0847.2	0847.6	2.0	9.0	4.0		
	3750	TYKW	29 PBI	0849.0		10.0	4.0	2.0		
	260	ONDR	40 F	0956.5	0958.5	2.0	3.0			
	2800	OTTA	1 S	1249.0	1251.0	4.0	1.8	.9		
	2800	OTTA	20 GRF	1325.0	1330.0	25.0	1.2	.6		
	2800	OTTA	27A RF	1428.0		200.0	1.8	1.7		
	2800	OTTA	24 R	1428.0	1430.0	2.0	1.8	.9		
	8400	BERN	4 S/F	1428.0	1430.0	5.0	80.0			
	11800	BERN	4 S/F	1428.0	1430.0	5.0	56.0			
	4995	SGMR	8 S	1429.6	1430.6	1.5	24.0			QL=6 ST=2 TYP=3
	8800	SGMR	47 GB	1429.6	1430.6	2.5	65.0			QL=6 ST=2 TYP=5
	15400	SGMR	4 S/F	1429.8	1430.6	2.5	33.0			QL=6 ST=2 TYP=3
	2800	OTTA	40 F	1429.8	1431.1	3.0	45.0			
	2800	OTTA	24P R	1430.0		175.0	1.8			
	8800	ATHN	47 GB	1430.3	1431.5	4.7	67.0			QL=6 ST=2 TYP=5
	2695	SGMR	8 S	1430.5	1431.6	1.5	35.0			QL=6 ST=2 TYP=3
	4995	ATHN	4 S/F	1430.6	1431.3	4.4	20.0			QL=6 ST=3 TYP=3
	2695	ATHN	4 S/F	1430.6	1431.5	3.9	24.0			QL=1 ST=3 TYP=3
	1415	ATHN	4 S/F	1430.8	1431.3	2.7	11.0			QL=6 ST=2 TYP=3
	2800	OTTA	21 GRF	1447.0	1455.0	55.0	2.6	1.3		
	2800	OTTA	1 S	1447.5	1448.5	3.0	1.8	1.0		
	2800	OTTA	26 FAL	1725.0	1748.0	23.0	-1.8	-0.9		
	2800	OTTA	1 S	1917.5	1918.3	1.5	3.6	1.2		
	2695	PENT	240 R	2315.0	2340.0	25.0	2.2	1.1		
	3750	TYKW	21 GRF	2320.0	0010.0	140.0	2.0	1.0		
	2000	TYKW	21 GRF	2320.0	2350.0	140.0	2.0	1.0		
02	127	TORN	43 NS	0756.0		108.0		14.0		V=0
	33	UPIC	43 NS	0801.5		531.1				
	29	UPIC	43 NS	0804.1		532.0				
	2000	TYKW	20 GRF	0014.0	0027.0	80.0	2.0	1.0		
	2695	PENT	20 GRF	0015.0	0025.0	60.0	3.0	1.3		
	3750	TYKW	21 GRF	0020.0	0027.0	60.0	2.0	1.0		
	9400	TYKW	20 GRF	0020.0	0028.0	50.0	3.0	1.5		
	3750	TYKW	5 S	0045.5	0046.0	1.5	1.5	.5		
	2840	PEKG	20 GRF	0242.0	0249.7	13.0	1.8	1.2		
	9395	PEKG	46 C	0251.0	0255.7	8.0	52.6	10.9		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

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May 85

MAY 1985

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)	Int	Remarks
02	9400	TYKW	20 GRF	0506.0	0510.0	30.0	2.0	1.0		
	2000	TYKW	28 PRE	0640.0	0724.0	63.0	2.0	1.0		
	3750	TYKW	28 PRE	0710.0	0724.0	32.0	2.0	1.0		
	9400	TYKW	28 PRE	0720.0	0723.0	22.0	4.0	2.0		
	9400	TYKW	47 GB	0742.0	0744.9	6.0	620.0	170.0		
	3750	TYKW	47 GB	0742.0	0744.9	7.0	560.0	130.0		
	9395	PEKG	3 S	0742.0	0745.0U	6.0	431.4D	197.2D		
	930	BORD	46 C	0742.0	0745.6	53.4	52.0	5.0		
	2840	PEKG	3 S	0742.2	0745.0U	8.0	102.0D			
	9100	GORK	21 GRF	0742.3	0813.8	99.0	26.0			
	2950	GORK	4 S/F	0742.6	0745.0	6.5	226.0			
	2000	TYKW	45 C	0743.0	0745.3	25.0	290.0	35.0		
	19600	BERN	4 S/F	0743.0	0744.8	4.0	750.0			
	11800	BERN	4 S/F	0743.0	0744.8	4.0	712.0			
	3000	IZMI	5 S	0743.0	0745.0	10.0	500.0D			
	2695	ATHN	47 GB	0743.0	0745.0	6.0	450.0			QL=6 ST=2 TYP=5
	8800	ATHN	47 GB	0743.0	0745.0	5.0	480.0			QL=6 ST=2 TYP=5
	4995	ATHN	49 GB	0743.0	0745.0	5.0	680.0			QL=6 ST=2 TYP=6
	9100	GORK	46 C	0743.1	0743.7	4.3	572.0			
	4995	LEAR	49 GB	0743.1	0744.8	13.2	600.0			QL=6 ST=2 TYP=6
	8800	LEAR	49 GB	0743.1	0744.8	13.2	680.0			QL=6 ST=2 TYP=6
	9100	GORK		0743.1	0744.9		589.0			
	3100	BERN	4 S/F	0743.3	0744.8	4.0	1300.0			
	15400	LEAR	49 GB	0743.3	0744.8	13.0	700.0			QL=6 ST=2 TYP=6
	5200	BERN	4 S/F	0743.3	0744.8	4.0	1200.0			
	8400	BERN	4 S/F	0743.3	0744.8	4.0	950.0			
	17000	NOBE	45 C	0743.3	0744.9	5.0	750.0			L
	80000	NOBE	45 C	0743.3	0745.0	5.0	90.0			0
	35000	NOBE	45 C	0743.3	0745.0	5.0	550.0			
	2695	LEAR	47 GB	0743.3	0745.1	13.5	480.0			QL=6 ST=2 TYP=5
	1000	TYKW	45 C	0743.5	0745.6	26.5	64.0	14.0		
	1415	LEAR	47 GB	0743.8	0745.3	13.3	169.0			QL=6 ST=2 TYP=5
	808	ONDR	45 C	0744.0	0745.5	4.0				
	950	GORK	3 S	0744.0	0745.7	3.9	31.5			
	1415	ATHN	47 GB	0744.0	0746.0	5.0	160.0			QL=6 ST=2 TYP=5
	650	GORK	23 GRF	0744.3	0757.3	14.7	9.0			
	500	HIRA	41 F	0744.4	0753.2	25.0	370.0			0
	200	GORK	41 F	0744.5	0745.6	4.2	7.0			
	200	GORK		0744.5	0748.3		19.0			
	650	GORK	4 S/F	0744.6	0744.8	.4	5.0			
	536	ONDR	46 C	0745.0	0746.5	5.0	103.0	17.0		
	260	ONDR	28 PRE	0745.5	0747.3	10.0				
	650	GORK	2 S/F	0746.0	0746.3	1.0	31.0			
	610	LEAR	47 GB	0746.3	0746.6	10.8	59.0			QL=6 ST=2 TYP=5
	410	LEAR	4 S/F	0746.6	0746.6	10.5	48.0			QL=6 ST=2 TYP=3
	950	GORK	30 PBI	0747.9	0748.0	42.2	8.4			
	9400	TYKW	30 PBI		0748.0	60.0D	20.0	15.0D		
	9395	PEKG	29 PBI	0748.0	0804.0	78.0	24.7	12.1		
	808	ONDR	29 PBI	0748.0	0748.5	7.0				
	3750	TYKW	30 PBI	0749.0		70.0D	12.0	9.0D		
	2950	GORK	30 PBI	0749.1	0749.6	101.0D	12.4			
	127	TORN	45 C	0749.3		2.6	210.0D	190.0D		
	536	ONDR	46 C	0750.0	0753.5	21.0	375.0	15.0		
	2840	PEKG	30 PBI	0750.2	0802.4	81.0	12.7	9.5		
	100	HIRA	42 SER	0750.3	0800.0U	10.0	310.0			WR
	200	GORK	46 C	0753.0	0759.5	32.3	45.0			
	200	GORK		0753.0	0804.8		55.0			
	200	GORK		0753.0	0814.0		25.0			
	200	HIRA		0753.8	0759.3		28.0			0
	200	HIRA	46 C	0753.8	0804.7	23.0	37.0	11.0		0
	204	IZMI	7 C	0755.0	0805.0	20.0	40.0	20.0		
	260	ONDR	46 C	0755.3	0759.8	11.0	24.0	20.0		
	260	ONDR		0755.3	0803.0		35.0			
	260	ONDR		0755.3	0804.9		35.0			
	2950	GORK	46 C	0755.5	0756.2	10.4	11.0			
	3750	TYKW	45 C	0755.5	0756.3	14.0	7.0	2.0		
	2950	GORK		0755.5	0801.1		7.6			
	2950	GORK		0755.5	0802.4		7.2			
	2950	GORK		0755.5	0804.5		5.5			
	2695	LEAR	4 S/F	0755.6	0756.3	9.5	26.0			QL=6 ST=2 TYP=3
	1415	LEAR	4 S/F	0755.6	0756.8	9.9	27.0			QL=6 ST=2 TYP=3

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

MAY 1985

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)	Int	Remarks
02	950	GORK	45 C	0755.7	0757.3	10.1	5.0			
	950	GORK		0755.7	0802.6		5.8			
	950	GORK		0755.7	0804.5		4.7			
	808	ONDR	45 C	0755.8	0757.2	14.0				
	100	HIRA	46 C	0756.0	0809.0	80.0	58.0	46.0		0
	100	HIRA		0756.0	0847.0		37.0			MR
	9400	TYKW	20 GRF	0757.0	0807.0	45.0	10.0	5.0		
	245	LEAR	47 GB	0757.1	0758.1		66.0			QL=6 ST=1 TYP=5
	410	LEAR	8 S	0757.1	0758.1	1.9	18.0			QL=6 ST=2 TYP=3
	610	LEAR	8 S	0757.1	0758.3	1.9	19.0			QL=6 ST=2 TYP=3
	536	ONDR		0800.0			18.0			
	260	ONDR	29 PBI	0806.3	0808.0	29.0	5.0	2.0		
	2000	TYKW	30 PBI	0808.0		60.00	10.0	8.00		
	1000	TYKW	30 PBI	0810.0		40.00	2.0	1.50		
	2000	TYKW	45 C	0812.0	0814.0	45.0	60.0	5.0		
	1000	TYKW	45 C	0812.0	0827.2	30.0	8.0	2.0		
	536	ONDR	27 RF	0812.0	0817.5	30.0	16.0	7.0		
	2950	GORK	2 S/F	0812.4	0813.8	6.1	2.7			
	260	ONDR	46 C	0812.5	0825.5	33.0	7.0	3.0		
	1415	LEAR	4 S/F	0812.8	0813.8	4.8	34.0			QL=6 ST=2 TYP=3
	2840	PEKG	46 C	0813.0	0826.6	17.0	10.4	3.4		
	2695	LEAR	8 S	0813.6	0814.0	.5	13.0			QL=6 ST=2 TYP=3
	2950	GORK	2 S/F	0824.7	0827.2	4.1	4.1			
	1415	LEAR	47 GB	0832.6	0833.6	2.9	160.0			QL=6 ST=2 TYP=5
	2840	PEKG	46 C	0848.0	0852.0	8.0	11.6	2.6		
	2950	GORK	46 C	0848.9	0849.7	5.0	5.1			
	2950	GORK		0848.9	0851.7		5.1			
	1415	LEAR	8 S	0849.3	0849.8	1.0	22.0			QL=6 ST=2 TYP=3
	260	ONDR	40 F	0850.5	0859.5	22.5	2.0			
	2695	LEAR	8 S	0851.6	0851.8	.4	16.0			QL=6 ST=2 TYP=3
	2950	GORK	1 S	0907.4	0908.0	1.6	1.7	.8		
	127	TORN	41 F	1247.4	1259.5	19.5	130.0	2.0		DISTURBED
	2800	OTTA	20 GRF	1730.0	1750.0	135.0	1.8	.9		
	2840	PEKG	45 C	2216.4	2220.7	23.2	24.3	10.8		
03	260	ONDR	43 NS	0943.0	1121.3	287.00	32.0			
	2695	PENT	20 GRF	0015.0	0040.0	40.0	3.4	2.2		
	2000	TYKW	45 C	0019.0	0024.7	7.0	2.5	1.0		
	9395	PEKG	45 C	0021.0	0021.7	2.0	8.9	3.7		
	2840	PEKG	20 GRF	0021.0	0040.9	32.0	3.8	1.5		
	3750	TYKW	21 GRF	0022.0	0031.0	40.0	2.0	1.0		
	1000	TYKW	5 S	0022.4	0022.6	1.0	1.0	.3		
	2000	TYKW	30 PBI	0026.0		40.0	1.5	.7		
	2000	TYKW	20 GRF	0027.0	0030.0	30.0	1.5	.7		
	1000	TYKW	20 GRF	0027.0	0030.0	40.0	1.0	.5		
	3750	TYKW	5 S	0037.0	0040.8	6.0	4.0	1.5		
	3750	TYKW	29 PBI	0043.0		10.0	1.0	.5		
	260	ONDR	8 S	0837.5	0837.5	.1	1.0			
	930	BORD	41 F	1423.9	1424.2	.5	135.0	3.0		
	33	UPIC	48 C	1449.2	1500.5	16.7				
04	29	UPIC	46 C	1449.6	1450.5U	15.9U				
	2000	TYKW	45 C	0454.6	0455.1	1.0	2.0	.5		
	536	ONDR	8 S	0548.0	0548.0	.1	8.0			
	808	ONDR	8 S	0548.0	0548.0	.1				
	260	ONDR	8 S	0548.0	0548.0	.5	3.0			
05	260	ONDR	40 F	1141.0	1142.5	4.3	4.0			
	29	UPIC	43 NS	0723.3		540.5				
	33	UPIC	43 NS	0723.6		539.9				
	200	HIRA	46 C	0119.0	0119.3	1.2	35.0	8.0		0
	100	HIRA	8 S	0119.6	0119.9	.8	480.0			
	3100	CRIM	20 GRF	0830.0	0905.0	90.0	2.0	1.0		
	260	ONDR	8 S	0907.0	0907.1	.5	7.0			
	260	ONDR	8 S	1147.0	1147.2	.3	2.0			
	536	ONDR	2 S/F	1147.8	1147.8	1.5	5.0			
	245	PALE	49 GB	2334.8	2338.0		800.0			QL=6 ST=1 TYP=6
	410	PALE	47 GB	2334.8	2338.0		460.0			QL=6 ST=1 TYP=5
	610	PALE	8 S	2337.8	2338.0		24.0			QL=6 ST=1 TYP=3
06	245	LEAR	43 NS	0020.0	0121.6	559.00	25.0			QL=6 ST=2 TYP=1

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

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MAY 1985

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)		
06	260	ONDR	44 NS	0558.0E	0829.0	497.00	36.0			
	9300	KISV	2 S/F	0629.2	0630.3	1.5	9.0			
	2000	TYKW	5 S	0746.0	0746.7	2.0	2.0	.7		
	9300	KISV	2 S/F	1004.7	1005.1	2.0	8.0			
	930	BORD	8 S	1029.5	1029.7	.3	14.0	2.0		
	930	BORD	41 F	1053.6	1054.9	3.8	8.0	3.0		
	930	BORD	41 F	1207.8	1207.9	.2	30.0	2.0		
	930	BORD	41 F	1254.8	1254.9	2.2	63.0	2.0		
	930	BORD	41 F	1314.4	1315.0	2.1	7.0	2.0		
	930	BORD	41 F	1341.0	1343.2	3.6	66.0	2.0		
	2800	OTTA	20 GRF	1345.0	1410.0	95.0	1.4	.7		
	33	UPIC	3 S	1406.1	1406.2	.7				
07	29	UPIC	1 S	1406.4	1406.5	.4				
	930	BORD	8 S	1444.0	1444.5	.6	56.0	3.0		
	260	ONDR	44 NS	0537.0E	0559.5	509.00	17.0			
	245	LEAR	43 NS	2303.0	0052.3	635.00	29.0			QL=6 ST=2 TYP=1
	9400	TYKW	5 S	0432.5	0433.9	2.5	6.0	3.0		
	9400	TYKW	29 PBI	0435.0		10.0	2.0	1.0		
	3750	TYKW	5 S	0558.7	0559.4	1.30	20.0	6.00		
	9400	TYKW	45 C	0558.7	0559.4	2.5	11.0	2.0		
	2000	TYKW	5 S	0558.7	0559.5	2.5	7.0	1.5		
	9300	KISV	2 S/F	0558.8	0559.3	2.0	16.0			
	9100	GORK	1 S	0558.8	0559.4	1.4	7.0			
	2950	GORK	3 S	0558.8	0559.4	2.5	12.1	6.0		
08	500	HIRA	8 S	0558.9	0559.0	.6	8.0			0
	1000	TYKW	5 S	0559.0	0559.4	1.0	3.0	1.0		
	9395	PEKG	1 S	0559.0	0559.6	1.0	7.3	3.6		
	2840	PEKG	3 S	0559.0	0559.7	4.0	34.2	6.7		
	33	UPIC	45 C	0559.0	0559.4	1.5				
	536	ONDR	1 S	0559.0	0559.5	1.0	4.0			
	200	GORK	41 F	0559.0	0559.5	3.0	35.0			
	29	UPIC	45 C	0559.0	0559.6	2.1				
	200	GORK		0559.0	0600.3		20.0			
	4995	LEAR	8 S	0559.1	0559.3	.5	20.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0559.1	0559.3	.2	13.0			QL=6 ST=2 TYP=3
	2695	ATHN	8 S	0559.1	0559.3	.5	16.0			QL=6 ST=2 TYP=3
09	4995	ATHN	4 S/F	0559.1	0559.3	40.5	13.0			QL=6 ST=2 TYP=3
	1415	ATHN	8 S	0559.1	0559.3	.5	3.0			QL=6 ST=2 TYP=3
	8800	ATHN	8 S	0559.1	0559.3	.5	6.0			QL=6 ST=2 TYP=3
	650	GORK	1 S	0559.1	0559.4	.8	5.8	2.8		
	245	LEAR	8 S	0559.1	0559.5	.5	33.0			QL=6 ST=2 TYP=3
	2695	LEAR	8 S	0559.1	0559.5	.5	13.0			QL=6 ST=2 TYP=3
	930	BORD	41 F	0658.0	0658.3	3.8	71.0	3.0		
	9100	GORK	2 S/F	0921.5	0922.0	2.7	14.0	3.5		
	4995	ATHN	20 GRF	0921.5	0922.0	2.1	16.0			QL=6 ST=2 TYP=2
	2695	ATHN	20 GRF	0921.5	0922.0	2.0	9.0			QL=6 ST=2 TYP=2
	8800	ATHN	20 GRF	0921.6	0922.0	.9	6.0			QL=6 ST=2 TYP=2
	9300	KISV	2 S/F	0921.6	0922.0	3.0	15.0			
10	2950	GORK	45 C	0921.6	0922.0	3.5	9.0			
	2950	GORK		0921.6	0922.7		5.2			
	33	UPIC	45 C	0921.6	0922.9	3.6				
	3000	IZMI	5 S	0922.0	0922.7	3.5	12.0	6.0		
	29	UPIC	45 C	0922.0	0923.1	3.8				
	204	IZMI	5 S	0922.4	0923.0	2.0	123.0	50.0		
	650	GORK	1 S	0922.5	0922.8	.9	5.2	2.5		
	930	BORD	8 S	0959.8	1000.0	.4	22.0	2.0		
	930	BORD	8 S	1222.4	1222.5	.3	35.0	2.0		
	2800	OTTA	240 R	1948.0	1958.0	10.0	2.2	1.1		
	500	HIRA	8 S	2152.3	2152.4	.4	4.0			0
	100	GORK	44 NS	0258.6E		284.00		5.0		
11	536	ONDR	44 NS	0553.0E		490.00	5.0			
	245	LEAR	44 NS	2303.0E	0518.8		48.0			QL=6 ST=1 TYP=1
	245	PALE	8 S	0109.3	0109.8	.8	26.0			QL=6 ST=2 TYP=3
	9400	TYKW	45 C	0243.7	0244.1	2.5	6.0	1.5		
	3750	TYKW	45 C	0244.0	0244.9	3.0	2.0	.5		
	500	HIRA	8 S	0245.0	0245.1	.1	10.0			WR
	204	IZMI	41 F	0643.0	0644.0	1.1	250.00			
	2950	GORK	1 S	0732.5	0733.3	3.0	1.6	.8		
	2000	TYKW	5 S	0733.0	0733.4	1.0	1.0	.3		

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

MAY 1985

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)		
08	3750	TYKW	5 S	0733.0	0733.4	1.0	3.0	.7		
	9400	TYKW	5 S	0733.0	0733.4	1.0	3.0	1.0		
	9100	GORK	1 S	0733.0	0733.2	.6	4.0	2.0		
	33	UPIC	45 C	0733.4	0733.4	1.3				
	29	UPIC	2 S/F	0733.5	0733.6	.6				
	245	SGMR	4 S/F	1736.1	1736.8	3.9	40.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	1741.8	1742.6	1.5	39.0			QL=6 ST=2 TYP=3
	2800	OTTA	8 S	1742.3	1742.5	.5	.8	.4		
	245	PALE	47 GB	1742.3	1742.5	.5	67.0			QL=6 ST=3 TYP=5
	3750	TYKW	5 S	2300.6	2300.8	.8	1.5	.5		
09	100	GORK	43 NS	0437.0		294.00		5.0		
	260	ONDR	44 NS	0545.0E		502.00	35.0			
	245	LEAR	43 NS	2303.0	0518.8	634.00	48.0			QL=6 ST=2 TYP=1
	3750	TYKW	20 GRF	0530.0	0547.0	55.0	2.0	1.0		
	3100	CRIM	20 GRF	0759.0	0926.9	191.0	29.0	10.0		
	2950	GORK	20 GRF	0846.1	0930.0	47.0	1.3			
	930	BORD	8 S	0956.0	0956.1	.3	32.0	3.0		
	2800	OTTA	20 GRF	1525.0	1630.0	95.0	1.8	.9		
	2800	OTTA	20 GRF	1735.0	1743.0	20.0	1.4	.7		
	930	BORD	46 C	1741.6	1742.1	.8	11.0	3.0		
	930	BORD	8 S	1814.6	1814.6	.2	18.0	2.0		
	2800	OTTA	21 GRF	1925.0	2000.0	90.0	2.0	1.5		
	2800	OTTA	1 S	1953.2	1954.5	2.0	1.8	.9		
	200	HIRA	8 S	2021.3	2021.7	.6	230.0			WR
	100	HIRA	8 S	2021.6	2021.7	.7	700.0			WR
	245	PALE	47 GB	2021.8	2021.8	.3	95.0			QL=6 ST=2 TYP=5
	245	SGMR	47 GB	2021.8	2022.0	.5	76.0			QL=1 ST=2 TYP=5
	3750	TYKW	5 S	2334.0	2335.0	5.0	1.0	.3		
10	100	GORK	43 NS	0438.0		295.00		5.0		
	100	HIRA	43 NS	0550.0	0640.0	200.00	50.0	15.0		MR
	260	ONDR	44 NS	0620.0E	1036.5	480.00	35.0			
	33	UPIC	43 NS	0838.4	1558.0	443.4				
	29	UPIC	43 NS	0838.6	1558.0	443.6				
	200	HIRA	44 NS	1936.0E	0515.0	830.00	27.0	10.0		MR
	100	HIRA	44 NS	1936.0E	0522.0	810.00	90.0	10.0		MR
	208	VORO	44 NS	2100.0E		180.00		20.0		
	245	LEAR	43 NS	2304.0	0322.8	632.00	150.0			QL=6 ST=2 TYP=1
	3750	TYKW	5 S	0032.0	0033.1	8.0	1.5	.5		
	2695	LEAR	20 GRF	0232.0	0241.0	12.5	7.0			QL=6 ST=2 TYP=2
	4995	LEAR	20 GRF	0235.3	0239.5	15.8	4.0			QL=6 ST=2 TYP=2
	3750	TYKW	5 S	0238.5	0239.4	6.0	1.0	.3		
	8800	LEAR	20 GRF	0238.5	0240.5	7.0	3.0			QL=6 ST=2 TYP=2
	15400	LEAR	20 GRF	0239.5	0243.0	9.5	4.0			QL=6 ST=2 TYP=2
	3750	TYKW	32 ABS	0402.0	0412.0	30.0	-3.0	-1.5		
	2950	GORK	40 F	0423.2	0432.5	30.0	1.3			
	200	GORK	41 F	0433.8	0438.6	9.6	25.0			
	200	GORK		0433.8	0444.1		15.0			
	500	HIRA	42 SER	0441.8	0446.2	8.5	25.0			WR
	650	GORK	23 GRF	0442.0	0447.1	8.5	2.0			
	200	HIRA	46 C	0443.5	0446.3	46.7	27.0	3.0		WR
	200	HIRA		0443.5	0457.5		10.0			MR
	1000	TYKW	45 C	0445.0	0446.0	2.5	5.0	.7		
	3750	TYKW	45 C	0445.0	0446.7	8.0	2.0	.7		
	2000	TYKW	45 C	0445.0	0446.7	8.0	1.0	.3		
	200	GORK	46 C	0445.0	0446.4	45.8	50.0			
	200	GORK		0445.0	0449.8		30.0			
	100	HIRA	46 C	0445.8	0446.3	1.6	200.0	45.0		WR
	650	GORK	4 S/F	0445.9	0446.1	1.2	13.0	3.6		
	1000	TYKW	45 C	0536.0	0556.7	30.0	3.0	1.0		
	9300	KISV	2 S/F	0615.8	0616.0	.5	20.0			
	1000	TYKW	45 C	0621.0	0621.8	4.0	1.5	.5		
	1000	TYKW	5 S	0650.0	0653.3	10.0	2.0	1.0		
	1000	TYKW	45 C	0741.6	0742.1	1.0	20.0	4.0		
	930	BORD	8 S	1002.0	1002.0	.3	13.0	2.0		
	930	BORD	40 F	1036.0	1036.6	2.4	6.0	4.0		
	536	ONDR	8 S	1059.0	1059.5	1.0	13.0			
	808	ONDR	8 S	1116.5	1116.6	.2				
	930	BORD	8 S	1206.9	1207.0	.2	9.0	2.0		
	930	BORD	20 GRF	1221.0	1323.8	192.0	10.0	9.0		

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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 (2 Hz)		
10	33	UPIC	46 C	1552.3	1558.0	9.5				
	29	UPIC	46 C	1552.5	1558.0	9.7				
	930	BORD	41 F	1555.0	1558.2	11.0	9.0	3.0		
	2800	OTTA	20 GRF	1555.0	1602.0	12.0	1.8	.8		
	245	SGMR	47 GB	1600.3	1601.0	1.2	169.0			QL=6 ST=2 TYP=5
	410	SGMR	8 S	1600.8	1601.0	.5	25.0			QL=6 ST=2 TYP=3
	610	SGMR	8 S	1601.0	1601.1	.5	23.0			QL=6 ST=2 TYP=3
	2800	OTTA	20 GRF	2125.0	2200.0	60.0	1.6	.7		
	245	SGMR	8 S	2155.8	2157.1	1.8	49.0			QL=6 ST=2 TYP=3
	208	VORO	3 S	2158.0	2159.0	3.0	45.0			
	3750	TYKW	5 S	2158.0	2159.2	3.0	2.0	.5		
	200	HIRA	46 C	2159.2	2200.0	.9	58.0	23.0		WR
	245	SGMR	4 S/F	2159.6	2201.6	2.2	42.0			QL=6 ST=2 TYP=3
	200	HIRA	46 C	2245.7	2246.5	3.0	72.0	36.0		SR
	208	VORO	3 S	2304.0	2305.0	3.0	100.0			
	200	HIRA	46 C	2309.0	2309.5	5.5	120.0	30.0		WR
	200	HIRA		2309.0	2313.7		52.0			MR
	245	SGMR	47 GB	2309.6	2309.8	.5	65.0			QL=6 ST=2 TYP=5
11	200	GORK	44 NS	0259.0E		544.00		25.0		
	100	GORK	44 NS	0300.0E		543.00		5.0		
	29	UPIC	43 NS	0456.0		784.00				
	33	UPIC	43 NS	0456.0		784.00				
	204	IZMI	43 NS	0600.0		360.0	25.0			
	127	TORN	44 NS	0620.0E		520.00		1.0		V=1,DISTURBED
	260	ONDR	44 NS	0629.0E		471.00	30.0			
	200	HIRA	43 NS	2046.0	0855.0	830.00	7.0	3.0		MR
	208	VORO	44 NS	2100.0E		180.00		16.0		
	245	LEAR	43 NS	2304.0	0624.3	632.00	110.0			QL=6 ST=2 TYP=1
	9395	PEKG	8 S	0149.0	0149.4	1.0	21.0	7.2		
	200	HIRA	42 SER	0157.0	0207.5	13.0	255.0			SR
	2950	GORK	20 GRF	0242.2E	0249.7	108.00	5.5			
	650	GORK	22 GRF	0300.0E	0310.4	237.80	8.5			
	3750	TYKW	45 C	0455.0	0456.4	6.0	2.0	1.0		
	200	GORK	41 F	0455.9	0456.0	4.2	900.0			
	200	GORK		0455.9	0459.7		290.0			
	100	GORK	41 F	0456.0	0456.3	4.5	140.0			
	100	GORK		0456.0	0459.7		75.0			
	245	LEAR	47 GB	0459.8	0500.0	.3	57.0			QL=6 ST=2 TYP=5
	610	LEAR	8 S	0459.8	0500.0	.3	38.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0459.8	0500.0	.3	7.0			QL=6 ST=2 TYP=3
	3750	TYKW	29 PBI	0501.0		15.0	1.0	.5		
	2950	GORK	20 GRF	0518.6	0551.0	210.0	5.1			
	9100	GORK	20 GRF	0531.0	0611.1	65.0	7.0			
	9400	TYKW	20 GRF	0540.0	0602.0	50.0	4.0	2.0		
	3750	TYKW	21 GRF	0540.0	0603.00	60.0	3.0	1.50		
	3750	TYKW	5 S	0549.0	0550.5	4.0	1.0	.3		
	2000	TYKW	45 C	0713.0	0714.2	2.0	1.5	.5		
	1000	TYKW	45 C	0713.0	0714.2	2.0	1.0	.3		
	3750	TYKW	45 C	0713.3	0714.2	2.0	3.0	1.0		
	650	GORK	20 GRF	0922.9	1005.1	78.00	1.5			
	204	IZMI	41 F	0944.0	0944.5	1.0	250.00			
	3750	TYKW	20 GRF	2130.0	2200.0	80.0	1.5	.7		
	245	SGMR	47 GB	2135.0	2135.1	.3	58.0			QL=6 ST=2 TYP=5
	200	HIRA	46 C	2152.8	2153.1	1.8	230.0	45.0		0
	1000	TYKW	45 C	2252.0	2252.3	1.0	3.0	.5		
12	200	GORK	44 NS	0303.0E		547.00		10.0		
	260	ONDR	44 NS	0550.0E		497.00	42.0			
	204	IZMI	43 NS	0600.0		360.0	20.0			
	29	UPIC	43 NS	0606.7		652.0				
	33	UPIC	43 NS	0606.8		653.2				
	127	TORN	43 NS	0716.0	0916.0	454.0	280.0	9.00		V=1,DISTURBED
	200	HIRA	44 NS	1934.0E	0838.0	830.00	50.0	10.0		SR
	200	HIRA	42 SER	0025.2	0100.5	36.5	110.0			0
	245	LEAR	8 S	0100.3	0100.5	.5	21.0			QL=6 ST=2 TYP=3
	500	HIRA	45 C	0111.3	0113.4	2.6	5.0	2.0		0
	1000	TYKW	45 C	0111.6	0111.9	1.5	5.0	1.0		
	245	LEAR	8 S	0117.8	0118.0	.5	28.0			QL=6 ST=2 TYP=3
	245	PALE	47 GB	0206.8	0207.3	.7	63.0			QL=6 ST=2 TYP=5
	200	HIRA	42 SER	0229.5	0230.0	5.1	31.0			MR

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

MAY 1985

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22	Mean W/m 2 Hz)		
12	200	HIRA	42 SER	0257.3	0257.5	10.3	74.0			WR
	100	GORK	41 F	0419.3	0419.9	6.3	45.0			
	100	GORK		0419.3	0423.4		45.00			
	200	HIRA	42 SER	0523.0	0523.1	15.6	67.0			
	200	GORK	4 S/F	0523.0	0523.4	1.3	100.00			
	100	GORK	4 S/F	0523.3	0523.5	.4	45.0			
	650	GORK	20 GRF	0601.2E	0619.9	117.20	8.0			
	100	GORK	2 S/F	0606.9	0607.0	.4	35.0			
	930	BORD	3 S	0638.9	0639.0	1.0	30.0	5.0		
	3750	TYKW	45 C	0649.0	0651.8	20.0	8.0	3.0		
	2950	GORK	20 GRF	0649.2	0651.8	70.0	4.6			
	2000	TYKW	20 GRF	0650.0	0655.0	70.0	2.0	1.0		
	9400	TYKW	20 GRF	0650.0	0655.0U	40.0U	4.0	2.0U		INTERFERENCE
	3750	TYKW	29 PBI	0709.0		85.0	3.0	1.5		
	930	BORD	40 F	0733.3	0733.7	.7	8.0	2.0		
	200	HIRA	46 C	0833.2	0833.9	1.7	115.0	42.0		SR
	650	GORK	21 GRF	0912.0	0932.6	231.00	4.6			
	930	BORD	46 C	0926.4	0926.8	1.6	8.0	4.0		
	930	BORD	8 S	1001.1	1001.3	.4	20.0	2.0		
	204	IZMI	5 S	1114.0	1114.5	1.0	210.0	100.0		
	245	SGMR	47 GB	1114.1	1114.3	.7	169.0			QL=6 ST=2 TYP=5
	9100	GORK	20 GRF	1123.1	1152.8	37.00	7.0			
	200	GORK	4 S/F	1152.2	1152.8	2.0	110.00			
	2950	GORK	1 S	1152.5	1152.7	1.4	1.9	0.9		
	204	IZMI	5 S	1152.5	1153.0	1.0	180.0	90.0		
	100	GORK	4 S/F	1152.6	1152.8	.9	130.0			
	650	GORK	1 S	1152.6	1152.8	.7	1.7			
	950	GORK	2 S/F	1152.7	1152.8	.5	1.6			
	930	BORD	46 C	1252.0	1253.1	1.8	12.0	5.0		
	245	SGMR	8 S	1801.0	1801.1	.3	45.0			QL=6 ST=2 TYP=3
	2800	OTTA	21 GRF	1815.0	1827.0	135.0	6.0	1.5		
	245	SGMR	47 GB	1815.0	1815.1	.5	64.0			QL=6 ST=2 TYP=5
	410	SGMR	47 GB	1815.0	1815.1	.5	239.0			QL=6 ST=2 TYP=5
	610	SGMR	47 GB	1815.1	1815.1	.9	77.0			QL=6 ST=2 TYP=5
	2800	OTTA	1 S	1823.0	1825.0	4.0	3.8	1.9		
	245	SGMR	47 GB	1824.3	1824.6	.7	90.0			QL=6 ST=2 TYP=5
	410	SGMR	47 GB	1824.5	1824.6	.5	139.0			QL=6 ST=2 TYP=5
	4995	SGMR	8 S	1824.5	1824.8	.3	13.0			QL=6 ST=2 TYP=3
	610	SGMR	8 S	1824.6	1824.6	.4	25.0			QL=6 ST=2 TYP=3
	245	PALE	8 S	1858.6	1858.8	.4	36.0			QL=6 ST=2 TYP=3
	200	HIRA	8 S	2022.0	2022.3	.4	76.0			0
	100	HIRA	8 S	2022.8	2023.0	.6	390.0			WR
13	100	GORK	44 NS	0300.0E		540.00		20.0		
	200	GORK	44 NS	0300.0E		540.00		15.0		
	33	UPIC	43 NS	0440.7		743.6				
	29	UPIC	43 NS	0441.4		743.1				
	260	ONDR	44 NS	0550.0E		491.00	173.00			
	536	ONDR	44 NS	0550.0E	0950.0	491.00	9.0			
	204	IZMI	44 NS	0600.0E		360.00	80.0			
	100	HIRA	43 NS	0616.0	0852.0	200.00	240.0	60.0		MR
	127	TORN	44 NS	0840.0E		200.00		8.00		V=0, DISTURBED
	410	PALE	44 NS	1642.0E	1821.8	698.00	180.0			QL=6 ST=1 TYP=1
	1415	SGMR	44 NS	1700.0E	1822.3	393.00	48.0			QL=6 ST=2 TYP=1
	200	HIRA	44 NS	1933.0E	0018.0	830.00	220.0	90.0		SR
	100	HIRA	44 NS	1933.0E	2314.0	540.00	35.0	10.0		MR
	208	VORO	44 NS	2100.0E		180.00		81.0		
	410	LEAR	43 NS	2305.0	0110.5	630.00	84.0			QL=6 ST=2 TYP=1
	610	LEAR	43 NS	2305.0	0210.8	630.00	33.0			QL=6 ST=2 TYP=1
	245	LEAR	43 NS	2305.0	0211.1	630.00	910.0			QL=6 ST=2 TYP=1
	245	PALE	8 S	0023.3	0023.3	.3	37.0			QL=6 ST=2 TYP=3
	3750	TYKW	21 GRF	0055.0	0100.0	40.0	1.0	.5		
	3750	TYKW	5 S	0117.0	0118.2	9.0	1.5	.5		
	1000	TYKW	20 GRF	0136.0	0144.5	35.0	1.0	.5		
	2950	GORK	21 GRF	0244.3	0922.5	556.0	13.9			
	650	GORK	23 GRF	0300.0E	0947.3	540.00	19.0			
	245	PALE	8 S	0305.3	0305.3	.3	46.0			QL=6 ST=2 TYP=3
	245	PALE	47 GB	0315.1	0316.5	1.7	81.0			QL=6 ST=2 TYP=5
	3750	TYKW	5 S	0410.0	0412.0	6.0	1.0	.3		
	245	PALE	47 GB	0413.0	0413.1	.3	71.0			QL=6 ST=2 TYP=5
	2000	TYKW	45 C	0440.0	0443.8	10.0	2.5	1.0		

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

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MAY 1985

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)		
13	9400	TYKW	5 S	0442.0	0443.5	10.0	6.0	2.0		
	3750	TYKW	5 S	0442.0	0443.8	8.0	3.0	1.5		
	1000	TYKW	45 C	0442.0	0445.1	5.0	16.0	1.0		
	500	HIRA	8 S	0442.9	0443.4	.8	100.0			0
	610	LEAR	8 S	0443.1	0443.6	1.0	96.0			QL=6 ST=2 TYP=3
	950	GORK	2 S/F	0443.1	0445.0	2.5	0.8			
	1415	ATHN	8 S	0444.6	0444.8	.4	15.0			QL=6 ST=2 TYP=3
	2000	TYKW	30 PBI	0450.0		40.0	1.0	.5		
	3750	TYKW	30 PBI	0450.0		25.0	1.0	.5		
	9400	TYKW	5 S	0457.0	0459.5	7.0	4.0	1.5		
	3750	TYKW	5 S	0458.0	0500.0	5.0	1.0	.3		
	1000	TYKW	45 C	0458.5	0459.1	2.5	74.0	2.0		
	2000	TYKW	5 S	0459.0	0500.0	5.0	1.0	.3		
	2000	TYKW	5 S	0507.0	0508.0	5.0	1.0	.3		
	1000	TYKW	45 C	0638.0	0639.0	2.0	16.0	2.0		
	2000	TYKW	5 S	0638.5	0639.1	1.5	3.0	.7		
	500	HIRA	8 S	0638.7	0638.8	.6	90.0			WR
	200	HIRA	8 S	0638.8	0639.0	.3	560.0			WR
	610	LEAR	8 S	0638.8	0639.0	.7	40.0			QL=6 ST=2 TYP=3
	9400	TYKW	20 GRF	0750.0	0810.0	50.00	6.0	3.50		
	2000	TYKW	20 GRF	0758.0	0810.0	60.0	3.0	1.5		
	3750	TYKW	20 GRF	0758.0	0810.0	60.0	6.0	3.0		
	9100	GORK	20 GRF	0806.0	0930.4	234.00	28.0			
	3100	BERN	21 GRF	0900.0	0927.4	120.0	40.0			
	5200	BERN	21 GRF	0900.0	0930.4	120.0	65.0			
	8400	BERN	21 GRF	0900.0	0930.9	120.00	50.0			
	9300	KISV		0903.0	0927.3		70.0			
	9300	KISV	45 C	0903.0	0930.5	90.0	80.0			
	15000	KISV	45 C	0903.3	0927.3	75.0	26.0			
	15000	KISV		0903.3	0930.7		25.0			
	950	GORK	2 S/F	0924.5	0926.9	2.4	2.6			
	2950	GORK	4 S/F	0926.0	0927.3	1.9	11.2			
	650	GORK	4 S/F	0926.5	0926.6	.6	6.0			
	2950	GORK	1 S	0929.6	0930.4	1.7	1.9	.8		
	930	BORD	8 S	1156.1	1156.2	.2	35.0	2.0		
	2800	OTTA	20 GRF	1430.0	1525.0	100.0	1.8	.9		
	930	BORD	8 S	1459.6	1459.9	.4	32.0	2.0		
	2800	OTTA	8 S	1642.0	1642.0	.1	3.0			
	2800	OTTA	23 GRF	1818.0	1826.0	70.0	20.0	7.2		
	2800	OTTA	3 S	1821.0	1822.3	3.0	12.0	3.6		
	2695	SGMR	8 S	1821.6	1822.3		27.0			QL=6 ST=1 TYP=3
	4995	SGMR	8 S	1821.6	1822.3		23.0			QL=6 ST=1 TYP=3
	8800	PALE	8 S	1821.8	1822.3	.7	27.0			QL=6 ST=3 TYP=3
	15400	PALE	8 S	1821.8	1822.3	1.0	35.0			QL=6 ST=3 TYP=3
	2695	PALE	8 S	1822.0	1822.3	.8	25.0			QL=6 ST=3 TYP=3
	4995	PALE	8 S	1822.1	1822.3	.4	27.0			QL=6 ST=3 TYP=3
	15400	SGMR	8 S	1822.1	1822.5		18.0			QL=6 ST=1 TYP=3
	1415	PALE	47 GB	1822.3	1822.5	.3	57.0			QL=6 ST=3 TYP=3
	2800	OTTA	20 GRF	2040.0	2055.0	40.0	1.8	.9		
	2800	OTTA	20 GRF	2135.0	2140.0	20.0	1.2	.8		
	3750	TYKW	5 S	2137.0	2140.0	8.0	1.5	.5		
	100	HIRA	8 S	2151.0	2151.2	.4	300.0			0
	9400	TYKW	5 S	2205.0	2205.8	2.0	28.0	4.0		RAIN
	2000	TYKW	45 C	2205.5	2205.8	1.0	3.0	.7		
	3750	TYKW	45 C	2205.5	2205.9	1.5	5.0	1.0		
	1000	TYKW	45 C	2205.5	2205.9	1.5	5.0	1.0		
	500	HIRA	8 S	2205.6	2205.9	.4	17.0			WR
	100	HIRA	41 F	2205.7	2205.7	8.7	10000.00			
	17000	NOBE	1 S	2205.7	2205.8	.2	48.0			L
	200	HIRA	8 S	2205.8	2205.9	.3	3100.0			0
	2800	OTTA	2 S/F	2205.8	2205.9	1.0	5.0	1.6		
	3750	TYKW	5 S	2215.0	2216.0	15.0	1.5	.5		
	2800	OTTA	20 GRF	2215.0	2220.0	25.0	1.2	.6		
	500	HIRA	24 R	2231.0	0234.4	650.00	85.0	15.0		SR
	100	HIRA	8 S	2246.8	2247.1	.5	400.0			0
	2695	PENT	20 GRF	2248.0	2300.0	12.0	1.2	.6		
	3750	TYKW	45 C	2258.0	2259.0	3.0	3.0	1.5		
	3750	TYKW	29 PBI	2301.0		10.0	1.0	.5		
	100	HIRA	C	2334.3	2334.7	1.4	160.0	17.0		WR
14	200	GORK	44 NS	0258.0E		540.00		70.0		

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

MAY 1985

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
14	100	GORK	44 NS	0259.0E		545.0D		20.0		
	204	IZMI	44 NS	0600.0E		360.0D	80.0			
	260	ONDR	44 NS	0700.0E		423.0D	122.0D			
	536	ONDR	44 NS	0700.0E	1221.0	423.0D	53.0			
	33	UPIC	43 NS	0720.0		392.4				
	29	UPIC	43 NS	0720.7		391.5				
	127	TORN	44 NS	0900.0E		360.0D		7.0D		V=1, DISTURBED
	245	PALE	43 NS	1612.0	2242.3	728.0D	870.0			QL=6 ST=2 TYP=1
	200	HIRA	44 NS	1930.0E	2228.0	830.0D	135.0	30.0		SR
	208	VORO	44 NS	2100.0E		240.0D		63.0		
	410	LEAR	43 NS	2306.0	0129.1	628.0D	21.0			QL=6 ST=2 TYP=1
	610	LEAR	43 NS	2306.0	2300.5	628.0D	5.0			QL=6 ST=2 TYP=1
	245	LEAR	43 NS	2306.0	2324.8	628.0D	500.0			QL=6 ST=2 TYP=1
	2695	PENT	23 GRF	0005.0	0025.0	90.0D	4.8			
	3750	TYKW	45 C	0009.0	0011.9	9.0	9.0	3.0		
	2000	TYKW	5 S	0011.0	0012.0	6.0	1.0	.3		
	2695	PENT	1 S	0011.7	0011.9	1.0	1.6	.8		
	3750	TYKW	30 PBI	0018.0		35.0	2.0	1.0		
	3750	TYKW	45 C	0019.0	0025.6	11.0	6.0	3.0		
	2000	TYKW	21 GRF	0019.0	0035.0	55.0	1.5	.7		
	2000	TYKW	5 S	0024.0	0025.5	5.0	2.0	.5		
	1000	TYKW	45 C	0025.0	0025.6	1.0	8.0	2.0		
	2695	PENT	1 S	0025.0	0026.0	2.0	3.0	1.5		
	3750	TYKW	29 PBI	0030.0		20.0	1.5	.7		
	100	HIRA	27 RF	0039.0	0051.0	48.0	130.0	34.0		SR
	2000	TYKW	20 GRF	0148.0	0158.0	30.0	1.0	.5		
	3750	TYKW	5 S	0152.0	0154.0	15.0	1.5	.7		
	650	GORK	22 GRF	0300.0	0402.5	228.6	24.0			
	9400	TYKW	5 S	0401.0	0402.4	3.0	7.0	4.0		RAIN
	9100	GORK	1 S	0401.9	0402.2	6.4	7.0			
	3750	TYKW	5 S	0402.0	0402.2	1.0	1.0	.3		
	9400	TYKW	29 PBI	0404.0		10.0	4.0	2.0		
	9400	TYKW	45 C	0429.5	0430.1	3.0	8.0	2.0		
	3750	TYKW	5 S	0430.0	0430.1	1.0	4.0	1.0		
	1000	TYKW	45 C	0430.0	0430.1	1.5	1.5	.3		
	2000	TYKW	5 S	0430.0	0430.1	1.0	2.0	.5		
	9100	GORK	1 S	0430.0	0430.0	.6	6.0	3.0		
	2840	PEKG	8 S	0524.0	0524.4	1.0	14.0	3.3		
	650	GORK	22 GRF	0704.7	0749.2	168.8	18.0			
	808	ONDR	42 SER	0809.8	0813.0	3.5				
	930	BORD	8 S	1002.8	1002.9	.3	25.0	2.0		
	650	GORK	22 GRF	1043.4	1122.3	76.0D	29.0			
	2950	GORK	1 S	1125.3	1125.6	.8	1.5	.7		
	9300	KISV	2 S/F	1253.5	1254.4	1.5	6.0			
	2800	OTTA	20 GRF	1425.0	1505.0	95.0	1.6	.8		
	2800	OTTA	20 GRF	1615.0	1720.0	125.0	2.2	1.1		
	2800	OTTA	20 GRF	1905.0	1910.0	35.0	1.4	.7		
	9400	TYKW	5 S	2322.0	2324.0	6.0	3.0	1.0		
	1000	TYKW	45 C	2323.0	2324.1	3.0	8.0	2.0		
	3750	TYKW	5 S	2323.0	2324.6	5.0	3.0	.5		
	2000	TYKW	5 S	2323.0	2324.7	7.0	2.0	.7		
	2695	PENT	1 S	2324.0	2325.0	3.0	1.2	.8		
15	200	GORK	44 NS	0311.0E		246.0D		10.0		
	204	IZMI	43 NS	0600.0		360.0	40.0			
	260	ONDR	44 NS	0706.0E		204.0D	150.0			
	127	TORN	44 NS	0740.0E						
	245	SGMR	44 NS	0944.0E	1551.6		460.0			V=2, DISTURBED
	245	PALE	44 NS	1630.0E	1735.8		210.0			QL=1 ST=3 TYP=1
	200	HIRA	44 NS	1930.0E	2005.0	830.0D	155.0	30.0		QL=6 ST=1 TYP=1
	208	VORO	44 NS	2100.0E		240.0D		46.0		SR
	245	LEAR	43 NS	2306.0	2318.1	628.0D	160.0			QL=6 ST=2 TYP=1
	2695	PENT	8 S	0017.5	0017.7	.3	2.0			
	2000	TYKW	20 GRF	0707.0	0717.0	40.0	1.0	.5		
	3750	TYKW	20 GRF	0707.0	0717.0	40.0	2.0	1.0		
	2950	GORK	1 S	0715.1	0716.8	5.8	1.2	.6		
	100	HIRA	46 C	0806.0	0806.7	3.3	275.0	57.0		
	2950	GORK	20 GRF	0840.7	0842.2	13.2	2.4	1.0		
15	200	HIRA	8 S	0841.5	0841.7	.6	250.0			WR
	930	BORD	8 S	0842.0	0842.0	.2	44.0	2.0		
	930	BORD	8 S	1003.7	1003.9	.4	29.0	2.0		

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 ⁻²² W/m ² Hz)	Mean (10 ⁻²² W/m ² Hz)		
15	2800	OTTA	20 GRF	1415.0	1420.0	55.00	2.2			
	2800	OTTA	20 GRF	1600.0	1630.0	80.0	1.6	.8		
	2800	OTTA	22 GRF	1730.0	1742.0	65.0	8.6	3.0		
	2800	OTTA	20 GRF	1922.0	1924.0	15.0	3.0	1.3		
	100	HIRA	46 C	2026.8	2027.1	1.0	900.0	150.0		WR
	2800	OTTA	240AR	2100.0	2130.0	30.0	1.6	.8		
	2800	OTTA	1 S	2125.5	2126.1	2.0	2.2	.6		
	100	HIRA	46 C	2125.7	2125.7	1.4	2600.0	710.0		WR
	1000	TYKW	45 C	2152.2	2152.5	.5	5.0	1.0		
	500	HIRA	8 S	2234.7	2235.0	.4	3.0			0
	1000	TYKW	45 C	2254.0	2254.4	3.0	7.0	1.0		
	2000	TYKW	45 C	2254.0	2255.2	3.0	4.0	1.0		
	2695	PENT	40 F	2254.0	2255.5	3.0	2.0			
16	100	GORK	44 NS	0247.0E		561.00		5.0		
	260	ONDR	44 NS	0540.0E		510.00	64.0			
	204	IZMI	44 NS	0600.0E		360.00	80.0			
	29	UPIC	43 NS	0604.0		580.0				
	33	UPIC	43 NS	0605.1		609.3				
	127	TORN	44 NS	0620.0E		190.00		26.0		V=2
	245	SGMR	44 NS	0943.0E	1248.1		150.0			QL=6 ST=1 TYP=1
	245	PALE	43 NS	1630.0	2150.1	737.00	110.0			QL=6 ST=2 TYP=1
	200	HIRA	44 NS	1930.0E	0532.0	830.00	20.0	10.0		MR
	208	VORO	44 NS	2200.0E		180.00		16.0		
	245	LEAR	43 NS	2307.0	0846.5	626.00	139.0			QL=6 ST=2 TYP=1
	3750	TYKW	5 S	0053.0	0102.0	25.0	1.0	.5		
	3750	TYKW	5 S	0150.0	0152.4	5.0	2.0	1.0		
	3750	TYKW	29 PBI	0155.0		15.0	1.0	.5		
	100	HIRA	42 SER	0429.3	0456.3	43.0	240.0			SR
	3750	TYKW	20 GRF	0445.0	0455.0	45.0	1.0	.5		
	610	LEAR	47 GB	0550.6	0550.8	.4	119.0			QL=6 ST=2 TYP=5
	3100	CRIM	3 S	0610.0	0650.5	70.0	9.0	3.0		
	3750	TYKW	21 GRF	0625.0	0701.0	110.0	5.0	2.0		
	2000	TYKW	28 PRE	0630.0	0647.0	17.0	2.0	1.0		
	2950	GORK	20 GRF	0632.4	0649.7	62.5	6.4	3.0		
	9400	TYKW	20 GRF	0633.0	0700.0	65.0	2.0	1.0		
	2840	PEKG	5 S	0645.0	0651.0	19.0	4.3	1.4		
	3750	TYKW	5 S	0646.0	0650.0	10.0	1.5	.5		
	2000	TYKW		0647.0	0650.0		4.0			
	2000	TYKW	45 C	0647.0	0701.0	33.0	5.0	3.0		
	500	HIRA	6 S	0647.3	0648.3	1.5	2.0			WL
	650	GORK	1 S	0647.8	0648.4	1.4	1.3	.6		
	2000	TYKW	29 PBI	0720.0		30.0	2.0	1.0		
	3100	CRIM	29 PBI	0720.0	0720.0	310.0	310.00	6.0		
	3100	CRIM	29 PBI	0720.0	0720.0	310.00				
	2800	OTTA	20 GRF	1540.0	1550.0	25.0	2.2	1.0		
	2800	OTTA	20 GRF	1630.0	1633.0	15.0	1.6	.8		
	2800	OTTA	20 GRF	1736.0	1759.0	35.0	3.6	1.6		
	500	HIRA	42 SER	2022.6	2029.6	8.0	125.0			MR
	245	SGMR	47 GB	2029.1	2029.6	.7	93.0			QL=5 ST=2 TYP=5
	2800	OTTA	8 S	2029.5	2029.6	.8	88.0	22.0		
	2695	PALE	47 GB	2029.6	2029.8	.5	61.0			QL=6 ST=2 TYP=5
	245	SGMR	47 GB	2150.1	2151.3	2.0	72.0			QL=6 ST=2 TYP=5
	3750	TYKW	5 S	2250.0	2253.3	10.0	1.0	.3		
	200	HIRA	46 C	2348.8	2348.9	.9	135.0	38.0		MR
17	100	GORK	44 NS	0423.0E		4.00		5.0		
	260	ONDR	44 NS	0545.0E		515.00	67.0			
	204	IZMI	44 NS	0600.0E		360.00	40.0			
	127	TORN	44 NS	0710.0E		90.00		13.0		V=1, DISTURBED
	245	SGMR	44 NS	0942.0E	1044.6	389.00	86.0			QL=2 ST=2 TYP=1
	245	PALE	43 NS	1611.0	2012.8	756.00	160.0			QL=6 ST=2 TYP=1
	245	SGMR	44 NS	2019.0E	2020.0	114.00	1.0			QL=2 ST=2 TYP=1
	208	VORO	44 NS	2100.0E		240.00		9.0		
	245	LEAR	43 NS	2307.0	0315.3	626.00	81.0			QL=6 ST=2 TYP=1
	200	HIRA	42 SER	0206.7	0206.8	4.7	95.0			MR
	200	HIRA	42 SER	0306.8	0311.7	6.3	200.0			MR
	3750	TYKW	21 GRF	0330.0	0405.0	90.0	2.0	1.0		
	3750	TYKW	5 S	0410.0	0413.0	20.0	1.0	.5		
	2000	TYKW	20 GRF	0410.0	0420.0	55.0	1.0	.5		
	3750	TYKW	5 S	0434.0	0436.0	20.0	1.0	.5		

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
17	410	LEAR	8 S	0502.8	0502.8	.2	22.0			QL=6 ST=2 TYP=3
	245	LEAR	8 S	0503.1	0503.8	.9	40.0			QL=6 ST=2 TYP=3
	9300	KISV	2 S/F	0620.9	0621.7	1.5	12.0			
	930	BORD	8 S	1015.0	1015.4	.6	20.0	3.0		
	2800	OTTA	20 GRF	1225.0	1230.0	55.0	3.0	1.7		
	930	BORD	41 F	1403.9	1404.0	.4	20.0	2.0		
	2800	OTTA	20 GRF	1415.0	1420.0	50.00	3.6			
	2800	OTTA	2 S/F	1851.0	1852.5	6.0	3.0	1.5		
	245	SGMR	47 GB	2012.3	2012.8	2.5	93.0			QL=2 ST=2 TYP=5
18	2800	OTTA	1 S	2235.0	2236.0	4.0	1.0	.5		
	260	ONDR	44 NS	0529.0E	0846.0	523.00	31.0			
	204	IZMI	43 NS	0600.0		180.0	20.0			
	33	UPIC	43 NS	0633.5		635.3				
	29	UPIC	43 NS	0634.4		634.1				
	536	ONDR	43 NS	0800.0	0826.0	120.0	15.0			
	245	PALE	44 NS	1611.0E	0041.8	634.00	77.0			QL=6 ST=1 TYP=1
	3750	TYKW	21 GRF	0220.0U	0245.0U	90.0U	1.0	.5U		INTERFERENCE
	2000	TYKW	21 GRF	0225.0	0240.0	75.0	1.5	.7		
19	3750	TYKW	5 S	0233.0	0235.7	8.0	1.5	.5		
	2000	TYKW	5 S	0234.0	0236.3	5.0	1.0	.3		
	3750	TYKW	45 C	0320.0	0320.5	3.0	1.0	.3		
	2000	TYKW	45 C	0321.0	0326.1	9.0	1.5	.5		
	3750	TYKW	45 C	0325.0	0328.2	7.0	1.0	.3		
	3750	TYKW	20 GRF	0402.0	0403.0	30.0	2.0	1.0		
	2000	TYKW	20 GRF	0402.0	0404.0	30.0	1.0	.5		
	3750	TYKW	5 S	0546.0	0549.0	8.0	2.0	.7		
	1000	TYKW	45 C	0628.5	0629.6	2.0	2.0	.5		
20	2950	GORK	20 GRF	0756.5	0758.0	13.7	1.6	.5		
	2000	TYKW	5 S	0757.0	0758.3	6.0	1.0	.3		
	3750	TYKW	5 S	0757.4	0758.2	2.0	2.0	.7		
	2800	OTTA	21 GRF	1450.0	1502.0	65.0	7.2	2.6		
	2800	OTTA	1 S	1455.8	1457.5	3.5	5.4	2.7		
	2800	OTTA	23 GRF	1755.0	1845.0	80.0	3.2	1.5		
	2800	OTTA	20 GRF	1825.0	1829.0	15.0	6.6	2.2		
	2800	OTTA	20 GRF	1954.0	1957.0	18.0	1.6	1.0		
	2800	OTTA	20 GRF	2115.0	2125.0	35.0	2.4	1.6		
21	2000	TYKW	20 GRF	2118.0	2125.0	35.0	1.5	.7		
	3750	TYKW	20 GRF	2121.0	2123.0	35.0	2.0	1.0		
	245	LEAR	43 NS	0206.5	0322.0	445.50	39.0			QL=6 ST=2 TYP=1
	260	ONDR	44 NS	0543.0E	1352.5	508.00	16.0			
	245	LEAR	47 GB	0041.8	0042.0	.5	56.0			QL=6 ST=2 TYP=5
	200	HIRA	8 S	0042.0	0042.1	.5	94.0			0
	3750	TYKW	45 C	0319.0	0324.5	10.0	2.0	1.0		
	245	PALE	47 GB	0321.8	0322.0	.3	53.0			QL=6 ST=2 TYP=5
	3750	TYKW	29 PBI	0329.0		20.0	1.0	.5		
22	3750	TYKW	5 S	0407.0	0407.4	3.0	3.0	.7		
	2800	OTTA	20 GRF	1135.0	1138.0	30.0	4.0	1.3		
	2800	OTTA	20 GRF	1320.0	1435.0	100.0	2.0	1.0		
	2800	OTTA	21 GRF	1520.0	1545.0	100.0	4.0	2.0		
	930	BORD	46 C	1527.0	1529.0	5.0	21.0	6.0		
	2800	OTTA	22 GRF	1527.5	1529.0	15.0	12.2	4.4		
	245	SGMR	47 GB	1527.8	1528.3	2.8	219.0			QL=1 ST=2 TYP=5
	2695	SGMR	8 S	1528.6	1529.5	1.0	11.0			QL=1 ST=2 TYP=3
	1415	SGMR	8 S	1528.8	1529.0	.3	17.0			QL=1 ST=2 TYP=3
23	2800	OTTA	23 GRF	1710.0	1735.0	75.0	8.0	2.7		
	930	BORD	41 F	1713.0	1733.8	25.0	26.0	5.0		
	2800	OTTA	2 S/F	1717.0	1718.8	5.0	6.2	3.0		
	245	PALE	47 GB	1719.0	1719.1	.3	200.0			QL=6 ST=2 TYP=5
	2800	OTTA	4 S/F	1731.0	1733.0	5.0	16.0	5.6		
	410	SGMR	4 S/F	1732.0	1734.0	2.8	37.0			QL=1 ST=3 TYP=3
	410	PALE	47 GB	1732.0	1734.0	2.6	63.0			QL=6 ST=2 TYP=5
	245	SGMR	4 S/F	1732.1	1733.0	3.7	37.0			QL=1 ST=3 TYP=3
	610	PALE	47 GB	1732.1	1733.1	1.5	59.0			QL=6 ST=2 TYP=5
24	610	SGMR	8 S	1732.3	1733.1	1.3	36.0			QL=1 ST=3 TYP=3
	2695	PALE	8 S	1732.6	1732.8	.7	26.0			QL=6 ST=2 TYP=3
	245	PALE	47 GB	1733.0	1734.0	1.6	61.0			QL=6 ST=2 TYP=5
	100	HIRA	42 SER	1939.0	1940.2	2.0	8500.0			WL
	200	HIRA	46 C	1939.4	1940.0	1.0	1600.0	150.0		0
	500	HIRA	42 SER	2046.4	2054.4	16.0	35.0			WL

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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 (10 ⁻²² W/m ² Hz)		
19	410	PALE	47 GB	2046.6	2047.3	.7	90.0			QL=6 ST=2 TYP=5
	2800	OTTA	1 S	2052.0	2052.5	2.5	3.4	1.2		
	410	PALE	49 GB	2052.0	2052.1	1.0	600.0			
	500	HIRA	6 S	2220.5	2221.1	1.0	600.0	100.0		
	2695	PENT	20 GRF	2238.0	2244.0	20.0	1.4	.7		
	3750	TYKW	5 S	2242.5	2243.2	4.0	1.0	.3		
20	260	ONDR	44 NS	0550.0E	0832.0	496.0D	250.0			WR
	500	HIRA	8 S	0006.3	0006.4	.1	300.0			
	3750	TYKW	5 S	0329.0	0330.0	7.0	1.0	.3		
	3750	TYKW	5 S	0625.0	0625.8	2.0	2.0	.5		0
	2840	PEKG	1 S	0625.0	0626.0	2.0	3.4	1.6		
	2950	GORK	1 S	0625.6	0625.7	1.2	1.6	.8		
	2000	TYKW	5 S	0625.6	0625.8	0.7	2.0	.7		0
	200	HIRA	41 F	0831.7	0832.4	1.0	590.0			
	204	IZMI	41 F	0832.0	0833.0	2.0	600.0			
	245	LEAR	49 GB	0832.3	0832.6	.8	720.0			QL=6 ST=2 TYP=6
	100	HIRA	8 S	0832.3	0832.6	.5	90.0			
	536	ONDR	8 S	0832.5	0832.5	.5	39.0			
	500	HIRA	8 S	0832.5	0832.6	.3	110.0			WR
	410	LEAR	47 GB	0832.6	0832.6	.5	230.0			
	536	ONDR	8 S	0941.5	0941.5	.5	34.0			
	536	ONDR	40 F	1028.5	1029.5	1.3	51.0			QL=6 ST=2 TYP=5
	536	ONDR	8 S	1210.3	1213.0	2.7	4.0			
	2800	OTTA	23 GRF	1400.0	1415.0	75.0	3.0	1.5		
	2695	PENT	1 S	1403.0	1404.0	4.0	1.6	.8		0
	2800	OTTA	20 GRF	1920.0	1930.0	30.0	3.6	1.2		
	500	HIRA	8 S	2325.2	2325.2	.3	26.0			
21	260	ONDR	44 NS	0550.0E		500.0D	11.0			0
	33	UPIC	43 NS	0700.0	1128.5	364.8				
	29	UPIC	43 NS	0700.0	1129.0	365.3				
	3750	TYKW	45 C	0003.0E	0007.2	5.0D	2.0	1.0D		0
	3750	TYKW	30 PBI	0008.0		25.0	1.0	.5		
	3750	TYKW	5 S	0010.0	0011.9	5.0	6.0	2.0		
	500	HIRA	6 S	0011.4	0011.7	2.0	3.0	1.0		0
	1000	TYKW	45 C	0011.5	0011.6	1.5	5.0	1.0		
	3750	TYKW	5 S	0017.0	0018.7	5.0	1.5	.5		
	3750	TYKW	20 GRF	0057.0	0101.0	35.0	1.5	.7		0
	2000	TYKW	5 S	0100.0	0101.0	15.0	1.0	.5		
	3750	TYKW	28 PRE	0350.0	0405.0	18.0	2.0	1.0		
	2950	GORK	21 GRF	0352.3	0424.5	98.0D	10.4			QL=1 ST=3 TYP=3
	2840	PEKG	46 C	0401.0	0416.8		29.9	11.2		
	2840	PEKG		0401.0	0417.3	28.0	41.8			
	9400	TYKW	20 GRF	0405.0	0426.0	70.0	5.0	2.0		QL=1 ST=3 TYP=3
	2000	TYKW	45 C	0407.0	0411.7	43.0	30.0	5.0		
	2000	TYKW		0407.0	0417.3		20.0			
	3750	TYKW	45 C	0408.0	0416.8	42.0	21.0	8.0		QL=1 ST=3 TYP=3
	1000	TYKW	45 C	0410.0	0415.4	14.0	83.0	5.0		
	4995	ATHN	4 S/F	0410.0	0415.0	9.0	7.0			
	1415	ATHN	4 S/F	0410.0	0416.0	9.0	18.0			0
	2695	ATHN	4 S/F	0410.0	0417.0	9.0	13.0			
	200	HIRA	42 SER	0410.5	0411.7	3.1	570.0			
	100	GORK	41 F	0410.6	0411.7	21.4	50.0D			0
	100	GORK		0410.6	0418.3		40.0			
	100	GORK		0410.6	0446.0		30.0			
	2950	GORK	45 C	0410.7	0411.6	7.6	8.4			WL
	950	GORK		0410.7	0415.3		10.4			
	2950	GORK		0410.7	0417.3		16.9			
	500	HIRA	41 F	0410.9	0413.2	17.0	23.0	4.0		QL=6 ST=2 TYP=5
	650	GORK	23 GRF	0410.9	0416.0	23.4	9.0			
	950	GORK	46 C	0411.0	0415.3	12.6	114.0			
	950	GORK		0411.0	0415.8		44.0			QL=6 ST=2 TYP=3
	245	PALE	47 GB	0411.1	0411.6	1.5	180.0			
	410	PALE	8 S	0411.5	0411.6	.3	49.0			
	650	GORK	46 C	0412.5	0413.3	2.0	15.0			QL=6 ST=2 TYP=3
	650	GORK		0412.5	0414.1		22.0			
	2695	PALE	4 S/F	0413.6	0415.3	3.4	22.0			
	1415	PALE	8 S	0415.1	0415.3	.5	22.0			QL=6 ST=2 TYP=3
	4995	LEAR	8 S	0416.6E	0416.8	.4D	11.0			
	1415	LEAR	8 S	0416.6E	0416.8	.5D	27.0			

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

MAY 1985

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)		
21	2695	LEAR	20 GRF	0416.6E	0417.1	2.4D	41.0			
	245	LEAR	8 S	0417.1E	0418.1	1.4D	45.0			QL=6 ST=2 TYP=2
	2950	GORK	1 S	0418.8	0423.0	5.0	3.5			QL=6 ST=2 TYP=3
	1000	TYKW	29 PBI	0424.0		30.0	2.0	1.0		
	2840	PEKG	29 PBI	0429.0	0433.0	61.0	9.9	5.9		
	2000	TYKW	29 PBI	0450.0		50.0	2.0	1.0		
	3750	TYKW	29 PBI	0450.0		50.0	3.0	1.5		
	204	IZMI	8 S	0654.4	0654.5	.2	74.0	50.0		
	204	IZMI	41 F	0831.0	0833.4	10.0	200.0			
	245	LEAR	47 GB	0833.1	0833.1	2.0	150.0			QL=6 ST=2 TYP=5
	410	LEAR	8 S	0833.1	0833.3	.5	42.0			QL=6 ST=2 TYP=3
	2950	GORK	1 S	0833.1	0837.0	6.7	1.6	.8		
	500	HIRA	42 SER	0838.8	0841.6	3.6	6.0			WR
	204	IZMI	42 SER	0915.0	0918.0	8.0	130.0			
	245	LEAR	47 GB	0917.3	0917.5	.5	310.0			QL=6 ST=2 TYP=5
	204	IZMI	42 SER	0949.0	1010.0	23.0	240.0			
	33	UPIC	48 C	0951.7	0954.1	23.8				
	245	SGMR	49 GB	0951.8	0954.1	5.3	2199.0			QL=6 ST=3 TYP=6
	3100	CRIM	3 S	0952.0	0954.0	6.0	43.0	11.0		
	29	UPIC	48 C	0952.2	0954.4	23.8				
	2950	GORK	4 S/F	0952.4	0954.3	6.7	51.0	7.0		
	930	BORD	3 S	0953.0	0954.7	7.0	53.0	13.0		
	1415	ATHN	47 GB	0953.0	0954.1	3.0	82.0			QL=6 ST=2 TYP=5
	536	ONDR	46 C	0953.0	0954.5	3.0	181.0			
	808	ONDR	45 C	0953.0	0955.0	3.0				
	2695	ATHN	4 S/F	0953.1	0953.8	2.2	38.0			QL=6 ST=2 TYP=3
	4995	ATHN	47 GB	0953.1	0954.0	2.9	100.0			QL=6 ST=2 TYP=5
	950	GORK	4 S/F	0953.2	0954.4	2.5	43.0			
	8800	ATHN	47 GB	0953.3	0954.3	2.2	110.0			QL=6 ST=2 TYP=5
	9100	GORK	4 S/F	0953.3	0954.4	1.6	147.0	47.0		
	650	GORK	4 S/F	0953.3	0954.7U	6.4	48.0D			
	3000	IZMI	5 S	0953.5	0955.0	5.0	65.0	30.0		
	410	SGMR	47 GB	0953.6	0955.1	2.2	139.0			QL=6 ST=3 TYP=5
	1415	SGMR	8 S	0954.1	0954.5	1.0	41.0			QL=6 ST=3 TYP=3
	610	SGMR	47 GB	0954.1	0954.8	1.5	63.0			QL=6 ST=3 TYP=5
	9100	GORK	29 PBI	0954.8	0954.8	6.5	9.0			
	950	GORK	29 PBI	0955.7	0955.8	16.4	9.4			
	536	ONDR	29 PBI	0956.0	0957.5	5.0	20.0	5.0		
	204	IZMI	41 F	1128.0	1129.5	3.0	750.0	4.1		
	245	SGMR	49 GB	1128.3	1128.3	1.0	820.0			QL=6 ST=3 TYP=6
	245	SGMR	8 S	1206.8	1207.0	.5	28.0			QL=1 ST=2 TYP=3
	8800	SGMR	47 GB	1224.3	1224.3	.3	350.0			QL=6 ST=3 TYP=5
	245	SGMR	47 GB	1412.5	1413.3	1.1	57.0			QL=6 ST=2 TYP=5
	2800	OTTA	20 GRF	1610.0	1710.0	110.0	1.6	.8		
	245	SGMR	8 S	1613.8	1614.1	.5	40.0			QL=6 ST=2 TYP=3
	2800	OTTA	1 S	1849.0	1850.9	5.0	6.8	1.7		
	245	SGMR	49 GB	1849.1	1850.8	2.2	1100.0			QL=6 ST=3 TYP=6
	1415	SGMR	8 S	1850.0	1850.8	1.3	10.0			QL=6 ST=3 TYP=3
	610	SGMR	4 S/F	1850.1	1851.0	2.7	13.0			QL=6 ST=3 TYP=3
	410	SGMR	8 S	1850.6	1850.6	.2	21.0			QL=6 ST=3 TYP=3
	200	HIRA	42 SER	2126.2	2129.3	4.6	205.0			WR
	3750	TYKW	20 GRF	2145.0	2155.0	45.0	1.0	.5		
	2000	TYKW	20 GRF	2145.0	2155.0	45.0	1.0	.5		
	2800	OTTA	20 GRF	2145.0	2155.0	40.0	1.6	.8		
	100	HIRA	42 SER	2209.0	2219.4	12.0	1300.0			WL
	200	HIRA	8 S	2219.3	2219.4	.6	340.0			WR
22	100	GORK	4 S/F	0547.2	0549.2	4.9	85.0			
	200	HIRA	42 SER	0547.4	0548.8	4.3	570.0			WR
	650	GORK	1 S	0547.6	0549.3	2.9	1.3			
	245	LEAR	8 S	0548.3	0549.1	1.3	28.0			QL=6 ST=2 TYP=3
	100	HIRA	46 C	0548.4	0548.8	1.7	1100.0	295.0		0
	2000	TYKW	5 S	0548.5	0549.3	2.5	5.0	1.5		
	33	UPIC	45 C	0548.8	0549.0	2.0				
	3750	TYKW	5 S	0548.8	0549.3	1.5	3.0	1.0		
	2840	PEKG	1 S	0549.0	0549.1	2.0	7.3	2.4		
	9395	PEKG	3 S	0549.0	0549.2	2.0	33.7	8.7		
	1000	TYKW	5 S	0549.0	0549.4	1.5	1.5	.5		
	29	UPIC	45 C	0549.2	0549.3	1.2				
	950	GORK	1 S	0549.2	0549.4	.5	1.0			
	2000	TYKW	29 PBI	0551.0		10.0	1.0	.5		

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
22	2950	GORK	3 S	0551.7	0552.2	1.2	4.5	2.0		
	2950	GORK	29 PBI	0552.9	0553.0	21.9	1.3	.6		
	410	LEAR	8 S	0608.8	0609.0	.3	37.0			QL=6 ST=2 TYP=3
	204	IZMI	8 S	0609.0	0609.2	.2	120.0	100.0		
	9300	KISV	2 S/F	0625.7	0626.2	1.0	25.0			
	260	ONDR	40 F	0722.5	0723.0	1.0	32.0			
	204	IZMI	41 F	0727.5	0728.0	1.5	100.0			
	204	IZMI	41 F	0806.0	0806.1	1.0	250.00			
	260	ONDR	40 F	0831.0	0831.0	5.5	3.0			
	930	BORD	8 S	0944.0	0944.0	.6	23.0	3.0		
	260	ONDR	46 C	1011.0	1011.5	1.0	3.0			
	204	IZMI	5 S	1016.5	1017.0	1.5	40.0	20.0		
	260	ONDR	40 F	1044.0	1046.5	9.0	11.0			
	2800	OTTA	1 S	1244.0	1245.5	4.0	1.8	.8		
	536	ONDR	46 C	1244.0		4.0				
	536	ONDR		1244.0	1245.0		42.0			
	536	ONDR		1244.0	1247.3		12.0			
	808	ONDR	46 C	1244.2		1.5				
	808	ONDR		1244.2	1245.0					
	930	BORD	46 C	1244.2	1245.5	4.3	22.0	5.0		
	808	ONDR		1244.2	1245.5					
	610	SGMR	47 GB	1244.5	1245.6	4.3	85.0			QL=6 ST=2 TYP=5
	2800	OTTA	20 GRF	1655.0	1710.0	65.0	4.6	1.6		
	245	PALE	49 GB	1720.8	1721.0	.7	510.0			QL=6 ST=2 TYP=6
	245	SGMR	47 GB	1720.8	1721.0	.8	270.0			QL=6 ST=2 TYP=5
	930	BORD	41 F	1808.3	1808.4	.4	12.0	2.0		
	2000	TYKW	5 S	2233.0	2238.0	20.0	1.0	.5		
	3750	TYKW	45 C	2235.0	2237.3	4.0	3.0	1.5		
	2800	OTTA	22 GRF	2235.0	2238.0	25.0	3.0	1.3		
	200	HIRA	42 SER	2237.0	2237.5	5.8	990.00			0
	245	SGMR	47 GB	2237.5	2237.6	.3	280.0			QL=6 ST=3 TYP=5
	245	PALE	47 GB	2237.5	2237.6	.3	210.0			QL=6 ST=2 TYP=5
	3750	TYKW	29 PBI	2239.0		15.0	1.5	.7		
	100	HIRA	8 S	2334.7	2334.7	.6	3200.0			WR
23	500	HIRA	8 S	0042.3	0042.4	.3	6.0			WR
	200	HIRA	41 F	0136.7	0137.5	2.0	120.0			MR
	500	HIRA	8 S	0144.4	0144.6	.2	4.0			WR
	3750	TYKW	21 GRF	0150.0	0201.0	100.0	3.0	1.5		
	2000	TYKW	21 GRF	0155.0	0203.0	100.0	2.0	1.0		
	1000	TYKW	21 GRF	0155.0	0210.0	75.0	1.0	.5		
	200	HIRA	42 SER	0201.0	0202.0	23.3	50.0			WR
	245	LEAR	47 GB	0201.8	0202.0	.3	119.0			QL=6 ST=2 TYP=5
	3750	TYKW	45 C	0217.5	0222.0	30.0	13.0	4.0		
	2000	TYKW	45 C	0218.0	0222.2	12.0	5.0	1.5		
	500	HIRA	42 SER	0220.3	0222.7	7.2	17.0			WR
	1000	TYKW	45 C	0220.5	0222.9	3.0	4.0	1.0		
	2695	LEAR	8 S	0221.3	0222.1	1.2	18.0			QL=6 ST=2 TYP=3
	610	LEAR	8 S	0222.6	0222.8	.5	22.0			QL=6 ST=2 TYP=3
	1000	TYKW	45 C	0224.5	0225.7	2.5	8.0	1.5		
	610	LEAR	8 S	0225.5	0225.6	.3	23.0			QL=6 ST=2 TYP=3
	2000	TYKW	29 PBI	0230.0		20.0	1.0	.5		
	500	HIRA	9 S	0237.6	0238.0	1.0	4.0	2.0		WL
	245	LEAR	8 S	0237.8	0238.1	.8	26.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0238.1	0238.3	.2	8.0			QL=6 ST=2 TYP=3
	610	LEAR	8 S	0240.8	0241.0	.3				QL=6 ST=2 TYP=3
	2000	TYKW	5 S	0256.0	0257.9	4.0	4.0	1.5		
	3750	TYKW	45 C	0256.5E	0258.1	3.50	8.0	3.00		
	245	LEAR	4 S/F	0256.8	0257.8	2.2	23.0			QL=6 ST=2 TYP=3
	2000	TYKW	29 PBI	0300.0		5.0	1.0	.5		
	650	GORK	21 GRF	0332.3	0339.0	17.3	1.5			
	200	HIRA	41 F	0335.7	0339.1	8.1	290.0			WR
	100	HIRA	41 F	0336.8	0337.8	7.1	185.0			WR
	245	LEAR	47 GB	0336.8	0339.8	3.5	290.0			QL=6 ST=2 TYP=5
	500	HIRA	42 SER	0337.0	0342.1	5.6	8.0			WR
	650	GORK	46 C	0339.9	0340.0	3.1	8.0			
	650	GORK		0339.9	0342.7		14.0			
	410	LEAR	8 S	0342.0	0342.1	.3	29.0			QL=6 ST=2 TYP=3
	500	HIRA	8 S	0416.8	0416.9	.1	8.0			WR
	245	LEAR	47 GB	0547.8	0548.0	.5	239.0			QL=6 ST=2 TYP=5
	3750	TYKW	20 GRF	0620.0	0634.0	70.0	2.0	1.0		

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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 ⁻²² W/m ² Hz)	Mean (2 Hz)		
23	260	ONDR	40 F	0620.0	0621.5	2.0	2.0			
	2000	TYKW	5 S	0624.0	0631.0	15.0	3.0	1.5		
	3100	CRIM	3 S	0625.0	0633.0	14.0	6.0	2.0		
	2950	GORK	20 GRF	0625.1	0633.0	62.0	3.6	1.7		
	2000	TYKW	29 PBI	0639.0		25.0	1.5	.7		
	3100	CRIM	29 PBI	0639.0	0639.0	81.0	4.0	1.0		
	3100	CRIM	26 FAL	0650.0	1100.0	250.0	5.0	2.0		
	204	IZMI	41 F	0735.5	0736.3	1.5	120.0			
	200	HIRA	42 SER	0814.5	0815.0	2.7	67.0			
	260	ONDR	46 C	0814.5	0815.5	2.5	19.0			0
	204	IZMI	41 F	0814.8	0815.2	3.5	67.0			
	260	ONDR	40 F	1025.5	1025.5	.3	3.0			
	260	ONDR	40 F	1249.3	1250.5	1.5	6.0			
24	260	ONDR	40 F	1320.0	1329.3	10.0	3.0			
	410	SGMR	47 GB	1359.6	1359.8	.5	70.0			QL=6 ST=2 TYP=5
	500	HIRA	42 SER	0012.4	0013.0	1.3	42.0			MR
	410	LEAR	8 S	0012.6	0012.6	.2	28.0			QL=6 ST=2 TYP=3
	245	LEAR	47 GB	0012.6	0012.6	.2	90.0			QL=6 ST=2 TYP=5
	2000	TYKW	20 GRF	0700.0	0724.0	60.0	2.0	1.0		
	3750	TYKW	45 C	0716.0	0719.4	8.0	3.0	1.0		
	3100	CRIM	1 S	0716.0	0719.2	20.0	4.0	2.0		
	2950	GORK	20 GRF	0717.4	0719.6	16.3	5.8	2.7		
	3750	TYKW	29 PBI	0724.0		30.0	1.0	.5		
	3100	CRIM	26 FAL	0736.0	1140.0	244.00	6.0			
	650	GORK	1 S	0842.5	0844.3	2.4	4.0			
	260	ONDR	40 F	0850.0	0855.5	6.0	6.0			
25	3100	CRIM	1 S	0852.4	0854.5	4.0	2.0	1.0		
	2950	GORK	1 S	0852.9	0854.3	3.4	1.4	.7		
	260	ONDR	8 S	1007.0	1007.0	.2	4.0			
	260	ONDR	42 SER	1059.0	1108.5	10.0	2.0			
	2800	OTTA	20 GRF	1100.0	1110.0	50.0	1.8	.6		
	3100	CRIM	1 S	1102.5	1108.5	6.0	3.0	1.0		
	650	GORK	2 S/F	1104.1	1104.3	.6	8.0			
	2950	GORK	20 GRF	1105.0	1109.0	25.3	2.4	1.2		
	650	GORK	4 S/F	1106.3	1108.5	3.1	12.0	1.5		
	950	GORK	1 S	1107.8	1108.8	1.2	2.0			
	245	SGMR	47 GB	1308.6	1309.1	.9	139.0			QL=6 ST=2 TYP=5
	245	SGMR	47 GB	1319.8	1320.0	.5	82.0			QL=6 ST=2 TYP=5
	245	SGMR	47 GB	1536.8	1537.0	.5	84.0			QL=6 ST=2 TYP=5
26	2800	OTTA	23 GRF	1220.0	1235.0	190.0	5.0	2.0		
	260	ONDR	40 F	1229.5	1230.6	2.0	11.0			
	2800	OTTA	2 S/F	1229.7	1230.8	2.5	3.8	1.8		
	2800	OTTA	1 S	1238.0	1240.5	4.0	2.0	1.0		
	536	ONDR	40 F	1238.5	1241.5	3.0	13.0			
	260	ONDR	40 F	1238.8	1240.3	4.0	20.0			
	260	ONDR	40 F	1305.0	1307.3	4.0	4.0			
	536	ONDR	40 F	1308.7	1308.7	3.0	9.0			
	2800	OTTA	1 S	1309.0	1312.0	6.0	1.8	0.0		
	610	SGMR	47 GB	1346.6	1348.0	13.5	63.0			QL=6 ST=2 TYP=5
27	930	BORD	40 F	1349.0	1351.7	4.0	10.0	4.0		
	2800	OTTA	20 GRF	1925.0	1933.0	25.0	2.0	1.0		
	260	ONDR	43 NS	1125.0	1129.5	15.0	6.0			
	536	ONDR	43 NS	1123.5	1153.7	30.5	21.0			
	536	ONDR	42 SER	1043.5	1044.0	11.0	13.0			
	536	ONDR	40 F	1101.0	1108.5	12.0	9.0			
28	33	UPIC	3 S	1156.4	1156.6	.5				
	29	UPIC	1 S	1156.6	1156.8	.6				
	610	SGMR	8 S	1249.0	1249.3	.6	38.0			QL=6 ST=2 TYP=3
	610	SGMR	47 GB	1252.6	1253.3	6.5	69.0			QL=6 ST=2 TYP=5
	536	ONDR	8 S	0936.8	0936.8	.2	33.0			
	930	BORD	8 S	1011.6	1011.8	.4	13.0	3.0		
29	204	IZMI	5 S	1020.0	1020.3	.5	86.0	43.0		
	204	IZMI	5 S	1027.0	1027.5	1.0	230.0	115.0		
	930	BORD	8 S	1503.7	1503.9	.3	31.0	2.0		
	930	BORD	41 F	1653.6	1653.8	.4	18.0	4.0		
	245	SGMR	47 GB	2307.8	2307.8	.3	79.0			QL=6 ST=2 TYP=5

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

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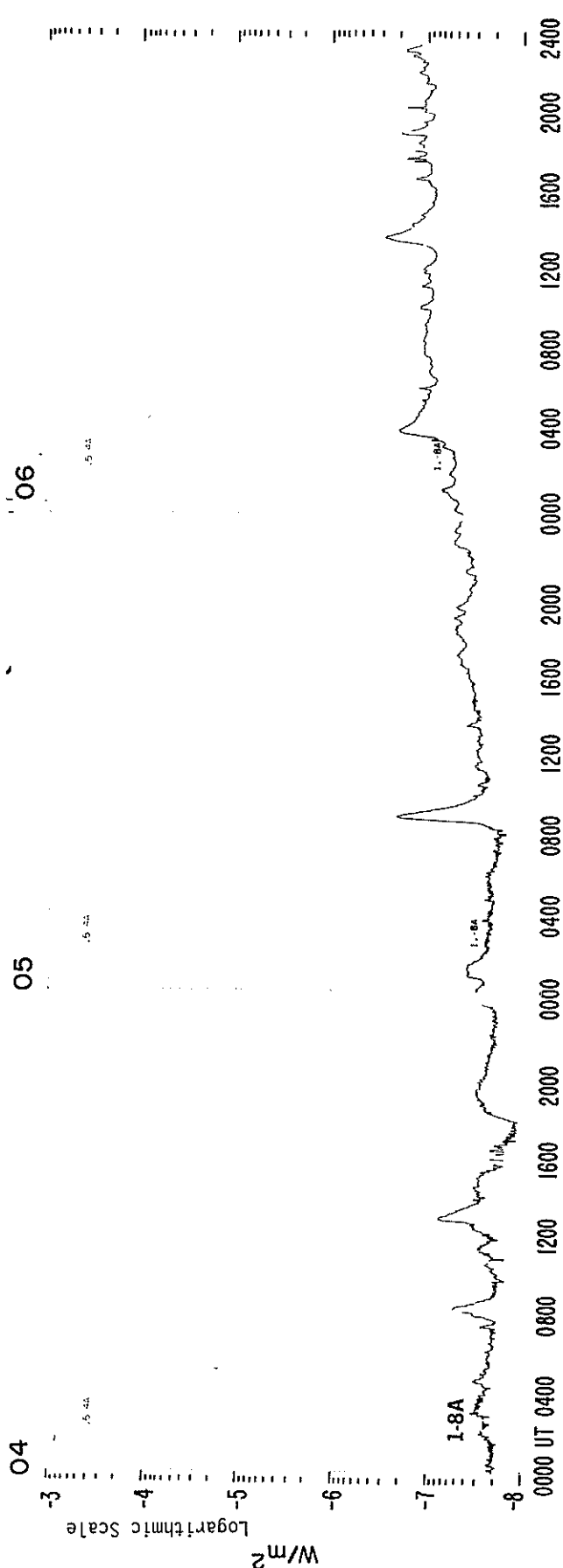
Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)	Int	Remarks
29	930 BORD	8 S	1012.5	1012.7	.4	24.0	3.0		
30	930 BORD	41 F	1705.8	1705.8	.4	18.0	3.0		
31	260 ONDR	46 C	0826.0	0826.3	1.2	7.0			
	3750 TYKW	32 ABS	2112.0	2130.0	50.0	-2.0	-1.0		

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 = Palehua	TYKW = Toyokawa
GORK = Gorky	LEAR = Learmonth	PEKG = Peking	TRST = Trieste
HIRA = Hiraiso	MANI = Manila	PENT = Penticton	UPIC = Upice

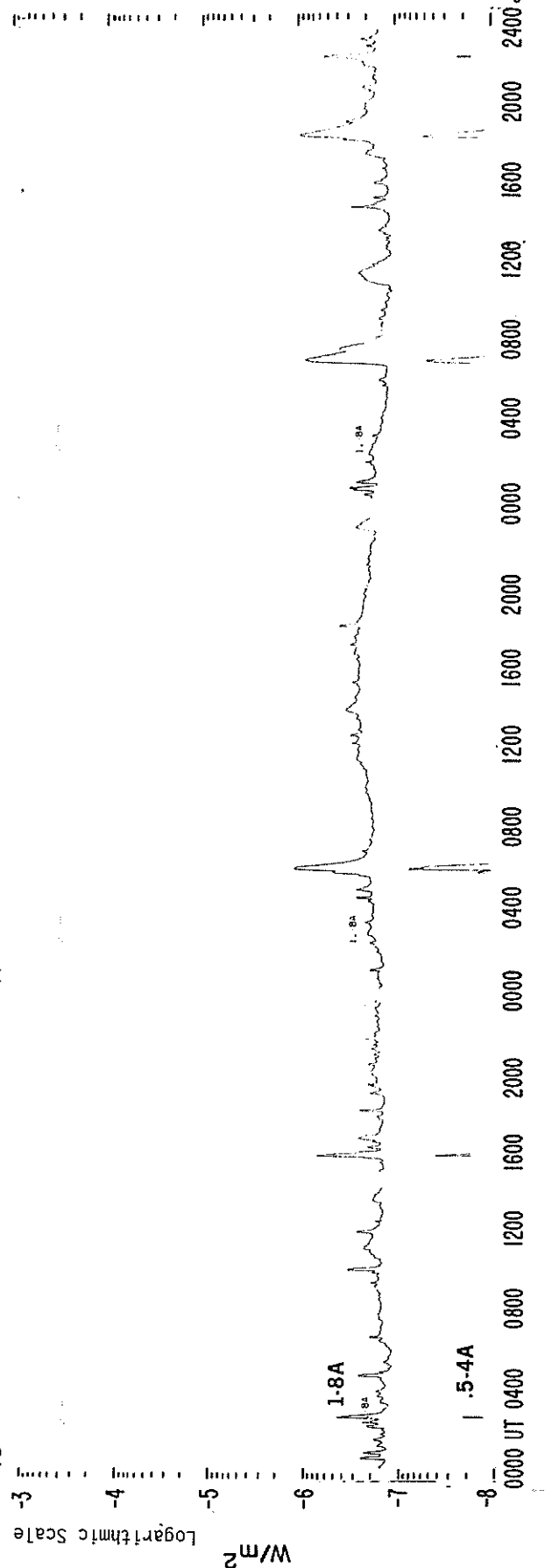
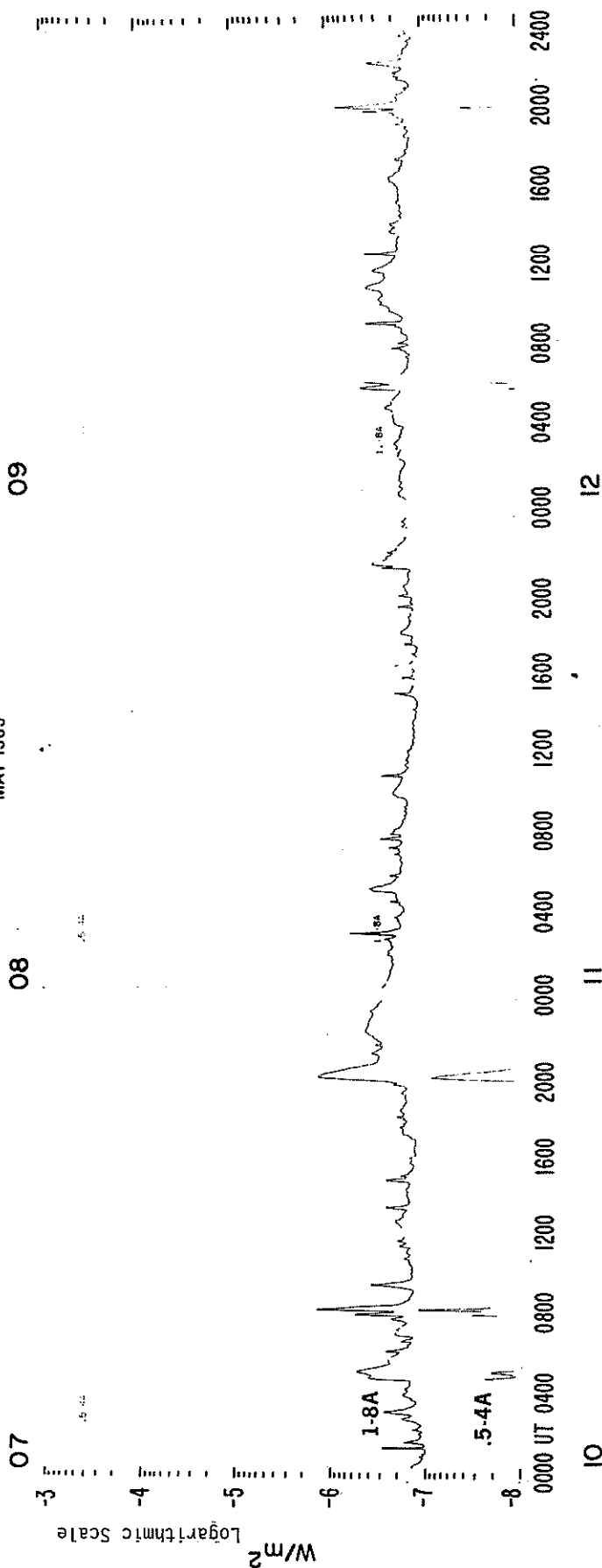
Explanation of Type Code:

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



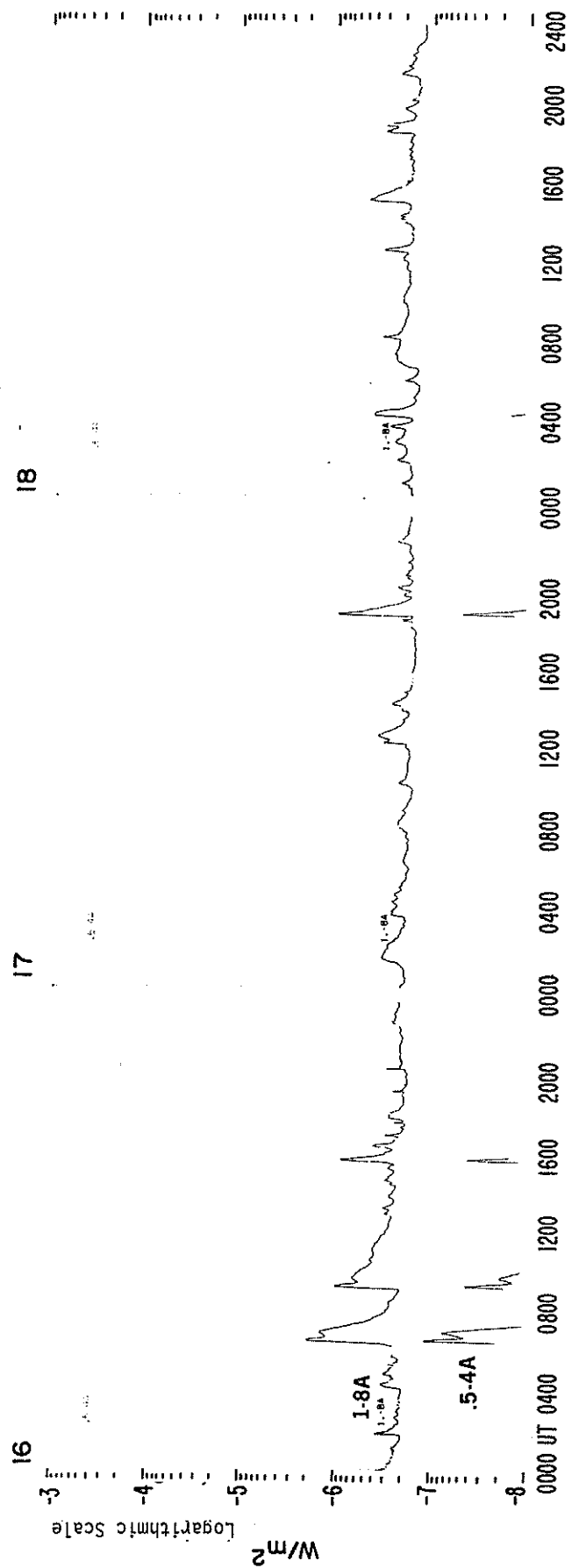
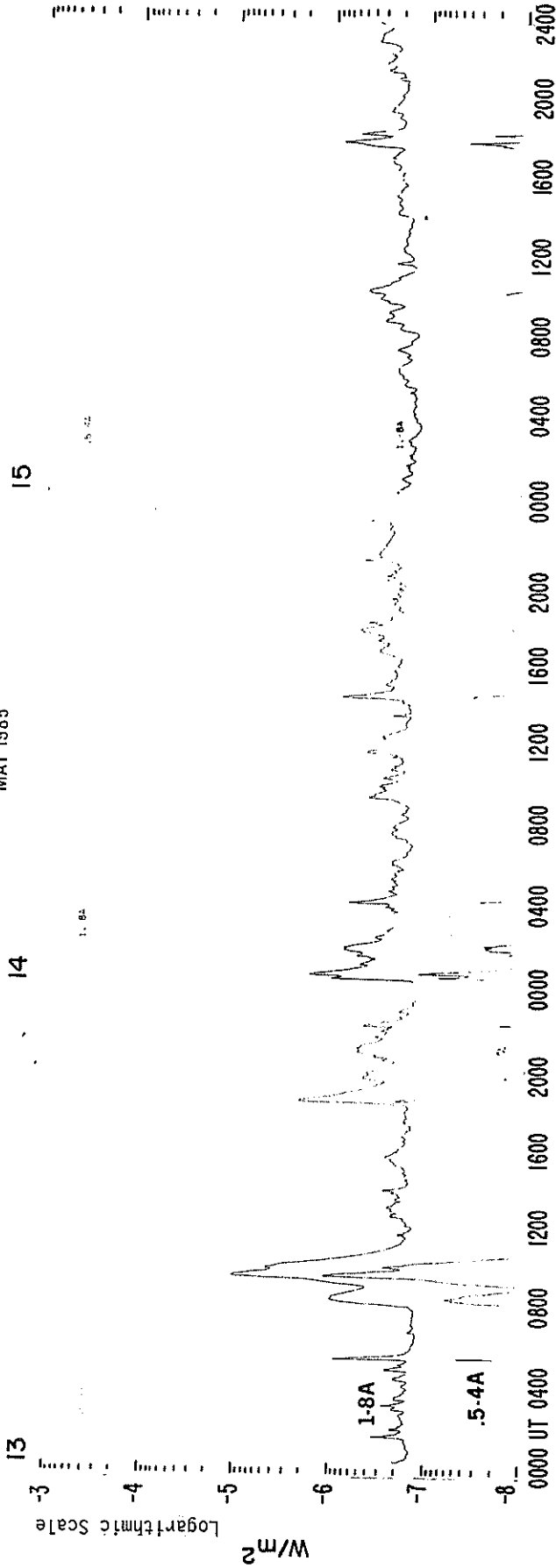
GOES 6 X-RAYS

MAY 1985



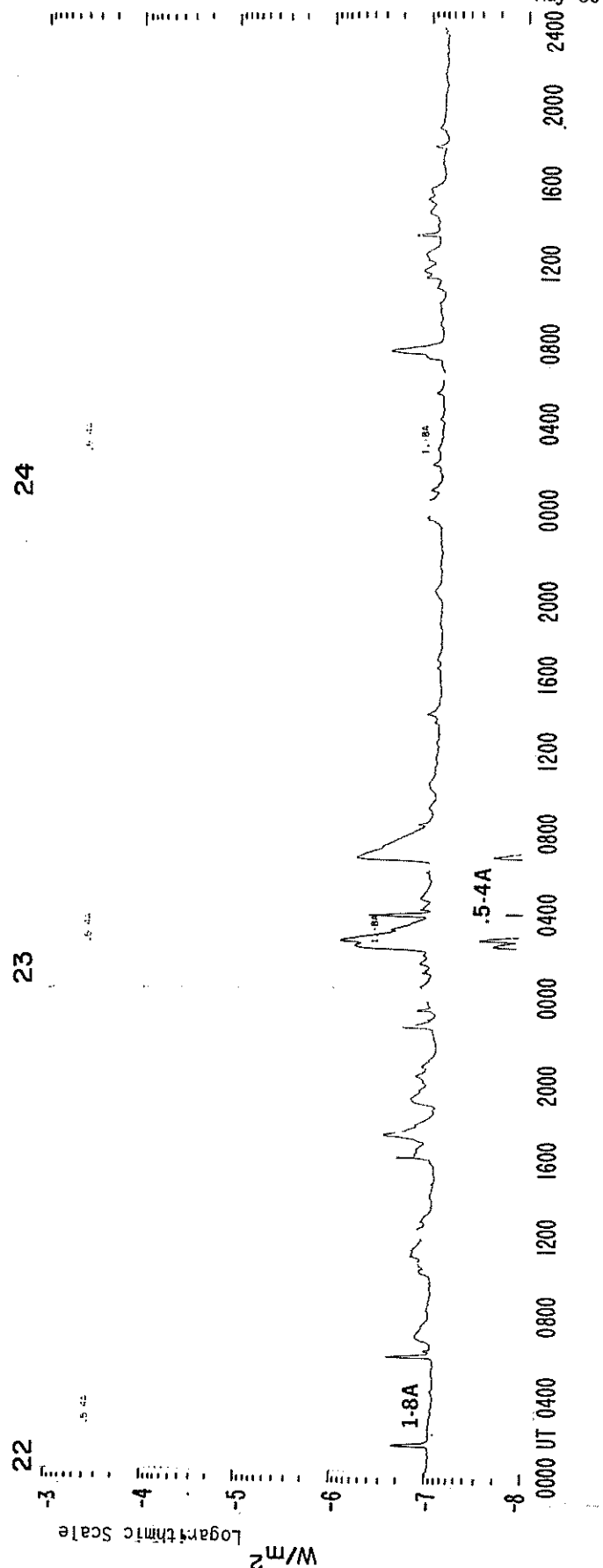
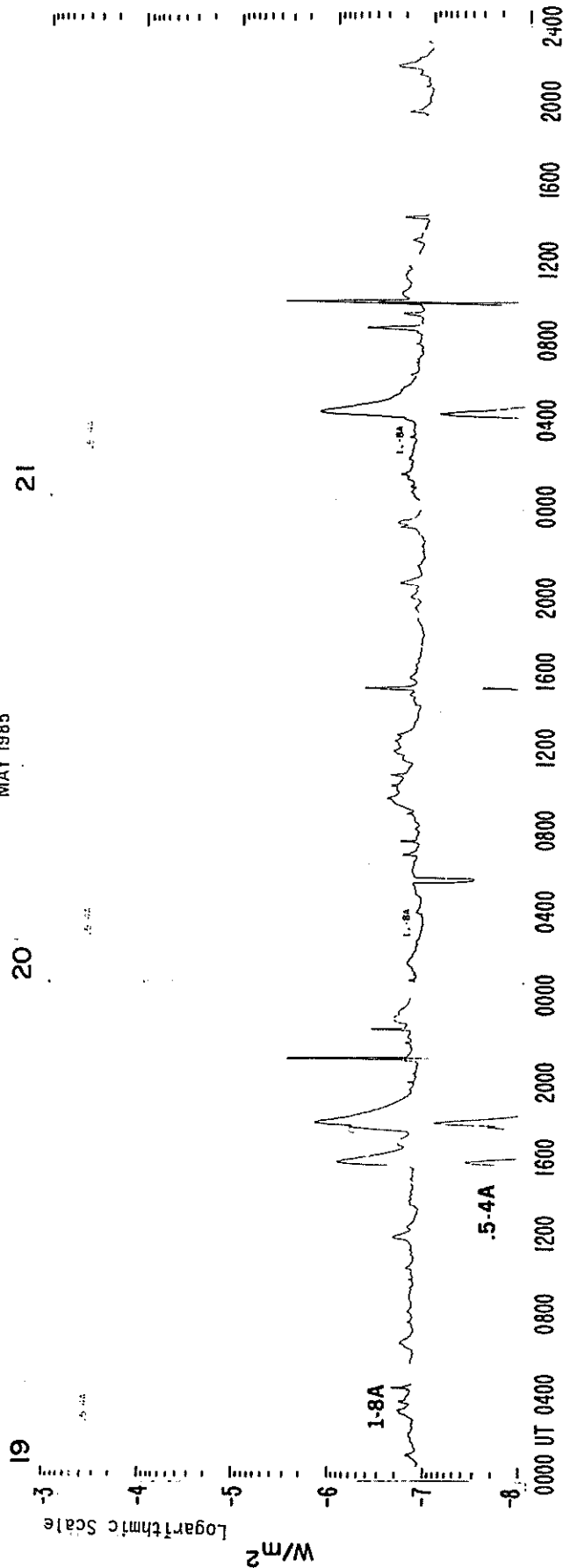
GOES 6 X-RAYS

MAY 1985



GOES 6 X-RAYS

MAY 1985



GOES 6 X-RAYS

MAY 1985

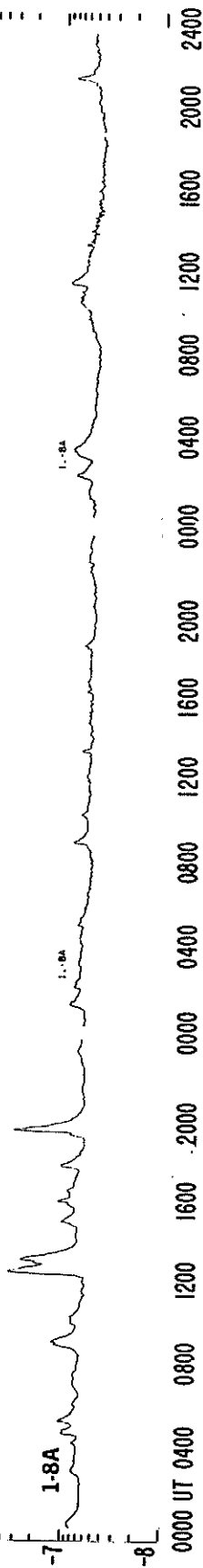
25

26

27

Logarithmic Scale

W/m^2



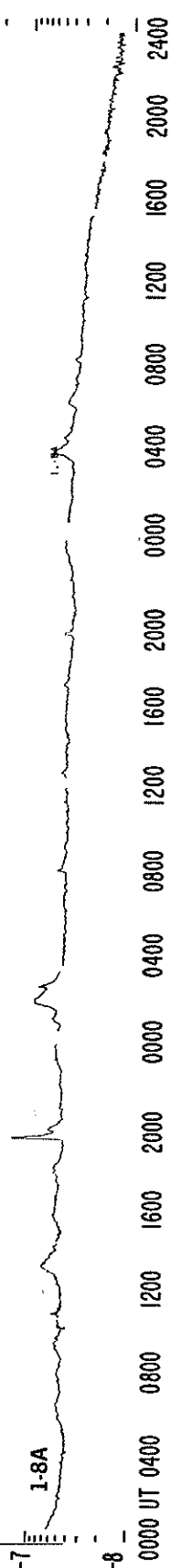
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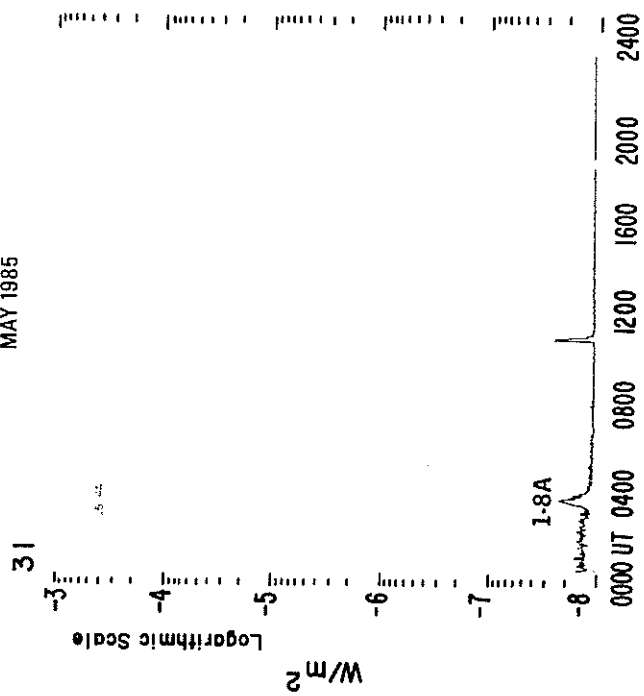
Logarithmic Scale

W/m^2



GOES 6 X-RAYS

MAY 1985



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May 85

GOES SOLAR X-RAY FLARES
(Preliminary Listing)

May 1985

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	Imp Opt	Xray
01	0254	0257	0300					B1.9
01	0433	0442	0451					B5.1
01	0540	0543	0545					B2.3
01	0659	0701	0721	N02	W72	4647	SN	B8.1
01	0755	0802	0809					B1.2
01	0811	0816	0820					B1.7
01	0832	0835	0838					B1.3
01	0845	0853	0903					B4.0
01	0910	0913	0915					B3.7
01	0958	1004	1011					B3.6
01	1047	1104	1112					B4.0
01	1135	1143	1211	N05	W72	4647	SN	B5.7
01	1213	1221	1229					B3.5
01	1430	1431	1451	N03	W73	4647	SB	C2.7
01	1721	1725	1730					B4.0
01	2120	2124	2128					B2.8
02	0027	0037	0039					B4.6
02	0212	0253	0314					B5.0
02	0217	0221	0222					B3.5
02	0504	0506	0539	N04	W90	4647	SN	B5.3
02	0554	0558	0600					C3.3
02	0654	0701	0707					B4.1
02	0700E	0713	0740	N04	E58	4649	SF	B5.6
02	0741	0745	0753			4647		M4.9
02	1741	1813	1834					B5.1
05	0836	0852	0908					B2.1
06	0356	0418	0438					B2.2
06	0624	0627	0631					B1.2
06	1356	1408	1426	N04	E26	4650	SF	B2.9
06	1701	1705	1712					B1.4
06	1758	1801	1803					B1.8
06	1806	1809	1812					B1.8
06	1919	1925	1935					B2.0
06	2041	2044	2046					B1.6
07	0102	0104	0107					B2.9
07	0118	0123	0126					B1.5
07	0245	0254	0259					B2.9
07	0431	0457	0511			4652		B5.0
07	0558	0601	0604			4652		B2.4
07	0646	0651	0720			4652		B1.9
07	0736	0739	0743			4652		B2.2
07	0751	0752	0756	S11	E85	4652	SN	B5.4
07	0805	0807	0811	S11	E85	4652	SN	C1.4
07	0812	0816	0820			4652		B5.0
07	0920	0923	0926			4652		B3.8
07	1317	1322	1324			4652		B2.5
07	1439	1445	1457	S14	E83	4652	SN	B2.4
07	1756	1800	1802					B2.0
07	1948	2004	2022			4652		C1.3
08	0244	0245	0251	S11	E72	4652	SF	B6.3
08	0421	0424	0426					B2.1
08	0451	0503	0511					B3.5
08	0704	0707	0710					B2.3
08	0731	0735	0738					B2.7
08	1044	1047	1049					B2.9
08	1459	1459	1502	S15	E77	4652	SF	B1.8
08	1543	1546	1549					B1.5
08	1622	1622	1634	N04	W03	4650	SF	B1.8
08	1721	1728	1733					B1.1
08	1753	1805	1811					B1.2
08	1923	1923	1928	S15	E66	4652	SF	B1.7
08	1952	1956	2000					B1.7
08	2121	2138	2155	N04	W06	4650	SN	B2.6
08	2126	2132	2143			4650		B3.4
09	0534	0535	0543	N06	E70	4653	SN	B4.7
09	0554	0558	0610	S14	E59	4652	SN	B9.5
09	0734	0741	0747					B2.0
09	0853	0856	0900					B4.1
09	1034	1044	1055					B3.7
09	1225	1228	1231					B4.4
09	1718	1723	1744	S14	E54	4652	SF	B1.8
09	1941	1943	1945D	S12	E50	4652	SB	B4.8
09	1955	1959	2015	N04	E64	4653	SN	B8.9
09	2208	2212	2215					B4.0
09	2316E	0000	2400D	S12	E52	4652	SN	B1.8
10	0030	0035	0040					B2.8
10	0048	0052	0055					B2.6
10	0207	0214	0218					B2.3
10	0236	0241	0246					B4.9
10	0444	0449	0452					B2.9
10	0643	0646	0648					B2.2
10	1009	1014	1018					B3.8
10	1206	1209	1212					B2.9
10	1556	1602	1635	S12	E40	4652	SN	B7.9
10	1817	1822	1824					B2.7
11	0433	0437	0439					B2.8
11	0548	0604	0616					C1.3
11	1823	1827	1831					B4.1
12	0025	0028	0042	S13	E26	4652	SF	B3.1
12	0045	0046	0058	S13	E25	4652	SF	B2.6
12	0651	0657	0713D	S09	E23	4652	SF	B9.2
12	1050	1127	1144					B2.9
12	1445	1449	1452					B3.1
12	1602	1602	1641	S13	E16	4652	SF	B1.5
12	1822	1827	1928	S13	E12	4652	SB	C1.0
12	1910	1916	1923	S11	E16	4652	SF	B3.4
12	2228	2232	2242	S09	E12	4652	SN	B6.2
13	0119	0119	0127	S14	E11	4652	SF	B3.8
13	0138	0142	0145					B2.2
13	0251	0254	0257					B2.7
13	0311	0314	0325					B2.0
13	0444	0444	0455	S11	E02	4652	SF	B2.6
13	0518	0518	0525	S11	E09	4652	SN	B9.7
13	0636	0639	0642					B1.6
13	0803	0810	0853	S13	E05	4652	SF	B9.9
13	0904	0936	0948			4652		M1.0
13	0949	0959	1005			4652		B4.0
13	1353	1355	1404	S15	E03	4652	SF	B2.6
13	1819	1827	1931	S14	W01	4652	SB	C2.1
13	1930	1939	2001					B4.5
13	2214	2219	2227					B4.6
14	0011	0026	0207	S14	W03	4652	SF	C2.0
14	0120	0123	0131			4652		B5.0
14	0132	0148	0158			4652		B7.2
14	0312	0317	0324			4652		B3.7
14	0403	0403	0425	S14	W05	4652	SF	B6.1
14	0918	0923	0936					B3.8
14	1016	1022	1027					B2.9
14	1043	1047	1059					B2.2

GOES SOLAR X-RAY FLARES
(Preliminary Listing)

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May 85

May 1985

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	Imp Opt	Xray
14	1134	1143	1150					B3.9
14	1217	1222	1237					B2.8
14	1329	1332	1335					B2.0
14	1410	1430	1526	S12	W10	4652	SF	B7.1
14	2123	2128	2134					B4.0
14	2322	2328	2336					B3.5
15	1009	1019	1028					B4.8
15	1139	1142	1146					B2.3
15	1736	1753	1759			4652		B8.8
15	1812	1817	1823					B5.8
16	0150	0152	0205	S11	W29	4652	SB	B3.6
16	0630	0637	0707	S11	W32	4652	1N	C1.9
16	0916	0926	0936					B9.9
16	1544	1552	1559					B8.6
16	2028	2031	2034					B2.7
17	1222	1248	1302			4656		B3.7
17	1850	1858	1904					C1.0
18	0403	0404	0423	S11	W57	4652	SF	B4.5
18	1454	1503	1522					B5.0
18	1825	1832	1844					B3.4
19	1523	1537	1551					B8.6
19	1711	1737	1749					C1.7
19	2044	2047	2049					B2.0
19	2052	2054	2059	N05	E46	4656	SN	C3.5
19	2219	2222	2224					B4.0
20	0327	0708	0758					B2.0
20	0514	0918	1058					B2.7
20	1452	1454	1500	N07	E38	4656	SN	B4.9
21	0411	0417	0450	N06	E24	4656	1N	C1.9
21	0836	0837	0848	N06	E27	4656	SF	B5.1
21	0953	0957	1012	N01	E27	4656	SB	C3.8
21	1413	1414	1428	N08	E25	4656	SF	B2.1
21	1850	1851	1906	N06	E22	4656	SB	B5.7
22	0119	0121	0130	N07	E19	4656	SF	B2.3
22	0549	0549	0559	N06	E16	4656	SF	B2.7
22	1557	1602	1604					B2.1
22	2237	2238	2258	N09	E01	4656	SF	B1.9
22	2328	2332	2334					B1.5
23	0220	0223	0249	N08	W00	4656	SF	B8.7
23	0335	0342	0346					B4.3
23	0628	0629	0642	N04	W07	4656	SN	B5.8
24	1126	1131	1142	N03	W20	4656	SF	C1.5
25	1226	1238	1253					B3.5
25	1925	1934	1943					B3.0
28	1915	1921	1926					B1.4

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May 85

MASS EJECTIONS FROM THE SUN

MAY 1985

Sta	Day	Observed UT			Location		Freq or Wavelength	Kind of Event
		Start	Max	End	RA°	R/R ₀		
WEIS	May 02	0757.4		0811.1			Meter	II
KHAR	May 03	0959		1025	278	1.00	H-alpha	EPL
KHAR	May 10	1049		1105	098	0.68	H-alpha	S
VORO	May 12	2322	2345	2411	156	0.22	H-alpha	S
KHAR	May 14	0828	E	0839	245	0.40	H-alpha	S
WEND	May 16	0918	0928	0946	091	1.0-1.06	H-alpha	SP
KHAR	May 17	0810	E	0820	D 253	0.83	H-alpha	S
KHAR	May 17	0840	E	0855	078	0.99	H-alpha	S
KHAR	May 17	0844	E	0858	256	0.72	H-alpha	S
KHAR	May 17	0855		0915	256	0.80	H-alpha	S
KHAR	May 17	1027	E	1047	087	1.00	H-alpha	S
KHAR	May 18	0935	E	1015	091	0.85	H-alpha	S
KHAR	May 18	0945	E 0945	U 0955	260	0.88	H-alpha	S
KHAR	May 18	1110	E	1124	093	0.81	H-alpha	S
KHAR	May 31	0940	E	0948	069	0.72	H-alpha	S

QUALIFIERS ON START, MAX AND END TIMES

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

REPORTING STATIONS

KHAR = Kharkov
WEIS = Weissenau
WEND = Wendelstein
VORO = Voroshilov

TYPE OF EVENT

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

C O N T E N T S

Comprehensive Reports

DATA FOR JULY - DECEMBER 1984

Number 495 Part II

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Jul 84

H - ALPHA SOLAR FLARES

JULY 1984

Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
		01	1944		1948			No Flare Patrol											
		02	1444		1458			No Flare Patrol											
		02	1651		1657			No Flare Patrol											
		02	1709		1729			No Flare Patrol											
0001	PALE	02	1755	1755	1804	N11	E30	4525	07	5.0	9	SF		3	C		102		
0002	RAMY	02	1827	1828	1849	N12	E33	4525	07	5.2	22	SF	C 1.6	3	C		29		
0003	HTPR	03	0715	0719	0725	N03	E80	4540A	07	9.3	10	SF			C	0719	20		E
0004		03	15093	1513	1517	N03	E76	4540A	07	9.3	8	SN					20		
	HTPR	03	1509	1513	1518	N03	E76	4540A	07	9.3	9	SN			C	1513	20		
	HOLL	03	1512	1513	1516	N03	E75	4540A	07	9.2	4	SF		3	C		21		
0005	HOLL	03	1754	1754	1759	S06	E77	4532	07	9.5	5	SF		3	C		10		
0006		04	0051	0212	0246D	S08	E68	4532	07	9.1	115D	1N	M 1.4				216		K
	PALE	04	0051	0212	0246D	S08	E68	4532	07	9.1	115D	SF		3	C		54		K
	PALE	04	0051	0246U	0246D	S08	E68	4532	07	9.1	115D	2B	M 1.4	3	C		379		K
0007		04	02404	02482	0317	S10	E79	4536	07	10.0	37	2B					154		E
	URUM	04	0240	0250	0258	S11	E83	4536	07	10.3	18	2B			C		173		
	MITK	04	0243	0248	0346	S10	E75	4536	07	9.7	63	1N			C	0248	100		E
	YUNN	04	0244	0250	0306	S10	E79	4536	07	10.0	22	2B			C		189		
0008	HTPR	04	0644	0648	0652	S13	E68	4536	07	9.4	8	SN			C	0648	10	.2	
0009	HTPR	04	0824	0830	0832	S06	E56	4532	07	8.5	8	SF			C	0830	10	.2	
0010		04	1705	17061	1712	N10	E06	4525	07	5.2	7	SF					26	.2	E
	HOLL	04	1705	1706	1711	N11	E06	4525	07	5.2	6	SF		3	C		31		
	HTPR	04	1705	1707	1713	N10	E06	4525	07	5.2	8	SF			C	1707	20	.2	E
		04	1926		1935			No Flare Patrol											
0011	HOLL	04	2357	2404	2407	N16	E03	4525	07	5.2	10	SF		3	C		25		F
0012	HTPR	05	0838	0839	0847	S14	E57	4536	07	9.7	9	SF			C	0839	10	.2	
0013	HTPR	05	1001	1001	1006	S10	E58	4536	07	9.8	5	SF			C	1001	10	.2	
0014		05	1019*	1019*	1044	N03	E55	4533	07	9.5	25	SN					25	.4	E
	HTPR	05	1019	1019	1039	N03	E55	4533	07	9.5	20	SF			C	1019	20	.3	E
	HTPR	05	1042	1042	1050	N03	E55	4533	07	9.5	8	SN			C	1042	30	.5	E
0015	HTPR	05	1327	1330	1345	N10	W07	4525	07	5.0	18	SB			C	1330	120	1.2	E
		05	1503		1512			No Flare Patrol											
0016		05	1748	17491	1813	N02	E51	4533	07	9.5	25	SB					86		EFH
	PALE	05	1748	1749	1813	N02	E52	4533	07	9.6	25	SB		3	C		81		FE
	HOLL	05	1749E	1750	1812D	N03	E50	4533	07	9.5	23D	SB		3	C		90		FH
		05	1917		1931			No Flare Patrol											
		05	1935		1942			No Flare Patrol											
		05	2007		2201			No Flare Patrol											
		05	2329		2356			No Flare Patrol											
0017	HTPR	06	0831	0832	0845	N10	W17	4525	07	5.1	14	SF			C	0832	70	.7	E
0018	HTPR	06	0831	0835	0850	S08	E44	4536	07	9.6	19	SF			C	0835	30	.4	E
		06	1512		1518			No Flare Patrol											
		06	1523		1533			No Flare Patrol											
		06	1551		1607			No Flare Patrol											
0019		06	1905	19066	1932	N09	E17	4528	07	8.1	27	SN					74		F
	RAMY	06	1905	1906	1928	N09	E17	4528	07	8.1	23	SN		3	C		58		
	HOLL	06	1905	1912	1935	N09	E17	4528	07	8.1	30	SN		3	C		89		F

H - ALPHA SOLAR FLARES

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Jul 84

JULY 1984

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP	Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Time (UT)	Area Measurement		Remarks
																		Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0020	HOLL	06	1936	1938	1952	N17	W21	4525	07	5.2	16	SF			3	C		78		F
			06 2000		2209			No Flare Patrol												
			06 2219		2225			No Flare Patrol												
			06 2237		2258			No Flare Patrol												
			06 2306		2400			No Flare Patrol												
			07 0000		0013			No Flare Patrol												
			07 0018		0032			No Flare Patrol												
			07 0034		0203			No Flare Patrol												
			07 0207		0217			No Flare Patrol												
			07 0221		0324			No Flare Patrol												
			07 0552		0559			No Flare Patrol												
0021	KHAR	07	0653E	0654	0659D	S09	E32	4536	07	9.7	6D	SF				P	0654			D0
0022		07	1020*	10332	1052	S11	E32	4536	07	9.8	32	SB						95	1.1	E
	HTPR	07	1020	1033	1058	S12	E32	4536	07	9.8	38	SB				C	1033	80	.9	E
	KHAR	07	1028E	1033	1053D	S10	E32	4536	07	9.8	25D	SN				V	1035	150	1.8	E
	CATA	07	1030	1035	1045	S11	E32	4536	07	9.8	15	S			2	C	1035	56	.7	
0023	HTPR	07	1033	1035	1038	S15	E42		07	10.6	5	SF				C	1035	30	.4	
0024		07	11091	11101	1115	N01	E28	4533	07	9.5	6	SF						57	.6	
	HTPR	07	1109	1111	1115	N01	E28	4533	07	9.5	6	SF				C	1111	30	.3	
	CATA	07	1110	1110	1115	N01	E27	4533	07	9.5	5	S			2	C	1110	84	.9	
0025		07	13324	13381	1400	S07	E25	4532	07	9.4	28	SF						38	.2	EF
	HTPR	07	1332	1338	1359	S07	E26	4532	07	9.5	27	SF				C	1338	20	.2	E
	HOLL	07	1336	1338	1402	S07	E25	4532	07	9.4	26	SF			3	C		44		F
	RAMY	07	1336	1339	1358	S07	E25	4532	07	9.4	22	SF			3	C		50		F
0026		07	1450*	14539	1514	N12	W34	4525	07	5.0	24	SF						54		F
	RAMY	07	1450	1456	1520	N10	W33	4525	07	5.1	30	SF				C		72		F
	HOLL	07	1452	1453	1459	N13	W34	4525	07	5.0	7	SF			3	C		33		
	HOLL	07	1501	1502	1522	N12	W35	4525	07	5.0	21	SF			3	C		58		
0027		07	1822	18241	1831	S00	E27	4536A	07	9.8	9	SF						28		F
	HOLL	07	1822	1824	1831	S01	E27	4536A	07	9.8	9	SF			3	C		29		F
	RAMY	07	1822	1825	1831	S00	E27	4536A	07	9.8	9	SF			3	C		27		F
0028	RAMY	07	1834	1839	1850	N11	W34	4525	07	5.2	16	SF			3	C		47		F
0029	HOLL	07	2116	2118	2128	N03	E21	4533	07	9.4	12	SN			3	C		98		
0030	HOLL	07	2356	2401	2432	N12	W37	4525	07	5.2	36	SF			3	C		104		F
0031	ABST	08	0430E	0538	0558D	S09	E61	4537	07	12.8	88D	1F				P	0538	140		E
0032		08	06583	07014	0716	S10	E10	4536	07	9.0	18	SF						76	.8	
	WEND	08	0658	0701	0718	S10	E11	4536	07	9.1	20	SF				C	0701	81	.9	
	ATHN	08	0700	0702	0706D	S11	E10	4536	07	9.0	6D	SN			3	V	0702	64	.7	
	CATA	08	0700	0705	0720	S10	E11	4536	07	9.1	20	S			2	C	0705	84	.9	
	KANZ	08	0701	0701	0709	S10	E10	4536	07	9.0	8	SF			2					
0033	KANZ	08	1035	1035	1043	S10	E08	4532	07	9.0	8	SF			2					
0034	KANZ	08	1219	1223	1226	S11	E08	4536	07	9.1	7	SF			2					
0035	HOLL	08	1354	1354	1407	S10	E57	4537	07	12.9	13	SF			3	C		15		
0036	RAMY	08	1411	1412	1424	N13	W46	4525	07	5.1	13	SF			3	C		25		
0037		08	15032	15041	1509	N13	W44	4525	07	5.3	6	SF						32		
	HOLL	08	1503	1504	1509	N13	W44	4525	07	5.3	6	SF			3	C		32		
	KANZ	08	1505	1505	1509	N13	W45	4525	07	5.2	4	SF			2					
0038		08	15413	15441	1558	S08	E11	4532	07	9.5	17	SF						30		F
	HOLL	08	1541	1544	1600	S08	E11	4532	07	9.5	19	SF			3	C		30		F
	RAMY	08	1544	1545	1555	S07	E11	4532	07	9.5	11	SF			3	C		30		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Time (UT)	Area Measurement Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	Remarks
0039		08	18193	18272	1850	S08	E09	4532	07	9.4	31	SF					67		F
	RAMY	08	1819	1829	1851	S08	E09	4532	07	9.4	32	SF		3	C		78		F
	HOLL	08	1822	1827	1848	S09	E09	4532	07	9.4	26	SF		3	C		56		F
0040		08	19093	19141	1935	S09	E55	4537	07	12.9	26	SN					47		
	HOLL	08	1909	1914	1959	S10	E56	4537	07	13.0	50	SN		3	C		44		
	PALE	08	1912	1914	1922	S09	E54	4537	07	12.8	10	SF		3	C		71		
	RAMY	08	1912	1915	1924	S09	E55	4537	07	12.9	12	SN		3	C		27		
0041	RAMY	08	1940	1944	2001	S09	E55	4537	07	12.9	21	SF		3	C		19		
0042	PALE	08	2125	2126	2158	S08	E53	4537	07	12.9	33	SN		3	C		23		F
0043	PALE	08	2200	2208	2219	S09	E55	4537	07	13.0	19	SF		3	C		25		F
		09	0148		0157	No Flare Patrol													
		09	0250		0305	No Flare Patrol													
		09	0312		0341	No Flare Patrol													
		09	0348		0357	No Flare Patrol													
		09	0411		0446	No Flare Patrol													
		09	0456		0519	No Flare Patrol													
		09	0535		0536	No Flare Patrol													
0044	CATA	09	0925	0945	1025	N08	W44	4525	07	6.1	60	S		2	C	0945	56	.8	
0045	RAMY	09	1556	1557	1605	S10	E03	4536	07	9.9	9	SF		3	C		26		
0046	HOLL	09	1802	1803	1810	N10	W21	4528	07	8.2	8	SF		3	C		38		F
0047	HOLL	09	2004	2005	2008	N10	W23	4528	07	8.1	4	SF		3	C		33		
0048	HOLL	09	2013	2013	2018	S09	W03	4536	07	9.6	5	SF		3	C		25		
		09	2116		2145	No Flare Patrol													
		09	2202		2207	No Flare Patrol													
0049		10	0051	0053	0057	S12	W08	4536	07	9.4	6	SN					25	.2	
	HOLL	10	0051	0053	0057	S13	W08	4536	07	9.4	6	SF		3	C		34		
	YUNN	10	0054E	0054U	0055D	S12	W08	4536	07	9.4	1D	SN			P	0054	16	.2	
0050		10	0630	0638*	0708	S11	W04	4536	07	10.0	38	1F					219	2.3	E
	BUCA	10	0630	0638	0700	S14	W05	4536	07	9.9	30	SF			C	0638	129	1.3	E
	CATA	10	0630E	0650	0715	S08	W04	4536	07	10.0	45D	1		2	P	0650	309	3.3	
0051		10	06333	06373	0700	S06	W06	4532	07	9.8	27	SF					116	1.2	E
	HTPR	10	0633	0637	0720	S06	W05	4532	07	9.9	47	SF			C	0637	80	.8	E
	ABST	10	0634	0638	0645	S06	W08	4532	07	9.7	11	SF			C	0638	174	1.8	E
	YUNN	10	0636	0640	0700	S06	W06	4532	07	9.8	24	SN			C		94	1.0	
	KANZ	10	0643E	0643U	0657	S05	W04	4532	07	10.0	14D	SF		1					
0052	HTPR	10	0819	0824	0853	S06	W05	4532	07	10.0	34	SN			C	0824	60	.6	E
0053		10	0824*	0824*	0834	S10	W11	4536	07	9.5	10	SF							
	KANZ	10	0824	0824	0826	S09	W10	4536	07	9.6	2	SF		2					
	KANZ	10	0838	0838	0842	S10	W12	4536	07	9.4	4	SF		2					
0054	HTPR	10	1115	1117	1123	S10	W14	4536	07	9.4	8	SF			C	1117	10	.1	
0055		10	16211	1622	1636	S13	W15	4536	07	9.5	15	SF					36		
	HOLL	10	1621	1621U	1635	S13	W15	4536	07	9.5	14	SF		3	C		26		
	RAMY	10	1622	1622	1636	S13	W15	4536	07	9.5	14	SF		3	C		45		
		10	1847		1942	No Flare Patrol													
		10	1946		2111	No Flare Patrol													
0056	CULG	11	0511	0515	0535	S05	W31	4540	07	8.9	24	SF			C	0515	40	.5	FH
0057		11	07402	07409	0804	S12	W15	4536	07	10.2	24	SF					115	1.2	BE
	HTPR	11	0736E		0752D	S14	W15	4536	07	10.2	16D	SF			C	0741	60	.6	E
	CATA	11	0740	0740	0740D	S12	W16	4536	07	10.1	16D	S		2	P	0740	56	.6	
	BUCA	11	0742	0749	0804	S10	W14	4536	07	10.3	22	SF			P	0749	107	1.2	E
	ABST	11	0745E	0746	0803D	S13	W16	4536	07	10.1	18D	1F			P	0746	236	2.6	BE

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Corr (Sq Deg)	Remarks
						Region	Lat	CMD									(10 ⁻⁶ Disk)	Disk		
0058		11	0854	0914U	0936	S08 W27	4532		07	9.3	42	SN					76	.8	EU	
	HTPR	11	0840E		0936	S08 W26	4532		07	9.4	56D	SF		C	0907	120	1.3	EU		
	YUNN	11	0854	0914U	0918D	S07 W28	4532		07	9.3	24D	SN		P	0914	31	.4	U		
0059		11	09011	09021	0914	S15 E74			07	17.0	13	SN					48			
	ATHN	11	0901	0903	0915	S17 E71			07	16.8	14	SN		3	V	0903	48			
	KANZ	11	0902	0902	0914	S13 E76			07	17.1	12	SN		2						
0060		11	09441	0945	0954	S08 W26	4532		07	9.4	10	SN					83	1.0	DE	
	HTPR	11	0944	0945	0954	S09 W27	4532		07	9.4	10	SB		C	0945	80	.9	E		
	KANZ	11	0945	0945	0953	S07 W25	4532		07	9.5	8	SN		2						
	URUM	11	0945E	0945	0955	S09 W26	4532		07	9.4	10D	SN		P		86	1.0	D		
0061		11	09501	0952	1005	S06 E55	4539		07	15.5	15	SN					38	.6	E	
	URUM	11	0950	0952	1005	S06 E57	4539		07	15.7	15	SN		C		47	.6	E		
	HTPR	11	0951		0955D	S06 E53	4539		07	15.4	4D	SF		C	0953	30	.5	E		
0062		11	12008	1201*	1220	S06 E52	4539		07	15.4	20	SF					35	.8	E	
	RAMY	11	1200	1201	1220	S05 E52	4539		07	15.4	20	SF		3	C		23			
	URUM	11	1208	1215	1232D	S06 E53	4539		07	15.5	24D	SF			P		47	.8	E	
0063	RAMY	11	1309	1310	1321	S10 W25	4536		07	9.7	12	SF		3	C		28		F	
		11	1633		1641	No Flare Patrol														
		11	1657		1707	No Flare Patrol														
		11	1709		1710	No Flare Patrol														
0064	KHAR	12	0818E	0819	0823D	S10 E09	4537		07	13.0	5D	SF			V	0820	30	.4	D	
0065	KHAR	12	0940E	0940	0947D	S14 E68	4541		07	17.5	7D	SF			V	0940			D	
0066	KHAR	12	0956E		1003D	S06 E40	4539		07	15.4	7D	SF			V	0956			EH	
0067	HTPR	12	1018	1022	1030	S06 E41	4539		07	15.5	12	SF			C	1022	30	.4	E	
0068	KHAR	12	1036E	1037	1040D	S07 E11	4537		07	13.3	4D	SF			V	1037			DH	
0069		12	1257*	1305*	1342	S10 E03	4537		07	12.8	45	SN					78	1.2	EFU	
	URUM	12	1257	1305	1317D	S10 E03	4537		07	12.8	20D	SB		P		173	1.8	U		
	HTPR	12	1302	1307	1325	S10 E04	4537		07	12.8	23	SF		C	1307	60	.6	E		
	RAMY	12	1302	1307	1353	S10 E04	4537		07	12.8	51	SF		3	C		62		F	
	KANZ	12	1305	1305	1345	S10 E03	4537		07	12.8	40	SN		2						
	HOLL	12	1310	1312	1331	S10 E03	4537		07	12.8	21	SF		3	C		72		F	
	HOLL	12	1339	1348	1357	S12 E00	4537		07	12.6	18	SF		3	C		24			
0070	PALE	12	1918	1919	1924	S14 E61	4541		07	17.4	6	SF		3	C		17			
0071	KHAR	13	0730E		0740D	S07 E28	4539		07	15.4	10D	SF			P	0732	80	.9	EHO	
0072	KHAR	13	0730E		0737D	S15 E58	4541		07	17.7	7D	SF			P	0732	40	.8	DO	
0073	KHAR	13	0756E	0758	0810D	S07 E28	4539		07	15.4	14D	SF			V	0759	50	.6	D	
0074		13	0833*	0837*	1020	S07 E27	4539		07	15.4	107	SF					59	.7	BDET	
	HTPR	13	0833	0853	0909	S06 E27	4539		07	15.4	36	SF		C	0853	20	.2	E		
	KHAR	13	0836E	0837	0855D	S07 E28	4539		07	15.4	19D	SF		V	0837			DT		
	URUM	13	0900E	1055U	1145D	S08 E27	4539		07	15.4	165D	SF		P	1055	47	.6	D		
	HTPR	13	0926	1100	1130	S06 E26	4539		07	15.3	124	SN		C	1100	30	.3			
	ABST	13	1116E	1116	1125D	S07 E27	4539		07	15.5	9D	SF		P	1116	140	1.7	BE		
0075	HTPR	13	1240	1308	1320	S07 W90			07	6.8	40	SN			C	1308	20			
		13	1608		1616	No Flare Patrol														
		13	1721		1734	No Flare Patrol														
0076	HOLL	13	1824	1825	1850	S06 E23	4539		07	15.5	26	SF		3	C		25			
0077		14	0108	0113	0120	S08 E18	4539		07	15.4	12	SN					34	.5	F	
	HOLL	14	0108	0113	0119	S08 E18	4539		07	15.4	11	SF		3	C		20			
	URUM	14	0108E	0113	0122	S08 E19	4539		07	15.5	14D	SN			P		47	.5	F	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0078		14	06305	06366	0648	S06	E14	4539	07	15.3	18	SN					67	1.2	EFH
	PEKG	14	0630	0636	0650	S06	E13	4539	07	15.2	20	SN				0636	109	1.2	E
	LEAR	14	0635	0642	0646	S06	E14	4539	07	15.3	11	SF		3	C		25		FH
0079	KHAR	14	0818E	0818	0822D	S15	E45	4541	07	17.7	4D	SF			V	0818			D
0080		14	0924	09294	0943	S08	E14	4539	07	15.4	19	SF					31	.3	E
	URUM	14	0924	0929	0943	S08	E14	4539	07	15.4	19	SF			C		31	.3	E
	KHAR	14	0933E	0933	0946D	S07	E13	4539	07	15.4	13D	SF			V	0933			E
0081		14	2015	20171	2025	S01	W64	4540	07	10.1	10	SN					36		
	PALE	14	2014E	2017U	2024	S01	W64	4540	07	10.1	10D	SF		3	C		38		
	RAMY	14	2015	2017	2025	S03	W64	4540	07	10.1	10	SN		3	C		30		
	HOLL	14	2015	2018	2026	N01	W63	4540	07	10.1	11	SN		3	C		40		
0082		15	07251	07301	0735	S10	W36	4537	07	12.6	10	SN					38	.5	DE
	BUCA	15	0725	0731	0735	S10	W35	4537	07	12.7	10	SF			C	0731	43	.6	D
	PEKG	15	0726	0730	0735	S09	W36	4537	07	12.6	9	SN			C	0730	34	.4	E
0083		15	0830	0832	0840	S10	W32	4537	07	12.9	10	SN					23	.3	DE
	PEKG	15	0830	0832	0844	S12	W26	4537	07	13.4	14	SN			P	0832	25	.3	E
	PEKG	15	0832E	0832	0837	S07	W38	4537	07	12.5	5D	SF			P	0832	21	.3	D
0084		15	1201	11539	1216	S08	W40	4537	07	12.5	15	SN					43	.9	E
	URUM	15	1136E	1153	1215	S08	W41	4537	07	12.4	39D	SN			P		63	.9	E
	RAMY	15	1201	1202	1216	S08	W40	4537	07	12.5	15	SF		3	C		23		
0085	URUM	16	0046E	0114	0155D	S07	W51	4537	07	12.2	69D	SN			P		47	.8	E
0086	LEAR	16	0539	0547	0556	S09	W51	4537	07	12.4	17	SF		3	C		26		
0087		16	0742E	0745	0903D	S07	W52	4537	07	12.4	81D	SF					40	.7	DHO
	KHAR	16	0742E	0745	0753D	S07	W52	4537	07	12.4	11D	SF			P	0745	40	.7	DO
	KHAR	16	0803E		0903D	S07	W52	4537	07	12.4	60D	SF			V	0831			DH
0088	KHAR	16	0800E	0802	0810D	S16	E20	4541	07	17.8	10D	SF			P	0802	30	.4	D
0089	KHAR	16	0953E	0954	0959D	S11	W90		07	9.6	6D	SF			V	0954	30		DH
0090	RAMY	16	1930	1931	1945	S08	W59	4537	07	12.4	15	SF		3	C		19		F
		16	2011		2015	No Flare Patrol													
0091	RAMY	16	2027	2027	2046	S08	W59	4537	07	12.4	19	SF		3	C		16		F
0092	HOLL	16	2121	2124	2130	S07	W59	4537	07	12.5	9	SF		3	C		27		
0093	HOLL	16	2215	2215	2222	S06	W60	4537	07	12.4	7	SF		3	C		17		
0094		17	00252	0025*	0037	S08	W59	4537	07	12.6	12	SF					32		
	PALE	17	0025	0025	0033	S09	W58	4537	07	12.7	8	SF		3	C		23		
	LEAR	17	0027	0035	0041	S07	W60	4537	07	12.5	14	SF		3	C		40		
0095		17	00555	0057*	0129	S09	W62	4537	07	12.4	34	1N C 5.6					160	3.2	EF IJKW
	YUNN	17	0047E	0058	0110D	S09	W66	4537	07	12.1	23D	1B			P		189		
	VORO	17	0055	0057	0118	S08	W65	4537	07	12.2	23	SF			C	0105	448		IJKW
	LEAR	17	0100	0101	0137	S09	W60	4537	07	12.5	37	SB C 5.6	3		C		107		FE
	PEKG	17	0105E	0105E	0140	S10	W62	4537	07	12.4	35D	1N C 5.6			P	0105	189	4.2	E
	CULG	17	0105E	0107	0115	S10	W62	4537	07	12.4	10D	1F			P	0107	100	2.2	
	HOLL	17	0111E	0116	0133	S07	W63	4537	07	12.3	22D	SF		2	C		71		F
	PURP	17	0114E	0115	0130	S11	W63	4537	07	12.3	16D	1B			C	0115	99		
	URUM	17	0114E	0116U	0130	S09	W54	4537	07	13.0	16D	1B			P	0116	79		F
0096	ABST	17	0405	0410	0422	S08	W65	4537	07	12.3	17	SF			C	0410	87		DI
0097	LEAR	17	0505	0505	0520	S08	W64	4537	07	12.4	15	SF		3	C		17		
0098	KHAR	17	0703E		0718D	S08	W66	4537	07	12.3	15D	SF			P	0703			DO

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0099		17	0826Z	08271	0832	S08	W64	4537	07	12.5	6	SF					16		
	LEAR	17	0826	0827	0831	S08	W64	4537	07	12.5	5	SF		3	C		16		
	KANZ	17	0828	0828	0832	S07	W64	4537	07	12.5	4	SF		1					
0100		17	0837Z	08396	0849	S14	E03	4541	07	17.6	12	SN					65	.7	E
	CATA	17	0835E	0840	0850	S13	E03	4541	07	17.6	15D	S		2	P	0840	84	.9	
	HTPR	17	0837	0839	0849	S14	E04	4541	07	17.7	12	SF			C	0839	20	.2	E
	PEKG	17	0844	0845	0849	S14	E03	4541	07	17.6	5	SN			C	0845	92	1.0	E
0101	HTPR	17	0920	0927	0933	S07	W67	4537	07	12.4	13	SF			C	0927	10	.2	
0102	KHAR	17	1133E	1133	1150D	N11	W38	4544	07	14.6	17D	1F			P	1138	200	2.6	O
			17 1535		1547	No Flare Patrol													
0103	RAMY	17	1941	1947	1955D	S14	W03	4541	07	17.6	14D	SN		3	C		71		F
			17 1956		2005	No Flare Patrol													
0104	KHAR	18	0706E		0725D	S07	W38	4539	07	15.4	19D	SF			V				D
0105	KHAR	18	0800E	0801	0812D	S11	W81	4537	07	12.2	12D	SF			P	0801	40		D
0106	HTPR	18	0835	0839	0854	S13	W16	4541	07	17.1	19	SF			C	0839	10	.1	
0107		18	0848	0852	0859	S10	W80	4537	07	12.3	11	SN					20		D
	HTPR	18	0848	0852	0859	S08	W80	4537	07	12.4	11	SN			C	0852	20		
	KHAR	18	0855E		0902D	S11	W81	4537	07	12.3	7D	SF			V	0855			D
0108	KHAR	18	0906E	0907	0910D	S07	W39	4539	07	15.4	4D	SF			V	0907			DH
0109		18	1042	1024*	1048	S09	E40	4545	07	21.4	6	SF					20	.2	DO
	KHAR	18	1024E	1024	1050D	S08	E38	4545	07	21.3	26D	SF			P	1024	30	.4	DO
	HTPR	18	1042	1043	1048	S10	E42	4545	07	21.6	6	SF			C	1043	10	.1	
0110		18	1101	11026	1117	S09	E40	4545	07	21.5	16	SF					25	.4	D
	HTPR	18	1101	1102	1117	S10	E42	4545	07	21.6	16	SF			C	1102	20	.3	
	KHAR	18	1103E	1108	1125D	S08	E38	4545	07	21.3	22D	SF			V	1108	30	.4	D
0111	KHAR	18	1143E	1144	1148D	S08	E38	4545	07	21.3	5D	SF			V	1144	30	.4	DH
0112	HTPR	18	1244	1248	1252	S08	W83	4537	07	12.3	8	SF			C	1248	20		
0113	HTPR	18	1428	1436	1500	S08	W85	4537	07	12.2	32	SF			C	1436	10		
0114	HTPR	19	0712	0720	0800	S08	W90	4537	07	12.5	48	SF			C	0720	20		
0115	HTPR	19	0724	0750	0806	N10	W62	4544	07	14.6	42	SF			C	0750	10	.2	
0116		19	14484	14536	1503	N09	W70	4544	07	14.4	15	SF					16		
	RAMY	19	1448	1459	1502	N08	W70	4544	07	14.4	14	SF		3	C		14		
	HOLL	19	1452	1453	1504	N10	W69	4544	07	14.4	12	SF		3	C		19		
0117	RAMY	19	1512	1516	1525	N08	W70	4544	07	14.4	13	SF		3	C		24		
0118	HOLL	19	1613	1621	1729	N11	W70	4544	07	14.4	76	SF		3	C		28		F
0119	HOLL	19	2126	2129	2133	N10	W75	4544	07	14.2	7	SF		3	C		16		
0120	LEAR	20	0320	0328	0333	N11	W73	4544	07	14.6	13	SF		3	C		31		
0121	ABST	20	0437E	0437	0443D	N11	W83	4544	07	13.9	6D	1F			P	0437	96		BD
0122	HTPR	20	0640	0654	0720	S05	W66	4539	07	15.3	40	SF			C	0654	20	.5	
0123	KHAR	20	0950E	0952	1004D	S10	W90		07	13.6	14D	SN			V	0952			DL
0124	HTPR	20	1003	1025	1040	N10	W77	4544	07	14.6	37	SF			C	1025	10		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Corr (Sq Deg)	Remarks
						Lat	CMD	Region									(10 ⁻⁶)	Disk		
0125		20	1112*	12278	1300	N10	W78	4544	07	14.6	108	SF						10		
	HTPR	20	1112	1227	1300	N10	W78	4544	07	14.6	108	SF		C	1227		10			
	HTPR	20	1220	1235	1300	N10	W78	4544	07	14.6	40	SF		C	1235		10			
0126		20	1321*	13294	1348	N10	W81	4544	07	14.5	27	SN						22		
	HTPR	20	1321	1329	1400	N10	W79	4544	07	14.6	39	SN		C	1329		20			
	RAMY	20	1332	1333	1336	N10	W83	4544	07	14.3	4	SF	3	C			24			
0127	HTPR	20	1432		1505D	N10	W79	4544	07	14.7	33D	SN		C	1446		20			
0128	RAMY	20	1612	1620	1646	N10	W84	4544	07	14.4	34	SF		3	C			10		
0129	HOLL	20	1840	1841	2018D	S07	E03	4545	07	21.0	98D	SF		3	C			34		F
		20	1901		1906	No Flare Patrol														
		20	1942		2016	No Flare Patrol														
0130	HOLL	20	2104	2105	2110	S07	E02	4545	07	21.0	6	SB		3	C			44		
0131	HOLL	20	2256	2301	2316D	S10	E05	4545	07	21.3	20D	SF		3	C			58		F
0132	HOLL	21	1859	1908	1918	S06	W07	4545	07	21.3	19	SF		3	C			33		F
0133	HOLL	21	2000	2003	2011	S07	W11	4545	07	21.0	11	SN		3	C			43		F
		21	2121		2224	No Flare Patrol														
0134	KHAR	22	0730E		0800D	N02	E90	4550	07	29.0	30D	SF		P						H
0135	BUCA	22	0805	0811	0811D	S06	W17	4545	07	21.1	6D	SF		P	0811		54	.6		D
0136	KHAR	22	0954E	0954	1002D	S18	E90	4549	07	29.3	8D	SN		V	0954					H
0137	KHAR	22	1125E	1130	1144D	N02	E90	4550	07	29.2	19D	SF		V	1130					H
		22	1541		1546	No Flare Patrol														
		22	1648		1701	No Flare Patrol														
0138		22	1723	17261	1745	S08	W22	4545	07	21.1	22	SF						41		F
	HOLL	22	1723	1726	1739	S07	W22	4545	07	21.1	16	SF		2	C			29		F
	PALE	22	1723	1727	1751	S08	W23	4545	07	21.0	28	SF		3	C			53		F
		22	2014		2045	No Flare Patrol														
		22	2054		2147	No Flare Patrol														
		23	0226		0231	No Flare Patrol														
		23	0242		0243	No Flare Patrol														
		23	0312		0414	No Flare Patrol														
		23	0418		0435	No Flare Patrol														
0139	KHAR	23	0942E		1005D	S06	W34	4545	07	20.8	23D	SN		P	0942		60	.8		CDO
0140	KHAR	23	1022E	1023	1034D	N02	E78	4550	07	29.2	12D	SF		V	1023					DH
		23	1406		1410	No Flare Patrol														
		23	1617		1621	No Flare Patrol														
0141		23	1824	1824	1834	S18	E64	4549	07	28.6	10	SF						25		F
	PALE	23	1824	1824	1834	S17	E63	4549	07	28.5	10	SF		3	C			25		F
	HOLL	23	1824	1825U	1825D	S19	E64	4549	07	28.6	1D	SF		3	C			25		F
		23	2018		2037	No Flare Patrol														
		23	2043		2104	No Flare Patrol														
		23	2117		2119	No Flare Patrol														
		23	2158		2205	No Flare Patrol														
		23	2223		2232	No Flare Patrol														
		23	2244		2305	No Flare Patrol														
		23	2310		2331	No Flare Patrol														
		24	1945		1948	No Flare Patrol														

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area (10 ⁻⁶ Disk)	Measurement Apparent	Corr (Sq Deg)	Remarks
			25 1539		1617	No Flare	Patrol													
			25 1625		1742	No Flare	Patrol													
			25 1751		1820	No Flare	Patrol													
			26 2134		2229	No Flare	Patrol													
			27 0422		0433	No Flare	Patrol													
			27 0446		0502	No Flare	Patrol													
0142		27	0900	0902	0910	S10 W88	4545	07	20.8	10	SF						30			AHO
	KHAR	27	0900E	0902	0912D	S06 W90	4545	07	20.6	12D	SF			P		0902	50			HO
	HTPR	27	0900	0903	0910	S14 W87	4545	07	20.8	10	SF			C		0903	10			A
0143	HTPR	27	1125	1135	1152	N12 E62		08	1.1	27	SF			C		1135	20	.4		
		27	2145		2203	No Flare	Patrol													
0144	YUNN	28	0053	0058	0110	S06 W89		07	21.4	17	SB			C			16			G
0145	KHAR	28	0903E		0912D	S06 W90		07	21.6	9D	SF			V		0903				D
		28	1402		1409	No Flare	Patrol													
		29	0931		1019	No Flare	Patrol													
		29	1141		1154	No Flare	Patrol													
0146	KHAR	30	0706E	0707	0720D	S17 E86	4552	08	5.8	14D	SF			V		0707	20			D
0147		30	08434	08452	0851	S16 W26	4549	07	28.4	8	SF						25	.3		
	WEND	30	0843	0845	0851	S16 W27	4549	07	28.3	8	SF			C		0845	25	.3		
	KANZ	30	0847	0847	0851	S17 W26	4549	07	28.4	4	SF		2							
0148	KHAR	30	0928E	0933	0948D	S17 E85	4552	08	5.8	20D	SF			V		0933	20			D
0149		30	1550	1551*	1621	S18 W29	4549	07	28.4	31	SN						90	1.2		F
	HOLL	30	1550	1551	1615	S17 W28	4549	07	28.5	25	SF		3	C			80			F
	KANZ	30	1550	1554	1618D	S19 W29	4549	07	28.4	28D	SN		2							
	WEND	30	1550	1601	1627	S18 W29	4549	07	28.4	37	SN			C		1601	100	1.2		
0150		30	17309	1731*	1750	S17 W30	4549	07	28.4	20	SN						89	1.2		FHK
	HOLL	30	1730	1731	1805	S16 W29	4549	07	28.5	35	SN		3	C			30			K
	HOLL	30	1730	1743	1805	S16 W29	4549	07	28.5	35	1N		3	C			203			FHK
	KANZ	30	1731	1731	1735	S16 W29	4549	07	28.5	4	SF		2							
	PALE	30	1731	1732	1736	S17 W30	4549	07	28.4	5	SF		3	C			29			
	WEND	30	1733		1750D	S19 W30	4549	07	28.4	17D	SN			C		1742	94	1.2		
	KANZ	30	1739	1743	1747D	S19 W31	4549	07	28.4	8D	1F		2							
		30	2031		2048	No Flare	Patrol													
0151	KHAR	31	0642E		0706D	S18 E70	4552	08	5.6	24D	1F			P		0647	100			K
		31	2056		2132	No Flare	Patrol													

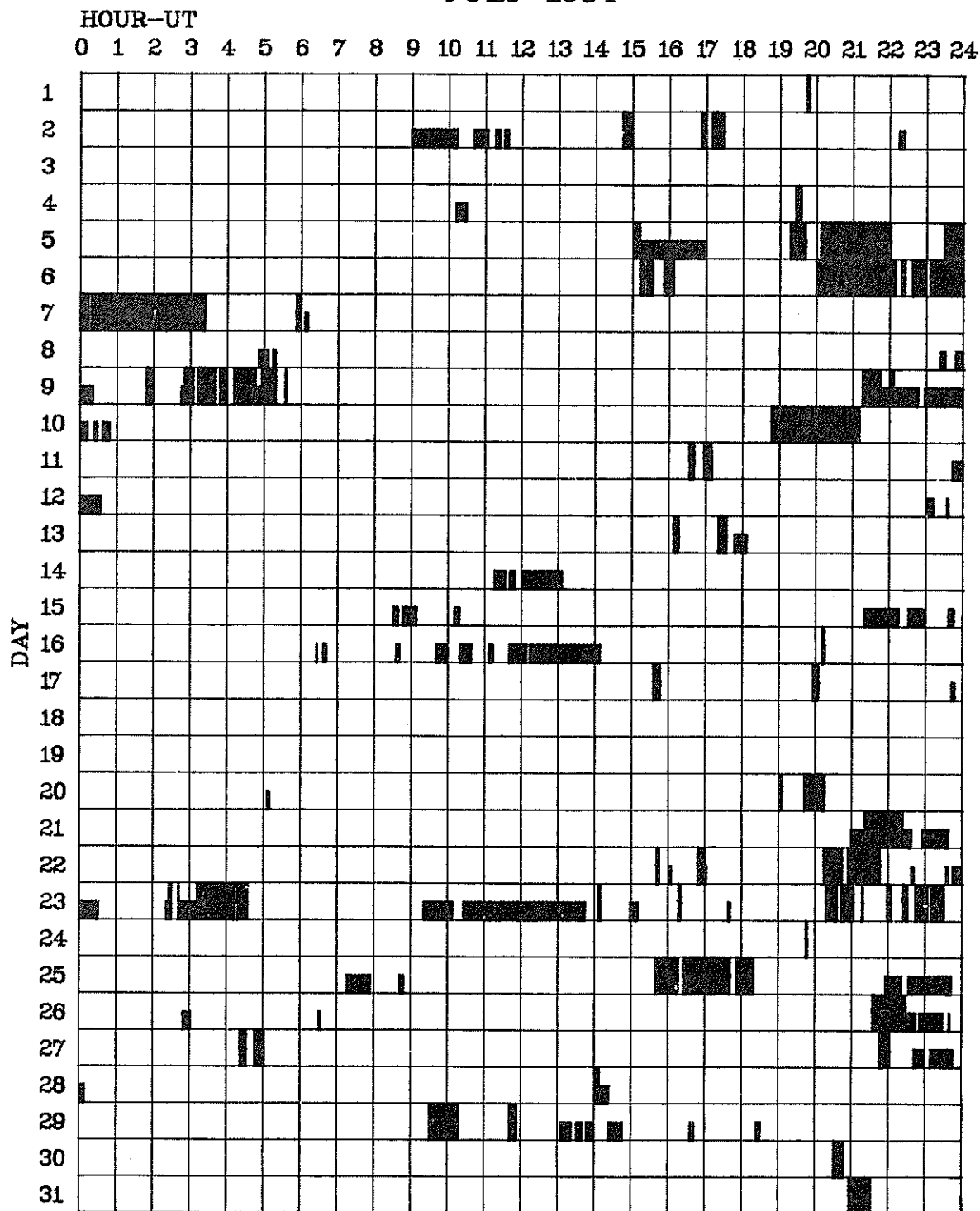
"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
 B = Probably the end of a more important flare.
 C = Invisible 10 minutes before.
 D = Brilliant point.
 E = Two or more brilliant points.
 F = Several eruptive centers.
 G = No visible spots in the neighborhood.
 H = Flare accompanied by high-speed dark filament.
 I = Active region very extended.
 J = Distinct variations of plage intensity before or after the flare.
 K = Several intensity maxima.
 L = Existing filaments show signs of sudden activity.
 M = White-light flare.
 N = Continuous spectrum shows effects of polarization.

O = Observations have been made in the H and K lines of Ca II.
 P = Flare shows helium D3 in emission.
 Q = Flare shows Balmer continuum in emission.
 R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
 S = Brightness follows disappearance of filament in same position.
 T = Region active all day.
 U = Two bright branches, parallel or converging.
 V = Occurrence of an explosive phase: important, expansion within roughly 1 minute that often includes a significant intensity increase.
 W = Great increase in area after time of maximum intensity.
 X = Unusually wide H-alpha line.
 Y = System of loop-type prominences.
 Z = Major sunspot umbra covered by flare.

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

JULY 1984



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

Abastumani
Athens
Bucharest
Catania

Culgoora
Haute Provence
Holloman
Istanbul

Kanzelhoehe
Kharkov
Learmonth
Lvov

Manila
Mitaka
Palehua
Peking
Purple Mt.

Ramey
Urumqi
Voroshilov
Wendelstein
Yunnan

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	Remarks
0001	HTPR	01	1333	1343	1350	S17	E45	4552	08	5.0	17	SF		C		1343	20	.3	E
0002	HTPR	02	1004	1007	1021	S17	E36	4552	08	5.1	17	SF		C		1007	20	.3	
		02	1710		1723			No Flare Patrol											
		02	2053		2059			No Flare Patrol											
		03	0342		0344			No Flare Patrol											
0003	HTPR	03	1006	1010	1025	S05	E06		08	3.9	19	SF		C		1010	20	.2	E
0004	HTPR	03	1327	1332	1345	S18	E24	4552	08	5.4	18	SF		C		1332	30	.3	E
0005	HTPR	03	1349	1350	1410	N05	W10		08	2.8	21	SF		C		1350	20	.2	
		03	2126		2133			No Flare Patrol											
		03	2143		2148			No Flare Patrol											
		03	2217		2222			No Flare Patrol											
0006		04	03207	03282	0336	S17	E14	4552	08	5.2	16	SN					88	1.2	
	URUM	04	0320	0330	0337	S16	E13	4552	08	5.1	17	SN		C			79	.9	
	LEAR	04	0327	0328	0335	S17	E14	4552	08	5.2	8	SF	3	C			45		
	YUNN	04	0327	0329	0335	S17	E14	4552	08	5.2	8	SN		C			141	1.6	
0007	ABST	04	0553E	0556	0615D	S17	E14	4552	08	5.3	22D	SF		P		0556	131	1.4	D
		04	1704		1831			No Flare Patrol											
		04	1858		1953			No Flare Patrol											
0008	PALE	04	2011	2012	2018	S17	E05	4552	08	5.2	7	SF		3	C		76		F
0009		05	07555	08012	0814	N06	E60	4554	08	9.8	19	SF					19		F
	KANZ	05	0755	0803	0811	N07	E60	4554	08	9.8	16	SF		2					
	LEAR	05	0800	0801	0817	N06	E61	4554	08	9.9	17	SF		3	C		19		F
0010	KHAR	05	0937E		0952D	N08	E67	4554	08	10.4	15D	SF		V		0937			HJ
0011	RAMY	05	1401	1401	1410	N07	E60	4554	08	10.1	9	SF		3	C		19		F
		05	1912		1935			No Flare Patrol											
0012		05	20243	2037*	2134	N08	E56	4554	08	10.0	70	SN					49	1.9	BDFK
	PALE	05	2024	2035U	2052	N08	E57	4554	08	10.1	28	SF	2	C			41		F
	HOLL	05	2027	2037	2154	N07	E55	4554	08	10.0	87	SN	3	C			23		K
	HOLL	05	2027	2119	2154	N07	E55	4554	08	10.0	87	SN	3	C			24		K
	VORO	05	2100E	2102	2135	N10	E58	4554	08	10.2	35D	SN		C		2102	108	1.9	BD
0013		06	00471	00472	0057	N07	E55	4554	08	10.1	10	SN					105	2.8	E
	LEAR	06	0047	0047	0058	N07	E55	4554	08	10.1	11	SN		3	C		76		
	VORO	06	0047	0049	0051D	N07	E56	4554	08	10.2	4D	1F		C		0049	161	2.8	E
	PALE	06	0048	0048	0056	N07	E55	4554	08	10.1	8	SN		3	C		77		
0014	LEAR	06	0430	0430	0434	N07	E53	4554	08	10.1	4	SF		3	C		39		
0015	PEKG	06	0643	0652	0702D	S09	E31	4553	08	8.6	19D	SF		P		0652	17	.2	D
0016		06	1859	19001	1906	N12	W72		08	1.4	7	SF					38		
	RAMY	06	1859	1900	1905	N11	W74		08	1.2	6	SF		3	C		29		
	HOLL	06	1859	1901	1908	N13	W70		08	1.5	9	SF		3	C		46		
0017		06	21391	21401	2150	S17	W22	4552	08	5.2	11	SF					40	.7	FHS
	CULG	06	2139	2140	2154	S18	W21	4552	08	5.3	15	SF		C		2140	60	.7	FH
	PALE	06	2140	2141	2145	S16	W22	4552	08	5.2	5	SF		3	C		20		S
0018	LEAR	07	0003	0006	0017	N08	E43	4554	08	10.2	14	SF		3	C		20		
0019		07	0614E	0735	0800	N06	E38	4554	08	10.1	106D	SN					60	.7	BE
	HTPR	07	0614E		0800	N07	E37	4554	08	10.0	106D	SN		C		0624	60	.7	BE
	KHAR	07	0735E	0735	0747D	N06	E40	4554	08	10.3	12D	SF		V		0735			

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Area Measurement		Corr	Remarks		
								USAF Region						Mo	Day			(Min)	Opt
0020	HTPR	07	0949	0959	1009	S15	W37		08	4.6	20	SF		C	0959	20	.2	E	
0021	HTPR	07	1150	1154	1340	N07	E34	4554	08	10.0	110	SF		C	1154	30	.4	E	
		07	1528		1538	No Flare Patrol													
		07	1544		1618	No Flare Patrol													
0022	RAMY	07	1827	1827	1840	N08	E32	4554	08	10.2	13	SF		3	C		28		F
0023	CULG	07	2144	2146	2201	N02	E25	4556	08	9.8	17	SF		C	2146	120	1.3	FH	
0024		08	0616	0617	0627	N03	E62	4560A	08	12.9	11	SF				30	.6	EJ	
	CULG	08	0616	0617	0627	N05	E61	4560A	08	12.8	11	SF		C	0617	30	.6	EJ	
	KHAR	08	0630E		0643D	N01	E62	4560A	08	12.9	13D	SF		V	0630			EJ	
0025		08	0822E		0827	S18	E90		08	15.2	5D	SN						AD	
	ISTA	08	0822E		0827	S16	E90		08	15.2	5D	SN						DA	
	ISTA	08	0830E		0942D	S19	E90		08	15.2	72D	SN						DA	
		08	1841		1846	No Flare Patrol													
		08	2037		2044	No Flare Patrol													
0026	CATA	09	0915	0915	0920	N12	E11	4559	08	10.2	5	S		2	C	0915	39	.4	
		09	1511		1517	No Flare Patrol													
		09	1848		2018	No Flare Patrol													
		09	2053		2330	No Flare Patrol													
0027		10	0718	07182	0726	N10	W77	4558	08	4.5	8	SF				76		J	
	KHAR	10	0716E		0736D	N10	W79	4558	08	4.4	20D	SF		V	0716			J	
	LEAR	10	0718	0718	0726	N11	W75	4558	08	4.7	8	SF		3	C		13		
	CATA	10	0720E	0720	0730D	N08	W76	4558	08	4.6	10D	1		1	P	0720	140		
		10	1616		1620	No Flare Patrol													
		10	1719		1809	No Flare Patrol													
		10	2049		2223	No Flare Patrol													
		10	2225		2228	No Flare Patrol													
		10	2300		2304	No Flare Patrol													
0028		11	0805	0748*	0821	N10	W90	4558	08	4.6	16	SF				20			
	KHAR	11	0745E	0748	0806D	N10	W90	4558	08	4.6	21D	SF		V	0748				
	HTPR	11	0805	0811	0821	N11	W90	4558	08	4.6	16	SF		C	0811	20			
0029		11	0847E	0905	1030D	N10	W85	4558	08	5.0	103D	SN							
	KHAR	11	0847E		0854D	N10	W85	4558	08	5.0	7D	SF		V					
	KHAR	11	0904E	0905	1030D	N10	W85	4558	08	5.0	86D	SN		V	0905				
		11	2031		2036	No Flare Patrol													
0030		12	0907E		0940D	N08	W32	4554	08	10.0	33D	SF						EH	
	KHAR	12	0907E		0925D	N07	W33	4554	08	9.9	18D	SF		V	0909			EH	
	KHAR	12	0932E		0940D	N09	W32	4554	08	10.0	8D	SF		V	0935			E	
0031	CATA	12	1135E	1135	1145D	N15	W31	4559	08	10.1	10D	S		2	P	1135	56	.7	
		12	2032		2044	No Flare Patrol													
		12	2058		2121	No Flare Patrol													
		13	1945		2116	No Flare Patrol													
		13	2150		2157	No Flare Patrol													
0032		14	06511	06537	0734	N09	W56	4554	08	10.1	43	SN	C 1.0			75	1.4	EF	
	LEAR	14	0651	0653	0736	N09	W55	4554	08	10.1	45	SF	C 1.0	3	C	84		F	
	HTPR	14	0652		0702D	N08	W58	4554	08	9.9	10D	SN		C	0653	60	1.2	E	
	ATHN	14	0658E	0700	0732	N09	W54	4554	08	10.2	34D	SN		3	V	0700	80	1.5	
		14	1015		1031	No Flare Patrol													
0033	RAMY	14	1225	1229	1255D	N08	W58	4554	08	10.2	30D	SF		3	C		69		

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																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
			14 1602		1632			No Flare Patrol											
0034	HOLL	14	1815	1822	1851	N08	W60	4554	08	10.3	36	SF		3	C		82		F
			14 1938		2036			No Flare Patrol											
			14 2043		2047			No Flare Patrol											
0035		14	2356	2358	2412	N08	W65	4554	08	10.1	16	1N					143	4.2	EF
	PEKG	14	2355E	2359	2406	N08	W64	4554	08	10.2	11D	1N			C	2359	181	4.2	E
	MITK	14	2356	2358	2413	N08	W65	4554	08	10.1	17	1N			C	2358	130		
	LEAR	14	2356	2359	2412	N10	W66	4554	08	10.0	16	1N		3	C		133		F
	HOLL	15	0004E	0004	0016	N08	W65	4554	08	10.1	12D	1N		2	C		127		F
0036	PALE	15	0038	0038	0042	N07	W64	4554	08	10.2	4	SF		3	C		36		
0037		15	01112	01162	0132	N08	W64	4554	08	10.2	21	SF					64	1.7	EF
	YUNN	15	0111	0116	0120D	N08	W66	4554	08	10.1	9D	SF			P		47	1.0	
	LEAR	15	0112	0116	0131	N09	W64	4554	08	10.2	19	SF		3	C		38		FE
	PALE	15	0112	0117	0135	N07	W64	4554	08	10.2	23	SF		3	C		68		F
	PEKG	15	0113	0118	0130	N08	W64	4554	08	10.2	17	1N			C	0118	101	2.4	E
			15 1401		1431			No Flare Patrol											
			15 1442		1451			No Flare Patrol											
0038	RAMY	15	1601	1602	1612	N07	W73	4554	08	10.2	11	SF		3	C		12		F
			15 1920		1930			No Flare Patrol											
			15 2040		2051			No Flare Patrol											
0039		16	07522	07542	0804	N09	W82	4554	08	10.2	12	SF					20		
	HTPR	16	0752	0756	0802	N09	W82	4554	08	10.2	10	SF			C	0756	20		
	KANZ	16	0754	0754	0805	N09	W83	4554	08	10.1	11	SF		2					
			16 1228		1229			No Flare Patrol											
			16 1828		1843			No Flare Patrol											
			16 1910		1921			No Flare Patrol											
			16 1925		1945			No Flare Patrol											
			16 1949		2036			No Flare Patrol											
			16 2046		2129			No Flare Patrol											
0040		17	0733*	0742*	0815	N04	W70	4563	08	12.1	42	SF					70		E
	WEND	17	0733	0742	0802	N04	W67	4563	08	12.3	29	SF			C	0742	63		
	HTPR	17	0735	0742	0803	N03	W72	4563	08	11.9	28	SF			C	0742	30		E
	CATA	17	0800E	0800	0850D	N05	W68	4563	08	12.2	50D	1		2	P	0800	169		
	HTPR	17	0825	0833	0840	N03	W72	4563	08	12.0	15	SF			C	0833	20		E
0041	HTPR	17	0740	0743	0746	S18	E08		08	17.9	6	SF			C	0743	10	.1	G
0042	HTPR	17	0918	0933	0943	N03	W73	4563	08	11.9	25	SF			C	0933	10		
0043	HTPR	17	0954	0958	1002	N03	W73	4563	08	11.9	8	SF			C	0958	10		
0044		17	1047	1059	1114	N02	W72	4563	08	12.1	27	SF					14		
	HTPR	17	1047		1057D	N03	W74	4563	08	11.9	10D	SF			C	1051	10		
	RAMY	17	1057E	1059	1114	N02	W71	4563	08	12.1	17D	SF		3	C		18		
0045		17	1253*	1326	1329	N03	W75	4563	08	11.9	36	SF					21		E
	HTPR	17	1253		1400D	N03	W75	4563	08	11.9	67D	SF			C	1308	20		E
	RAMY	17	1319	1326	1329	N03	W75	4563	08	11.9	10	SF		3	C		22		
0046	RAMY	17	1428	1437	1457D	N02	W74	4563	08	12.1	29D	SF		3	C		19		
0047	HOLL	17	1610	1705	1726	N03	W76	4563	08	12.0	76	SF		3	C		19		
0048		17	2119	2122	2155	N04	W81	4563	08	11.8	36	SF					14		K
	HOLL	17	2119	2122	2155	N04	W81	4563	08	11.8	36	SF		2	C		11		K
	HOLL	17	2119	2139U	2155	N04	W81	4563	08	11.8	36	SF		2	C		18		K

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0049	HOLL	17	2226	2240U	2314	N04	W78	4563	08	12.1	48	SF		3	C		21		
0050	YUNN	18	0053	0056	0200	N02	W90	4563	08	11.3	67	1N			C		63		T
0051		18	0252	0244*	0256	N03	W89	4563	08	11.5	4	1B					47		DEG
	URUM	18	0242E	0244	0252	N04	W88	4563	08	11.5	100	1B			P		47		D
	URUM	18	0252	0258	0301	N02	W90	4563	08	11.4	9	1B			C		47		EG
0052	URUM	18	0524	0544	0554	N03	W83	4563	08	12.0	30	SN			C		31		G
0053		18	0720	07291	0740	N03	W90	4563	08	11.6	20	1N					20		AD
	KHAR	18	0717E	0729	0820D	N03	W90	4563	08	11.6	63D	1N			P	0729			AD
	HTPR	18	0720	0730	0740	N03	W90	4563	08	11.6	20	SF			C	0730	20		
0054		18	0843	0848	0917	N04	W90	4563	08	11.6	34	SN					20		D
	KHAR	18	0826E		0857D	N05	W90	4563	08	11.6	31D	SN			V	0826			D
	HTPR	18	0843	0848	0917	N03	W90	4563	08	11.6	34	SF			C	0848	20		
0055		18	0934*	0944*	1003	N03	W90	4563	08	11.7	29	1B					53		ADG
	URUM	18	0934	0944	0954	N03	W90	4563	08	11.7	20	1B			C		63		DG
	HTPR	18	0937	0946	1000	N03	W90	4563	08	11.7	23	SB			C	0946	50		A
	KHAR	18	0943E		0954D	N05	W90	4563	08	11.7	11D	SN			V	0943			D
	URUM	18	0959	1004	1014	N02	W90	4563	08	11.7	15	1N			C		47		G
0056		18	1024	1029	1039	N02	W90	4563	08	11.7	15	SN					31		ADG
	KHAR	18	1020E		1045D	N03	W90	4563	08	11.7	25D	SN			V	1028			AD
	URUM	18	1024	1029	1039	N02	W90	4563	08	11.7	15	SN			C		31		G
0057	KHAR	18	1102E	1104	1145D	N05	W90	4563	08	11.7	43D	SN			V	1104			D
0058	HTPR	18	1225	1226	1232	N05	W90	4563	08	11.8	7	SN			C	1226	10		
0059	MITK	19	0203	0207	0219	N05	W90	4563	08	12.3	16	1N			C	0207	100		
		19	1131		1209	No Flare Patrol													
0060	HTPR	19	1227	1234	1257	N03	W90	4563	08	12.8	30	SF			C	1234	20		
		19	2013		2017	No Flare Patrol													
		19	2023		2029	No Flare Patrol													
		19	2039		2042	No Flare Patrol													
		19	2209		2218	No Flare Patrol													
		19	2220		2321	No Flare Patrol													
		19	2331		2340	No Flare Patrol													
		20	2034		2039	No Flare Patrol													
		20	2117		2122	No Flare Patrol													
		20	2139		2202	No Flare Patrol													
		20	2225		2228	No Flare Patrol													
0061	HTPR	21	1204	1210	1225	N16	E80		08	27.6	21	SF			C	1210	10		
0062	CULG	21	2137E	2141	2158	N17	E72		08	27.4	21D	1F			P	2141	140		
0063	YUNN	22	0805E	0806	0811	N09	E89		08	29.0	6D	SF			P		16		G
0064	HTPR	22	1157	1159	1205	N16	E58		08	26.9	8	SF			C	1159	10	.2	
		22	1425		1449	No Flare Patrol													
		22	1731		1735	No Flare Patrol													
		22	1839		1929	No Flare Patrol													
		22	1950		2044	No Flare Patrol													
		22	2203		2228	No Flare Patrol													
		22	2240		2249	No Flare Patrol													
		23	1554		1559	No Flare Patrol													
0065		24	1037	1030*	1101	S14	E00	4565	08	24.4	24	SN					52	.6	D
	CATA	24	1030E	1030	1040D	S15	E01	4565	08	24.5	10D	S		2	P	1030	56	.6	
	URUM	24	1037	1042	1101	S14	E00	4565	08	24.4	24	SN			C		47	.5	D

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0066		24	1159	1208	1220	S16	W01	4565	08	24.4	21	SN						64	1.1	BCDFJLST
	RAMY	24	1159	1208	1218	S14	W00	4565	08	24.5	19	SN						28		FS
	LVOV	24	1208	1208	1223	S17	W02	4565	08	24.3	15	SF			3	C	1208	100	1.1	BCDJLT
0067	RAMY	24	1257	1300	1311	S14	W01	4565	08	24.5	14	SF			3	C		26		F
0068	RAMY	24	1356	1356	1404	S13	W02	4565	08	24.4	8	SF			3	C		29		F
0069		24	1445*	14524	1510	S14	W03	4565	08	24.4	25	SN						80	1.4	DEFJLT
	RAMY	24	1445	1452	1510	S13	W02	4565	08	24.5	25	SB			3	C		37		F
	LVOV	24	1448	1452	1506	S17	W03	4565	08	24.4	18	1F					200	2.3	DJLT	
	HTPR	24	1450E		1511	S13	W05	4565	08	24.2	21D	SB					1452	40	.4	E
	HOLL	24	1456	1456	1512	S13	W03	4565	08	24.4	16	SN			3	C	1453	42		F
0070		24	1626*	1627*	1724	S14	W04	4565	08	24.4	58	SF						38		F
	RAMY	24	1626	1627	1714	S13	W04	4565	08	24.4	48	SF			3	C		37		F
	HOLL	24	1657	1657	1735	S14	W05	4565	08	24.3	38	SF			3	C		38		F
0071		24	1739	1739	1749	S13	W05	4565	08	24.3	10	SN						53		FS
	HOLL	24	1739	1739	1744	S13	W05	4565	08	24.3	5	SN			3	C		42		F
	RAMY	24	1739	1739	1750	S13	W05	4565	08	24.3	11	SN			3	C		34		FS
	PALE	24	1739	1739	1752	S13	W05	4565	08	24.3	13	SN			3	C		83		F
0072		24	1850	1850	1900	S14	W06	4565	08	24.3	10	SF						28		F
	RAMY	24	1850	1850	1904	S14	W06	4565	08	24.3	14	SF			3	C		32		F
	PALE	24	1850	1851	1855	S14	W06	4565	08	24.3	5	SF			3	C		24		
0073		24	19066	19141	1924	S14	W06	4565	08	24.3	18	SF						46		F
	PALE	24	1906	1915	1922	S14	W05	4565	08	24.4	16	SF			3	C		52		
	RAMY	24	1912	1914	1927	S14	W06	4565	08	24.3	15	SF			3	C		41		F
0074		24	20542</																	

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																Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0085	LEAR	25	2318	2318	2327	S13	W72	4566	08	20.5	9	SF		3	C		13		
0086	LEAR	25	2338	2339	2353	S14	W73	4566	08	20.5	15	SF		3	C		13		
0087	LEAR	25	2339	2345	2353	S06	E65	4567	08	30.8	14	SF		3	C		16		F
0088	LEAR	25	2358	2413	2417	S05	E64	4567	08	30.8	19	SF		3	C		25		
0089	LEAR	26	0115	0115	0133	S05	E64	4567	08	30.8	18	SN		3	C		17		F
0090		26	0136*	0139*	0227	S05	E64	4567	08	30.8	51	SB	C 3.5				50	1.9	FK
	LEAR	26	0136	0139	0146	S05	E64	4567	08	30.8	10	SF		3	C		16		F
	URUM	26	0148E	0200	0208	S06	E65	4567	08	30.9	20D	SB			P		47		
	LEAR	26	0205	0208	0241	S06	E63	4567	08	30.8	36	SN		3	C		29		K
	LEAR	26	0205	0216	0241	S06	E63	4567	08	30.8	36	SB	C 3.5	3	C		52		K
	URUM	26	0212	0216	0224	S06	E65	4567	08	30.9	12	SB			C		47		
	PALE	26	0213E	0215	0219D	S05	E65	4567	08	30.9	6D	SB	C 3.5	3	C		84		
	URUM	26	0239	0241	0300	S04	E64	4567	08	30.9	21	SB			C		79	1.9	
0091	URUM	26	0152	0156	0211	S13	W25	4565	08	24.2	19	SN			C		31	.4	
0092		26	0329	03357	0345	S06	E65	4567	08	31.0	16	SN					34	1.5	DHK
	LEAR	26	0329	0336	0348	S06	E64	4567	08	30.9	19	SN		3	C		20		HK
	LEAR	26	0329	0342	0348	S06	E64	4567	08	30.9	19	SN		3	C		19		K
	PEKG	26	0335E	0335	0340	S06	E66	4567	08	31.1	5D	SF			P	0335	63	1.5	D
0093		26	03515	04015	0425	S06	E64	4567	08	30.9	34	SN					25	.8	HKT
	LEAR	26	0351	0401	0425	S06	E64	4567	08	30.9	34	SN		3	C		21		K
	LEAR	26	0351	0406	0425	S06	E64	4567	08	30.9	34	SN		3	C		23		HK
	URUM	26	0356	0401	0426	S05	E63	4567	08	30.9	30	SN			C		31	.8	T
0094	LEAR	26	0409	0409	0411	N12	E68	4565A	08	31.3	2	1F		3	C		138		
0095		26	04464	04501	0459	S06	E64	4567	08	31.0	13	SN					18		
	URUM	26	0446	0451	0500	S06	E65	4567	08	31.1	14	SF			C		16		
	LEAR	26	0450	0450	0458	S06	E64	4567	08	31.0	8	SN		3	C		21		
0096		26	0511*	0512*	0538	S06	E64	4567	08	31.0	27	1N	C 2.0				98	6.4	DF
	LEAR	26	0511	0512	0520	S05	E63	4567	08	30.9	9	SF		3	C		18		
	PEKG	26	0520	0530	0530D	S08	E64	4567	08	31.0	10D	2N	C 2.0		P	0530	273	6.4	D
	URUM	26	0523	0527	0551	S07	E65	4567	08	31.1	28	SB			C		47		
	LEAR	26	0524	0527	0543	S06	E62	4567	08	30.9	19	SN	C 2.0	3	C		52		F
0097	LEAR	26	0611	0620	0628	S07	E63	4567	08	31.0	17	SF		3	C		16		F
0098		26	06382	06404	0649	S06	E64	4567	08	31.1	11	SN					51	1.1	DEFKT
	ABST	26	0637E	0640	0648	S06	E65	4567	08	31.1	11D	SN			P	0640	87		DKT
	LEAR	26	0638	0641	0644	S06	E64	4567	08	31.1	6	SN		3	C		18		FE
	URUM	26	0640	0644	0656	S06	E62	4567	08	30.9	16	SN			C		47	1.1	
0099		26	0658	0700*	0751	S05	E62	4567	08	30.9	53	SN					26		EFK
	LEAR	26	0658	0700	0751	S05	E62	4567	08	30.9	53	SN		3	C		19		K
	LEAR	26	0658	0720	0751	S05	E62	4567	08	30.9	53	SN		3	C		33		FEK
0100		26	07515	0803*	0823	S06	E60	4567	08	30.8	32	SB					32	.8	FK
	URUM	26	0751	0806	0816	S05	E59	4567	08	30.7	25	SN			C		63	1.3	
	LEAR	26	0756	0803	0826	S06	E60	4567	08	30.8	30	SB		3	C		32		FK
	LEAR	26	0756	0818	0826	S06	E60	4567	08	30.8	30	SB		3	C		17		K
	ATHN	26	0800E		0825	S08	E60	4567	08	30.8	25D	SB		2	V	0800	16	.3	
0101		26	0840	08464	0914	S06	E63	4567	08	31.1	34	SB	C 2.0				57	1.1	FK
	LEAR	26	0840	0846	0915	S05	E64	4567	08	31.1	35	SB		3	C		80		K
	LEAR	26	0840	0850	0915	S05	E64	4567	08	31.1	35	SB	C 2.0	3	C		43		FK
	ATHN	26	0846E	0850	0911	S08	E62	4567	08	31.0	25D	SB		2	V	0850	48	1.1	
0102		26	09217	09266	0942	S06	E59	4567	08	30.8	21	SN					44	1.4	
	URUM	26	0921	0926	0946	S05	E61	4567	08	30.9	25	SN			C		63	1.4	
	LEAR	26	0928	0932	0937	S06	E57	4567	08	30.7	9	SN		3	C		25		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0103	URUM	26	0951	1000	1026	S06	E60	4567	08	30.9	35	SN			C		79	1.7	
0104		26	1031	1036*	1130	S05	E58	4567	08	30.8	59	SN					37	.8	
	URUM	26	1031	1036	1051	S05	E59	4567	08	30.8	20	SN			C		39	.8	
	RAMY	26	1058E	1159	1208	S05	E58	4567	08	30.8	70D	SN		3	C		35		
0105	RAMY	26	1217	1225	1339	S05	E58	4567	08	30.8	82	SF		3	C		35		
0106	RAMY	26	1337	1342	1429	S15	W31	4565	08	24.2	52	SF		3	C		31		
0107	HOLL	26	1524	1534	1549D	S06	E57	4567	08	30.9	25D	SF		3	C		41		F
0108		26	15377	15444	1554	S13	W33	4565	08	24.2	17	SN					28		
	HOLL	26	1537	1544	1549D	S13	W33	4565	08	24.2	12D	SN		3	C		36		
	RAMY	26	1544	1548	1554	S13	W33	4565	08	24.2	10	SF		3	C		21		
0109	HOLL	26	1719	1720	1724	S06	E57	4567	08	31.0	5	SF		3	C		45		
0110	HOLL	26	2014	2016	2020	S08	E55	4567	08	31.0	6	SF		3	C		33		
0111	HOLL	26	2032	2033	2037	S12	W36	4565	08	24.1	5	SF		3	C		25		
		26	2120		2137	No Flare Patrol													
		26	2152		2205	No Flare Patrol													
0112	HOLL	27	0026	0027	0035	S08	E52	4567	08	30.9	9	SF		3	C		18		
0113	LEAR	27	0143	0144	0151	S07	E51	4567	08	30.9	8	SF		3	C		63		
0114		27	03012	03068	0326	S12	W40	4565	08	24.1	25	SN					25	.2	F
	URUM	27	0301	0306	0322	S12	W40	4565	08	24.1	21	SN			C		16	.2	
	LEAR	27	0303	0314	0329	S12	W40	4565	08	24.1	26	SF		3	C		34		F
0115	URUM	27	0737	0747	0801	S12	W44	4565	08	24.0	24	SF			C		79	1.2	
0116	URUM	27	0757	0812	0832D	S05	E48	4567	08	30.9	35D	SF			P		39	.6	E
0117	URUM	27	0857	0911	0936	S13	W46	4565	08	23.9	39	SN			C		47	.8	E
0118	URUM	27	1022	1027	1052	S13	W46	4565	08	24.0	30	SF			C		31	.5	E
0119	URUM	27	1107	1111	1116	S14	W47	4565	08	23.9	9	SF			C		79	1.3	E
0120	URUM	27	1132	1137U	1137D	S12	W44	4565	08	24.2	5D	SF			P	1137	79	1.2	E
0121	RAMY	27	1214	1215	1221	S13	W43	4565	08	24.3	7	SF		3	C		29		
0122	HOLL	27	1349	1359	1417	S12	W46	4565	08	24.1	28	SF		3	C		44		F
0123	RAMY	27	1428	1429	1435	S06	E44	4567	08	30.9	7	SF		3	C		26		
0124		27	1523	15231	1531	S13	W45	4565	08	24.2	8	SF					20		
	RAMY	27	1523	1523	1530	S13	W44	4565	08	24.3	7	SF		3	C		24		
	HOLL	27	1523	1524	1532	S13	W46	4565	08	24.2	9	SF		3	C		17		
0125		27	19099	19138	1933	S07	E42	4567	08	30.9	24	SN					38		FK
	HOLL	27	1909	1913	1934	S07	E42	4567	08	30.9	25	SN		3	C		26		K
	HOLL	27	1909	1921	1934	S07	E42	4567	08	30.9	25	SN		3	C		51		FK
	PALE	27	1918	1921	1932	S06	E41	4567	08	30.9	14	SF		3	C		36		
0126	HOLL	27	2001	2004	2010	S07	E41	4567	08	30.9	9	SF		3	C		29		
0127	HOLL	27	2020	2031	2054	S07	E40	4567	08	30.8	34	SF		3	C		37		
0128	HOLL	27	2204	2204	2211	S06	E39	4567	08	30.8	7	SN		3	C		20		
0129	LEAR	28	0047	0049	0058	S06	E38	4567	08	30.9	11	SF		3	C		24		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0130	URUM	28	0215	0217	0230	S06	E36	4567	08	30.8	15	SB			C		47	.6	
0131	URUM	28	0240	0245	0304D	S04	E46	4567	08	31.5	24D	SF			P		31	.5	
0132	URUM	28	0409	0414	0429	S06	E34	4567	08	30.7	20	SN			C		55	.7	
0133	URUM	28	0514	0524	0534	S06	E33	4567	08	30.7	20	SN			C		79	1.0	
0134	LEAR	28	0645	0656	0708	S04	E32	4567	08	30.7	23	SF	3		C		55		F
0135	LEAR	28	0742	0742	0746	S13	W55	4565	08	24.2	4	SF	3		C		20		F
		28	1141		1145	No Flare Patrol													
0136	HOLL	28	1350	1351	1355	S07	E31	4567	08	30.9	5	SF	3		C		33		
0137		28	1949*	2002*	2040	S14	W63	4565	08	24.1	51	SN					38		FH
	HOLL	28	1949	2002	2036	S14	W63	4565	08	24.1	47	SN	3		C		60		FH
	HOLL	28	2039	2040	2043	S14	W63	4565	08	24.1	4	SF	3		C		16		
0138	HOLL	28	1952	1957	2009	S07	E27	4567	08	30.8	17	SF	3		C		21		
0139		28	2105*	2106*	2125	S06	E28	4567	08	31.0	20	SF					24		F
	HOLL	28	2105	2106	2119	S06	E28	4567	08	31.0	14	SF	3		C		24		F
	HOLL	28	2120	2121	2131	S07	E27	4567	08	30.9	11	SF	3		C		24		F
0140	HOLL	28	2145	2153	2213	S14	W62	4565	08	24.2	28	SF	3		C		39		F
0141	HOLL	28	2358	2401	2417	S07	E25	4567	08	30.9	19	SF	3		C		24		F
0142	PALE	29	0040E	0044U	0053	S06	E24	4567	08	30.8	13D	SF	3		C		34		F
0143	URUM	29	0204	0205	0232	S07	E23	4567	08	30.8	28	SN			C		47	.5	F
0144	URUM	29	0204	0205	0218	S12	W67	4565	08	24.0	14	SN			C		16		FG
0145		29	0733E	0801	0813D	S08	E20	4567	08	30.8	40D	SF					120	1.3	DEL
	KHAR	29	0733E		0757D	S08	E21	4567	08	30.9	24D	SF		P		0733	120	1.3	EL
	KHAR	29	0800E	0801	0813D	S08	E19	4567	08	30.7	13D	SF		V		0801			D
0146		29	08207	08323	0852	S06	E17	4567	08	30.6	32	SN					65	.7	E
	BUCA	29	0820	0835	0855	S05	E20	4567	08	30.8	35	SN			C	0835	64	.7	E
	HTPR	29	0827	0832	0850	S06	E10	4567	08	30.1	23	SF			C	0832	30	.3	E
	KHAR	29	0831E	0833	0846D	S08	E22	4567	08	31.0	15D	SN			V	0833	100	1.1	E
0147	HTPR	29	1020	1020	1031	S06	E17	4567	08	30.7	11	SF			C	1020	20	.2	E
0148	RAMY	29	1304	1304	1312	S07	E19	4567	08	31.0	8	SF	3		C		28		
0149	HTPR	29	1537	1538	1541	S05	E03	4567	08	29.9	4	SF			C	1538	20	.2	E
		30	0131		0133	No Flare Patrol													
0150	HTPR	30	1345	1410	1415	N04	E90	4569A	09	6.3	30	SF			C	1410	10		
0151	HTPR	30	1425		1504D	N07	E70	4569	09	4.8	39D	SF			C	1431	20	.5	
0152	HOLL	30	1751	1755	1800	S06	E02	4567	08	30.9	9	SF	3		C		22		
		30	2051		2059	No Flare Patrol													
		30	2104		2127	No Flare Patrol													
0153	CULG	30	2214	2215	2222	S04	W06	4567	08	30.5	8	SF			C	2215	20	.2	
0154		31	01343	01375	0154	S08	W02	4567	08	30.9	20	SF					113	1.8	FU
	CULG	31	0134	0142	0157	S09	W01	4567	08	31.0	23	SF			C	0142	180	1.8	F
	LEAR	31	0137	0137	0150	S08	W03	4567	08	30.8	13	SF	3		C		46		UF

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AUGUST 1984

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	Remarks
0155		31	02213	02244	0232	S06	W08	4567	08	30.5	11	SN					84	1.3	H
	CULG	31	0221	0224	0232	S05	W08	4567	08	30.5	11	SN			C	0224	130	1.3	H
	MITK	31	0223	0224	0232	S07	W09	4567	08	30.4	9	SN			C	0225			H
	LEAR	31	0224	0228	0232	S05	W08	4567	08	30.5	8	SF		3	C		39		H
0156		31	0734	0746*	0840	N08	E64	4569	09	5.1	66	SF					40	.8	EK
	HTPR	31	0734	0746	0840	N08	E64	4569	09	5.1	66	SF			C	0828	40	.8	EK
	HTPR	31	0734	0828	0840	N08	E64	4569	09	5.1	66	SF			C	0828	40	.8	EK
0157	HTPR	31	1036	1041	1049	S06	W07	4567	08	30.9	13	SF			C	1041	30	.3	E
0158	HTPR	31	1243	1250	1340	S06	W10	4567	08	30.8	57	SF			C	1250	10	.1	
0159	HTPR	31	1430	1441	1520	S08	W10	4567	08	30.8	50	SF			C	1441	20	.2	E
0160	HTPR	31	1512		1531D	N08	E60	4569	09	5.1	19D	SF			C	1517	30	.6	E
0161	HOLL	31	1931	1940	1950	S07	W13	4567	08	30.8	19	SF		3	C		43		

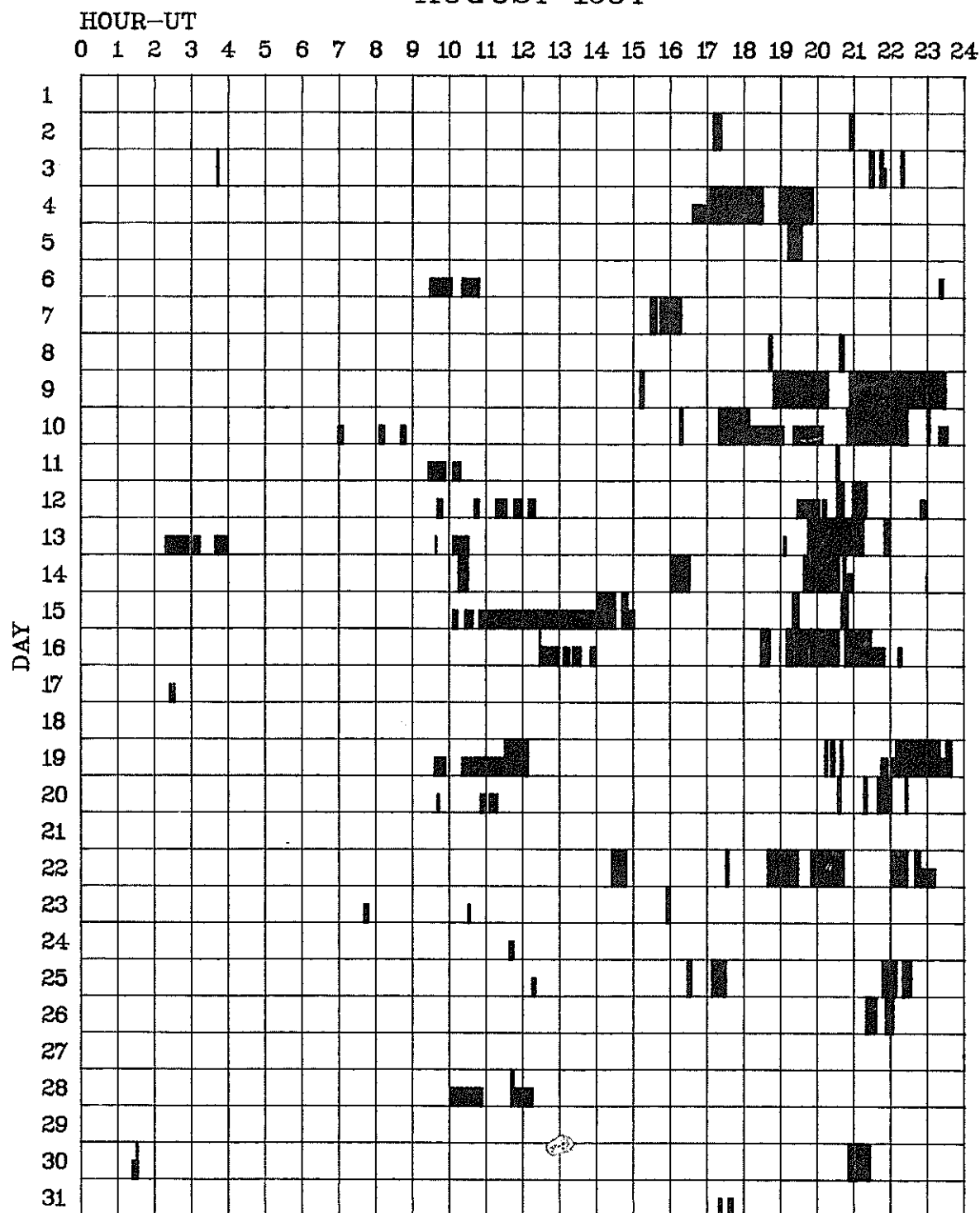
"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
 B = Probably the end of a more important flare.
 C = Invisible 10 minutes before.
 D = Brilliant point.
 E = Two or more brilliant points.
 F = Several eruptive centers.
 G = No visible spots in the neighborhood.
 H = Flare accompanied by high-speed dark filament.
 I = Active region very extended.
 J = Distinct variations of plage intensity before or after the flare.
 K = Several intensity maxima.
 L = Existing filaments show signs of sudden activity.
 M = White-light flare.
 N = Continuous spectrum shows effects of polarization.

O = Observations have been made in the H and K lines of Ca II.
 P = Flare shows helium D3 in emission.
 Q = Flare shows Balmer continuum in emission.
 R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
 S = Brightness follows disappearance of filament in same position.
 T = Region active all day.
 U = Two bright branches, parallel or converging.
 V = Occurrence of an explosive phase: important, expansion within roughly 1 minute that often includes a significant intensity increase.
 W = Great increase in area after time of maximum intensity.
 X = Unusually wide H-alpha line.
 Y = System of loop-type prominences.
 Z = Major sunspot umbra covered by flare.

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

AUGUST 1984



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

Abastumani
Athens
Bucharest
Catania

Culgoora
Haute Provence
Holloman
Istanbul

Kanzelhoehe
Kharkov
Learmonth
Lvov

Mitaka
Palehua
Peking
Ramey

Urumqi
Voroshilov
Wendelstein
Yunnan

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SEPTEMBER 1984

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement			Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)		
0001	PEKG	01	0110E	0110	0114	S09	W16	4567	08	30.9	4D	SF			P	0110	29	.3	E	
0002	LEAR	01	0229	0229	0248	S07	W17	4567	08	30.9	19	SF		3	C		22			
0003		01	0810	0810	0821	S08	W19	4567	08	31.0	11	SN	C 1.0				74	.7	EF	
	KANZ	01	0810	0810	0814	S08	W19	4567	08	31.0	4	SN		2					E	
	LEAR	01	0810	0810	0830	S07	W19	4567	08	31.0	20	SN	C 1.0	3	C		83		F	
	BUCA	01	0810	0811	0819	S08	W20	4567	08	30.9	9	SN		C		0811	64	.7	E	
0004	PEKG	02	0001E	0001	0004D	S05	W30	4567	08	30.8	3D	SF			P	0001	42	.5	D	
0005	PEKG	02	0331E	0331	0335	S05	W32	4567	08	30.8	4D	SN			P	0331	42	.5	D	
0006	LEAR	02	0439	0439	0445	N02	E55	4573	09	6.3	6	SF		3	C		15			
0007	CATA	02	0630	0630	0700	S05	W36	4567	08	30.7	30	S		2	C	0630	28	.4		
0008		02	07223	07243	0736	S06	W36	4567	08	30.7	14	SN					47	.6	D	
	KANZ	02	0722	0726	0730	S06	W37	4567	08	30.6	8	SB		2						
	WEND	02	0723	0724	0734	S06	W36	4567	08	30.7	11	SF		C		0724	31	.4		
	LEAR	02	0724	0725	0729	S05	W37	4567	08	30.6	5	SN		3	C		40			
	BUCA	02	0725	0727	0750	S05	W37	4567	08	30.6	25	SN		C		0727	86	1.1	D	
	ATHN	02	0726E	0727	0730D	S07	W33	4567	08	30.9	4D	SN		3	V	0727	32	.4		
0009	ABST	02	0842E	0843	0850	S04	W35	4567	08	30.8	8D	SN			P	0843	87	1.1	D	
0010		02	1003*	1011*	1048	S07	W35	4567	08	30.9	45	1N	C 8.5				200	2.6	F	
	KANZ	02	1003	1011	1051	S07	W33	4567	08	31.0	48	1N		2						
	WEND	02	1004	1031	1053	S07	W34	4567	08	31.0	49	1N		C		1031	200	2.5		
	ATHN	02	1010E	1012	1044	S07	W33	4567	08	31.0	34D	1B	C 8.5	2	V	1012	207	2.6		
	CATA	02	1015E	1015	1140D	S08	W34	4567	08	31.0	85D	1		2	P	1015	337	4.4		
	KANZ	02	1031	1031	1035	S05	W39	4567	08	30.6	4	SB		2						
	CATA	02	1035	1040	1045	S06	W38	4567	08	30.7	10	S		2	C	1040	56	.8		
	RAMY	02	1041E		1103	S07	W34	4567	08	31.0	22D	SF		3	C				F	
0011	RAMY	02	1113	1120	1132	S09	W32	4567	08	31.1	19	SF		3	C		21			
0012	RAMY	02	1249	1249	1308	N02	E50	4573	09	6.3	19	SF		3	C		19		F	
0013	HOLL	02	2216	2216	2219	S11	W04	4572	09	2.6	3	SF		3	C		23			
0014		02	2254	23022	2313	S12	W04	4572	09	2.6	19	SF					30	.3	D	
	HOLL	02	2254	2302	2313	S12	W04	4572	09	2.6	19	SF		3	C		36			
	PEKG	02	2304E	2304	2304D	S12	W05	4572	09	2.6	19D	SF		P		2304	25	.3	D	
0015		02	23444	23482	2352	S09	W41	4567	08	31.0	8	SN					36	.6	DF	
	VORO	02	2344	2348	2350	S08	W42	4567	08	30.9	6	SN		C		2348	45	.6	D	
	HOLL	02	2346	2350	2353	S09	W41	4567	08	31.0	7	SN		3	C		28		F	
	LEAR	02	2348	2349	2353	S09	W41	4567	08	31.0	5	SF		3	C		34			
0016	URUM	03	0204E	0205	0209	S12	W04	4572	09	2.8	5D	SN			P		39	.4	FT	
0017	URUM	03	0204E	0205	0209	S06	W44	4567	08	30.9	5D	SN			P		63	.9	T	
0018	URUM	03	0229	0234	0239	S12	W05	4572	09	2.7	10	SN			C		31	.3	T	
0019	URUM	03	0319	0329	0329D	S12	W07	4572	09	2.6	10D	SN			P		16	.2	DT	
0020		03	03498	03583	0403	S12	W08	4572	09	2.5	14	SF					61	.4	BDEGT	
	URUM	03	0349	0359	0404	S12	W07	4572	09	2.6	15	SN		C			31	.3	GT	
	LEAR	03	0357	0358	0402	S11	W08	4572	09	2.6	5	SF		3	C		30			
	ABST	03	0358E	0358	0404D	S11	W08	4572	09	2.6	6D	1F		P		0358	148		BE	
	PEKG	03	0401E	0401	0404	S13	W08	4572	09	2.6	3D	SF		C		0401	34	.4	D	
0021	URUM	03	0529	0534	0549	S12	W06	4572	09	2.8	20	SN			C		31	.3	FGT	
0022		03	07143	07152	0721	S08	W46	4567	08	30.9	7	SF					28			
	LEAR	03	0714	0715	0722	S08	W46	4567	08	30.9	8	SF		3	C		28			
	KANZ	03	0717	0717	0720	S07	W46	4567	08	30.9	3	SF		2						

52
Sep 84

H - ALPHA SOLAR FLARES

SEPTEMBER 1984

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0023		03	07441	07481	0803	S12	W10	4572	09	2.6	19	SF					46		
	KANZ	03	0744	0748	0803	S12	W10	4572	09	2.6	19	SF		2					
	LEAR	03	0745	0749	0803	S11	W09	4572	09	2.6	18	SF		3	C		46		
0024	LEAR	03	0808	0809	0820	S07	W47	4567	08	30.9	12	SF		3	C		20		
0025		03	08233	08254	0836	S12	W45	4574	08	31.0	13	SF					32	.5	DEL
	LEAR	03	0823	0826	0832	S12	W45	4574	08	31.0	9	SF		3	C		29		
	CATA	03	0825	0825	0845	S12	W45	4574	08	31.0	20	S		2	C	0825	56	.9	
	KANZ	03	0826	0829	0833	S11	W45	4574	08	31.0	7	SF		2					
	PEKG	03	0826E	0829	0836	S12	W45	4574	08	31.0	10D	SF			C	0829	21	.3	E
	KHAR	03	0827E	0828	0832D	S12	W46	4574	08	31.0	5D	SF			V	0828	20	.3	DL
0026		03	0826	0828*	0906	S12	W11	4572	09	2.5	40	SN					33	.4	DEG HK
	LEAR	03	0826	0828	0915	S11	W10	4572	09	2.6	49	SF		3	C		26		K
	KANZ	03	0826	0833	0910	S11	W10	4572	09	2.6	44	SN		2					
	LEAR	03	0826	0904	0915	S11	W10	4572	09	2.6	49	SF		3	C		33		K
	PEKG	03	0828E	0828	0845	S12	W10	4572	09	2.6	17D	SF			C	0828	34	.4	E
	KHAR	03	0832E	0837	0850D	S12	W12	4572	09	2.4	18D	SN			V	0837	40	.5	DG
	KHAR	03	0903E		0923D	S12	W12	4572	09	2.5	20D	SN			V	0903			DGH
0027		03	0921	09251	0934	N05	E24	4569	09	5.2	13	SF					17	.2	EG
	KANZ	03	0921	0925	0932	N05	E23	4569	09	5.1	11	SF		2					G
	PEKG	03	0921	0926	0936	N05	E24	4569	09	5.2	15	SF			C	0926	17	.2	E
0028	URUM	03	1029	1034	1039	S06	W48	4567	08	30.9	10	SF			C		31	.5	DT
0029		03	1044	1049	1054	S12	W12	4572	09	2.5	10	SN					16	.2	DGLT
	KHAR	03	1012E		1042D	S12	W13	4572	09	2.4	30D	SF			V	1017			DGL
	URUM	03	1044	1049	1054	S11	W11	4572	09	2.6	10	SN			C		16	.2	DGT
0030	HOLL	03	1822	1829	1839	S11	W17	4572	09	2.5	17	SF		3	C		39		F
0031	HOLL	03	1851	1904	1907	S11	W16	4572	09	2.6	16	SF		3	C		25		F
0032	HOLL	03	2040	2040	2045	S12	W16	4572	09	2.6	5	SF		3	C		24		
0033	VORO	03	2152	2157	2204	S06	W60	4567	08	30.5	12	SN			C	2157	63	1.2	EHJT
0034		04	0001*	0024*	0048	S07	W59	4567	08	30.7	47	SF					60	1.6	DEFHJKT
	VORO	04	0001	0106	0125	S09	W57	4567	08	30.8	84	1F			C		108	2.1	EJT
	VORO	04	0018	0024	0033	S06	W60	4567	08	30.6	15	SN			C	0006	90	1.8	EJTKH
	LEAR	04	0024	0024	0027	S07	W60	4567	08	30.6	3	SF		3	C	0027	27		
	HOLL	04	0024	0024	0027	S05	W60	4567	08	30.6	3	SF		3	C		18		FH
	PEKG	04	0025E	0025	0030	S07	W60	4567	08	30.6	5D	SF			C	0025	42	.9	E
	VORO	04	0120	0122	0127	S08	W59	4567	08	30.7	7	SN			C	0122	72	1.4	DJT
0035	VORO	04	0227	0234	0247	S06	W60	4567	08	30.7	20	SF			C	0234	45	.9	DJT
0036	URUM	04	0337	0347	0357	S07	W59	4567	08	30.8	20	SN			C		47	1.0	ET
0037		04	04198	0419*	0448	S08	W59	4567	08	30.8	29	SN					73	1.8	EFTV
	LEAR	04	0419	0419	0424	S08	W59	4567	08	30.8	5	SF		3	C		18		
	LEAR	04	0425	0430	0457	S08	W59	4567	08	30.9	32	SF		3	C		61		F
	MITK	04	0425	0436	0456	S07	W58	4567	08	30.9	31	1N			C	0436	100	2.1	E
	ABST	04	0427	0428	0441D	S07	W57	4567	08	31.0	14D	1F			P	0428	105	2.1	FV
	PEKG	04	0427	0431	0443D	S09	W59	4567	08	30.8	16D	SN			C	0431	92	1.9	E
	URUM	04	0447E	0452	0457	S08	W60	4567	08	30.8	10D	SN			P		63	1.3	ET
0038	URUM	04	0532	0537	0542	S07	W60	4567	08	30.8	10	SN			C		79	1.7	FT
0039	KHAR	04	0800E		0813D	S17	W56	4574	08	31.1	13D	SF			V	0800	60	1.3	DH
0040		04	08141	08133	0824	S06	W65	4567	08	30.6	10	SN					66	1.4	DH
	KHAR	04	0812E	0813	0818D	S06	W66	4567	08	30.5	6D	SF			V	0813	100		D
	LEAR	04	0814		0818	S06	W65	4567	08	30.6	4	SN		3	C		40		H
	CATA	04	0815	0815	0825	S07	W65	4567	08	30.6	10	S		2	C	0815	68		
	ATHN	04	0815E	0816	0825	S05	W64	4567	08	30.6	10D	SF		2	V	0816	80	1.9	
	BUCA	04	0815	0816	0830	S05	W65	4567	08	30.6	15	SN			C	0815	43	1.0	D

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Area Measurement		Remarks		
								USAF						Region	Mo		Day	(Min)
0041	URUM	04	0909E	0909U	0914	S07	W61	4567	08	30.9	5D	SN		P	0909	52	1.1	T
0042		04	09194	09231	0934	S07	W62	4567	08	30.8	15	SN				38	1.1	ET
	URUM	04	0919	0924	0934	S07	W62	4567	08	30.8	15	SN		C		47	1.1	ET
	LEAR	04	0923	0923	0934	S07	W62	4567	08	30.8	11	SF	3	C		29		
0043		04	0949	10044	1002	S08	W62	4567	08	30.9	13	SN				36	.8	DEHT
	URUM	04	0949	0949U	0954	S07	W63	4567	08	30.8	5	SN		P	0949	31	.8	ET
	URUM	04	1004E	1004	1010	S08	W63	4567	08	30.8	6D	SN		P		47	1.1	ET
	KHAR	04	1005E	1008	1016D	S08	W62	4567	08	30.9	11D	SN		V	1008			DH
	HTPR	04	1015E		1037D	S07	W58	4567	08	31.1	22D	SN		C	1025	30	.6	E
0044		04	1045	1053	1115	S08	W60	4567	08	31.0	30	SN				30	.6	DEH
	KHAR	04	1045E		1115D	S08	W62	4567	08	30.9	30D	SF		V	1045			DH
	HTPR	04	1045	1053	1115	S07	W58	4567	08	31.1	30	SN		C	1053	30	.6	E
0045	HTPR	04	1118	1139	1154	N02	E22	4573	09	6.1	36	SF		C	1139	10	.1	
0046	PALE	04	1823	1824	1827	N03	E21	4573	09	6.3	4	SF	3	C		27		F
0047	PEKG	05	0118	0122	0122D	S01	E15	4573	09	6.2	4D	SF		P	0122	71	.8	E
0048	URUM	05	0320	0330	0340	S13	W31	4572	09	2.8	20	SN		C		47	.6	GT
0049	URUM	05	0325	0330	0335	S05	W74	4567	08	30.7	10	SN		C		16		CD
0050	ATHN	05	0646	0648	0656	S18	W70	4574	08	31.0	10	SN	2	V	0648	48	1.6	
0051	KHAR	05	0730E		0742D	S13	W33	4572	09	2.8	12D	SF		P				D
0052	KHAR	05	0753E		0756D	S06	W79	4567	08	30.5	3D	SF		V	0753	40		D
0053	KHAR	05	0810E		0823D	S13	W33	4572	09	2.8	13D	SF		V	0811			D
0054	KHAR	05	0820E	0821	0840D	S13	W69	4574	08	31.1	20D	SF		V	0820	60		D
0055	KHAR	05	1055E		1105D	N12	W47	4575	09	1.9	10D	SF		V	1055			DH
0056		05	13036	1309	1319	S12	W39	4572	09	2.6	16	SF				26	.3	E
	HTPR	05	1303		1337D	S12	W40	4572	09	2.5	34D	SF		C	1310	20	.3	E
	RAMY	05	1309	1309	1319	S12	W38	4572	09	2.7	10	SF	3	C		32		
0057		05	2345	2346	2353	S10	W42	4572	09	2.8	8	SF				22		F
	HOLL	05	2345	2346	2353	S10	W41	4572	09	2.9	8	SF	3	C				

H - ALPHA SOLAR FLARES

SEPTEMBER 1984

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Corr (Sq Deg)	Remarks
						Lat	CMD	Region									(10 ⁻⁶ Disk)			
0065		06	2151*	22113	2241	N12	W66	4575	09	1.9	50	SF						48		F
	HOLL	06	2151	2211	2259	N13	W66	4575	09	1.9	68	SF		3	C			62		
	PALE	06	2207	2214	2223	N11	W66	4575	09	1.9	16	SF		3	C			34		F
0066		06	2231	22312	2238	S12	W53	4572	09	2.9	7	SF						28		F
	PALE	06	2231	2231	2239	S12	W52	4572	09	3.0	8	SF		3	C			30		F
	HOLL	06	2231	2233	2238	S11	W54	4572	09	2.9	7	SF		3	C			26		F
0067		06	2301*	24537	2516	N12	W67	4575	09	1.9	135	SN						34		DGT
	HOLL	06	2301	2453	2505D	N13	W68	4575	09	1.8	124D	SN		3	C			54		
	LEAR	07	0057	0100	0110	N11	W66	4575	09	2.1	13	SF		3	C			31		
	URUM	07	0116E	0116U	0122	N12	W68	4575	09	1.9	6D	SN			P	0116		16		DGT
0068		07	0201*	0206*	0221	N11	W72	4575	09	1.7	20	SN						28		FGT
	URUM	07	0201	0206	0221	N11	W71	4575	09	1.7	20	SN			C			16		GT
	URUM	07	0226	0231	0231D	N11	W72	4575	09	1.7	5D	SN			P			39		FGT
0069	URUM	07	0304E	0304U	0324	N13	W75	4575	09	1.5	20D	SN			P	0304		31		FGT
0070		07	0734	07354	0742	N02	W15	4573	09	6.2	8	SN						44	.7	FGT
	LEAR	07	0734	0735	0743	N02	W15	4573	09	6.2	9	SF		3	C			25		F
	URUM	07	0734	0739	0741	N02	W15	4573	09	6.2	7	SN			C			63	.7	GT
0071	BUCA	07	0735	0755	0855	N12	W72	4575	09	1.9	80	1N			P	0755		107		
0072	URUM	07	0924	0929	0939	N13	W72	4575	09	1.9	15	SN			C			31		GT
0073	HTPR	07	1315E		1325	N11	W72	4575	09	2.1	10D	SF			C	1323		10		
0074	HTPR	07	1320	1332	1335	S04	E60	4576	09	12.0	15	SF			C	1332		10	.2	
0075		07	23581	23592	2404	S04	E54	4576	09	12.0	6	SF						19		
	LEAR	07	2358	2401	2404	S03	E53	4576	09	11.9	6	SF		3	C			25		
	HOLL	07	2359	2359	2403	S04	E54	4576	09	12.0	4	SF		3	C			13		
0076	HTPR	08	0619	0620	0630	S04	E61	4576	09	12.8	11	SN			C	0620		20	.4	
0077	KHAR	08	0700E		0717D	N13	W90	4575	09	1.5	17D	SF			V	0700				DH
0078		08	07138	0713*	0725	S05	E50	4576	09	12.0	12	SF						27	.4	D
	LEAR	08	0713	0713	0718	S04	E49	4576	09	12.0	5	SF		3	C			23		
	HTPR	08	0713	0723	0730	S04	E51	4576	09	12.1	17	SF			C	0723		20	.4	
	KHAR	08	0721E	0722	0727D	S07	E49	4576	09	12.0	6D	SF			V	0722				D
	LEAR	08	0721	0722	0728	S04	E49	4576	09	12.0	7	SF		3	C			39		
0079		08	0827	08301	0848	N12	W88	4575	09	1.7	21	SF						10		D
	HTPR	08	0827	0831	0848	N11	W90	4575	09	1.6	21	SF			C	0831		10		
	KHAR	08	0830E	0830	0833D	N14	W87	4575	09	1.8	3D	SF			V	0830				D
0080	HTPR	08	0852	0858	0900	S04	E60	4576	09	12.8	8	SF			C	0858		20	.4	
0081	HTPR	08	0858	0904	0909	N11	W90	4575	09	1.6	11	SF			C	0904		10		
0082		08	0939	09442	0950	S06	E48	4576	09	12.0	11	SF						10	.2	DE
	HTPR	08	0939	0946	0950	S04	E49	4576	09	12.1	11	SF			C	0946		10	.2	E
	KHAR	08	0942E	0944	0955D	S07	E48	4576	09	12.0	13D	SF			V	0944				D
0083	HTPR	08	1005	1008	1028	N11	W90	4575	09	1.6	23	SF			C	1008		10		
0084	HTPR	08	1153	1202	1209	S04	E58	4576	09	12.8	16	SF			C	1202		10	.2	E
0085		08	13101	13131	1337	S04	E47	4576	09	12.1	27	SN						34	.4	E
	RAMY	08	1310	1313	1334	S03	E47	4576	09	12.1	24	SN		3	C			47		
	HTPR	08	1311	1314	1340	S04	E47	4576	09	12.1	29	SF			C	1314		20	.4	E
0086	PALE	08	2018	2020	2023	S03	E44	4576	09	12.1	5	SF		3	C			29		
10 1551 1610 No Flare Patrol																				

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	(10 ⁻⁶ Disk)	Apparent (Sq Deg)	
			11 1451		1507	No Flare	Patrol												
			11 1509		1514	No Flare	Patrol												
			11 1516		1528	No Flare	Patrol												
			11 1541		1557	No Flare	Patrol												
			11 1635		1655	No Flare	Patrol												
			12 1311		1327	No Flare	Patrol												
			12 1336		1344	No Flare	Patrol												
			13 1959		2011	No Flare	Patrol												
			13 2106		2131	No Flare	Patrol												
			13 2213		2217	No Flare	Patrol												
			13 2229		2237	No Flare	Patrol												
			13 2242		2254	No Flare	Patrol												
			14 0301		0425	No Flare	Patrol												
			14 1405		1418	No Flare	Patrol												
			14 1640		1658	No Flare	Patrol												
			14 1915		2006	No Flare	Patrol												
			14 2132		2154	No Flare	Patrol												
			15 0228		0229	No Flare	Patrol												
			15 1847		1855	No Flare	Patrol												
			15 1928		1934	No Flare	Patrol												
			15 1938		2051	No Flare	Patrol												
			15 2119		2123	No Flare	Patrol												
			17 1424		1432	No Flare	Patrol												
0087		18	0327	0313*	0342D	S18 W20			09	16.6	15D	SF					34	.4	E
	PEKG	18	0313E	0313	0325D	S18 W20			09	16.6	12D	SF		P		0313	34	.4	E
	PEKG	18	0327	0337	0342D	S18 W20			09	16.6	15D	SF		C		0337	34	.4	E
0088	ISTA	18	0727E		0740	S17 W90			09	11.5	13D	SN							AD
0089	KHAR	18	1129E		1133D	N09 W18			09	17.1	4D	SF		P		1129			D
		18	1648		1704	No Flare	Patrol												
		19	1559		1622	No Flare	Patrol												
		19	1635		1648	No Flare	Patrol												
		19	1719		1736	No Flare	Patrol												
		19	1817		1952	No Flare	Patrol												
		19	2001		2150	No Flare	Patrol												
0090	URUM	21	0215	0217	0223	S07 W32	4579		09	18.7	8	SN			C		79</		

H - ALPHA SOLAR FLARES

SEPTEMBER 1984

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0095	CULG	27	0509	0511	0516	S11	W09		09	26.5	7	SF			C	0511	30	.3	
		29	0512		0519			No Flare Patrol											
		29	1605		1616			No Flare Patrol											
		29	1659		1703			No Flare Patrol											
		29	1830		1834			No Flare Patrol											
		29	1853		1857			No Flare Patrol											
		29	1915		1929			No Flare Patrol											
		29	1934		1954			No Flare Patrol											
		30	1620		1713			No Flare Patrol											
		30	1718		1725			No Flare Patrol											

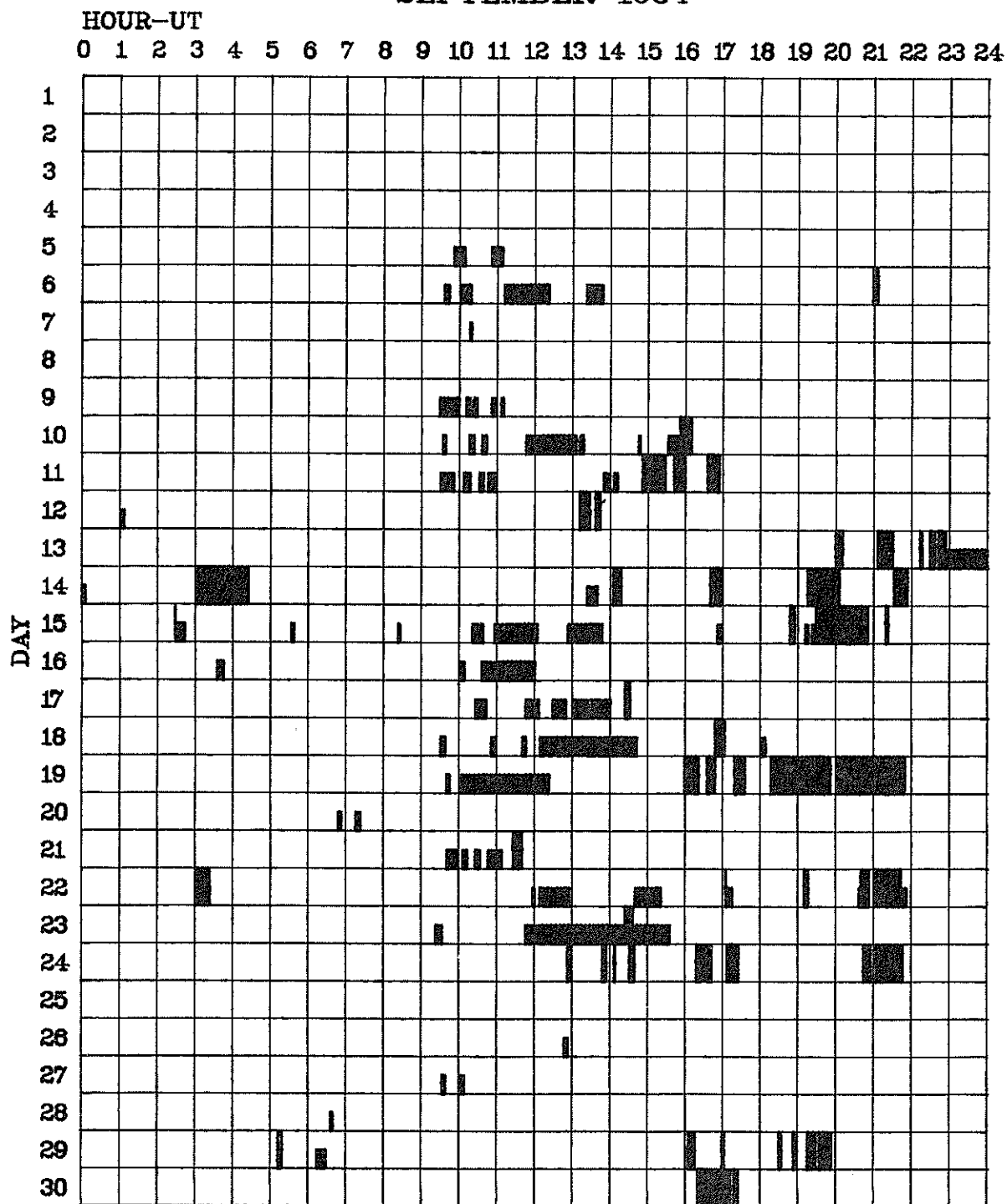
"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
 B = Probably the end of a more important flare.
 C = Invisible 10 minutes before.
 D = Brilliant point.
 E = Two or more brilliant points.
 F = Several eruptive centers.
 G = No visible spots in the neighborhood.
 H = Flare accompanied by high-speed dark filament.
 I = Active region very extended.
 J = Distinct variations of plage intensity before or after the flare.
 K = Several intensity maxima.
 L = Existing filaments show signs of sudden activity.
 M = White-light flare.
 N = Continuous spectrum shows effects of polarization.

O = Observations have been made in the H and K lines of Ca II.
 P = Flare shows helium D3 in emission.
 Q = Flare shows Balmer continuum in emission.
 R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
 S = Brightness follows disappearance of filament in same position.
 T = Region active all day.
 U = Two bright branches, parallel or converging.
 V = Occurrence of an explosive phase: important, expansion within roughly 1 minute that often includes a significant intensity increase.
 W = Great increase in area after time of maximum intensity.
 X = Unusually wide H-alpha line.
 Y = System of loop-type prominences.
 Z = Major sunspot umbra covered by flare.

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE SEPTEMBER 1984

57
Sep 84



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

Abastumani	Culgoora	Kanzelhoehe	Manila	Ramey
Athens	Haute Provence	Kharkov	Mitaka	Urumqi
Bucharest	Holloman	Learmonth	Palehua	Voroshilov
Catania	Istanbul	Lvov	Peking	Wendelstein

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Oct 84

H - ALPHA SOLAR FLARES

OCTOBER 1984

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Area Measurement			Remarks	
								USAF						Region	Mo	Day		(Min)
No Flare Patrol																		
0001	CATA	01	0720E	0750	0800D	N16	W12		09	30.4	40D	S		2	P	0750	112	1.2
0002	CATA	01	1215	1220	1225	S14	W37	4580	09	28.8	10	S		2	C	1220	56	.8
		01	1401		1405	No Flare Patrol												
		01	2103		2118	No Flare Patrol												
		02	0943		0944	No Flare Patrol												
		02	0956		1014	No Flare Patrol												
		02	1021		1049	No Flare Patrol												
		02	1101		1102	No Flare Patrol												
		02	2139		2220	No Flare Patrol												
0003	CATA	03	1155	1155	1220	S20	W90		09	26.7	25	1		2	C	1155	56	
		03	1435		1447	No Flare Patrol												
		03	1534		1654	No Flare Patrol												
		03	1910		2115	No Flare Patrol												
0004	CATA	04	0750	0750	0755	N16	W53		09	30.3	5	S		2	C	0750	68	1.1
0005	ISTA	05	0715		0751	S18	W90		09	28.5	36	SN						AG
0006	ISTA	05	0753		0805	S18	W09		10	4.6	12	SF						ABG
		05	1532		1653	No Flare Patrol												
		05	1722		1914	No Flare Patrol												
		05	1937		1941	No Flare Patrol												
		05	1959		2005	No Flare Patrol												
		05	2011		2015	No Flare Patrol												
		05	2027		2139	No Flare Patrol												
0007		06	1240	1240	1322	S06	E45		10	9.9	42	SN				115	1.9	G
	CATA	06	1240	1240	1240D	S07	E39		10	9.4	42D	S	2	P	1240	140	1.9	
	KANZ	06	1303E	1308U	1308D	S05	E57		10	10.8	5D	SB	1					G
	RAMY	06	1307E	1307U	1322	S05	E40		10	9.5	15D	SF	3	C		90		
0008	CATA	07	1010	1015	1030D	S18	W90		09	30.6	20D	1		2	P	1015	68	
		07	1710		1715	No Flare Patrol												
		10	1533		1603	No Flare Patrol												
		11	1403		1428	No Flare Patrol												
		11	1801		1805	No Flare Patrol												
		11	1821		1844	No Flare Patrol												
		11	1908		2003	No Flare Patrol												
0009		12	1200*	1205*	1402	S05	W48	4582	10	8.9	122	SF				40	.9	F
	CATA	12	1200	1205	1240D	S05	W49	4582	10	8.8	40D	S	2	P	1205	56	.9	
	RAMY	12	1351	1354	1402	S05	W47	4582	10	9.1	11	SF	3	C		23		F
		12	1914		2153	No Flare Patrol												
0010	LEAR	13	0025	0026	0027	N07	W68	4581D	10	7.9	2	SF		3	C		11	
0011		13	0720	0735	0754	S04	W60	4582	10	8.8	34	SN				56	1.2	BEG
	CATA	13	0720	0735	0805	S05	W60	4582	10	8.8	45	S	2	C	0735	56	1.2	
	ISTA	13	0725E		0742	S03	W60	4582	10	8.8	17D	SN						BEG
0012	CATA	13	1140	1140	1145D	S02	E70	4586	10	18.7	5D	1		1	P	1140	169	
		13	1605		1634	No Flare Patrol												
0013	HOLL	13	1730	1730	1735	S03	W63	4582	10	9.0	5	SF		3	C		18	F
0014	PEKG	14	0157	0215	0230	S01	W66	4581D	10	9.1	33	SF			C	0215	42	D
0015	CATA	14	1240	1240	1245D	S10	W28	4583	10	12.4	5D	1		2	P	1240	253	3.1

H - ALPHA SOLAR FLARES

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OCTOBER 1984

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement			Remarks
						Lat	CMD	Region								Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0016	PEKG	15	0345E	0345	0345D	N05	E63	4586	10	19.9	5D	SF		P	0345	42	1.0	E	
0017	ISTA	15	0620		0640	N04	W64		10	10.5	20	SF						D	
0018	ISTA	15	0648		0655	N03	W63		10	10.6	7	SB						D	
0019	CATA	15	0845	0850	0905D	N05	E47	4586	10	18.9	20D	S		2	P	0850	112	1.7	
		15	1021		1022	No Flare Patrol													
0020		15	1145I	1149I	1205	N04	E44	4586	10	18.8	20	1F					138	3.0	F
	CATA	15	1145	1150	1205	N03	E30	4586	10	17.7	20	1		2	C	1150	253	3.0	
	RAMY	15	1146	1149	1205	N04	E59	4586	10	19.9	19	SF		3	C		24		F
		15	1617		1623	No Flare Patrol													
		15	1714		1725	No Flare Patrol													
		15	1748		1808	No Flare Patrol													
		15	1823		2009	No Flare Patrol													
0021		16	0030	0042	0058	N04	E52	4586	10	19.9	28	SN					26	.4	H
	MANI	16	0016E	0036E	0052D	N04	E52	4586	10	19.9	36D	SN		1	V		24	.4	
	LEAR	16	0030	0042	0058	N04	E51	4586	10	19.8	28	SF		3	C		28		H
0022		16	0213	0213I	0221	N05	E52	4586	10	20.0	8	SN					56	1.4	EF
	PEKG	16	0213E	0213	0224	N05	E52	4586	10	20.0	11D	SN			P	0213	80	1.4	E
	LEAR	16	0213	0214	0218	N05	E52	4586	10	20.0	5	SF		3	C		31		F
0023	CATA	16	0945	0955	1010D	N13	W42		10	13.2	25D	S		1	P	0955	112	1.6	
0024	PEKG	17	0519	0535	0544	N03	E36	4586	10	19.9	25	1N			C	0535	168	2.2	E
0025	PEKG	17	0629	0635	0653	N03	E35	4586	10	19.9	24	SN			C	0635	126	1.6	E
0026	LEAR	17	0717	0718	0727	N02	E35	4586	10	19.9	10	SF		3	C		25		
0027	CATA	17	1025	1030	1040	N16	E27		10	19.5	15	S		1	C	1030	56	.6	
		17	1534		1552	No Flare Patrol													
		17	2106		2112	No Flare Patrol													
0028	KANZ	18	1013	1017	1020	N05	E11	4383A	10	19.2	7	SF		2					
0029		19	00144	00181	0029	N05	E15	4586	10	20.1	15	SF					36	.3	
	CULG	19	0014	0018	0024D	N05	E15	4586	10	20.1	10D	SF			P	0018	30	.3	
	PALE	19	0018	0019	0029	N05	E15	4586	10	20.1	11	SF		3	C		41		
0030	CATA	19	0930	0930	0935	S07	E90		10	26.1	5	1		2	C	0930	56		
0031	CATA	19	1135	1140	1145	S09	E77		10	25.3	10	1		2	C	1140	56		
0032	CATA	20	0745	0755	0800D	N06	E90		10	27.0	15D	1		2	P	0755	84		
		20	1226		1238	No Flare Patrol													
		20	1524		1530	No Flare Patrol													
		20	1804		1811	No Flare Patrol													
		20	1840		1843	No Flare Patrol													
		20	1952		1958	No Flare Patrol													
		20	2013		2039	No Flare Patrol													
0033		21	0228I	0236*	0310	N04	W18	4586	10	19.7	42	SN					144	2.0	EF
	LEAR	21	0228	0236	0319	N05	W19	4586	10	19.7	51	SF		3	C		106		
	MITK	21	0229	0244	0310	N03	W18	4586	10	19.7	41	SN			C	0244			E
	PEKG	21	0245E	0246	0302	N04	W18	4586	10	19.8	17D	SN			C	0246	181	2.0	F
		21	1016		1024	No Flare Patrol													
		21	2132		2141	No Flare Patrol													
0034	RAMY	22	1319	1320	1337	N04	W36	4586	10	19.9	18	SF		3	C		38		

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H - ALPHA SOLAR FLARES

OCTOBER 1984

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0035	CULG	22	2150	2156	2209	N06	W55	4586	10	18.8	19	SF			C	2156	50	.9	
		23	1246		1250	No	Flare	Patrol											
		23	1343		1407	No	Flare	Patrol											
		23	1416		1431	No	Flare	Patrol											
		23	1600		1610	No	Flare	Patrol											
		23	1753		1958	No	Flare	Patrol											
		23	2003		2007	No	Flare	Patrol											
		24	1623		1637	No	Flare	Patrol											
0036	RAMY	24	1752	1754	1814	N06	W68	4586	10	19.6	22	SF		3	C		14		
		24	1931		1946	No	Flare	Patrol											
		24	2014		2034	No	Flare	Patrol											
		24	2036		2039	No	Flare	Patrol											
		25	1401		1409	No	Flare	Patrol											
		25	1426		1741	No	Flare	Patrol											
		25	1817		1851	No	Flare	Patrol											
		25	1902		1912	No	Flare	Patrol											
		25	2156		2159	No	Flare	Patrol											
		25	2204		2205	No	Flare	Patrol											
		26	1826		1837	No	Flare	Patrol											
		26	2202		2203	No	Flare	Patrol											
		26	2206		2209	No	Flare	Patrol											
		27	1843		1845	No	Flare	Patrol											
		28	1410		1504	No	Flare	Patrol											
		28	1645		1650	No	Flare	Patrol											
		28	1904		1916	No	Flare	Patrol											
		29	1451		1629	No	Flare	Patrol											
		29	1725		1747	No	Flare	Patrol											
		29	1936		1945	No	Flare	Patrol											
		29	2344		2400	No	Flare	Patrol											
		30	0435		0559	No	Flare	Patrol											
		31	1955		2006	No	Flare	Patrol											
		31	2016		2021	No	Flare	Patrol											

"Remarks":

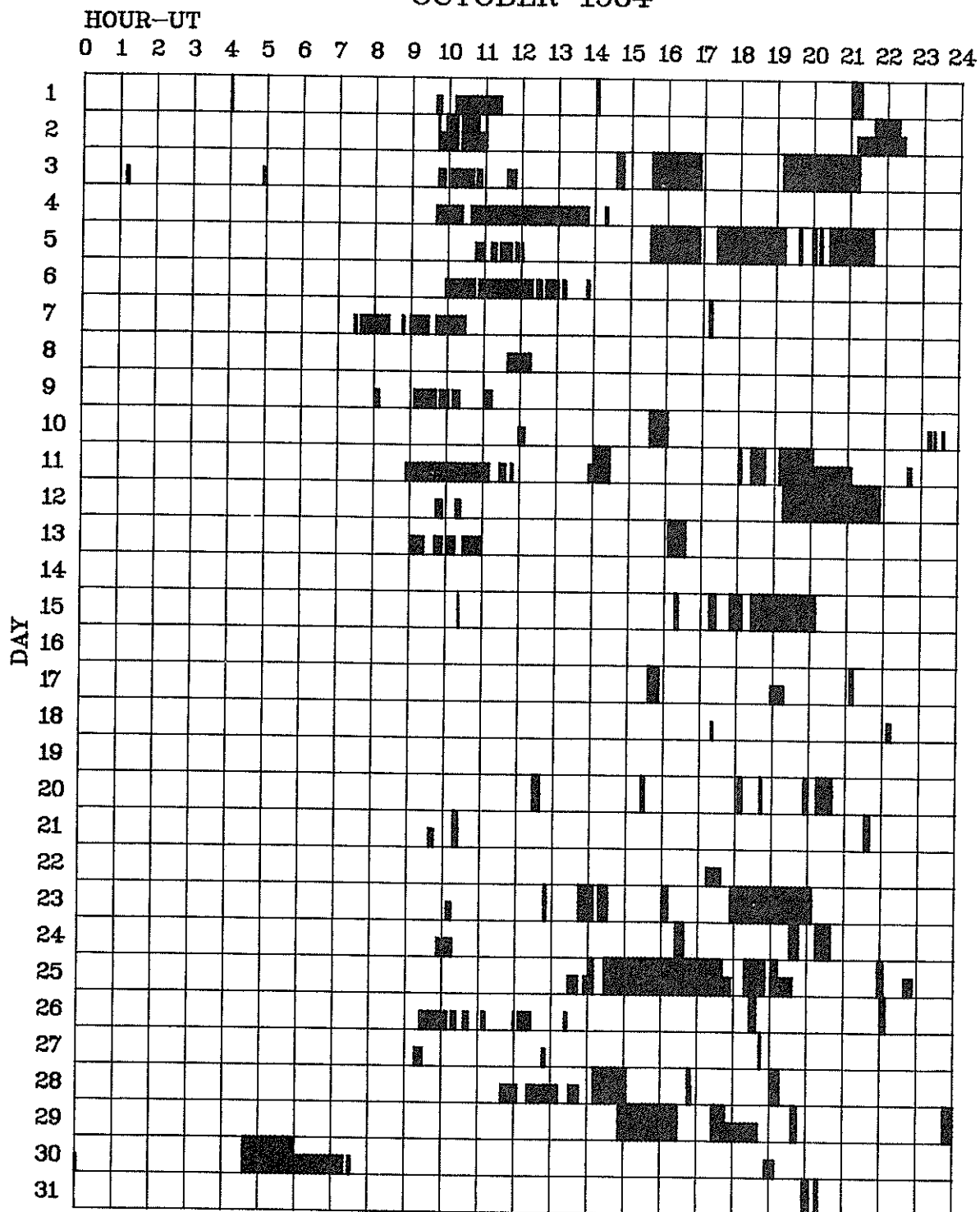
A = Eruptive prominence whose base is less than 90° from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by high-speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.

O = Observations have been made in the H and K lines of Ca II.
P = Flare shows helium D3 in emission.
Q = Flare shows Balmer continuum in emission.
R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
S = Brightness follows disappearance of filament in same position.
T = Region active all day.
U = Two bright branches, parallel or converging.
V = Occurrence of an explosive phase: important, expansion within roughly 1 minute that often includes a significant intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide H-alpha line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

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Oct 84

OCTOBER 1984



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

Abastumani
Athens
Bucharest

Catania
Culgoora
Holloman

Istanbul
Kanzelhoehe
Kharkov
Learmonth

Lvov
Manila
Mitaka
Palehua

Peking
Ramey
Voroshilov
Wendelstein

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Nov 84

H - ALPHA SOLAR FLARES

NOVEMBER 1984

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0001		02	02005	02037	0228	S12	W36	4589	10	30.5	28	SF					59	1.1	DS
	PEKG	02	0200	0205	0223	S12	W36	4589	10	30.5	23	SF			C	0205	84	1.1	D
	PALE	02	0201	0203	0234	S12	W36	4589	10	30.5	33	SF		3	C		50		S
	LEAR	02	0205	0210	0226	S11	W37	4589	10	30.4	21	SF		3	C		43		
		02	1704		1714	No Flare Patrol													
0002	KANZ	03	1130	1133	1138	S12	W54	4589	10	30.5	8	SF		2					G
0003	HOLL	03	1739	1740	1750	S08	W52	4590	10	30.9	11	SF		3	C		18		
		04	1513		1555	No Flare Patrol													
		04	1610		1654	No Flare Patrol													
		04	1705		1752	No Flare Patrol													
		04	1834		1852	No Flare Patrol													
		04	1919		1938	No Flare Patrol													
		04	1950		2018	No Flare Patrol													
		04	2034		2040	No Flare Patrol													
		04	2050		2053	No Flare Patrol													
0004	HOLL	04	2231	2232	2248	S17	E64	4591	11	9.8	17	SF		3	C		15		
		05	1325		1332	No Flare Patrol													
0005	CATA	06	0825E	0830	0840D	N25	E20		11	7.9	15D	S		2	P	0830	112	1.3	
0006	CATA	06	0935	0935	1005	N26	E18		11	7.8	30	S		2	C	0935	140	1.6	
		06	1001		1014	No Flare Patrol													
		06	1046		1104	No Flare Patrol													
		06	1401		1754	No Flare Patrol													
		06	1817		1830	No Flare Patrol													
		06	2107		2118	No Flare Patrol													
		07	0529		0534	No Flare Patrol													
0007		07	1003	1003	1014	S17	E32	4591	11	9.8	11	SF					32	.4	G
	KANZ	07	1003	1003	1007	S18	E31	4591	11	9.8	4	SF		2					G
	ATHN	07	1009E		1020	S16	E34	4591	11	10.0	11D	SF		1	V		32	.4	
		07	1401		1407	No Flare Patrol													
		07	1409		1421	No Flare Patrol													
		07	1521		1623	No Flare Patrol													
		07	1831		1835	No Flare Patrol													
		08	0146		0148	No Flare Patrol													
		08	0151		0155	No Flare Patrol													
		08	0158		0208	No Flare Patrol													
		08	0218		0224	No Flare Patrol													
		08	0233		0236	No Flare Patrol													
		08	0256		0258	No Flare Patrol													
		08	0313		0324	No Flare Patrol													
		08	0545		0559	No Flare Patrol													
		08	1909		1916	No Flare Patrol													
		08	2146		2155	No Flare Patrol													
0008		09	1307*	1328*	1438	N17	E23	4592	11	11.3	91	SN					27	.4	EH
	RAMY	09	1307	1328U	1354D	N17	E23	4592	11	11.3	47D	SB		3	C		20		EH
	KANZ	09	1312	1328	1354D	N16	E21	4592	11	11.1	42D	SN		2					
	WEND	09	1320	1355	1429D	N17	E24	4592	11	11.4	69D	SN			C	1355	38	.4	
	RAMY	09	1420	1423	1438	N17	E23	4592	11	11.3	18	SN		3	C		22		
0009	RAMY	09	1507	1508	1515	N16	E22	4592	11	11.3	8	SF		3	C		23		
0010		10	04323	0439*	0509	N17	E14	4592	11	11.2	37	1B M 2.1					197	2.6	EFKUZ
	LEAR	10	0432	0439	0517	N17	E14	4592	11	11.2	45	1B M 2.1		3	C		197		ZFK
	LEAR	10	0432	0451	0517	N17	E14	4592	11	11.2	45	SB		3	C		151		K
	PEKG	10	0435	0441	0452	N16	E15	4592	11	11.3	17	1N			C	0441	244	2.6	EU
0011		10	13051	1318	1344	N16	E10	4592	11	11.3	39	SN C 1.8					80	.9	
	ATHN	10	1305	1318	1344	N16	E11	4592	11	11.4	39	SN C 1.8		3	V	1318	80	.9	
	KANZ	10	1306	1318	1352D	N16	E08	4592	11	11.1	46D	SN		2					

H - ALPHA SOLAR FLARES

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Nov 84

NOVEMBER 1984

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See	Type	Time (UT)	Area Apparent (10 ⁻⁶ Disk)	Measurement Corr (Sq Deg)	Remarks
0012	RAMY	10	1827	1829	1836	N16	E06	4592	11 11.2	9	SF	3	C		30		
0013		10	1947*	20073	2102	N17	E06	4592	11 11.3	75	1B M 3.7				277		FZ
	HOLL	10	1947	2010	2101	N16	E05	4592	11 11.2	74	1B M 3.7	3	C		320		ZF
	RAMY	10	1948	2007	2102	N16	E05	4592	11 11.2	74	1B	3	C		265		ZF
	PALE	10	2000	2007	2047D	N18	E08	4592	11 11.4	47D	1B	3	C		247		ZF
0014	CULG	11	0438E	0439	0508D	N15	E15	4592	11 12.3	30D	1B		P	0439	320	3.5	
0015	ATHN	11	1123	1125	1133	N20	W37		11 8.6	10	SF	2	V	1125	19	.3	
0016	HOLL	11	2022	2022	2025	N17	W05	4592	11 11.5	3	SF	3	C		27		F
0017		11	2241	22433	2314	N17	W07	4592	11 11.4	33	SN C 1.0				55		FH
	LEAR	11	2241	2243	2303	N18	W08	4592	11 11.3	22	SN C 1.0	3	C		32		FH
	HOLL	11	2241	2246	2316	N17	W07	4592	11 11.4	35	SF C 1.0	3	C		64		F
	PALE	11	2241	2246	2322	N17	W07	4592	11 11.4	41	SN C 1.0	3	C		70		
0018		12	0245	0246	0250	N18	W10	4592	11 11.3	5	SB				86	1.4	F
	LEAR	12	0245	0246	0249	N18	W10	4592	11 11.3	4	SN	3	C		42		F
	YUNN	12	0246E	0246U	0250	N17	W10	4592	11 11.3	4D	SB		P	0246	129	1.4	
0019	LEAR	12	0551	0554	0557	N18	W12	4592	11 11.3	6	SF	3	C		26		F
0020	CATA	12	0855E	0902	0910D	S12	E37		11 15.1	15D	2		P	0902	394	5.3	
0021		12	09581	1005*	1116	N16	W16	4592	11 11.2	78	1N				205	2.1	BEHU
	WEND	12	0958	1017	1116	N16	W16	4592	11 11.2	78	SN		C	1017	150	1.7	
	LEAR	12	0959	1007	1015D	N18	W16	4592	11 11.2	16D	1N	3	C		238		UH
	ATHN	12	1000E	1005	1035D	N12	W14	4592	11 11.4	35D	1B	2	V	1005	223	2.4	
	KHAR	12	1058E		1130D	N16	W16	4592	11 11.2	32D	1N		P	1121	210	2.2	BE
		12	1332		1400	No Flare Patrol											
		12	1416		1431	No Flare Patrol											
0022	CULG	13	0546	0552	0602	N16	W15	4592	11 12.1	16	1F		C	0552	260	2.7	
		13	0826		0839	No Flare Patrol											
0023	CATA	13	1220E	1230	1250D	S17	E18		11 14.9	30D	S	2	P	1230	112	1.3	
		13	1927		1930	No Flare Patrol											
0024		13	2314*	2315*	2318	N14	W35	4592	11 11.3	724	SF				45	.8	FH
	LEAR	13	2314	2315	2317	N16	W35	4592	11 11.3	3	SF	3	C		30		FH
	CULG	14	2310	2312	2318	N13	W35	4592	11 12.3	8	SF		C	2312	60	.8	
		14	1251		1305	No Flare Patrol											
		14	1425		1445	No Flare Patrol											
		14	1503		1625	No Flare Patrol											
		14	1924		1944	No Flare Patrol											
		15	0513		0518	No Flare Patrol											
		15	0933		0959	No Flare Patrol											
0025	CATA	16	1010E	1010	1010D	N10	W90		11 9.7	8D	1	2	P	1010	84		
		16	1046		1054	No Flare Patrol											
		16	1101		1409	No Flare Patrol											
		16	1451		1704	No Flare Patrol											
0026	ABST	17	0656E	0701U	0716D	S17	W86		11 10.7	20D	1F		C	0701	105		D
0027	CATA	17	0845E	0845	0850	S07	E90		11 24.1	5D	1	1	P	0845	56		
0028		17	0945	09452	0956	N18	W89		11 10.6	11	1N				43		
	CATA	17	0945	0945	0955	N20	W90		11 10.5	10	1	2	C	0945	56		
	HTPR	17	0945	0947	0958	N17	W88		11 10.7	13	SN		C	0947	30		

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
						Region									Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
			17 1051		1053	No Flare	Patrol										
			17 1058		1109	No Flare	Patrol										
0029	CATA	17	1100E	1100	1108D	S15 E40		11 20.5	8D	1		2	P	1100	281	4.0	
			17 1122		1212	No Flare	Patrol										
			17 1214		1226	No Flare	Patrol										
			17 1238		1248	No Flare	Patrol										
			17 1253		1304	No Flare	Patrol										
			17 1346		1527	No Flare	Patrol										
			17 1621		1717	No Flare	Patrol										
			17 2101		2111	No Flare	Patrol										
			17 2129		2134	No Flare	Patrol										
0030	PALE	17	2210	2210	2218	N09 W49	4596	11 14.2	8	SF		3	C		24		
0031	LEAR	18	0710	0713	0720	N07 W55	4596	11 14.2	10	SF		3	C		18		E
			18 1802		1819	No Flare	Patrol										
			18 1859		1935	No Flare	Patrol										
0032	CATA	19	0725	0725	0745D	S16 E17		11 20.6	20D	1		2	P	0725	337	3.8	
0033	CATA	19	0930	0941	0955	S13 W57		11 15.1	25	S		2	C	0941	84	1.7	
			19 1401		1424	No Flare	Patrol										
			19 1435		1438	No Flare	Patrol										
			19 1608		1615	No Flare	Patrol										
			19 1627		1650	No Flare	Patrol										
0034		20	1015	1015	1100	S10 W02	4599	11 20.3	45	1					225	2.4	
	CATA	20	1015	1015	1045D	S10 W04	4599	11 20.1	30D	1		2	C	1015	281	3.0	
	CATA	20	1015	1015	1100	S11 E01	4599	11 20.5	45	S		2	C	1015	169	1.8	
		21	1111		1115	No Flare	Patrol										
0035		21	1124	11251	1144	S12 E58	4598	11 25.8	20	1B					270	5.7	EF
	RAMY	21	1124	1126	1144	S12 E58	4598	11 25.8	20	1B		3	C		259		FE
	CATA	21	1125E	1125	1130D	S12 E58	4598	11 25.8	5D	2		1	P	1125	281	5.7	
	KANZ	21	1135E	1135U	1135D	S13 E59	4598	11 25.9	5D	SB		1					
0036		21	1125	1130	1140	N17 W28	4597	11 19.3	15	SB					129		EF
	RAMY	21	1125	1130	1140	N17 W28	4597	11 19.3	15	SB		3	C		129		FE
	KANZ	21	1135E	1135U	1135D	N17 W29	4597	11 19.3	15D	SB		1					
		21	1511		1528	No Flare	Patrol										
0037		22	05141	05162	0523	S12 E51	4598	11 26.1	9	1N							

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement			Remarks
						Lat	CMD	Region									Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
			23 1835		1854	No	Flare	Patrol												
			23 1922		1927	No	Flare	Patrol												
			23 1945		2004	No	Flare	Patrol												
			23 2035		2056	No	Flare	Patrol												
0042		24	0140	0140	0144	S12	E32	4598	11	26.5	4	SN						39	.6	D
	PALE	24	0140	0140	0143	S11	E29	4598	11	26.2	3	SF		3	C			30		
	YUNN	24	0140E	0141U	0144	S13	E36	4598	11	26.8	4D	SN			P	0141		48	.6	D
0043		24	08333	08358	0902	S10	E48	4600	11	28.0	29	SN						80	1.8	
	LEAR	24	0833	0843	0856	S11	E48	4600	11	28.0	23	SF		3	C			48		
	CATA	24	0835E	0835	0910	S09	E49	4600	11	28.0	35D	S		2	P	0835		112	1.8	
	KANZ	24	0836	0840	0900	S11	E48	4600	11	28.0	24	SN		2						
0044		24	09176	09322	0946	S11	E47	4600	11	27.9	29	SF						19		
	LEAR	24	0917	0932	0945	S11	E47	4600	11	27.9	28	SF		3	C			19		
	KANZ	24	0923	0934	0948	S11	E47	4600	11	27.9	25	SF		2						
0045		24	0948	0955	1003	S10	E47	4600	11	27.9	15	SN						46		
	KANZ	24	0948	0955	1003	S10	E47	4600	11	27.9	15	SN		2						
	LEAR	24	0948	0955	1005D	S11	E47	4600	11	27.9	17D	SF		3	C			46		
		24	1401		1455	No	Flare	Patrol												
		24	1549		1605	No	Flare	Patrol												
		24	1623		1627	No	Flare	Patrol												
0046	RAMY	24	1700E		1807D	S11	E45	4600	11	28.1	67D	SF		3	C			32		S
		24	1701		1705	No	Flare	Patrol												
		24	1715		1801	No	Flare	Patrol												
		24	1817		1852	No	Flare	Patrol												
0047	PALE	24	1853	1855	1901	S13	E45	4600	11	28.2	8	SF		3	C			29		
		24	2011		2058	No	Flare	Patrol												
0048	YUNN	25	0235E	0238	0300	S12	E42	4600	11	28.3	25D	SN			P			32	.5	
0049	LEAR	25	0359	0359	0404	S10	E22	4598	11	26.8	5	SF		3	C			24		
0050	CULG	25	0518E	0518U	0756	S10	E39	4600	11	28.1	158D	SB			P	0518		120	1.5	EF
0051		25	05521	05523	0610	S13	E18	4598	11	26.6	18	SN						37	.5	D
	LEAR	25	0552	0552	0617	S13	E18	4598	11	26.6	25	SF		3	C			32		
	PEKG	25	0553	0555	0604	S13	E19	4598	11	26.7	11	SN			C	0555		42	.5	D
0052		25	06502	06502	0701	S10	E38	4600	11	28.1	11	SF						50	1.0	
	CATA	25	0650	0650	0705	S09	E38	4600	11	28.1	15	S		1	C	0650		73	1.0	
	LEAR	25	0652	0652	0657	S11	E38	4600	11	28.1	5	SF		3	C			26		
0053		25	0700	0730	0740D	S25	E20		11	26.8	40D	S						112	1.4	
	CATA	25	0700	0730	0740D	S27	E21		11	26.9	40D	S		1	P	0730		84	1.1	
	CATA	25	0700	0730	0740D	S23	E18		11	26.7	40D	S		1	P	0730		140	1.7	
0054	ISTA	25	0835		0850	S10	E50	4600	11	29.1	15	SN								D
0055	ATHN	25	0858	0858	0908D	S11	E16	4598	11	26.6	10D	SF		3	V	0858		32	.4	
		25	1717		1843	No	Flare	Patrol												
		25	1850		1903	No	Flare	Patrol												
0056	RAMY	25	1924	1926	1932	S11	E10	4598	11	26.6	8	SF		3	C			33		F
		25	1956		2004	No	Flare	Patrol												
0057	RAMY	25	2024	2024	2032	S12	E09	4598	11	26.5	8	SF		3	C			23		F
0058		25	23134	23174	2338	S11	E08	4598	11	26.6	25	SN						91	1.0	DEF
	CULG	25	2313	2317	2351	S11	E08	4598	11	26.6	38	SB			C	2317		110	1.1	EF
	LEAR	25	2315	2320	2334	S11	E09	4598	11	26.6	19	SN		3	C			82		F
	VORO	25	2317	2321	2328	S12	E07	4598	11	26.5	11	SF			C	2321		81	.8	D

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																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0059	LEAR	26	0037	0038	0045	S12	E07	4598	11	26.5	8	SF		3	C		27		
0060		26	0118	0119	0127	S12	E07	4598	11	26.6	9	1N					168	3.2	
	PURP	26	0117E	0136U	0147D	S12	E07	4598	11	26.6	30D	1N			P	0136	301	3.2	
	LEAR	26	0118	0119	0127	S12	E07	4598	11	26.6	9	SF		3	C		34		
0061		26	02121	0214	0224	S12	E06	4598	11	26.5	12	SN					28	.2	F
	YUNN	26	0212	0214	0222	S12	E06	4598	11	26.5	10	SN			C		16	.2	
	LEAR	26	0213	0214	0225	S11	E07	4598	11	26.6	12	SF		3	C		41		F
0062	LEAR	26	0232	0238	0254	S11	E06	4598	11	26.5	22	SF		3	C		80		F
0063		26	03449	03512	0514	S10	E26	4600	11	28.1	90	1N					112	2.2	EF
	CULG	26	0344	0351	0628	S09	E27	4600	11	28.2	164	1B			C	0351	200	2.2	EF
	LEAR	26	0353	0353	0401	S10	E25	4600	11	28.0	8	SF		3	C		25		F
0064	LEAR	26	0756	0758	0806	S12	E03	4598	11	26.5	10	SF		3	C		27		F
0065	CATA	26	0855E	0855	0900D	S09	E21	4600	11	27.9	5D	1		1	P	0855	68		
0066		26	09364	09391	0949	S11	E03	4598	11	26.6	13	SN					90	1.2	E
	LEAR	26	0936	0939	0948	S11	E02	4598	11	26.5	12	SF		3	C		68		
	ISTA	26	0937		0950	S11	E04	4598	11	26.7	13	SN							E
	CATA	26	0940	0940	1000D	S12	E03	4598	11	26.6	20D	S		2	C	0940	112	1.2	
		26	1026		1049	No Flare Patrol													
		26	1056		1144	No Flare Patrol													
		26	1201		1209	No Flare Patrol													
0067		26	1914	19152	1932	S11	E00	4598	11	26.8	18	SB	C 2.2				87		
	RAMY	26	1914	1915	1936	S10	E01	4598	11	26.9	22	SB	C 2.2	3	C		121		
	HOLL	26	1916E	1917	1927	S12	E00	4598	11	26.8	11D	SN	C 2.2	3	C		53		
0068		27	00536	01017	0118	S10	W03	4598	11	26.8	25	SN					78	1.1	EFH
	CULG	27	0053	0101	0128	S11	W03	4598	11	26.8	35	SB			C	0101	110	1.1	EF
	VORO	27	0057	0107	0115	S09	W04	4598	11	26.7	18	SF			C	0107	99	1.1	E
	LEAR	27	0059	0108	0110	S10	W03	4598	11	26.8	11	SF		3	C		25		FH
0069		27	0208*	02225	0243	S09	W04	4598	11	26.8	35	SN	C 2.0				103	1.4	EF
	CULG	27	0208	0227	0257	S10	W04	4598	11	26.8	49	SB			C	0227	160	1.6	EF
	LEAR	27	0218	0222	0240	S09	W04	4598	11	26.8	22	SN	C 2.0	3	C		51		F
	VORO	27	0219	0223	0233	S09	W04	4598	11	26.8	14	SF			C	0223	99	1.1	E
0070		27	0417*	04513	0515	S09	W06	4598	11	26.7	58	SN	C 1.2				114	1.7	EF
	CULG	27	0417	0454	0524	S09	W07	4598	11	26.6	67	SB			C	0454	170	1.7	EF
	MITK	27	0448	0451	0518	S09	W06	4598	11	26.7	30	SN			C	0451			E
	LEAR	27	0449	0451	0504	S09	W05	4598	11	26.8	15	SF	C 1.2	3	C		59		F
0071		27	0603*	06269	0653	S09	W07	4598	11	26.7	50	SN	C 2.5				184	2.6	EF
	CULG	27	0603	0635	0708	S09	W07	4598	11	26.7	65	1B			C	0635	260	2.6	EF
	MITK	27	0621	0626	0645	S09	W07	4598	11	26.7	24	SN			C	0626			E
	LEAR	27	0622	0627	0647	S09	W06	4598	11	26.8	25	SF	C 2.5	3	C		109		F
0072		27	10501	10539	1135	S10	W10	4598	11	26.7	45	1N	C 8.3				251	2.7	EF1
	ATHN	27	1040E	1053	1119	S11	W12	4598	11	26.5	39D	1B		3	V	1053	271	2.9	
	CATA	27	1050	1102	1150	S10	W08	4598	11	26.8	60	1		2	C	1102	253	2.7	
	HTPR	27	1051	1058	1135	S10	W10	4598	11	26.7	44	1B			C	1058	400	4.0	E1
	KANZ	27	1059E	1059U	1126D	S09	W10	4598	11	26.7	27D	1N		1					
	WEND	27	1103E		1137	S10	W09	4598	11	26.8	34D	SN			C	1103	100	1.1	
	RAMY	27	1116E		1118D	S11	W12	4598	11	26.6	2D	1F	C 8.3	3	C		231		F
0073		27	1501*	1512*	1643	S11	W14	4598	11	26.6	102	SN	C 1.9				54	.4	EK
	HTPR	27	1501		1532D	S11	W14	4598	11	26.6	31D	SF			C	1511	40	.4	E
	RAMY	27	1508	1512	1645	S11	W13	4598	11	26.6	97	SN		3	C		27		K
	RAMY	27	1508	1537	1645	S11	W13	4598	11	26.6	97	SN	C 1.9	3	C		119		K
	HOLL	27	1511	1512	1639	S11	W15	4598	11	26.5	88	SF		3	C		28		

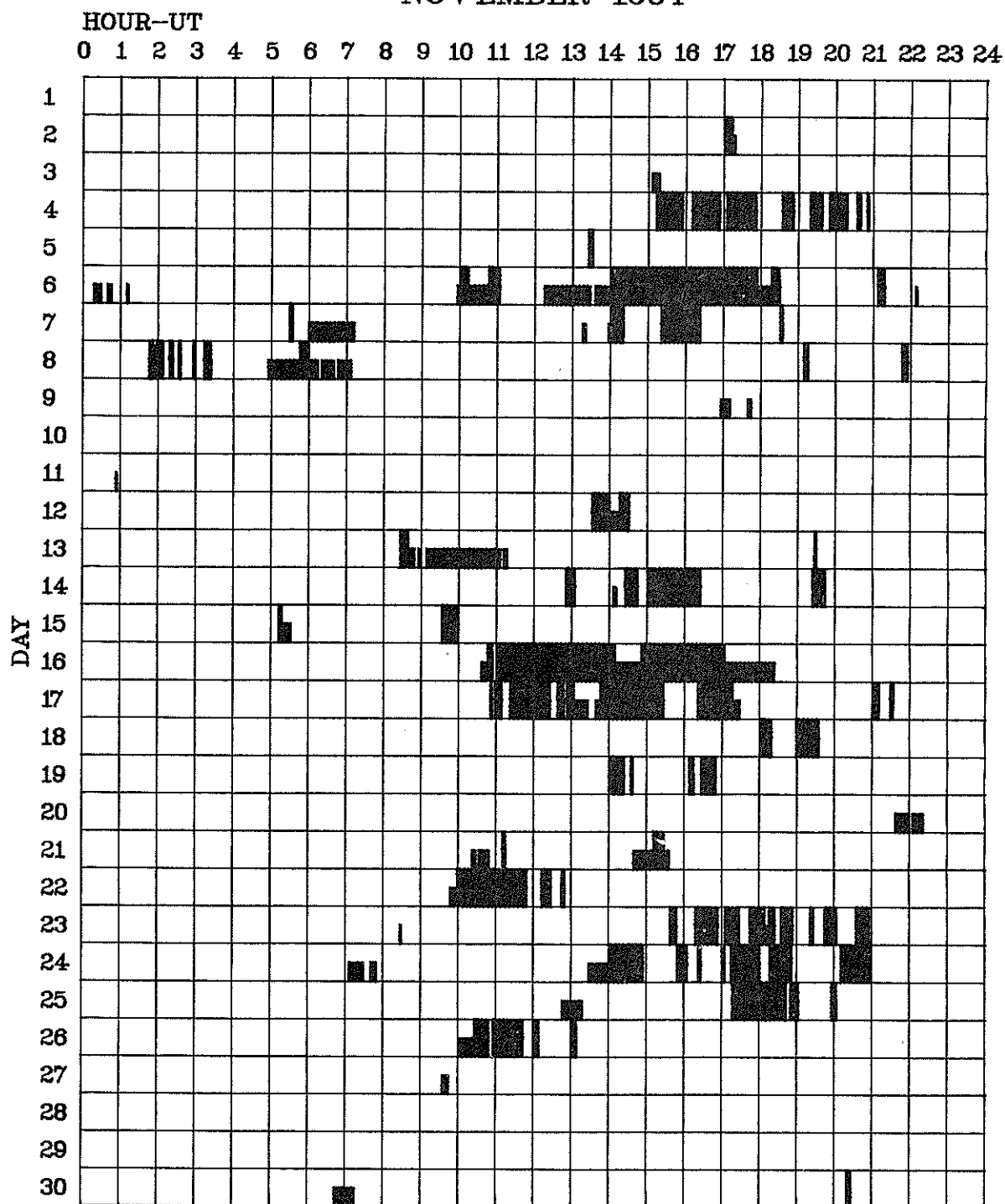
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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Time (UT)	Area Measurement			Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)		
0074		27	1746*	1746*	1855	S10	W14	4598	11	26.7	69	1B						164		FKU
	HOLL	27	1746	1746	1804	S10	W14	4598	11	26.7	18	SF			3	C		38		F
	RAMY	27	1746	1843	1921	S11	W15	4598	11	26.6	95	1B			3	C		292		UFK
	HOLL	27	1838	1841	1908	S09	W13	4598	11	26.8	30	1B			3	C		211		K
	HOLL	27	1838	1847	1908	S09	W13	4598	11	26.8	30	SB			3	C		116		UK
0075		27	20082	2019*	2045	S08	W14	4598	11	26.8	37	SN						76	1.2	EF
	CULG	27	2008	2029	2050	S09	W13	4598	11	26.9	42	SB				C	2029	120	1.2	EF
	HOLL	27	2010	2019	2040	S08	W14	4598	11	26.8	30	SF			3	C		32		F
0076		28	0018*	0027*	0200	S09	W16	4598	11	26.8	102	1N	M	1.1				361	4.7	EFIKTUV
	CULG	28	0018	0052	0233	S10	W15	4598	11	26.9	135	2B				P	0052	520	5.5	F
	LEAR	28	0024	0027	0149	S08	W14	4598	11	27.0	85	SF			3	C		47		EFTUV
	LEAR	28	0024	0051	0149	S08	W14	4598	11	27.0	85	1N	M	1.1	3	C		378		K
	VORO	28	0026		0121D	S10	W18	4598	11	26.7	55D	2F				C	0049	752	8.2	FK
	PURP	28	0031	0038	0040D	S10	W16	4598	11	26.8	9D	SN				C	0038	147	1.6	FIK
	MITK	28	0044E		0150	S10	W18	4598	11	26.7	66D	1B				C	0049	320	3.5	EU
0077		28	04544	04584	0544	S10	W21	4598	11	26.6	50	SN	C	1.9				106	1.1	EF
	CULG	28	0454	0458	0558	S11	W22	4598	11	26.5	64	SB				C	0458	110	1.1	EF
	LEAR	28	0457E	0500	0546	S10	W21	4598	11	26.6	49D	SF	C	1.9	3	C		102		F
	MITK	28	0458	0502	0529	S10	W19	4598	11	26.8	31	SN				C	0502			E
0078	HTPR	28	0806	0809	0820	S11	W22	4598	11	26.7	14	SF				C	0809	30	.3	E
0079		28	09064	09106	0922	S09	W23	4598	11	26.6	16	SF						83	.9	E
	WEND	28	0906	0914	0923	S09	W24	4598	11	26.6	17	SF				C	0914	118	1.3	
	CATA	28	0910E	0910	0910D	S08	W23	4598	11	26.6	17D	S			1	P	0910	112	1.3	
	HTPR	28	0910	0916	0920	S10	W23	4598	11	26.6	10	SF				C	0916	20	.2	E
0080	HTPR	28	1145		1332D	S11	W26	4598	11	26.5	107D	SN				C	1258	120	1.3	E
0081	HTPR	28	1223	1226	1240	S12	W34	4598	11	25.9	17	SF				C	1226	20	.2	
0082		28	12411	1314	1328	S11	W26	4598	11	26.6	47	SN						32		F
	KANZ	28	1241	1314	1329	S11	W27	4598	11	26.5	48	SN			2					
	RAMY	28	1242	1314	1326	S11	W25	4598	11	26.6	44	SN			3	C		32		F
0083		28	17243	17272	1739	S10	W29	4598	11	26.5	15	SF						41		SU
	HOLL	28	1724	1728	1743	S10	W30	4598	11	26.5	19	SF			3	C		55		
	PALE	28	1726	1727	1734	S09	W28	4598	11	26.6	8	SF			3	C		30		S
	RAMY	28	1727	1729	1740	S11	W29	4598	11	26.5	13	SF			3	C		37		U
0084	RAMY	28	1851	1853	1901	S11	W28	4598	11	26.7	10	SF			3	C		49		
0085	HOLL	28	2014	2019	2030	S09	W31	4598	11	26.5	16	SF			3	C		24		
0086		28	2041	20431	2112	S10	W28	4598	11	26.7	31	SN						27		
	RAMY	28	2041	2043	2126	S11	W31	4598	11	26.5	45	SN			3	C		20		
	HOLL	28	2041	2044	2058	S08	W26	4598	11	26.9	17	SF			3	C		34		
0087	LEAR	29	0528	0528	0532	S10	W35	4598	11	26.6	4	SF			3	C		28		F
0088	CATA	29	1150	1200	1220	S19	E28		12	1.6	30	1			2	C	1200	169	2.1	
0089	HTPR	29	1303	1305	1311	S10	E71		12	4.9	8	SF				C	1305	30		
0090		29	13502	13533	1408	S15	W46	4598	11	26.1	18	SN						42	.6	E
	HTPR	29	1350	1353	1410	S15	W46	4598	11	26.1	20	SN				C	1353	60	.8	E
	WEND	29	1352	1356	1406	S15	W45	4598	11	26.2	14	SN				C	1356	25	.4	
0091	KANZ	30	1001	1004	1007	N07	E59		12	4.8	6	SN			2					G
		30	2020		2027	No Flare Patrol														
0092	CULG	30	2241	2247	2331	S18	W46	4600	11	27.4	50	SF				C	2247	120	1.8	F

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE NOVEMBER 1984



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

Abastumani
Athens
Bucharest
Catania

Culgoora
Haute Provence
Holloman
Istanbul

Kodaikanal
Kanzelhoehe
Kharkov
Learmonth

Lvov
Manila
Mitaka
Palehua
Peking

Purple Mt.
Ramey
Voroshilov
Wendelstein
Yunnan

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0001	CULG	01	0040	0041	0044	S12	W28	4600	11	29.0	4	SF			C	0041	50	.6	EV
0002	LEAR	01	0146	0148	0153	S14	W65	4598	11	26.3	7	SF		3	C		35		F
0003	ISTA	01	0812	0813	0821	N22	E90	4602	12	8.2	9	1B							A
0004		01	1013	10132	1016	N18	E90	4602	12	8.3	3	1N					56		G
	KANZ	01	1013	1013	1016	N18	E90	4602	12	8.3	3	SN		2					G
	CATA	01	1015E	1015	1015D	N18	E90	4602	12	8.3	3D	1		2	P	1015	56		
0005		01	1200	12041	1211	N19	E90	4602	12	8.4	11	1F					28		
	RAMY	01	1200	1204	1211	N20	E90	4602	12	8.4	11	SF		3	C		11		
	CATA	01	1205E	1205	1210D	N18	E90	4602	12	8.3	5D	1		2	P	1205	45		
0006	RAMY	01	1448	1450	1454	N19	E90	4602	12	8.5	6	SF		3	C		18		
		01	2041		2120	No Flare Patrol													
0007	LEAR	02	0053	0054	0101	S10	W55	4600	11	28.0	8	SF		3	C		21		F
0008		02	0136*	01462	0156	S13	W57	4600	11	27.9	20	SN					56	.9	F
	CULG	02	0136	0148	0204D	S17	W58	4600	11	27.7	28D	1N			P	0148	100		F
	YUNN	02	0144E	0148	0200	S11	W56	4600	11	27.9	16D	SN			P		47	.9	F
	LEAR	02	0146	0146	0152	S10	W56	4600	11	28.0	6	SF		3	C		22		F
0009		02	0905	0905	0910	S16	W78	4598	11	26.6	5	1N					68		D
	KHAR	02	0900E	0904U	0915D	S17	W80	4598	11	26.4	15D	SN			V	0904			D
	CATA	02	0905	0905	0910	S15	W77	4598	11	26.6	5	1		2	C	0905	68		
		02	1106		1119	No Flare Patrol													
		02	1131		1146	No Flare Patrol													
		02	1224		1246	No Flare Patrol													
		02	1253		1301	No Flare Patrol													
		02	1306		1402	No Flare Patrol													
0010	HOLL	02	1738	1738	1744	N17	E78	4602	12	8.7	6	SF		3	C		12		
0011	HOLL	02	1830	1833	1843	N17	E79	4602	12	8.8	13	SF		3	C		16		
0012	HOLL	02	2041	2043	2047	N17	E78	4602	12	8.8	6	SF		3	C		11		
		03	1404		1541	No Flare Patrol													
		03	1621		1639	No Flare Patrol													
		03	2053		2123	No Flare Patrol													
		03	2126		2204	No Flare Patrol													
0013	KHAR	04	1035E	1036U	1040D	S18	W90		11	27.7	5D	SF			V	1036			A
0014	HTPR	04	1307E		1412	N18	E50	4602	12	8.3	65D	SF			C	1347	50	.6	E
0015	HTPR	04	1307E		1320	S04	E50	4603	12	8.3	13D	SF			C	1310	20	.3	E
		04	1727		1831	No Flare Patrol													
		04	1935		1939	No Flare Patrol													
0016	HTPR	05	0820	0822	0826	N20	E38	4602	12	8.2	6	SF			C	0822	20	.3	E
0017	HTPR	05	1215	1232	1320	N18	E38	4602	12	8.4	65	SF			C	1232	60	.6	E
		06	0331		0339	No Flare Patrol													
0018	LEAR	06	0607	0608	0620	S03	E26	4603	12	8.2	13	SF		2	C		30		FH
0019	HTPR	06	0915	0917	0955	S10	E26	4603	12	8.3	40	SF			C	0917	30	.3	E
0020	HTPR	06	1451		1531D	S04	E22	4603	12	8.3	40D	SF			C	1509	20	.2	E
0021	RAMY	06	1645	1649	1655	S03	E22	4603	12	8.3	10	SN		3	C		46		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0022	RAMY	06	2111	2112	2123	N18	E20	4602	12	8.4	12	SN		3	C		28		
		06	2135		2154	No Flare Patrol													
0023	HTPR	07	1240	1307	1327	S46	W80		11	30.8	47	SF			C	1307	20		
0024	HTPR	07	1405	1407	1436	S10	E36	4604	12	10.3	31	SF			C	1407	20	.3	E
0025	HTPR	08	0757E		0811	S09	E90	4605	12	15.1	14D	SN			C	0800	20		A
0026		08	0814	0819	0830	S08	E90	4605	12	15.1	16	SN					20		A
	ISTA	08	0814		0830	S08	E90	4605	12	15.1	16	SF							A
	HTPR	08	0814	0819	0830	S08	E90	4605	12	15.1	16	SN			C	0819	20		A
0027	HTPR	08	0835	0842	0910	S08	E90	4605	12	15.1	35	SB			C	0842	20		A
0028	HTPR	08	0920	0945	1016	S08	E90	4605	12	15.1	56	SN			C	0945	20		A
0029		08	10366	10471	1104	S08	E88	4605	12	15.0	28	SB					20		AD
	HTPR	08	1036	1047	1108	S08	E90	4605	12	15.2	32	SB			C	1047	20		A
	WEND	08	1042	1048	1101	S07	E85	4605	12	14.8	19	SN			C	1048	20		D
0030		08	11041	11053	1114	S10	E30	4604	12	10.7	10	SN					120	1.3	E
	HTPR	08	1104	1108	1120	S10	E29	4604	12	10.6	16	SN			C	1108	120	1.3	E
	KANZ	08	1105	1105	1109	S11	E30	4604	12	10.7	4	SF	2						
0031		08	1210*	1233*	1324	S11	E29	4604	12	10.7	74	SN					18	.1	
	HTPR	08	1210	1233	1325	S12	E28	4604	12	10.6	75	SN			C	1233	10	.1	
	RAMY	08	1311	1316	1322	S10	E30	4604	12	10.8	11	SF	3		C		26		
0032	HTPR	08	1250	1310	1333	S08	E87	4605	12	15.0	43	SB			C	1310	20		
0033	HTPR	08	1506		1537D	S10	E27	4604	12	10.6	31D	SF			C	1532	30	.3	E
		08	1648		1706	No Flare Patrol													
0034	RAMY	08	1800	1803	1819	S03	W08	4603	12	8.1	19	SF		3	C		28		
0035	YUNN	09	0301	0303	0306	S04	W13	4603	12	8.1	5	SN			C		31	.3	
		09	1401		1408	No Flare Patrol													
0036		10	0740	0715	0801	N17	E90	4608	12	17.1	21	1B					56		A
	CATA	10	0710E	0715	0715D	N17	E90	4608	12	17.1	5D 1		2	P		0715	56		A
	ISTA	10	0740		0801	N17	E90	4608	12	17.1	21	1B							
0037	CATA	10	1000	1000	1010D	N17	E90	4608	12	17.2	10D 1		1	P		1000	45		
0038		10	17011	17031	1719	S06	E52	4605	12	14.6	18	SN					60		F
	RAMY	10	1701	1703	1722	S06	E52	4605	12	14.6	21	SN	3	C		102			F
	HOLL	10	1702	1704	1716	S07	E52	4605	12	14.6	14	SF	3	C		18			F
0039		10	1831	1837*	2002	S12	E12	4607	12	11.7	91	SN					42		K
	RAMY	10	1831	1837	2002	S12	E12	4607	12	11.7	91	SF	3	C		35			K
	RAMY	10	1831	1853	2002	S12	E12	4607	12	11.7	91	SN	3	C		50			K
		11	0314		0317	No Flare Patrol													
		11	0321		0346	No Flare Patrol													
		11	0550		0559	No Flare Patrol													
0040	HTPR	11	0830E	0834	0853	S12	E03	4607	12	11.6	23D	SN			C	0834	30	.3	E
0041	HTPR	11	1000	1007	1020	S12	E02	4607	12	11.6	20	SN			C	1007	80	.8	E
0042	RAMY	11	1126	1138	1316	S11	E02	4607	12	11.6	110	SN		3	C		67		
0043	RAMY	11	1323	1407	1408	S11	E00	4607	12	11.5	45	SF		3	C		33		

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
						Region	Lat	CMD									Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0044		11	1436*	1512*	1623	S11 E01	4607	12	11.7	107	SN						61	.4	EK
	RAMY	11	1436	1512	1623	S11 W00	4607	12	11.6	107	SN			3	C		92		K
	RAMY	11	1436	1528	1623	S11 W00	4607	12	11.6	107	SN			3	C		51		K
	HTPR	11	1504		1530D	S12 E02	4607	12	11.8	26D	SF				C	1513	40	.4	E
0045	RAMY	11	1630	1702	1919	S11 W01	4607	12	11.6	169	SF			3	C		32		
0046	RAMY	11	1744	1745	1807D	N19 E72	4608	12	17.2	23D	SF			3	C		42		
		11	1826		1844	No Flare Patrol													
0047	RAMY	11	1928	2005	2030	S11 W03	4607	12	11.6	62	SF			3	C		27		
0048		11	20432	2048	2220	S12 W03	4607	12	11.6	97	SB						64	.2	DFV
	RAMY	11	2043	2048	2100	S12 W04	4607	12	11.6	17	SB			3	C		109		
	CULG	11	2045	2046U	2340	S13 W02	4607	12	11.7	175	SB				C	2046	20	.2	DFV
0049		12	1204	12061	1213	S12 W14	4607	12	11.4	9	SF						30	.3	E
	KANZ	12	1204	1206	1210	S11 W12	4607	12	11.6	6	SF			2					
	HTPR	12	1204	1207	1216	S12 W16	4607	12	11.3	12	SF				C	1207	30	.3	E
0050		12	12542	12563	1317	S11 W13	4607	12	11.5	23	SB						62	.7	E
	WEND	12	1254	1259	1315	S11 W11	4607	12	11.7	21	SN				C	1259	44	.5	
	KANZ	12	1256	1256	1307	S11 W11	4607	12	11.7	11	SB			2					
	HTPR	12	1256	1259	1330	S12 W16	4607	12	11.3	34	SB				C	1259	80	.9	E
		12	1446		1447	No Flare Patrol													
		12	1725		1726	No Flare Patrol													
		12	2204		2253	No Flare Patrol													
		13	1401		1413	No Flare Patrol													
		13	1420		1444	No Flare Patrol													
0051	RAMY	14	1531	1531	1542	S12 W41	4607	12	11.5	11	SN			3	C		30		
		14	1547		1615	No Flare Patrol													
		14	1712		1726	No Flare Patrol													
		14	1740		1754	No Flare Patrol													
		14	1855		1902	No Flare Patrol													
		14	2041		2047	No Flare Patrol													
		14	2108		2117	No Flare Patrol													
		14	2123		2209	No Flare Patrol													
		15	1003		1009	No Flare Patrol													
		15	1051		1104	No Flare Patrol													
		15	11																

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF		CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
						Lat	Region									Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0057		16	1116		1159	No Flare	Patrol											
		16	1310		1413	No Flare	Patrol											
	MITK	17	0145*	0151*	0255	N18 W02	4608	12	16.9	70	SN					46	.5	EH
	YUNN	17	0145	0151	0300	N12 W03	4608	12	16.8	75	SN		C	0151				EH
0058	ABST	17	0223	0230	0250	N23 W02	4608	12	16.9	27	SN		C			46	.5	
		17	0656E	0701U	0716D	N18 W86		12	10.7	20D	1F		3	C	0701	87		D
		17	1009		1029	No Flare	Patrol											
		17	1101		1229	No Flare	Patrol											
		18	1016		1319	No Flare	Patrol											
		18	1357		1411	No Flare	Patrol											
		18	1424		1447	No Flare	Patrol											
		18	2033		2041	No Flare	Patrol											
		18	2051		2057	No Flare	Patrol											
		18	2059		2102	No Flare	Patrol											
		19	0950		0951	No Flare	Patrol											
		19	1002		1009	No Flare	Patrol											
		19	1011		1049	No Flare	Patrol											
		19	1200		1217	No Flare	Patrol											
		19	1220		1244	No Flare	Patrol											
		19	1310		1315	No Flare	Patrol											
		19	1327		1347	No Flare	Patrol											
		19	1431		1701	No Flare	Patrol											
		19	1713		1758	No Flare	Patrol											
	0059	RAMY	19	2115	2116	2124D	S12 E49		12	23.6	9D	SN		2	C		99	
0060	CULG	20	0227	0300	0500	S11 E32	4609	12	22.5	153	1B			C	0300	240	2.9	DEFK
0061		20	0740	0745	0755	S13 E45	4609	12	23.7	15	1N					126	2.0	EG
	ABST	20	0738E	0740U	0750D	S14 E45	4609	12	23.7	12D	1N		3	C	0740	174	2.7	E
	YUNN	20	0740	0745	0755	S12 E45	4609	12	23.7	15	SN			C		79	1.2	G
		20	1515		1525	No Flare	Patrol											
0062	RAMY	20	1526E		1534	S12 E41	4609	12	23.7	8D	SF		3	C		26		F
0063	RAMY	20	1832	1833	1853	S13 E38	4609	12	23.6	21	SN		3	C		45		
0064		21	0236	02503	0319	S14 E34	4609	12	23.7	43	SN C 1.1					121	1.8	EKU
	PEKG	21	0204E		0246	S13 E34	4609	12	23.6	42D	SN			C	0246	101	1.4	EK
	LEAR	21	0236	0250	0332	S13 E34	4609	12	23.7	56	SF C 1.1	3		C		68		U
	MITK	21	0247E	0253	0313D	S14 E34	4609	12	23.7	26D	1N			C	0253	180	2.3	E
	PEKG	21	0252E	0252	0338	S14 E34	4609	12	23.7	46D	SN C 1.1			C	0252	134	1.7	E
		21	1419		1445	No Flare	Patrol											
		21	1457		1507	No Flare	Patrol											
		21	1511		1529	No Flare	Patrol											
	22	1459		1545	No Flare	Patrol												
0065		23	0526*	0534	0615	S14 E04	4609A	12	23.5	49	SN					56	.7	FGU
	YUNN	23	0526	0534	0615	S13 E05	4609A	12	23.6	49	SN			C		63	.7	G
	LEAR	23	0536	0558U	0615	S14 E04	4609A	12	23.5	39	SF		3	C		50		UF
0066	CULG	23	2011E	2134	2336	S06 E14	4610	12	24.9	205D	SN			P	2134	60	.6	
		24	1023		1126	No Flare	Patrol											
		25	0813		0832	No Flare	Patrol											
		25	0848		0859	No Flare	Patrol											
		25	1041		1044	No Flare	Patrol											
		25	1131		1154	No Flare	Patrol											
0067		25	19251	19251	1935	S14 W30		12	23.5	10	SF					22		F
	HOLL	25	1925	1925	1933	S15 W30		12	23.5	8	SF		3	C		23		F
	RAMY	25	1926	1926	1937	S12 W30		12	23.5	11	SF		3	C		22		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
			26 1444		1457			No Flare Patrol											
			26 1526		1610			No Flare Patrol											
			26 1625		1637			No Flare Patrol											
			26 1651		1711			No Flare Patrol											
			26 1852		1934			No Flare Patrol											
0068	ABST	27	0614E	0616U	0622D	S10	E24	4611	12	29.1	8D	SF		3	C	0616	87	.9	D
			27 1427		1452			No Flare Patrol											
			27 1507		1659			No Flare Patrol											
			28 0301		0308			No Flare Patrol											
			28 1503		1527			No Flare Patrol											
			28 1655		1734			No Flare Patrol											
			28 2043		2046			No Flare Patrol											
			28 2120		2123			No Flare Patrol											
			28 2125		2159			No Flare Patrol											
			29 0606		0628			No Flare Patrol											
			29 0651		0700			No Flare Patrol											
			29 1021		1024			No Flare Patrol											
			29 1031		1331			No Flare Patrol											
			29 1353		1421			No Flare Patrol											
			29 1505		1527			No Flare Patrol											
			29 1631		1636			No Flare Patrol											
			30 1021		1446			No Flare Patrol											
			30 1513		1518			No Flare Patrol											
			30 1551		1646			No Flare Patrol											
			30 1707		1722			No Flare Patrol											
0069		30	18221	1824	1827	S10	W79	4612	12	24.8	5	SF					16		
	HOLL	30	1822	1824	1826	S10	W79	4612	12	24.8	4	SF		3	C		18		
	PALE	30	1823	1824	1828	S09	W79	4612	12	24.8	5	SF		3	C		15		
			31 0000		0016			No Flare Patrol											
			31 1020		1129			No Flare Patrol											
			31 1206		1257			No Flare Patrol											
			31 1401		1441			No Flare Patrol											
			31 1503		1603			No Flare Patrol											

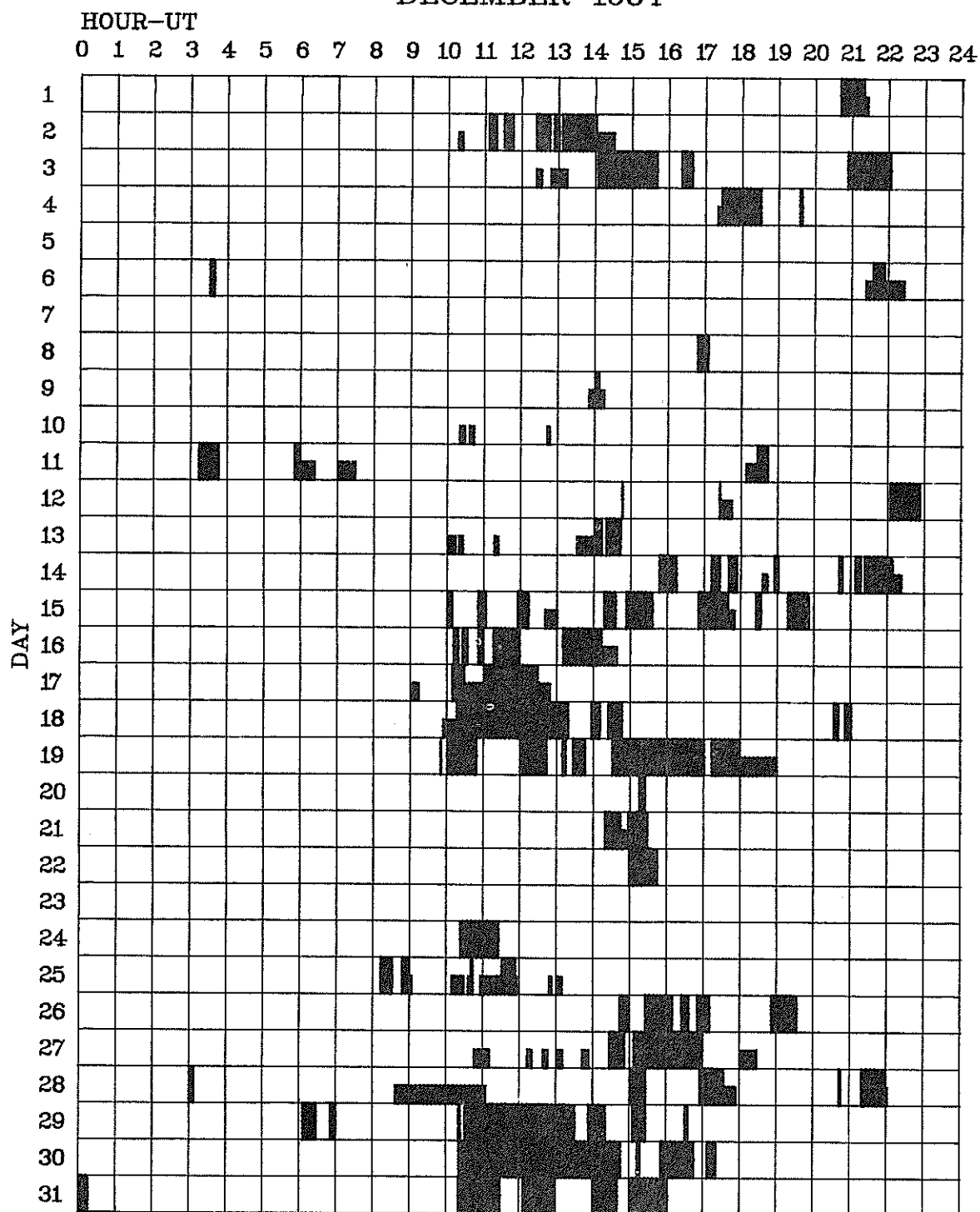
"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
 B = Probably the end of a more important flare.
 C = Invisible 10 minutes before.
 D = Brilliant point.
 E = Two or more brilliant points.
 F = Several eruptive centers.
 G = No visible spots in the neighborhood.
 H = Flare accompanied by high-speed dark filament.
 I = Active region very extended.
 J = Distinct variations of plage intensity before or after the flare.
 K = Several intensity maxima.
 L = Existing filaments show signs of sudden activity.
 M = White-light flare.
 N = Continuous spectrum shows effects of polarization.

O = Observations have been made in the H and K lines of Ca II.
 P = Flare shows helium D3 in emission.
 Q = Flare shows Balmer continuum in emission.
 R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
 S = Brightness follows disappearance of filament in same position.
 T = Region active all day.
 U = Two bright branches, parallel or converging.
 V = Occurrence of an explosive phase: important, expansion within roughly 1 minute that often includes a significant intensity increase.
 W = Great increase in area after time of maximum intensity.
 X = Unusually wide H-alpha line.
 Y = System of loop-type prominences.
 Z = Major sunspot umbra covered by flare.

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

DECEMBER 1984



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

Abastumani
Athens
Bucharest
Catania

Culgoora
Haute Provence
Holloman
Istanbul

Kanzelhoehe
Kharkov
Learmonth
Lvov

Manila
Mitaka
Palehua
Peking

Purple Mt.
Ramey
Voroshilov
Wendelstein
Yunnan

NUMBER OF SOLAR FLARES
(From the Grouped Flare Listings)

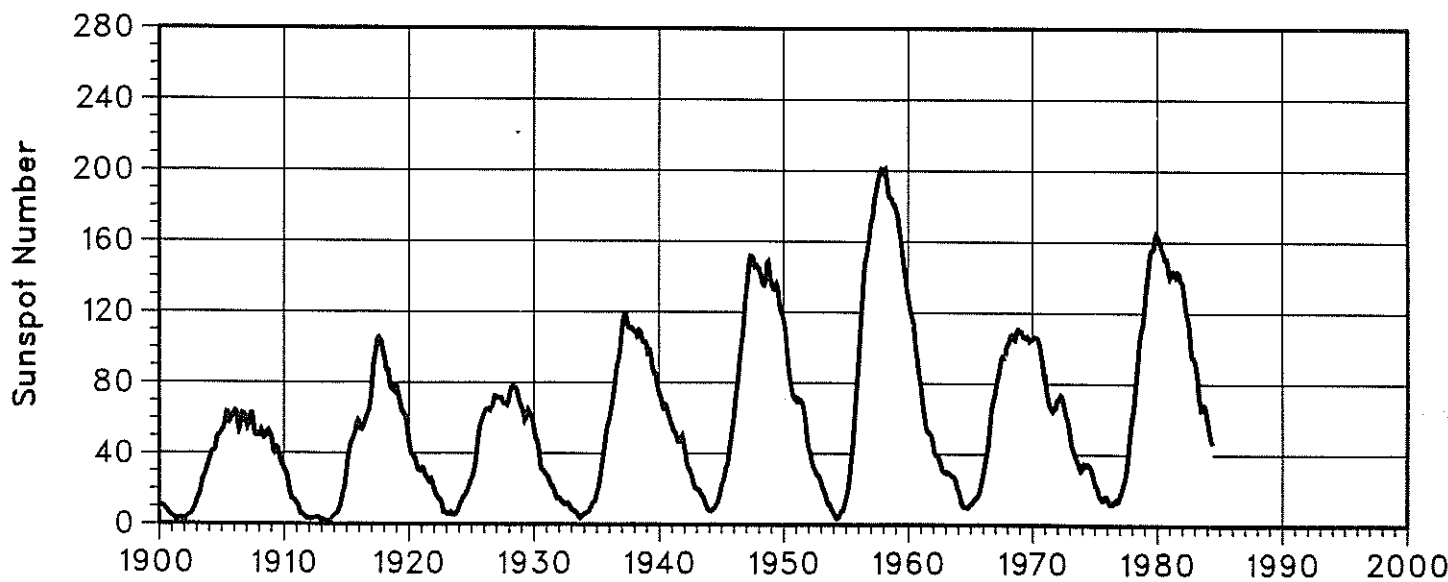
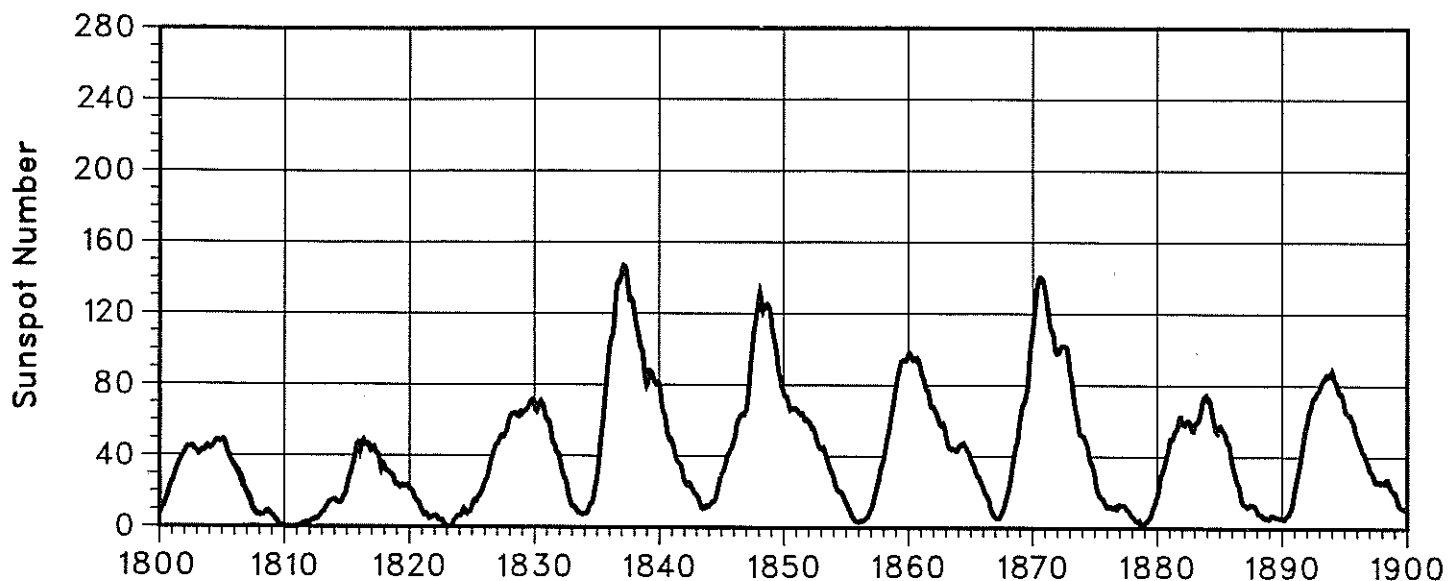
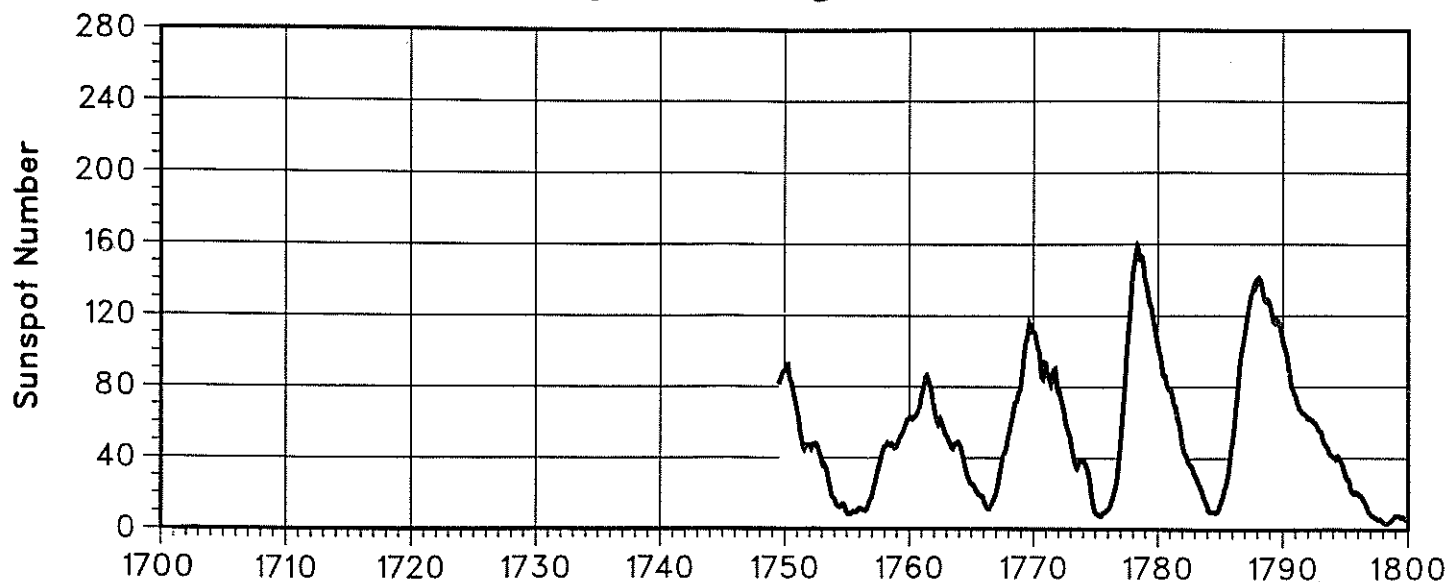
75
Dec 84

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1966								391	558	432	417	543
1967	796	589	1009	694	771	629	907	911	573	946	775	1109
1968	1037	773	519	460	768	697	573	611	616	772	556	640
1969	581	504	669	655	839	694	489	551	540	643	566	422
1970	466	646	578	688	722	836	954	780	811	797	687	667
1971	598	505	387	546	461	430	713	673	518	375	431	394
1972	384	599	621	361	614	541	404	515	371	408	175	210
1973	221	171	410	453	388	270	232	182	353	201	136	163
1974	127	148	79	364	255	204	360	187	270	366	153	81
1975	68	82	69	19	42	85	196	346	68	38	127	25
1976	69	18	180	60	38	48	6	47	57	23	13	55
1977	54	77	18	76	64	210	140	140	250	252	107	336
1978	274	588	338	526	330	460	533	346	554	499	418	648
1979	926	781	731	731	907	772	750	821	901	1018	888	786
1980	703	689	621	1092	811	956	763	720	924	938	1027	838
1981	578	782	914	915	658	592	893	982	680	836	773	615
1982	631	763	783	480	540	769	696*	753*	616*	545*	565*	749*
1983	332*	220*	337*	346*	609*	561*	427*	395*	289*	298*	88*	152*
1984	353*	461*	366*	440*	492*	185*	151*	161*	95*	36*	92*	69*

* Preliminary

SMOOTHED MONTHLY SUNSPOT NUMBERS

July 1749 - June 1984



C O N T E N T S

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May 85

ACTIVE PROMINENCES AND FILAMENTS

MAY 1985

Type	Day	Observed Start	UT End	Lat	CMD	Imp	Type	Sta	Remarks
DSD	May 01	0212	0300U	S06	W65	1	C	CULG	.06 R to S. B.
ASR	May 01	0600	1400	S17	E90		V	ATHN	
APR	May 01	0600	1400	N23	W90		V	ATHN	
ADF	May 01	0645	1400	N06	W71		V	ATHN	
ASR	May 01	0710	0728	S04	W90		V	ATHN	
ASR	May 01	0720	0728	N05	E90		V	ATHN	
ASR	May 01	0824	0835	N04	E90		V	ATHN	
ASR	May 01	1005	1013	N04	E90		V	ATHN	
ADF	May 01	1140	1400	N04	E76		V	ATHN	
ASR	May 02	0630	1400	N03	W90		V	ATHN	
ASR	May 02	0630	1400	N08	W90		V	ATHN	
ASR	May 02	0650	1400	N03	E90		V	ATHN	
ADF	May 02	0700	1400	N03	E61		V	ATHN	
BSL	May 02	0743	0807	N03	W90		V	ATHN	
BSL	May 02	0750E	0755D	N03	W90	2	C	CATA	
BSL	May 02	0820E	0835D	N07	W90	1	C	CATA	
BSL	May 02	0830	0835D	N03	W90	1-	C	CATA	
APR	May 02	0900	1400	N04	W90		V	ATHN	
BSL	May 02	1105E	1115D	N06	W90	1	C	CATA	
BSL	May 02	1110	1115D	S63	W90	1-	C	CATA	
BSL	May 02	1130E	1145D	N06	W90	2	C	CATA	
ASR	May 03	0600	0722	N04	W90		V	ATHN	
ADF	May 03	0600	0722	N02	E42		V	ATHN	
ADF	May 04	0730	1400	N10	E40		V	ATHN	
APR	May 04	0730	1400	S43	E90		V	ATHN	
ADF	May 04	0730	1400	N02	E25		V	ATHN	
APR	May 04	0730	1400	N45	E90		V	ATHN	
ADF	May 04	0730	1400	N05	E55		V	ATHN	
DSD	May 04	0940	1215	N01	E49		V	ATHN	
AFS	May 04	0950	1400	N08	E11		V	ATHN	
ADF	May 04	2214	0657D	N04	E19	1	C	CULG	12°
ADF	May 05	0600	1330	N03	E10		V	ATHN	
DSD	May 05	0900	0935	N38	E03		V	ATHN	
ADF	May 05	1100	1330	N03	E40		V	ATHN	
ADF	May 06	0645	1400	N06	E29		V	ATHN	
ADF	May 06	0645	1400	N05	E30		V	ATHN	
AFS	May 06	0645	1400	N04	E31		V	ATHN	
ADF	May 06*	0632	2151	N04	W06	3	C	CULG	20°, *Overnight, faint filament.
ASR	May 07	0600	1400	S12	E90		V	ATHN	
DSD	May 07	0740	0750	N10	W09		V	ATHN	
APR	May 07	0740	1400	S03	E90		V	ATHN	
EPL	May 07	0745E	0850D	S36	E90	2	C	CATA	
AFS	May 07	1045	1400	N09	W12		V	ATHN	
APR	May 08	0830	1100	S07	E90		V	ATHN	
AFS	May 08	0830	1400	N06	W20		V	ATHN	
ADF	May 08	0830	1400	N01	E04		V	ATHN	
ASR	May 08	0830	0900	N12	E90		V	ATHN	
AFS	May 08	0940	1400	S14	E70		V	ATHN	
DSD	May 08	0940	1400	S03	E70		V	ATHN	
ASR	May 08	1020	1400	N07	E90		V	ATHN	
AFS	May 09	0615	1400	N06	W32		V	ATHN	
ADF	May 09	0615	1400	S13	E58		V	ATHN	
APR	May 09	0830	1400	N07	E90		V	ATHN	
BSL	May 11	0705E	0735D	N04	W90	1-	C	CATA	
BSL	May 11	0745E	0835	N03	W90	1-	C	CATA	
ADF	May 13	0600	1203	S17	E05		V	ATHN	
ADF	May 13	0600	1203	S12	E01		V	ATHN	

ACTIVE PROMINENCES AND FILAMENTS

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Misc
May 85

MAY 1985

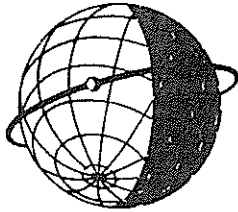
Type	Day	Observed Start	UT End	Lat CMD	Imp	Type	Sta	Remarks
APR	May 13	0600	1203	S23 E90		V	ATHN	
ADF	May 13	0745	1203	N08 E15		V	ATHN	
ADF	May 13	0745	1203	N01 W70		V	ATHN	
DSD	May 13	0900E	0900D	S18 E10	1	C	CATA	
ADF	May 13	1020	1203	S05 E15		V	ATHN	
ASR	May 13	1020	1150	N05 W90		V	ATHN	
ADF	May 14	0625	1400	S14 W05		V	ATHN	
ADF	May 14	0625	1400	S11 W05		V	ATHN	
ADF	May 14	0625	1400	N06 E01		V	ATHN	
AFS	May 14	0625	1400	N05 E02		V	ATHN	
DSD	May 14	0700	1400	S11 W04		V	ATHN	
ADF	May 14	0718	1400	S13 W03		V	ATHN	
BSL	May 14	0850	0900	N57 W90	1-	C	CATA	
AFS	May 15	0218	0233	S14 W17		V	MANI	
ADF	May 15	0218	0233	S11 W16	2	V	MANI	
ADF	May 15	0650	1400	S09 W18		V	ATHN	
ADF	May 15	0650	1400	N10 W10		V	ATHN	
AFS	May 15	0650	1400	S13 W18		V	ATHN	
BSL	May 15	0710E	0825	N01 W90	1-	C	CATA	
BSL	May 15	0830	0845	N02 W90	1-	C	CATA	
BSL	May 15	0910	0915D	S89 W90	1-	C	CATA	
BSL	May 15	1015	1025	N15 W90	1-	C	CATA	
BSL	May 15	1100	1105	N30 W90	1-	C	CATA	
BSL	May 16	0625	0715	S02 E90		P	BUCH	
BSL	May 16	0640E	0650D	N01 E90	1	C	CATA	
ASR	May 16	0700	1041	N02 E90		V	ATHN	
MDP	May 16	0700	1041	N07 E90		V	ATHN	
BSL	May 16	0700E	0710	N12 W90	1-	C	CATA	
BSL	May 16	0700E	0735	N02 E90	1-	C	CATA	
APR	May 16	0710	1041	N40 W90		V	ATHN	
BSL	May 16	0915	0930D	N01 W90	1	C	CATA	
BSL	May 17	0950	1000	S43 E90	1-	C	CATA	
BSL	May 17	1015	1055	N01 E90	1-	C	CATA	
BSL	May 17	1105	1140D	N01 E90	1-	C	CATA	
ADF	May 17	1130	1400	S09 W46		V	ATHN	
APR	May 17	1130	1400	N04 E90		V	ATHN	
ADF	May 17	1235	1245	N04 E80		V	ATHN	
BSD	May 18	0144E	0200	N08 W47	1	C	CULG	.08 R to N. B.
ADF	May 18	0225	0612D*	N07 E69	1	C	CULG	25° at 18/2317Z. *0621D on May 19.
ADF	May 18	0653	1400	S13 W58		V	ATHN	
ADF	May 18	0653	1400	S15 W59		V	ATHN	
ADF	May 18	0653	1400	N10 E69		V	ATHN	
DSD	May 18	0655	0810	N06 W58		V	ATHN	
DSD	May 18	0911	1155	N05 W59		V	ATHN	
APR	May 18	0925	1400	N32 E90		V	ATHN	
ASR	May 18	0938	1105	N10 E90		V	ATHN	
AFS	May 19	0700	1400	S08 E28		V	ATHN	
ADF	May 19	0700	1400	N02 E48		V	ATHN	
BSL	May 19	0705	0730	S37 E90	1-	C	CATA	
BSL	May 19	0920	0950	S07 E90	1-	C	CATA	
SDF	May 19	1115E	0630D	S13 W40	1	C	CATA	
ADF	May 19	2222E	0600D	N08 E42	1	C	CATA	15 sq deg
AFS	May 20	0630	1400	S07 E13		V	ATHN	
ADF	May 20	0630	1400	N09 E35		V	ATHN	
ADF	May 20	0710	1400	N07 E41		V	ATHN	
ASR	May 20	0740	1400	S12 W90		V	ATHN	
ADF	May 20	0745	1400	N11 E36		V	ATHN	
SSB	May 20	0836		E33		V	ATHN	
BSL	May 20	1005	1015	S89 E90	1-	C	CATA	
BSL	May 20	1130	1140	N04 E90	1-	C	CATA	

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Misc
May 85

ACTIVE PROMINENCES AND FILAMENTS

MAY 1985

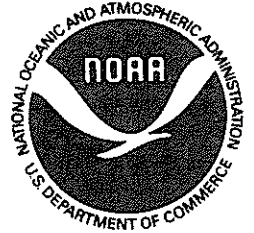
Type	Day	Observed UT		Lat CMD	Imp	Type	Sta	Remarks
		Start	End					
ADF	May 20	2159E	0659D	N02 E28	1*	C	CULG	15 sq deg Northwards eruptions at 21/0000Z 250 km/s and 21/0402Z 150 km/s.
BSL	May 20	2304	2359	S12 W90	1	C	CULG	.07 R.
BSL	May 21	0730	0745	N80 E90	1	C	CATA	
ADF	May 21	0850	1400	N01 E28		V	ATHN	
ADF	May 21	2227	0059	N02 E16	1	C	CULG	25°
BSL	May 22	0725	0740	S01 E90	1-	C	CATA	
ADF	May 22	1020	1040	N10 E10		V	ATHN	
APR	May 22	1030	1040	S18 E90		V	ATHN	
SDF	May 22	1145E	0615D	S17 E08	1	C	CATA	
SDF	May 23	0200	0252	N02 W03	2	C	CULG	25° filament trending SSW, reformed at 0537A. Erupted Northward at 400 km/s.
ADF	May 23	0630	1400	N05 W07		V	ATHN	
AFS	May 23	0715	1400	S03 W27		V	ATHN	
APR	May 23	0715	1400	S08 E90		V	ATHN	
APR	May 23	0715	1400	S26 E90		V	ATHN	
BSL	May 23	0755	0810D	N25 W90	1-	C	CATA	
ASR	May 23	0800	0850	N12 W90		V	ATHN	
BSL	May 23	0920	0925	S58 W90	1-	C	CATA	
BSL	May 23	0955	1010	S85 W90	1-	C	CATA	
BSL	May 23	1135	1145D	N04 W90	1-	C	CATA	
DSD	May 23	1246	1315	N05 W03		V	ATHN	
ADF	May 23	2259	0701D	S03 W14	1	C	CULG	10° filament extended to 25° overnight.
ADF	May 24	0700	1400	S12 W21		V	ATHN	
DSD	May 24	0835	1400	N09 W23		V	ATHN	
BSL	May 26	0755	0805D	N10 W90	1-	C	CATA	
APR	May 26	0925	1400	S45 W90		V	ATHN	
ADF	May 26	2152E	0651D	N01 W53	1	C	CULG	3 segments over 20°.
APR	May 27	0600	1400	N20 E90		V	ATHN	
BSL	May 27	0750	0810	N04 W90	1-	C	CATA	
BSL	May 27	0755	0800	S59 W90	1-	C	CATA	
BSL	May 27	1015	1025	S78 W90	1-	C	CATA	
ADF	May 28	0615	1400	S17 E26		V	ATHN	
ADF	May 28	0615	1400	N09 W68		V	ATHN	
AFS	May 28	0615	1400	N12 W69		V	ATHN	
APR	May 28	0715	1400	N11 E90		V	ATHN	
APR	May 28	0805	1400	S43 W90		V	ATHN	
EPL	May 28	0840	0950D	S49 W90	1	C	CATA	
ASR	May 28	0950	1150	N08 W90		V	ATHN	
APR	May 29	0615	1400	S11 W90		V	ATHN	
ASR	May 29	0615	1400	N23 E90		V	ATHN	
BSL	May 30	0700	0705	S27 W90	1-	C	CATA	
BSL	May 30	0955	1005	S72 W90	1-	C	CATA	
BSL	May 31	0710	0730	S74 W90	1-	C	CATA	
BSL	May 31	0950	1005	S73 E90	1-	C	CATA	



WORLD DATA CENTER A

FOR

SOLAR-TERRESTRIAL PHYSICS



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

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