

Solar-Geophysical Data Number 492  
August 1985. Part 2 (Comprehensive Reports)  
Data for February 1985, August  
September 1983, and Miscellanea

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

Prepared for

National Aeronautics and Space Administration  
Washington, DC

Aug 85

BIBLIOGRAPHIC INFORMATION

PB89-158331

Report Nos: SGD-492-PT-2

Title: Solar-Geophysical Data Number 492, August 1985. Part 2 (Comprehensive Reports). Data for February 1985, August, September 1983, and Miscellanea

Date: Aug 85

Authors: H. E. Coffey.

Performing Organization: National Geophysical Data Center, Boulder, CO.

Sponsoring Organization: \*National Aeronautics and Space Administration, Washington, DC. \*National Science Foundation, Washington, DC.

Grant Nos: NSF-ATM83-18491

Supplementary Notes: See also PB89-158323. Sponsored by National Aeronautics and Space Administration, Washington, DC., and National Science Foundation, Washington, DC.

NTIS Field/Group Codes: 54C

Price: PC A04/MF A01

Availability: Available from the National Technical Information Service, Springfield, VA. 22161

Number of Pages: 60p

Keywords: \*Solar activity, Solar radio emission, Solar x rays, Solar prominences, Solar flares, Tables(Data), GOES 6.

Abstract: Contents: Detailed index for 1984-1985; Data for February 1985--Maudon carte synoptique, Solar radio bursts at fixed frequencies, Solar x-ray radiation from GOES satellite, Mass ejections from the sun, Active prominences and filaments; Data for August - September 1983--Solar flares August 1983, Solar flares September 1983, Number of flares August 1966 - September 1983.

AUGUST 1985 NUMBER 492 Part II

# Solar-Geophysical Data comprehensive reports



Data for February 1985, August-September 1983, and Miscellanea  
Explanation of Data Reports Issued as Number 489 (Supplement) May 1985

---

**LATE DATA  
GROUPED SOLAR FLARES AUG-SEP 1983**

**Pages 17-56**

REPRODUCED BY  
U.S. DEPARTMENT OF COMMERCE  
NATIONAL TECHNICAL INFORMATION SERVICE  
SPRINGFIELD, VA. 22161

NO88



**U.S. DEPARTMENT OF COMMERCE**

Malcolm Baldrige, Secretary

**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION**

Anthony J. Calio, Acting Administrator

**NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE**

William P. Bishop, Acting Assistant Administrator

**Solar - Geophysical Data**

NO. 492 AUGUST 1985

**Part II (Comprehensive Reports)**

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

DATA FOR  
FEBRUARY 1985  
AUGUST 1983  
SEPTEMBER 1983

International Standard Serial Number: 0038-0911  
Library of Congress Catalog Number: 79-640375 //r81

For sale through the National Geophysical Data Center, NOAA/NESDIS, E/GC2, 325 Broadway, Boulder, Colorado 80303. Subscription Price for the U.S., Canada and Mexico: \$70.00 annually for both Part I (Prompt Reports) and Part II (Comprehensive Reports) or \$35.00 annually for either part. Annual supplement containing explanation is included. For foreign mailing \$90.00 for both parts or \$45.00 for either part. We now require prepayment for all orders. Please include with your request a check or money order payable in U.S. currency to the Department of Commerce, NOAA/NGDC. Any bank charges should be paid by the subscriber. Payment may be made through an American Express, Mastercard or VISA credit cards. Please include the correct name of credit card holder, card number and expiration date. Prices are subject to change. UNESCO coupons acceptable.

For obtaining bulletins on a data exchange basis, send request to: World Data Center A for Solar-Terrestrial Physics, NOAA/NESDIS/NGDC, E/GC2, 325 Broadway, Boulder, Colorado 80303.

**BACK ISSUES OF "SOLAR-GEOPHYSICAL DATA"**

Reel #	Coverage	Medium	Reel #	Coverage	Medium	Reel #	Coverage	Medium
1	Jan 56 - Dec 56	Microfilm	9	Jan 64 - Dec 64	Microfilm	17	Jul 69 - Dec 69	Microfilm
2	Jan 57 - Dec 57	Microfilm	10	Jan 65 - Dec 65	Microfilm	18	Jan 70 - Jun 70	Microfilm
3	Jan 58 - Dec 58	Microfilm	11	Jan 66 - Sep 66	Microfilm	19	Jul 70 - Dec 70	Microfilm
4	Jan 59 - Dec 59	Microfilm	12	Oct 66 - Dec 66	Microfilm	20	Jan 71 - Jun 71	Microfilm
5	Jan 60 - Dec 60	Microfilm	13	Jan 67 - Dec 67	Microfilm	21	Jul 71 - Dec 71	Microfilm
6	Jan 61 - Dec 61	Microfilm	14	Jan 68 - Jun 68	Microfilm	22	Jan 72 - Jun 72	Microfilm
7	Jan 62 - Dec 62	Microfilm	15	Jul 68 - Dec 68	Microfilm	23	Jul 72 - Dec 72	Microfilm
8	Jan 63 - Dec 63	Microfilm	16	Jan 69 - Jun 69	Microfilm		1973 - 1984	Microfiche

Microfilm are available at \$30.00 per reel; microfiche at \$40.00 per year; \$1,000.00 for above set. Back issues in booklet form are available as long as stocks exist at \$4.00 for either part plus a \$3.00 handling charge per order. Foreign orders must be over \$10.00.

To standardize referencing these reports in the open literature, the following format is recommended: Solar-Geophysical Data, 474 Part I (or Part II), pages, February 1984, U.S. Department of Commerce (Boulder, Colorado, USA 80303).

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

NUMBER 492

(Issued in Two Parts)

Editor:  
Helen E. Coffey, Physicist

Joe H. Allen, Chief  
Solar-Terrestrial Physics Division

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

C O N T E N T S

PART I (PROMPT REPORTS)

	Page
DETAILED INDEX FOR 1984-1985. . . . .	2
DATA FOR JULY 1985. . . . .	3- 26
DATA FOR JUNE 1985 . . . . .	27 -81
LATE DATA . . . . .	83-107
Cosmic Rays Huancayo Mar 1985; Alert/Deep River Dec 84-Apr 85	
Calcium Plage Data	
Plage Regions Jan 1983	
Daily Maps May 1984	

PART II (COMPREHENSIVE REPORTS)

	Page
DETAILED INDEX FOR 1984-1985 . . . . .	2
DATA FOR FEBRUARY 1985 . . . . .	3- 16
SOLAR FLARE DATA AUG-SEP 1983 (Preliminary). . . . .	17- 56

## DETAILED INDEX OF OBSERVATIONS PUBLISHED IN "SOLAR-GEOPHYSICAL DATA"

CODE	KIND OF OBSERVATION	DEC	JAN 85	FEB	MAR	APR	MAY	JUN	JUL	
<b>A. SOLAR AND INTERPLANETARY PHENOMENA</b>										
A.1	Sunspot Drawings	486A 30	487A 30	488A 31	489A 30	490A 34	491A 28	492A 30		
A.2aa	Internat. Provisional Sunspot Numbers	485A 7	486A 7	487A 7	488A 7	489A 7	490A 7	491A 7	492A 9	
A.2c	American Sunspot Numbers	485A 7	486A 7	487A 7	488A 7		490A 7	491A 7	492A 9	
A.3a	Mt. Wilson Magnetograms	486A 30	487A 30	488A 31	489A 30	490A 34	491A 28	492A 30		
A.3b	Mt. Wilson Sunspot Magnetic Class	486A 61	487A 61	488A 59	489A 61	490A 64	491A 59	492A 60		
A.3c	Kitt Peak Magnetograms	486A 30	487A 30	488A 31	489A 30	490A 34	491A 28	492A 30		
A.3d	Mean Solar Magnetic Field (Stanford)	485A 22	486A 24	487A 24	488A 20	489A 23	490A 23	491A 20	492A 25	
A.3e	Stanford Magnetograms	486A 30	487A 30	487A 31	489A 30	490A 34	491A 28	492A 30		
A.4	H-alpha Filtergrams	486A 30	487A 30	487A 31	489A 30	490A 34	491A 28	492A 30		
A.5	Calcium Plage Photographs/Drawings	Dec 83-Feb 84 in 490A 91; Mar-Apr 84 in 491A 95; May 84 in 492A 104								
A.5a	Calcium Plage and Sunspot Regions	Nov 82 in 490A 101; Dec 82 in 491A 88; Jan 83 in 492A 96								
A.5b	Daily Calcium Plage Indices	Jun-Aug 83 in 485A 113								
A.6	H-alpha Synoptic Charts	486A 24	488A 26	488A 27	489A 26	490A 26	491A 26	492A 28		
A.6b	Active Region Carte Synoptique (Paris)	490B 4	491B 4	492B 4						
A.6c	Stanford Solar Mag Field Synoptic Maps	486A 27	487A 27	488A 28	489A 27	490A 28	491A 25	492A 30		
A.6d	Kitt Peak Solar Mag Field Synoptic Maps	486A 28	487A 28	488A 29	489A 28	490A 30	491A 26			
A.6e	Mass Ejections from the Sun	490B 14	491B 22	492B 14						
A.6f	Active Prominences and Filaments	490B 15	491B 23	492A 15						
A.7g	Kitt Peak Helium Synoptic Maps	486A 29	487A 29	488A 30	489A 29	490A 32	491A 27			
A.7h	Coronal Line Emission (Sacramento Peak)	486A 30	487A 30	488A 31	489A 30	490A 34	491A 28	492A 30		
A.8aa	2800 MHz - Solar Flux (Ottawa)	485A 7	486A 7	487A 7	488A 7	489A 7	490A 7	491A 7	492A 9	
A.8ac	2800 MHz - Adj. Solar Flux (Ottawa)	485A 7	486A 7	487A 7	488A 7	489A 7	490A 7	491A 7	492A 9	
A.8g	Adjusted Daily Solar Fluxes (Sagamore)	485A 7	486A 7	487A 7	488A 7	489A 7	490A 7	491A 7	492A 9	
A.10a	Interferometric Chart -169 MHz- Nancy	486A 84	486A 15	487A 14	488A 14	489A 16	490A 15	491A 14	492A 18	
A.10c	East-West Scans - 21 cm - Fleurs	485A 16	486A 18	487A 17	488A 17	489A 19	490A 18	491A 17	492A 21	
A.10d	East-West Scans - 43 cm - Fleurs	485A 17	486A 18	487A 18	488A 18	489A 20	490A 19	491A 18	492A 22	
A.10e	East-West Scans - 10 cm - Ottawa	485A 15	486A 17	487A 16	488A 16	489A 18	490A 17	491A 16	492A 20	
A.10f	East-West Scans - 3 cm - Toyokawa	486A 85	486A 16	487A 15	488A 15	489A 17	490A 16	491A 15	492A 19	
A.11q	Solar X-ray GOES (graphs/event table)	490B 8	491B 15	492B 8						
A.12e	Solar Particles (IMP H & J)	Jan-Mar 83 in 478B 28; Apr-Dec 83 in 491B 80								
A.13d	Solar Wind from IP Scintillations	486A 92								
A.13e	Solar Plasma (IMP H & J)									
A.13f	Solar Wind (Pioneer 12)	Aug 83-Jan 84 in 487A 82								
A.16a	SMM Solar Irradiance	490B 18								
A.16b	NIMBUS Solar Irradiance	Nov 78-Mar 81 data in 485B 70								
A.17	Interplanetary Mag Field (Pioneer 12)	488A 80								
A.17c	Inferred Interplanetary Magnetic Field	485A 19	486A 21	487A 21	488A 21					
<b>B. IONOSPHERIC RADIO PROPAGATION PHENOMENA</b>										
B.52	Field Strength Graphs - North Atlantic	486A 80	487A 78	488A 76	489A 76	490A 82	491A 80	492A 80		
B.53	Quality Indices on Paths to Germany	486A 79	487A 80	488A 75	489A 78	490A 84	491A 82	492A 79		
<b>C. SOLAR FLARE-ASSOCIATED EVENTS</b>										
C.1a	H-alpha Flares	485A 12	486A 12	487A 13	488A 12	489A 12	490A 12	491A 12	492A 14	
C.1ba	H-alpha Flare Groups	1983	Mar-May 83 in 490B 19; Jun-Jul 83 in 491B 26; Aug-Sep 83 in 492B 17							
C.1d	Flare Patrol Observations	484A 14	486A 12	487A 14	488A 13	---	490A 14	491A 13	492A 17	
C.1d	Flare Patrol Observations	1983	Mar-May 83 in 490B 19; Jun-Jul 83 in 491B 26; Aug-Sep 83 in 492B 17							
C.1e	Flare Indices (by day)									
C.3	Radio Bursts Fixed Freq.	489B 6	491B 6	492B 6						
C.3	Radio Bursts Fixed Freq. Selected	485A 18	486A 19	487A 19	488A 18	489A 21	490A 20	491A 19	492A 23	
C.4d	Radio Bursts Spectral (Culgoora)	486A 66								
C.4e	Radio Bursts Spectral (Weissenau)	486A 66	487A 67	488A 63	489A 66	490A 69	491A 65	492A 67		
C.4f	Radio Bursts Spectral (Sagamore Hill)	486A 66	487A 67	488A 63	489A 66	490A 69	491A 65	492A 67		
C.4i	Radio Bursts Spectral (Blöden)	486A 66	487A 67	488A 63	489A 66	490A 69	491A 65	492A 67		
C.4k	Radio Bursts Spectral (Learmonth)	486A 66	487A 67	488A 63	489A 66	490A 69	491A 65	492A 67		
C.4l	Radio Bursts Spectral (Palohua)	486A 66	487A 67	488A 63	489A 66	490A 69	491A 65	492A 67		
C.6	Sudden Ionospheric Disturbances	486A 65	487A 65	488A 62	489A 65	490A 67	491A 64	492A 66		
<b>D. GEOMAGNETIC &amp; MAGNETOSPHERIC PHENOMENA</b>										
D.1a	Geomagnetic Indices	486A 74	487A 73	488A 69	489A 71	490A 76	491A 74	492A 73		
D.1ba	27-day Chart of Kp Indices	486A 76	487A 75	488A 71	489A 73	490A 78	491A 76	492A 75		
D.1c	27-day Chart of Cg	488A 72								
D.1d	Principal Magnetic Storms	486A 78	487A 77	488A 74	489A 75	490A 80	491A 78	492A 77		
D.1f	Sudden Commencement/Solar Flare Effects	487A 88	488A 81	489A 80	490A 86	490A 81	491A 79	492A 78		
D.1g	Equatorial Indices Dst	486A 77	487A 76	488A 73	489A 74	490A 79	491A 77	492A 76		
<b>F. COSMIC RAYS</b>										
F.1a	Cosmic Ray Neutron Counts (Deep River)	492A 84	492A 85	492A 86	492A 87	492A 88				
F.1b	Cosmic Ray Neutron Counts (Climax)	486A 73	489A 81	489A 82	490A 89	490A 75	491A 73	492A 69		
F.1e	Cosmic Ray Neutron Counts (Alert)	492A 84	492A 85	492A 86	492A 87	492A 88				
F.1h	Cosmic Ray Neutron Counts (Thule)	486A 73	487A 72	488A 65	491A 85	491A 86	491A 73	492A 69		
F.1i	Cosmic Ray Neutron Counts (Kiel)	486A 73	487A 72	488A 65	489A 67	490A 75	491A 73	492A 69		
F.1j	Cosmic Ray Neutron Counts (Tokyo)	486A 73	487A 72	488A 65	489A 67	490A 75	491A 73	492A 69		
F.1l	Cosmic Ray Neutron Counts (Huancayo)	491A 84	490A 87	490A 88	491A 85					
F.1m	Cosmic Ray Neutron Counts (Predigtstuhl)	486A 73	487A 72	488A 65	489A 67	490A 75	491A 73	492A 69		
<b>H. MISCELLANEOUS</b>										
H.60	IUNDS Alert Periods	485A 4	486A 4	487A 4	488A 4	489A 4	490A 4	491A 4	492A 5	

The entry "486A 30" under Dec 1984, for example, means that the sunspot drawings for Dec 1984 appear in SOLAR-GEOPHYSICAL DATA No. 486, Part I, and that they begin on page 30. "A" denotes Part I and "B", Part II. Blanks indicate data not yet received and dashes mark unavailable data.

C O N T E N T S

Comprehensive Reports

DATA FOR FEBRUARY 1985

Number 492 Part II

MEUDON CARTE SYNOPTIQUE	Page
Active Regions and Filaments . . . . .	4
Synoptic Solar Maps. . . . .	5
SOLAR FLARES	
H-alpha Solar Flare Groups	
Daily Flare Indices	
Intervals of No Flare Patrol Observation (Unavailable at time of publication)	
SOLAR RADIO BURSTS AT FIXED FREQUENCIES . . . . .	6- 7
INTERPLANETARY SOLAR PARTICLES AND PLASMA (Data unavailable at time of publication.)	
SOLAR X-RAY RADIATION FROM GOES SATELLITE Graphs . . . . .	8 -12
Event List . . . . .	13
MASS EJECTIONS FROM THE SUN . . . . .	14
ACTIVE PROMINENCES AND FILAMENTS . . . . .	15-16
SOLAR IRRADIANCE (not available at time of publication)	

4  
Feb 85

CARTE SYNOPTIQUE

ACTIVE REGIONS  
CARRINGTON ROTATION 1758

(24 January to 20 February 1985)

---

Region No.	Coordinates		Imp	Age at	Spotless Region	Region No. in Rotation 1757	Activity at West Limb
	Lat.	Long.		CMP (Days)			
1	5°S	357	:	+5	x		disappeared
2	6°N	353	1	-2	x		dispersed
3	15°S	298	1	-3	x		decreasing
4	17°N	267	3	0			decreasing
5	15°S	264	2	0			decreasing
6	19°N	182	1	>6	x		dispersed
7	10°N	161	1	0	x		decreasing
8	6°S	140	1	>6	x		dispersed
9	13°S	140	1	>6	x		dispersed
10	5°N	133	1	-1	x		disappeared
11	1°N	99	1	+5	x		dispersed
12	11°S	75	2	>6			decreasing
13	12°N	34	1	0	x		disappeared
14	9°S	27	2	0			decreasing
15	29°S	27	1	+1	x		disappeared

---

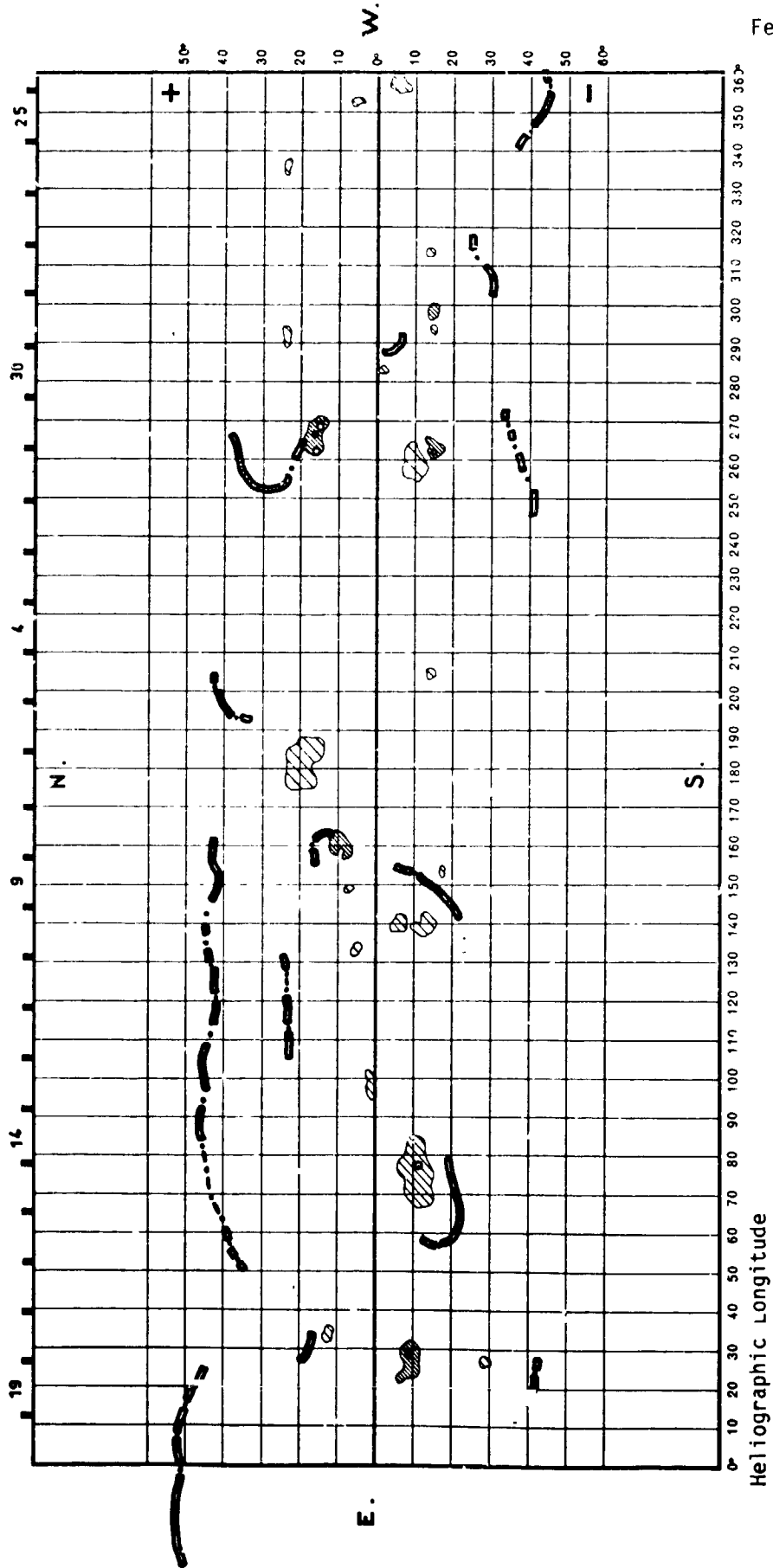


CARTE SYNOPTIQUE

CARRINGTON ROTATION NUMBER 1758  
(January 24 to February 20, 1985)

Meudon Observatory

January 1985



6  
Feb 85

SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

FEBRUARY 1985

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (10 <sup>-22</sup> W/m <sup>2</sup> Hz)		
02	260	ONDR	44 NS	0824.0E		333.0D	4.0			
	1000	TYKW	45 C	0313.5	0314.5	1.0	16.0	2.0		
	1000	TYKW	45 C	0314.8	0315.0	.6	19.0	4.0		
	9400	HUAN	20 GRF	1717.8	1742.4	35.4	4.0	3.4		
	9400	HUAN	20 GRF	1822.0	1836.4	32.7	8.0	5.3		
03	260	ONDR	44 NS	0824.0E		308.0D	5.0			
	430	KRAK	8 S	0947.5	0947.5	.4	5.0			
	810	KRAK	8 S	0947.5	0947.5	.2	19.0			
04	260	ONDR	44 NS	0825.0E		347.0D	5.0			
	9400	HUAN	20 GRF	1521.7	1539.3	39.5	5.4	2.8		
	9400	HUAN	22 GRF	1634.6	1645.5	18.8	5.4	2.5		
	9400	HUAN	20 GRF	1748.7	1803.1	39.6	8.1	2.7		
05	430	KRAK	8 S	1049.5	1049.5	.4	6.0			
	536	CNDR	41 F	1056.0	1057.8	1.8				
06	33	UPIC	2 S/F	1001.0	1001.7	1.5				
	29	UPIC	45 C	1001.1	1002.0	1.6				
	430	KRAK	3 S	1054.0	1054.5	1.2	6.0	3.0		
	430	KRAK	8 S	1229.0	1229.0	.2	4.0			
07	2800	OTTA	20 GRF	1910.0	1920.0	120.0	2.8	1.3		
	9400	HUAN	22 GRF	1916.8	1934.8	19.4	5.1	1.0		
08	808	ONDR	8 S	0848.0	0848.5	1.0				
	430	KRAK	3 S	0933.0	0933.5	.8	7.0	3.0		
	430	KRAK	2 S/F	1054.5	1055.0	2.0	5.0	2.0		
	260	ONDR	8 S	1137.2	1137.5	.7	3.0			
	808	ONDR	46 C	1426.5	1427.2	1.0				
	260	ONDR	46 C	1431.0	1431.0	2.0	5.0			
09	430	KRAK	8 S	1032.0	1032.5	.8	6.0			
	810	KRAK	8 S	1036.5	1036.5	.2	7.0			
10	260	ONDR	8 S	1058.5	1058.5	.1	2.0			
	260	ONDR	42 SER	1151.8	1200.5	12.0	5.0			
11	9400	HUAN	22 GRF	1522.0	1534.3	34.5	5.3	2.7		
	9400	HUAN	20 GRF	1930.1	2015.0	99.1	6.0	1.2		
12	3750	TYKW	20 GRF	0140.0	0205.0U	60.0U	1.5U	.7U		INTERFERENCE
	2000	TYKW	20 GRF	0150.0	0209.0	50.0	1.0	.5		
	260	ONDR	40 F	1126.5	1135.0	8.5	78.0			
	9400	HUAN	20 GRF	1648.6	1705.5U	39.8	5.5	2.9		
13	9400	HUAN	1 S	2021.8	2024.6	4.2	4.1	.5		
14	430	KRAK	2 S/F	0914.0	0914.5	1.5	7.0	2.0		
	430	KRAK	2 S/F	0925.5	0926.0	1.5	8.0	3.0		
15	9400	HUAN	22 GRF	1624.0	1643.7	29.7	5.2	2.1		
	9400	HUAN	20 GRF	1740.2	1747.0	14.6	3.9	2.4		
	9400	HUAN	20 GRF	1819.0	1829.3	21.3	7.7	4.4		
16	260	ONDR	40 F	0856.2	0858.0	10.0	1.0			
	808	ONDR	40 F	0858.3	0858.5	4.5				
	536	ONDR	40 F	0900.0	0903.0	7.0	44.0			
	808	ONDR	42 SER	0922.5	0925.0	2.5				
17	260	ONDR	43 NS	0854.0	1033.5	35.0	3.0			
	536	ONDR	40 F	0911.0U	0924.0U	53.0D				
	260	ONDR	40 F	0911.0	0919.0	13.0	1.0			
	808	ONDR	40 F	0917.5	0921.0	10.5				
	536	ONDR	40 F	1024.0	1033.5	10.0	8.0			
	808	ONDR	40 F	1033.0	1033.8	1.0				
	29	UPIC	2 S/F	1119.8	1120.3	1.0				
	33	UPIC	2 S/F	1120.0	1120.3	.9				
	260	ONDR	40 F	1240.0	1240.0	3.5	2.0			
	327	TRST	45 C	1524.6	1524.8	.3		47.0		

SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

7  
Feb 85

FEBRUARY 1985

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Density Mean (2 Hz)	Int	Remarks
17	237	TRST	46 C	1524.6	1524.8	.3		121.0		
	237	TRST	45 C	1525.7	1525.8	.2		31.0		
18	260	ONDR	44 NS	0750.0E		373.00	11.0			
	9400	HUAN	1 S	1310.2	1314.3	9.1	5.2	2.6		
	9400	HUAN	2 S/F	1420.2	1423.9	6.8	3.9	1.0		
	2800	OTTA	20 GRF	1600.0	1750.0	225.0	1.4	0.9		
	9400	HUAN	1 S	1613.8	1615.4	4.7	5.2	2.4		
	9400	HUAN	22 GRF	1649.7	1731.6	57.4	6.5	2.3		
	245	PALE	47 GB	2044.8	2046.0	1.5	71.0			QL=6 ST=2 TYP=5
19	204	IZMI	43 NS	0700.0		300.0	15.0			
	260	ONDR	44 NS	0755.0E	1133.0	410.00	70.0			
	127	TORN	44 NS	0840.0E		250.00		1.0		V=0
	245	PALE	43 NS	2245.0	0105.0	331.00	83.0			QL=6 ST=2 TYP=1
	245	LEAR	8 S	0049.6	0049.8	.4	41.0			C=6 ST=2 TYP=3
	9400	HUAN	20 GRF	1321.1	1342.5	35.2	4.4	1.6		
	9400	HUAN	22 GRF	1426.1	1435.0	12.6	4.4	2.2		
	9400	HUAN	3 S	1603.2	1604.2	2.9	14.6	4.9		
20	208	VORO	44 NS	0000.0E		240.00		15.0		
	204	IZMI	43 NS	0700.0		300.0	10.0			
	260	ONDR	44 NS	0750.0E		430.00	71.0			
	127	TORN	44 NS	0900.0E		360.00		3.0		V=1
	2800	OTTA	1 S	1453.5	1455.0	4.0	1.8	0.7		
	2800	OTTA	21 GRF	1705.0	1750.0	65.0	1.2	0.6		
	2800	OTTA	1 S	1734.2	1734.5	1.8	.4			
	2800	OTTA	20 GRF	1925.0	1935.0	70.0	1.2	0.6		
2800	OTTA	2 S/F	2130.0	2130.9	2.0	8.6	2.9			
21	260	ONDR	44 NS	0758.0E		306.00	3.0			
	127	TORN	43 NS	0909.0	1107.2	208.0	1400.0	1.0		V=1
	200	HIRA	44 NS	2121.0E	0035.0	660.00	5.0	3.0		WR
	127	TORN	45 C	1056.1	1102.0	5.9	2400.0	1.00.0		
	127	TORN	45 C	1112.2	1113.2	2.5	50.0	30.0		
22	260	ONDR	44 NS	0754.0E		423.00	5.0			
	430	KRAK	8 S	0951.5	0951.5	.2	4.0			
	33	UPIC	46 C	1248.5	1250.4	6.5				
	29	UPIC	46 C	1248.5	1250.5	6.0				
	536	ONDR	40 F	1252.5	1308.0	21.0	20.0			
	430	KRAK	28 PRE	1254.0	1254.5	2.0	5.0	2.0		
	2800	OTTA	21 GRF	1255.0	1310.0	95.00	3.2			
	408	TRST	46 C	1256.8	1305.2	23.2		75.0		
	327	TRST	46 C	1258.0	1307.0	22.0		120.0		
	430	KRAK	46 C	1258.5	1301.5	23.0	32.0	6.0		
	430	KRAK		1258.5	1306.5		39.0			
	430	KRAK		1258.5	1308.5		35.0			
	237	TRST	45 C	1259.0	1313.0	19.0		35.0		
2800	OTTA	1 S	1259.5	1300.8	1.5	1.0	.5			
260	ONDR	46 C	1303.0	1306.0	11.0	22.0	11.0			
810	KRAK	2 S/F	1306.5	1308.0	3.0	6.0	2.0			
23	127	TORN	43 NS	1007.0	1201.6	126.0	10.0			V=1
24	260	ONDR	40 F	1010.8	1016.0	11.5	3.0			
	260	ONDR	40 F	1043.0	1045.0	3.5	2.0			
	260	ONDR	40 F	1131.5	1131.6	1.2	1.0			
25	245	LEAR	8 S	0159.3	0159.8	.7	5.0			
	536	ONDP	8 S	1012.8	1013.0	3.0	9.0			QL=6 ST=2 TYP=3
26	260	ONDR	43 NS	0903.0	0936.5	431.00	15.0			
	536	ONDR	46 C	0830.5	0839.5	11.0	44.0	36.0		
	536	ONDR	FB I	0841.5	0849.5	18.0	7.0			
	536	ONDR	46 C	0901.0		45.0		17.0		
	536	ONDR		0901.0	0920.5		12.0			
	536	ONDR		0901.0	0930.5		22.0			
	808	ONDR	40 F	0903.0	0903.1	.3				
	430	KRAK	42 SER	1010.0	1013.0	46.0	9.0			
	430	KRAK		1010.0	1030.0		11.0			
	430	KRAK		1010.0	1037.2		35.0			
	430	KRAK		1010.0	1052.0		29.0			
	430	KRAK		1010.0	1055.0		14.0			

# GOES 6 X-RAYS

FEBRUARY 1985

O1

Logarithmic Scale  
W/m<sup>2</sup>

O2

O3

-7

1-8A

0000 UT 0400 0800 1200 1600 2000 0000 0400 0800 1200 1600 2000 2400

O4

O5

O6

Logarithmic Scale  
W/m<sup>2</sup>

-7

1-8A

0000 UT 0400 0800 1200 1600 2000 0000 0400 0800 1200 1600 2000 2400

# GOES 6 X-RAYS

FEBRUARY 1985

09

08

07

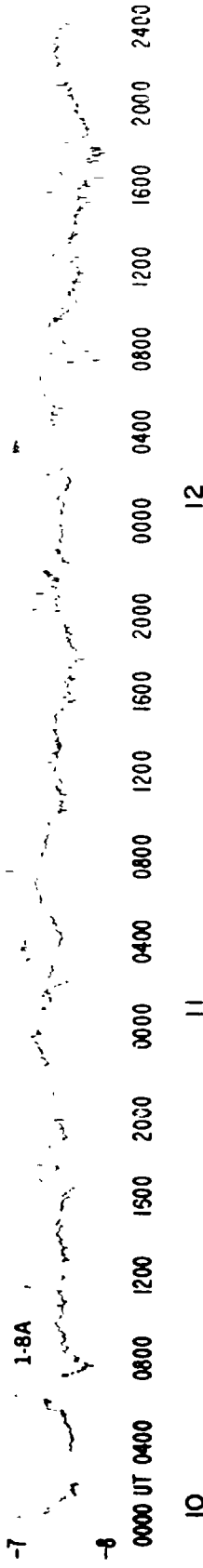
-3

-4

-5

-6

W/m<sup>2</sup>



10

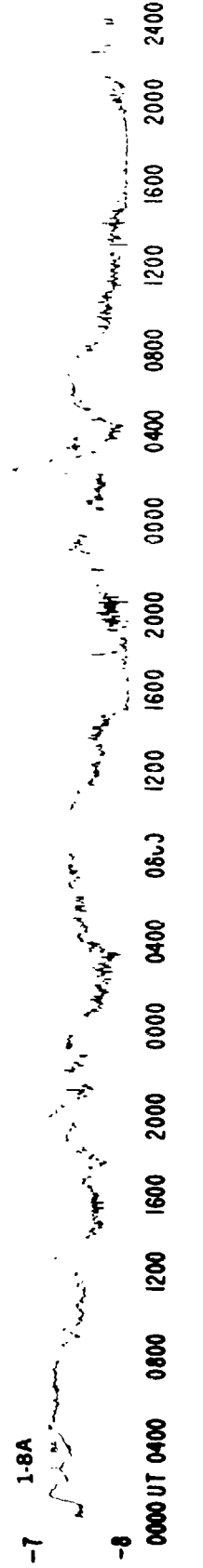
-3

-4

-5

-6

W/m<sup>2</sup>



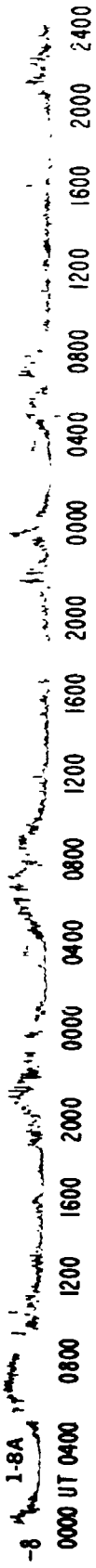
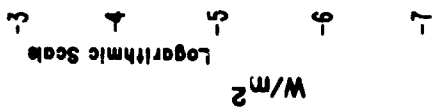
# GOES 6 X-RAYS

FEBRUARY 1985

15

14

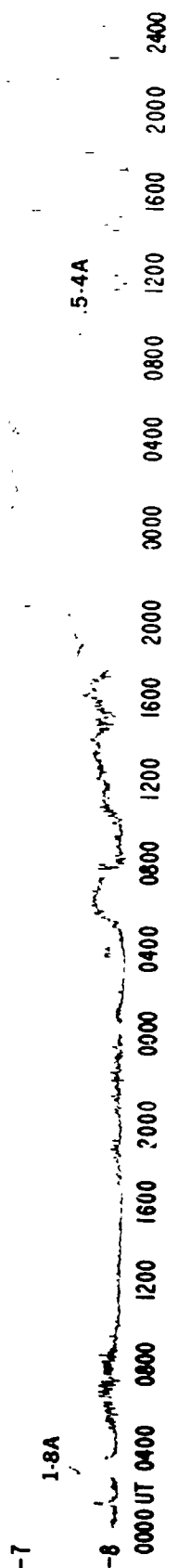
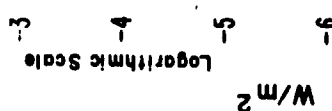
13



18

17

16



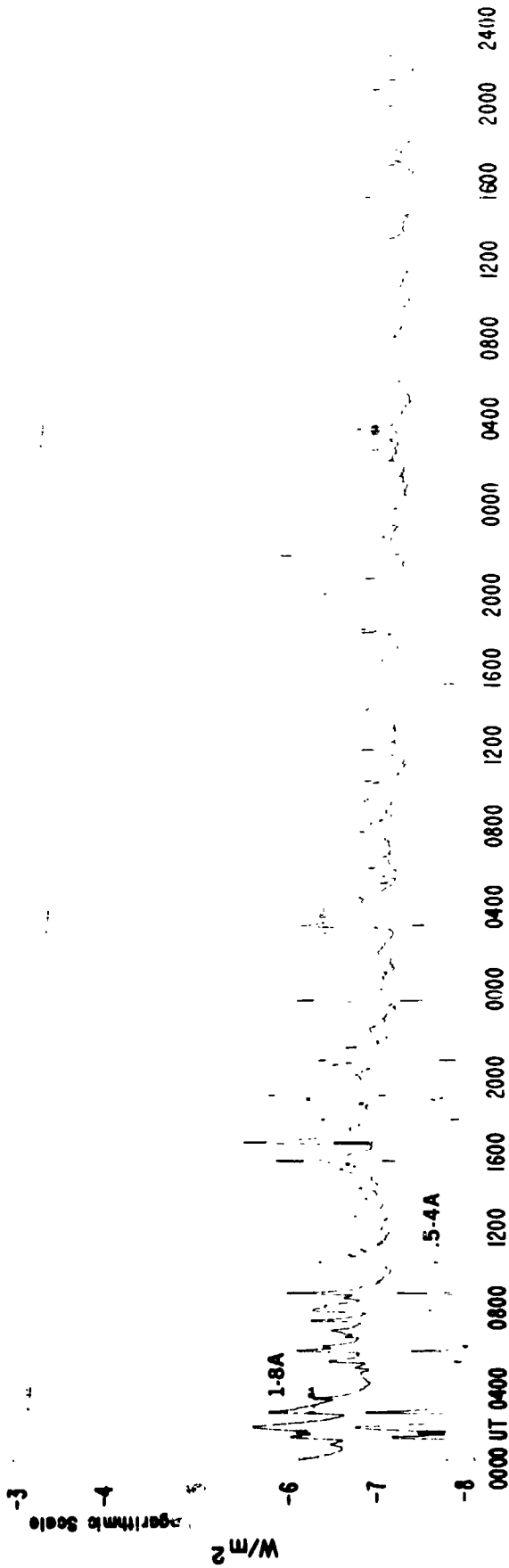
# GOES 6 X-RAYS

FEBRUARY 1985

21

20

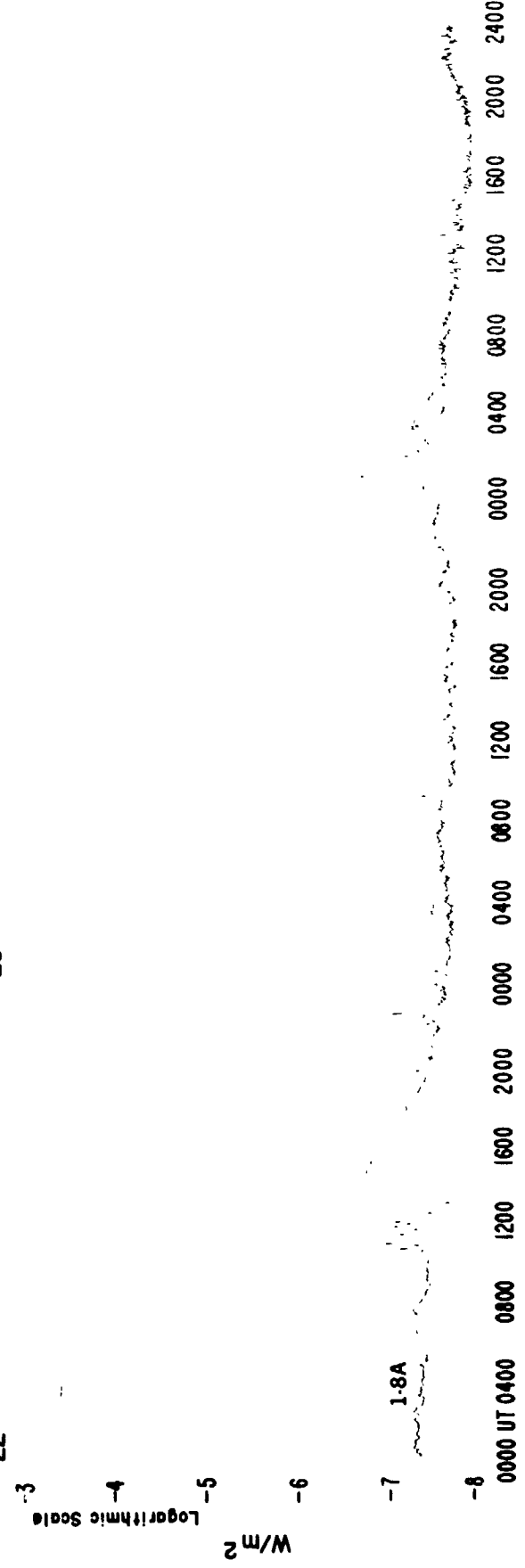
19



24

23

22



11  
Feb 85

12  
Feb 85

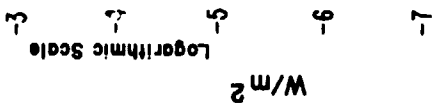
# GOES 6 X-RAYS

FEBRUARY 1985

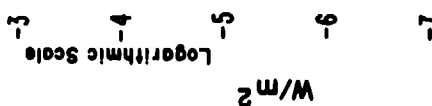
27

26

25



28





GOES SOLAR X-RAY FLARES

13  
Feb 85

February 1985

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF Region	Opt	Imp Xray	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF Region	Opt	Imp Xray
01	1113	1118	1120					B1.0	18	2220	2225	2230					B4.2
01	1201	1210	1212					B1.3	18	2315	2330	2343					C4.4
									18	2315	2331	2343					C4.5
03	0219	0225	0229			4620		B1.4	19	0101	0110	0117			4629		C1.0
03	0324	0336	0340					B2.1	19	0127	0140	0146			4629		C2.6
03	0420	0420	0443	S17	W30	4620	SN	C1.7	19	0218	0221	0228			4629		C2.7
03	1216	1221	1227					B2.7	19	0304	0308	0310			4629		B6.1
03	1542	1543	1601	N15	W38	4621	SF	B1.2	19	0454	0458	0508					B3.9
03	2128	2136	2144					B1.0	19	0526	0532	0537					B8.9
									19	0611	0614	0620					B2.5
05	0341	0343	0350	S07	E69	4623	SF	B1.5	19	0659	0704	0708					B6.5
05	1459	1502	1532	S07	E61	4623	SN	B1.9	19	0728	0736	0753					B6.0
									19	0823	0828	0831					C1.1
06	0053	0057	0059					B1.1	19	0954	1001	1031					B4.8
06	0144	0148	0150					B1.1	19	1217	1222	1231					B2.0
06	0720	0728	0734					B1.1	19	1503	1509	1512					C1.9
06	2349	2355	0000					B2.5	19	1607	1607	1617	N02	E83	4629	SN	C3.5
									19	1709	1717	1734	N02	E83	4629	SF	B4.7
07	0544	0611	0625					B1.3	19	1811	1818	1836	N02	E83	4629	SF	C2.0
07	1914	1917	1949	S09	E33	4623	18	C1.1	19	1954	2003	2007					B3.5
									19	2013	2013	2027D	N01	E83	4629	SN	B5.1
08	0655	0702	0707					B1.3	19	2051	2057	2125	N01	E80	4629	SF	B2.5
									19	2313	2319	2324					B8.8
09	0301	0305	0309					B1.4									
									20	0242	0247	0253	N03	E74	4629	SF	B7.5
11	0756	0820	0855					B4.4	20	1002	1005	1007					B1.3
									20	1135	1139	1142					B1.5
12	0151	0203	0221					B1.8	20	1452E	1456	1515	N01	E70	4629	SN	B3.9
									20	1733	1736	1740					B1.4
17	2000	2010	2015					B1.2	20	1927	1934	1944					B3.7
17	2148	2258	2312					B3.0	20	2018	2021	2023					B2.0
									20	2127	2132	2135					C1.2
18	0743	0806	0828					C2.3									
18	1140	1143	1145					C1.6	21	0324	0325	0334	N03	E63	4629	SF	B1.5
18	1357	1420	1430					B3.7	21	0720	0723	0725					B1.7
18	1449	1457	1509					C1.2									
18	1549	1600	1614					C1.4									
18	1743	1748	1758					B6.8	22	0004	0007	0009					B2.4
18	1958	2001	2004					B2.3	22	1029	1033	1035					B1.0
18	2015	2021	2034					B4.6	22	1044	1049	1055					B1.1
18	2113	2122	2137					B9.1	22	1240	1255	1313					B7.7
									24	0024	0047	0101					B1.8

14  
Feb 85

MASS EJECTIONS FROM THE SUN

FEBRUARY 1985

Sta	Day	Observed UT			Location		Freq or Wavelength	Kind of Event
		Start	Max	End	RA°	R/R <sub>0</sub>		
SCMR	Feb 17	2007.3		2015.1			Meter	II
SGMR	Feb 17	2024.0		2035.6			Meter	II
KHAR	Feb 22	1011 E	1015 U	1031 D	076	0.75	H-alpha	S
WEIS	Feb 22	1248.3		1258.0			40-160 MHz	II Harm/Herring

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  
SGMR = Sagamore Hill  
WEIS = Weissenau

TYPE OF EVENT

A = eruptive active region prominence  
CB = coronal cloud bubble  
D = coronal depletion  
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

## ACTIVE PROMINENCES AND FILAMENTS

15  
Feb 85

FEBRUARY 1985

Type	Day	Observed UT		Lat CMD	Imp	Type	Sta	Remarks
		Start	End					
SDF	Jan 31	1245E	1155D	N32 E10	3	C	CATA	
AFS	Feb 02	0615	1400	N16 W19		V	ATHN	
BSL	Feb 02	1045	1105	S57 W90	1-	C	CATA	
BSL	Feb 02	1210	1245D	S72 W90	1-	C	CATA	
APR	Feb 03	0029	0910	S11 E90	2	V	MANI	
ADF	Feb 03	0029	0910	N17 W28	1	V	MANI	
ADF	Feb 03	0029	0910	S14 W62	2	V	MANI	
APR	Feb 03	0600	1400	S14 E90		V	ATHN	
AFS	Feb 03	0845	1400	S14 W31		V	ATHN	
BSL	Feb 03	0920	0930	S85 W90	1-	C	CATA	
ASR	Feb 03	1011	1023	N03 W90		V	ATHN	
BSL	Feb 03	1240	1250D	S56 W90	1-	C	CATA	
APR	Feb 05	0930	1400	S19 W90		V	ATHN	
BSL	Feb 05	1040	1100	S27 W90	1-	C	CATA	
BSL	Feb 05	1230	1235	S86 W90	1-	C	CATA	
BSL	Feb 05	1235	1235D	S85 E90	1-	C	CATA	
AFS	Feb 06	0755	1340	S08 E50		V	ATHN	
ASR	Feb 06	1015	1050	N06 W90		V	ATHN	
BSL	Feb 07	0845	1005D	N16 W90	1-	C	CATA	
BSL	Feb 07	1000E	1005D	N12 W90	1	C	CATA	
BSL	Feb 07	1015E	1020	N12 W90	1	C	CATA	
BSL	Feb 07	1015E	1055	N16 W90	1-	C	CATA	
BSL	Feb 07	1130	1150	N16 W90	1-	C	CATA	
ASR	Feb 07	1210	1400	N16 W90		V	ATHN	
BSL	Feb 07	1225	1240	N16 W90	1-	C	CATA	
ASR	Feb 07	1335	1400	S10 E90		V	ATHN	
ADF	Feb 08	0028	0102	S11 E25	2	V	MANI	
BSL	Feb 08	0800	0810	S10 W90	1-	C	CATA	
BSL	Feb 08	0915	0930D	S13 E90	1-	C	CATA	
BSL	Feb 08	0955E	1040	S13 E90	1	C	CATA	
BSL	Feb 08	1010	1025	S10 E90	1	C	CATA	
BSL	Feb 08	1155	1215D	S13 E90	1-	C	CATA	
AFS	Feb 09	0700	1400	N11 W07		V	ATHN	
ADF	Feb 09	0700	1400	S11 E76		V	ATHN	
ADF	Feb 09	0700	1400	N02 W03		V	ATHN	
APR	Feb 10	1120	1400	S20 W90		V	ATHN	
AFS	Feb 10	1130	1400	S10 W24		V	ATHN	
ADF	Feb 11	1140	1400	S15 E45		V	ATHN	
BSL	Feb 15	1015	1030D	S09 W90	1-	C	CATA	
BSL	Feb 15	1050E	1155D	S09 W90	1-	C	CATA	
ADF	Feb 15	1130	1400	S20 E18		V	ATHN	
BSL	Feb 15	1220E	1245D	S09 W90	1	C	CATA	
ADF	Feb 16	0720	1205	S23 W08		V	ATHN	
BSL	Feb 16	0730E	0735D	N12 W90	1-	C	CATA	
BSL	Feb 16	0730E	0740D	N75 W90	1-	C	CATA	
BSL	Feb 16	0855	0910	S25 W90	1-	C	CATA	
BSL	Feb 16	1005E	1005D	N15 W90	1-	C	CATA	
BSL	Feb 16	1020E	1030	N15 W90	1	C	CATA	
BSL	Feb 16	1105E	1115D	N12 E90	1-	C	CATA	
BSL	Feb 17	1035E	1045D	S05 W90	1-	C	CATA	
BSL	Feb 17	1035E	1105D	S12 W90	1-	C	CATA	
APR	Feb 21	0705	1400	N11 E90		V	ATHN	
ADF	Feb 21	0830	1400	N03 E58		V	ATHN	
APR	Feb 21	1040	1400	S22 W90		V	ATHN	

16  
Feb 85

ACTIVE PROMINENCES AND FILAMENTS

FEBRUARY 1985

Type	Day	Observed UT Start End	Lat CMD	Imp	Type	Sta	Remarks
BSL	Feb 24	0935 0955	N26 W90	1-	C	CATA	
BSL	Feb 25	1015 1020D	S12 W90	1-	C	CATA	
BSL	Feb 25	1030F 1040	S09 W90	1-	C	CATA	
BSL	Feb 25	1030E 1045	S13 W90	1-	C	CATA	
ADF	Feb 26	0940 1400	N04 W04		V	ATHN	
ADF	Feb 26	1130 1400	S45 E05		V	ATHN	
DSD	Feb 26	1155 1310	N03 W10		V	ATHN	
BSL	Feb 27	1225 1230	S81 W90	1-	C	CATA	

BSL = Bright surge at limb.  
ADF = Active dark filament.  
AFS = Active filament system.  
APR = Active prominence region at limb.

ASF = Active surge region.  
DSD = Dark surge on disk.  
EPL = Eruptive prominence at limb.  
SDF = Sudden disappearance of filament.

ATHN = Athens  
BUCA = Bucharest

CATA = Catania  
CULG = Culgoora

KODA = Kodalkanal  
MANI = Manila

WEND = Wendelstein

For more detail and information about Remarks, see SGD Supplement.

C O N T E N T S

Comprehensive Reports DATA FOR AUGUST - SEPTEMBER 1983 Number 492 Part II

	Page
SOLAR FLARES August 1983	
H-alpha Flares (Preliminary Data) . . . . .	18 - 39
Daily Flare Indices (not available at time of publication.)	
Intervals of no flare patrol observation . . . . .	40
SOLAR FLARES September 1983	
H-alpha Flares (Preliminary Data) . . . . .	41 - 54
Daily Flare Indices (not available at time of publication.)	
Intervals of no flare patrol observation . . . . .	55
NUMBER OF FLARES August 1966 - September 1983 . . . . .	56

18  
Aug 83

H - ALPHA SOLAR FLARES

AUGUST 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)	
0001	VORO	01	0000E	0000U	0006	S12	E35	4267A	08	3.6	60	SN			C	0000	23	.3	DIJ
0002	LEAR	01	0033	0035	0050	S07	E18	4263	08	2.4	17	SF		2	C		40		
0003	LEAR	01	0116	0117	0136	S07	E28	4263	08	3.1	20	SF		3	C		80		
0004	LEAR	01	0128	0129	0134	S14	W64	4264	07	27.3	6	SF		3	C		13		
0005		01	0202*	02345	0244	S07	E18	4263	08	2.4	42	SN	C 1.3				92	.6	EIJ
	LEAR	01	0202	0234	0251	S06	E18	4263	06	2.4	49	SN	C 1.3	3	C		157		
	VORO	01	0231	0234U	0241	S06	E19	4263	08	2.5	10	SN	C 1.3		C	0234	81	.9	EIJ
	PALE	01	0231	0235	0240	S06	E18	4263	08	2.4	9	SN	C 1.3	3	C		88		
	PURP	01	0239E	0239	0239D	S09	E18	4263	08	2.5	9D	SB	C 1.3		V	0239	40	.4	E
0006		01	0246*	0259*	0418	S10	E33	4263	08	3.6	92	2N	M 8.5				572	6.3	BEFIJKSU
	CULG	01	0246	0324	0410D	S09	E33	4263	08	3.6	84D	2B			P	0324	70	8.4	SEFU
	VORO	01	0255		0311D	S08	E35	4263	08	3.7	16D	SF			C	0258	23	.3	EIJ
	PALE	01	0255	0259	0309	S08	E35	4263	08	3.7	14	SF		3	C		30		
	LEAR	01	0256	0329	0507	S08	E34	4263	08	3.7	131	2B	M 8.5	3	C		788		ZU
	TACH	01	0314	0345	0452	S10	E34	4263	08	3.7	98	2N			C	0345	972	12.3	IJ
	PURP	01	0314	0404	0511D	S10	E34	4263	08	3.7	117D	2B			C	0404	550	7.2	
	PALE	01	0317	0327	0423D	S11	E32	4263	08	3.5	66D	2B	M 8.5	3	C		641		K
	PALE	01	0317	0332	0423D	S11	E32	4263	08	3.5	66D	2B	M 8.5	3	C		768		UEK
	PEKG	01	0330E	0330	0405	S10	E33	4263	08	3.6	35D	2B	M 8.5		P	0330	484	6.2	U
	ABST	01	0441E	0441	0506D	S10	E34	4263	08	3.7	25D	1N			P	0441	262	3.4	FB
0007		01	02521	0323	0344	S14	E38	4267A	08	4.0	52	SF					92	1.2	EIJ
	VORO	01	0252		0311D	S14	E38	4267A	08	4.0	19D	SF			C	0256	90	1.2	EIJ
	LEAR	01	0253	0323	0344	S15	E39	4267A	08	4.1	51	SF		3	C		93		
0008	PURP	01	0416	0419	0428	S09	E17	4263	08	2.4	12	SB			C	0419	40	.4	E
0009	ABST	01	0441E	0441	0506D	S09	E24	4263	08	3.0	25D	SF			P	0441	131	1.5	BE
0010	PURP	01	0548E	0548	0550	S09	E17	4263	08	2.5	2D	SN			P	0548	40	.4	E
0011		01	0658	06582	0703	S06	E15	4263	08	2.4	5	SN					86	.9	D
	CATA	01	0650E	0700	0700D	S06	F16	4263	08	2.5	10D	S		2	P	0700	84	.9	
	KANZ	01	0658	0658	0703	S06	E15	4263	08	2.4	5	SF		2					
	ABST	01	0659E	0700	0707D	S07	E15	4263	08	2.4	8D	SN			P	0700	87	.9	D
0012		01	0854	08547	0912	S06	E14	4263	08	2.4	18	SF					66	.8	DH
	LEAR	01	0854	0854	0901D	S06	E13	4263	08	2.3	7D	SF		3	C		52		
	KANZ	01	0854	0854	0918	S06	E14	4263	08	2.4	24	SF		2					
	CATA	01	0855E	0855	0905	S06	E14	4263	08	2.4	10D	S		2	P	0855	56	.6	
	KHAR	01	0855E	0901	0921D	S06	E14	4263	08	2.4	26D	SN			P	0901	90	.9	DH
0013	KHAR	01	0910E	0911	0923D	S07	E25	4263	08	3.2	13D	SF			P	0911	140	1.6	E
0014	KHAR	01	0931E	0939	1001D	S24	E33	4267	08	3.9	30D	SF			P	0939	50	.7	D
0015		01	1024	10242	1034	S06	E14	4263	08	2.5	10	SF							D
	KHAR	01	1019E	1026	1032D	S06	E14	4263	08	2.5	13D	SF			P	1026			D
	KANZ	01	1024	1024	1034	S06	E13	4263	08	2.4	10	SF		2					
0016	KANZ	01	1133	1133	1138	S06	E13	4263	08	2.4	5	SF							
0017		01	12248	12293	1244	S06	E13	4263	08	2.5	20	SN	C 4.2				58	.6	EH
	ATHN	01	1224	1230	1249	S07	E15	4263	08	2.6	25	SB	C 4.2	2	V	1230	95	1.0	
	KAND	01	1229	1229	1239	S06	E12	4263	08	2.4	10	SF	C 4.2		C		21	.2	E
	KANZ	01	1232	1232	1241D	S05	E11	4263	08	2.3	9D	SB	C 4.2	2					H
0018		01	12392	12392	1243	S12	E24	4263	08	3.3	4	SN					42	.5	E
	KAND	01	1239	1239	1243	S11	E24	4263	08	3.3	4	SN			C		42	.5	E
	KANZ	01	1241	1241	1241D	S13	E24	4263	08	3.3	4D	SF		2					
0019		01	1604	1612*	1705	N14	W60	4269	07	28.2	61	SF					37		FK
	HOLL	01	1604	1612	1705	N14	W60	4269	07	28.2	61	SF		3	C		41		K
	HOLL	01	1604	1625	1705	N14	W60	4269	07	28.2	61	SF		3	C		33		FK

H - ALPHA SOLAR FLARES

19  
Aug 83

AUGUST 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
0020	HOLL	01	1741	1745U	1747	N06	E91	4272B	08	8.5	6	SF	3	C		9			
0021	HOLL	01	1748	1748	1756	S10	E21	4263	08	3.3	8	SN	3	C		52		F	
0022	PALE	01	1809	1809	1816	N13	W61	4269	07	28.2	7	SF	3	C		21			
0023		01	1937	1955	2022	S16	E25	4267A	08	3.7	45	SN	C 1.0			57		F	
	HOLL	01	1937	1955	2022	S16	E25	4267A	08	3.7	45	SN	C 1.0	3	C		75		F
	PALE	01	1953E	1954U	2012D	S16	E25	4267A	08	3.7	19D	SN	C 1.0	3	C		39		F
0024		01	1955	1957	2010	S06	E08	4263	08	2.4	15	SF				39			
	HOLL	01	1955	1957	2012	S05	E07	4263	08	2.3	17	SF		3	C		50		
	PALE	01	1956E	1957U	2008	S06	E08	4263	08	2.4	12D	SF		3	C		28		
		01	2039		2049	No Flare Patrol													
		01	2126		2148	No Flare Patrol													
		01	2153		2209	No Flare Patrol													
		01	2305		2314	No Flare Patrol													
0025	PALE	01	2339E	2343U	2359	S06	E06	4263	08	2.4	20D	SN	C 2.4	3	C		67		F
		02	0006		0016	No Flare Patrol													
0026	PALE	02	0037	0039	0047	N12	W64	4269	07	28.3	10	SF		3	C		34		
0027	LEAR	02	0652	0652	0714	N13	W67	4269	07	28.3	22	SF		3	C		20		
0028		02	0808	0740*	0827	S06	E01	4263	08	2.4	19	SN					102	1.1	ET
	CATA	02	0735E	0740	0830	S06	E01	4263	08	2.4	55D	S	2	P	0740		140	1.5	T
	KAND	02	0809	0814	0820	S05	E02	4263	08	2.5	12	SN		C			96	1.0	E
	PURP	02	0813E	0814	0830	S07	E01	4263	08	2.4	17D	SN		P	0814		70	.7	E
0029		02	08255	0830*	0843	S18	E17	4267	08	3.6	18	SF					79	1.0	D
	KAND	02	0825	0831	0843	S17	E17	4267	08	3.6	18	SF		C			58	.7	D
	TACH	02	0829E	0831	0838D	S18	E18	4267	08	3.7	9D	SB		C	0831		159	1.9	D
	CATA	02	0830	0830	0840	S18	E17	4267	08	3.6	10	S	2	C	0830		84	1.0	
	LEAR	02	0830	0835	0847	S18	E17	4267	08	3.6	17	SF		3	C		46		
	KANZ	02	0831E	0831U	0843D	S18	E17	4267	08	3.6	12D	SF		2					
	PURP	02	0843E	0844	0844D	S18	E17	4267	08	3.6	1D	SF		P	0844		49	.6	
0030	TACH	02	0901E	0909	0915D	S08	E26	4271	08	4.3	14D	SB		C	0909		141	1.7	D
0031	KAND	02	0945	0952	1010	S05	E02	4263	08	2.5	25	SF		C			58	.6	E
0032	TACH	02	1102E	1102	1112D	S05	E02	4268	08	2.6	10D	S9		C	1102		168	1.8	E
0033	KAND	02	1154	1158	1202	S12	E12	4263	08	3.4	8	SN		C					D
0034	HTPR	02	1619	1622	1630	S11	E26	4271	08	4.6	11	SN		C	1622		60	.7	E
0035		02	1702	1704	1723	S06	W04	4263	08	2.4	21	SN	C 1.9				76		F
	PALE	02	1702	1704	1718	S06	W03	4263	08	2.5	16	SF	C 1.9	3	C		38		F
	HOLL	02	1702E	1704U	1728	S06	W04	4263	08	2.4	26D	SN	C 1.9	2	C		113		F
0036	PALE	02	1832	1832	1841	S07	W04	4263	08	2.5	9	SF	C 1.1	3	C		37		F
0037	PALE	02	1854	1900	1908	S06	W05	4263	08	2.4	14	SN	C 2.7	3	C		90		F
		02	1917		1946	No Flare Patrol													
		02	1954		2017	No Flare Patrol													
		02	2027		2130	No Flare Patrol													
0038		02	2149	21501	2152	S04	W02	4268	08	2.7	3	SN					26	.3	
	CULG	02	2149	2150	2152	S05	W02	4268	08	2.7	3	SF		C	2150		30	.3	
	HOLL	02	2149	2151	2153	S04	W02	4268	08	2.7	4	SN		3	C		22		
0039	CULG	02	2324	2326	2331	N09	W71	4269	07	28.7	7	SF		C	2326		50		

20  
Aug 83

H - ALPHA SOLAR FLARES

AUGUST 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOA / USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	See	Obs Type	Time (UT)	Area Measurement		Remarks		
						Lat	Cmd Region								Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)			
0040	CULG	02	2329	2347	2429	S06 W08	4263	08	2.4	60	1B M	1.2		2347	330	4.2	E		
	HOLL	02	2347E	2347U	2402D	S06 W08	4263	08	2.4	60	1B M	1.2	4		C	420	4.2	E	
0041		03	0648	0654*	0705	S06 W12	4263	08	2.4	17	SN C	1.8			119	1.3	EFU		
	MITK	03	0648	0655	0708D	S07 W12	4263	08	2.4	20D	SN C	1.8	C	0655			E		
	CULG	03	0649	0654	0701	S07 W12	4263	08	2.4	12	SB C	1.8	C	0654	110	1.1	F		
	CATA	03	0650	0655	0700	S06 W12	4263	08	2.4	10	S C	1.8	2	C	0655	140	1.5		
	BUCA	03	0650	0655	0710	S06 W11	4263	08	2.5	20	SF C	1.8	C	0710	107	1.2			
	ISTA	03	0655		0709	S06 W12	4263	08	2.4	14	1N C	1.8						U	
0042		03	0704	0706	0706	S21 W50	4262	07	30.6	2	SN							D	
	ISTA	03	0704		0706	S21 W50	4262	07	30.6	2	SN							D	
	BUCA	03	0704	0706		S21 W50	4262	07	30.6		SN							D	
0043	LEAR	03	0748	0756	0808	S06 W11	4263	08	2.5	20	SN				101			F	
0044		03	0800	0800	0813	S22 W54	4262	07	30.3	13	SN				18			D	
	LEAR	03	0800	0800	0813	S22 W52	4262	07	30.4	13	SN			3	C	18			D
	KHAR	03	0809E		0819D	S22 W55	4262	07	30.2	10D	SF				0809			D	
0045	KAND	03	0902	0904	0910	S14 W10	4263	08	2.6	8	SN				29	.3		D	
0046	PURP	03	0907E	0911	0914	S07 W09	4263	08	2.7	7D	SN			P	0911	13	.1	E	
0047		03	10053	10091	101*	S07 W11	4263	08	2.6	10	SN				54	.6		DH	
	KHAR	03	0952E		1000D	S05 W11	4263	08	2.6	8D	SF			V	0952			DH	
	HTPR	03	1005	1010	1015	S06 W12	4263	08	2.5	10	SF			C	1010	40	.4		
	CATA	03	1005	1010	1015	S06 W11	4263	08	2.6	10	S			2	C	1010	84	.9	
	KHAR	03	1000	1009	1015D	S05 W11	4263	08	2.6	7D	SN			P	1011				DH
	KAND	03	100E	1010	1016	S14 W10	4263	08	2.7	8	SN			C		37	.4	D	
0048		03	10231	10281	1040	S08 E06	4268	08	3.9	17	SN				80	.8		DE	
	HTPR	03	1023	1029	1047	S08 E05	4268	08	3.8	24	SF			C	1029	80	.8	E	
	KAND	03	1024	1028	1032	S08 E06	4268	08	3.9	8	SN			C				U	
0049		03	10363	10401	1048	S05 W11	4263	08	2.6	12	SN				40	.4		D	
	HTPR	03	1036	1040	1050	S06 W12	4263	08	2.5	14	SF			C	1040	40	.4		
	KHAR	03	1039E		1048D	S05 W11	4263	08	2.6	9D	SF			V	1039			D	
	KAND	03	1039	1041	1045	S05 W10	4263	08	2.7	6	SB			C					
0050		03	1055*	11019	1112	S05 W11	4263	08	2.6	17	SF				48	.5		D	
	CATA	03	1055	1105	1115	S05 W12	4263	08	2.5	20	S			2	C	1105	56	.6	
	KAND	03	1057	1101	1103	S05 W10	4263	08	2.7	6	SF			C				D	
	HTPR	03	1100	1110	1115	S06 W12	4263	08	2.6	15	SF			C	1110	40	.4		
	KAND	03	1107	1109	1113	S05 W10	4263	08	2.7	6	SN			C				D	
0051	HTPR	03	1138	1140	1143	S23 W55	4262	07	30.3	5	SF			C	1140	40	.7	E	
0052	HTPR	03	1205	1213	1218	S08 W08	4263	08	2.9	13	SF			C	1213	120	1.2	E	
0053	HTPR	03	1420	1422	1433	S06 W14	4263	08	2.5	13	SB C	3.1		C	1422	60	.6		
0054	HTPR	03	1445		1630D	S16 W07	4273B	08	3.5	105D	2B			C	1505	800	8.0	EIT	
0055	RAMY	03	1500E	1503	1712	S11 W05	4263	08	3.2	132D	1B			3	C	471			FZ
0056	RAMY	03	1500E	1503	1618	S23 E03	4267	08	3.8	78D	2B			3	C	572			EF
0057	HTPR	03	1514	1515	1519	S05 W13	4268	08	2.7	5	SN			C	1515	30	.3		
		03	1756		1902	No Flare Patrol													
		03	1936		2104	No Flare Patrol													
0058	HOLL	03	2112	2225	2246	S21 W60	4262	07	30.4	94	SF				22				
0059	HOLL	03	2127	2131	2151	S06 W20	4263	08	2.4	24	SB C	4.0	3	C	198			E	



H - ALPHA SOLAR FLARES

21  
Aug 83

AUGUST 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)	
0060		03	22043	2208	2212	S06	W14	4263	08	2.9	8	SN	C	1.0			47	.6	EFJ
	VORO	03	2204	2208U	2212	S07	W13	4263	08	2.9	8	SN	C	1.0	C	2208	72	.8	EJ
	CULG	03	2207E	2208	2211	S07	W15	4263	08	2.8	4D	SF	C	1.0	P	2208	40	.4	F
	HOLL	03	2207	2208	2212	S05	W14	4263	08	2.9	5	SN	C	1.0	3 C		29		
0061	LEAR	04	0224	0231	0242	S12	W07	4267B	08	3.6	18	SN	C	1.1	3 C		33		F
0062	LEAR	04	0240	0242	0248	S22	W61	4262	07	30.5	8	SF			3 C		37		
0063		04	03257	03376	0408	S07	W24	4263	08	2.3	43	1B	M	3.5			324	5.0	EHK
	TACH	04	0325	0343	0414	S07	W24	4263	08	2.3	2	2B	M	3.5	C	0343	451	5.3	E
	LEAR	04	0332	0337	0408	S07	W24	4263	08	2.3	36	SN	M	3.5	3 C		44		K
	LEAR	04	0332	0342	0408	S07	W24	4263	08	2.3	36	1B	M	3.5	3 C		381		HK
0064		04	05231	05262	0536	S24	W65	4262	07	30.3	13	1N	C	1.8			120	3.0	DFJ
	CULG	04	0523	0528	0534	S25	W64	4262	07	30.4	11	1N	C	1.8		0528	110	3.0	J
	LEAR	04	0524	0526	0537	S23	W64	4262	07	30.4	13	SN	C	1.8	3 C		56		F
	TACH	04	0528E		0551D	S23	W68	4262	07	30.1	23D	1B	C	1.8	C	0529	194		D
0065		04	0600	0607	0607	S21	W63	4262	07	30.5	7	SN							D
	ISTA	04	0600		0607	S21	W63	4262	07	30.5	7	SN							D
	BUCA	04	0600	0607		S21	W63	4262	07	30.5		SN							D
0066		04	06328	06355	0647	S06	W25	4263	08	2.4	15	SN					68	.8	DE
	HTPR	04	0632	0640	0700	S07	W24	4263	08	2.5	28	SN			C	0640	80	.9	E
	CATA	04	0635	0635	0640	S06	W26	4263	08	2.3	5	S			2 C	0635	56	.7	
	KAND	04	0640	0640	0642	S06	W24	4263	08	2.5	2	SF			C				D
0067	KHAR	04	0805E	0807	0817D	S07	W10	4268	08	3.6	12D	SF			V	0805			H
0068		04	0840*	0849*	1035	S07	W17	4263	08	3.1	115	1N					239	2.9	EIK
	HTPR	04	0840		1005D	S08	W27	4263	08	2.3	85D	1B			C	0920	400	5.0	EI
	KAND	04	0842	0915	1006	S06	W13	4263	08	3.4	84	SN			C		52	.6	E
	KHAR	04	0844	0851	1012D	S06	W16	4263	08	3.2	88D	1N			P	0926	250	2.7	E
	MONT	04	0844	0907	0947D	S09	W16	4263	08	3.2	63D	1N			C	0907	250		
	KANZ	04	0845	0849	0933	S06	W15	4263	08	3.2	48	SN			1				
	CATA	04	0845	0915	0945D	S07	W14	4263	08	3.3	60D	1			1 C	0915	253	2.8	
	PURP	04	0850E	0904	0904D	S08	W17	4263	08	3.1	14D	SN			C	0904	69	.8	
	CATA	04	0850	0915	0945D	S06	W21	4263	08	2.8	55D	1			1 C	0915	225	2.5	
	KAND	04	0856	0929	1031	S06	W19	4263	08	2.9	95	SN			C		129	1.4	
	KANZ	04	0857	0907	0949D	S06	W18	4263	08	3.0	52D	SF			1				
	KANZ	04	0857	0907	0949D	S07	W13	4263	08	3.4	52D	SB			1				
	TACH	04	0907E		1020D	S05	W19	4263	08	2.9	73D	2N			C	0909	672	7.6	E
	CATA	04	0935	0940	0945D	S12	W19	4263	08	3.0	10D	S			1 P	0940	84	1.0	
	KAND	04	0942	0950	0954	S13	W16	4263	08	3.2	12	SN			C				
	HTPR	04	1008E		1200	S07	W15	4263	08	3.3	112D	1N			C	1010	450	4.5	EIK
RAMY	04	1056	1120	1125	S07	W19	4263	08	3.0	29	SF			3 C		21			
0069		04	1145*	12071	1235	S22	W68	4262	07	30.4	50	SF					21	.7	
	HTPR	04	1145	1208	1256	S22	W67	4262	07	30.4	71	SF			C	1208	30	.7	
	RAMY	04	1207	1207	1214	S22	W69	4262	07	30.3	7	SF			3 C		12		
0070	HTPR	04	1323	1423	1500	S22	W68	4262	07	30.4	97	SF			C	1423	20	.4	
0071	HOLL	04	1345	1345	1355	N05	E42	4272	08	7.7	10	SF			3 C		25		
0072	HTPR	04	1533	1534	1546	S11	W19	4263	08	3.2	13	SF			C	1534	30	.3	E
0073		04	15401	1543	1558	S12	W14	4267B	08	3.6	18	SF					25	.2	E
	HTPR	04	1540	1543	1555	S12	W16	4267B	08	3.4	15	SF			C	1543	20	.2	
	HTPR	04	1541	1543	1601	S13	W12	4267B	08	3.7	20	SF			C	1543	30	.3	E
0074	HTPR	04	1549	1551	1554	S18	E28	4274	08	6.8	5	SF			C	1551	10	.1	
0075	HTPR	04	1557	1610	1620	S22	W68	4262	07	30.5	23	SF			C	1610	20	.4	
0076		04	1610*	1620*	1644	S08	W28	4263	08	2.6	34	SF					26	.2	E
	HTPR	04	1610	1620	1640	S07	W30	4263	08	2.4	30	SF			C	1620	20	.2	
	HTPR	04	1631		1701D	S07	W28	4263	08	2.6	30D	SF			C	1638	30	.3	E
	RAMY	04	1638	1640	1648	S09	W27	4263	08	2.7	10	SF			3 C		29		

22  
Aug 83

H - ALPHA SOLAR FLARES

AUGUST 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)	
0077	RAMY	04	1856	1858	1903	S24	W72	4262	07	30.3	7	SF		3	C		25		
0078		04	19243	1946	2043	S08	W15	4263	08	3.7	79	SF					108		F
	RAMY	04	1924	1946	2043	S09	W15	4263	08	3.7	79	SF		3	C		147		
	PALE	04	1927	1945U	1950D	S08	W15	4263	08	3.7	23L	SF		3	C		69		F
0079	RAMY	04	1954	1955	2006	S24	W73	4262	07	30.3	12	SN C	2.0	3	C		29		
0080	RAMY	04	2146	2201	2207D	S12	W22	4263	08	3.2	21D	SF		3	C		54		
0081		04	22475	2249	2253	S10	W32	4263	08	2.5	9	SN C	1.9				48	.6	EJ
	CULG	04	2247	2249	2253	S10	W32	4263	08	2.5	6	SF C	1.9		C	2249	50	.6	
	VORO	04	2252	2254U	2258	S09	W31	4263	08	2.6	6	SN C	1.9		C	2254	45	.6	EJ
0082		05	03361	03381	0352	S09	W33	4263	08	2.7	16	SN C	1.7				92	1.4	EF
	MITK	05	0336	0338	0357	S10	W33	4263	08	2.7	21	SN C	1.7		J	0338			E
	LEAR	05	0337	0338	0352	S09	W33	4263	08	2.7	.5	SB C	1.7	3	C		78		FF
	TACH	05	0337	0339	0347	S08	W34	4263	08	2.6	10	SN C	1.7		C	0339	106	1.4	E
0083	HTPR	05	0832	0833	0839	S08	W23	4263	08	3.6	7	SF			C	0833	60	.7	E
0084		05	1130	11351	1145	S08	W38	4263	08	2.6	15	SN					48	.6	E
	CATA	05	1130	1135	1140	S07	W38	4263	08	2.6	10	S		1	C	1135	56	.8	
	HTPR	05	1130	1136	1150	S08	W38	4263	08	2.6	20	SN			C	1136	40	.5	E
0085	RAMY	05	1203	1207	1220	S11	W24	4263	08	3.7	17	SF		3	C		61		
0086		05	12432	12505	1356	S09	W24	4263	08	3.7	73	1B M	1.0				343	4.2	EFIU
	ATHN	05	1243	1252	1339	S09	W21	4263	08	3.9	56	1B M	1.0	3	V	1252	414	4.7	
	RAMY	05	1244	1250	1258D	S10	W23	4263	08	3.8	14D	2B M	1.0	3	C		509		FE
	HTPR	05	1245	1255	1415	S10	W26	4263	08	3.6	90	1B M	1.0		C	1255	350	3.8	EI
	HOLL	05	1317E	1317U	1355	S07	W25	4263	08	3.7	38D	SB		1	C		100		U
0087		05	12473	1254	1336	S11	W18	4271	08	4.2	49	SB M	1.0				50	.4	
	HTPR	05	1247	1254	1317	S11	W19	4271	08	4.1	30	SN M	1.0		C	1254	40	.4	
	RAMY	05	1250	1254	1355	S11	W18	4271	08	4.2	65	SB M	1.0	3	C		60		
0088	HTPR	05	1253	1257	1310	S06	W34	4263	08	3.0	17	SN			C	1257	20	.2	
0090	HTPR	05	1324	1330	1341	S08	W36	4263	08	2.8	17	SF			C	1330	10	.1	
0091	HTPR	05	1619	1625	1630	S09	W31	4263	08	3.3	11	SF			C	1625	10	.1	
0092		06	01203	01255	0153	S11	W38	4263	08	3.2	33	SN C	1.3				83	1.1	EF
	MITK	06	0120	0130	0153D	S11	W40	4263	08	3.0	33D	SN C	1.3		C	0130			E
	LEAR	06	0121	0125	0153	S10	W37	4263	08	3.3	32	SB C	1.3	3	C		94		F
	CULG	06	0123	0125	0138U	S13	W40	4263	08	3.0	15U	SN C	1.3		P	0125	80	1.1	F
	HOLL	06	0127E	0127U	0139D	S09	W37	4263	08	3.3	12D	SN		1	C		75		F
0093	LEAR	06	0246	0251	0255	S22	W30	4267	08	3.8	9	SF		3	C		19		
0094	LEAR	06	0302	0314	0320	S22	W31	4267	08	3.7	18	SF		3	C		35		
0095	LEAR	06	0631	0636	0651	N05	E76	4277	08	11.9	20	SF C	1.0	3	C		15		
0096	HTPR	06	0636	0638	0640	S07	W52	4263	08	2.4	4	SF			C	0638	10	.2	
0097		06	06421	06444	0704	S14	W38	4263	08	3.4	22	SF					10	.1	
	HTPR	06	0642	0648	0702	S15	W38	4263	08	3.4	20	SF			C	0648	10	.1	
	HTPR	06	0643	0644	0707	S12	W37	4263	08	3.5	24	SF			C	0644	10	.1	
0098	KHAR	06	0747E		0750D	S08	W52	4263	08	2.4	3D	SN			V	0748			DH
0099	HTPR	06	0752	0800	0805	N04	E80	4277	08	12.3	13	SF			C	0800	20		
0100	KHAR	06	0819E	0819	0822D	S19	W38	4267	08	3.4	3D	SF			P	0819	25	.4	D
0101		06	0839	08421	0848	S08	W50	4263	08	2.6	9	SN C	1.3				50	.9	E
	HTPR	06	0839	0842	0848	S09	W50	4263	08	2.6	9	SN C	1.3		C	0842	60	.9	E
	LEAR	06	0839	0843	0849	S08	W49	4263	08	2.7	10	SF C	1.3	3	C		40		

H - ALPHA SOLAR FLARES

23  
Aug 83

AUGUST 1983

Grn #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		CMP Mo	Dur Day	Imp Opt	Xray	C	Obs See	Type	Time (UT)	Area Measurement		Remarks	
								Region	Class									Apparent (10 <sup>-6</sup> D <sub>10k</sub> )	Corr (Sq Deg)		
0102		06	09064	0908*	0923	S14	W38	4263	08	3.5	17	SN	C	1.9				53	.6	DK	
	MONT	06	0906	0908	0912	S14	W38	4263	08	3.5	6	SF	C	1.9	C		0908	50		D	
	LEAR	06	0908	0909	0933D	S14	W37	4263	08	3.6	25D	SB	C	1.9	3	C		67		K	
	HTPR	06	0908	0910	0921	S15	W39	4263	08	3.4	13	SB	C	1.9	C		0910	40	.5		
	LEAR	06	0908	0932	0933D	S14	W37	4263	08	3.6	25D	SN			3	C		52		K	
	CATA	06	0910	0915	0935	S13	W38	4263	08	3.5	25	S	C	1.9	1	C		0915	56	.8	
0103		06	0925	09359	1014	S13	W34	4271	08	3.8	49	1B						233	3.0	EHK	
	KHAR	06	0908E	0943	1018D	S14	W35	4271	08	3.7	70D	1B				P	0938	330	4.5	EHK	
	CATA	06	0925	0935	1000D	S12	W34	4271	08	3.8	35D	1			2	P	0935	169	2.2		
	HTPR	06	0925	0944	1014	S14	W34	4271	08	3.8	49	1B				C	0944	200	2.2	EH	
0104	RAMY	06	1149E	1155	1200	S09	W38	4263	08	3.6	11D	SF			3	C		148			
0105	RAMY	06	1210	1214	1225	S12	W39	4263	08	3.6	15	SF			3	C		59			
0106	RAMY	06	1409	1453	1453D	S10	W38	4263	08	3.7	44D	SF	C	1.2	3	C		280			
0107	HOLL	06	1432	1433	1446	N04	E72	4277	08	12.0	14	SF			3	C		7			
0108	HOLL	06	1457	1514	1529	S11	W45	4263	08	3.2	32	SF			3	C		38			
0109	HTPR	06	1511	1512	1516	S09	W38	4263	08	3.8	5	SF				C	1512	10	.1		
0110	HTPR	06	1512	1515	1522	S08	W57	4263	08	2.3	10	SF				C	1515	10	.2		
0111	HTPR	06	1529	1538	1547	S07	W50	4263	08	2.9	18	SF				C	1538	30	.5		
0112	HTPR	06	1620	1625	1635	S08	W58	4263	08	2.3	15	SF				C	1625	10	.2		
0113	HTPR	06	1621	1630	1643	S21	W40	4267	08	3.6	22	SF				C	1630	10	.1		
0114		06	16448	16466	1714	S14	W38	4271	08	3.8	30	SF						24	.3		
	HTPR	06	1644	1646	1723	S15	W39	4271	08	3.7	39	SF				C	1649	20	.3		
	HOLL	06	1652	1652	1704	S12	W38	4271	08	3.8	12	SF			3	C		28			
		06	1846		1907	No Flare Patrol															
0115	HOLL	06	1910E	1910U	1921D	S08	W51	4263	08	3.0	11D	SN			2	C		20		F	
		06	1922		2146	No Flare Patrol															
		06	2211		2216	No Flare Patrol															
		06	2255		2253	No Flare Patrol															
0116		07	0351*	0356*	0412	S08	W62	4263	08	2.5	21	SN	C	4.8				62	.8	EHLR	
	LEAR	07	0351	0356	0404	S07	W61	4263	08	2.6	13	SB	C	4.8	3	C		125		H	
	CULG	07	0358E	0358U	0402	S10	W62	4263	08	2.5	4D	SF	C	4.8		P	0358	30	.6		
	PEKG	07	0358	0401	0420	S06	W62	4263	08	2.5	22	SF	C	4.8		P	0401	42	.9	EHLR	
	LEAR	07	0410	0416	0423	S07	W61	4263	08	2.6	13	SN	C	1.5	3	C		52		H	
0117	LEAR	07	0424	0426	0432	S10	W53	4263	08	3.2	8	SN	C	1.6	3	C		43		F	
0118	ABST	07	0437	0438	0440	N05	E65	4277	08	12.0	3	1F				C	0438	87		DGK	
0119		07	06346	06364	0643	S08	W60	4263	08	2.8	9	1N						91	1.8	DEK	
	ABST	07	0634	0636	0640	S06	W64	4263	08	2.5	6	1N				C	0636	87		DK	
	ABST	07	0634	0637	0645	S11	W54	4263	08	3.2	11	1F				C	0637	131	2.4	EK	
	CATA	07	0640	0640	0645	S06	W63	4263	08	2.6	5	S			2	C	0640	56	1.3		
0120		07	0650	0655*	0704	S08	E90	4278	08	14.0	14	1N						76			
	CATA	07	0650E	0705	0710	S12	E90	4278	08	14.1	20	1			2	C	0705	56			
	ATHN	07	0653E	0655	0657	S05	E90	4278	08	14.0	4D	1N			4	V	0655	95			
0121		07	0750E	0753	0758	S05	E90	4278	08	14.0	8D	1N						95		BH	
	ATHN	07	0750E	0753	0758	S05	E90	4278	08	14.0	8D	1N			4	V	0753	95			
	KHAR	07	0800E		0810	S05	E90	4278	08	14.1	10D	1N				V	0800			BH	
0122	ATHN	07	0917E	0919	0925	S05	E90	4278	08	14.1	8D	1N	C	4.3	4	V	0919	95			

24  
Aug 83

H - ALPHA SOLAR FLARES

AUGUST 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
														Time (UT)	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)	
0123	KHAR	07	0925E		0945D	S07 W65	4263	08	2.5	20D	SF		P	0928	80		DH
		07	1136		1144	No Flare Patrol											
0124	RAMY	07	1304	1306	1336	S09 E81	4278	08	13.6	32	SN C 5.7	3	C		32		
0125	RAMY	07	1323	1325	1342	S09 W45	4271	08	4.2	19	SF		C		51		
0126		07	1352	1353	1410	S10 W58	4263	08	3.2	18	SN				30		
	RAMY	07	1352	1353	1402	S11 W59	4263	08	3.1	10	SF	3	C		29		
	HOLL	07	1354E	1354U	1417	S10 W58	4263	08	3.2	23D	SN	2	C		31		
0127	RAMY	07	1442	1449	1503	S08 W68	4263	08	2.5	21	SF C 1.8	3	C		54		
0128		07	2153	2201U	2229	S08 W58	4263	08	3.6	36	1N M 1.8				182		FU
	PALE	07	2153	2201U	2229	S09 W58	4263	08	3.5	36	1N M 1.8	3	C		161		UF
	HOLL	07	2203E	2203U	2213D	S07 W58	4263	08	3.6	10D	1N M 1.8	3	C		203		UF
0129	PALE	07	2208	2208	2234	S08 E76	4278	08	13.6	26	SF		C		14		
0130	LEAR	08	0103	0107	0138	S19 W59	4267	08	3.5	35	SF		C		68		F
0131		08	0310	0303*	0338	S07 E76	4278	08	13.8	28	1N M 3.0				131		EF
	PURP	08	0112E	0320U	0328D	S06 E80	4278	08	14.0	136D	1F		C	0320	55		
	CULG	08	0255E	0301U	0309D	S06 E80	4278	08	14.1	14D	1F		P	0301	60		F
	YUNN	08	0256E	0303	0328	S07 E75	4278	08	13.7	32D	1B M 3.0		P		154		E
	LEAR	08	0309E	0309U	0352	S07 E71	4278	08	13.4	43D	1B M 3.0	2	C		228		F
	TACH	08	0310	0313	0333	S08 E75	4278	08	13.7	23	1B M 3.0		C	0313	159		
0132	YUNN	08	0230	0231	0236	S07 W71	4263	08	2.8	6	SF		C		46		
0133		08	0414	04189	0506	S11 E75	4279	08	13.8	52	2B				220		FJ
	ABST	08	0414	0418	0506	S10 E75	4279	08	13.8	52	2N		C	0418	262		FJ
	TACH	08	0424E	0427	0521D	S12 E75	4279	08	13.8	57D	1B		C	0427	178		
0134	ABST	08	0414	0415	0425	S10 W65	4263	08	3.3	11	1N		C	0415	131		EV
0135		08	07182	07206	0747	S08 E76	4278	08	14.0	29	SN				15		E
	YUNN	08	0718	0726	0747	S07 E74	4278	08	13.8	29	SN		C		15		E
	KANZ	08	0720	0720	0832D	S08 E77	4278	08	14.1	72D	SN	1					
0136	LEAR	08	0720	0720	0724	S12 W61	4263B	08	3.7	4	SF C 4.2	3	C		18		
0137	KHAR	08	0823E	0825	0845D	S08 W78	4263	08	2.5	22D	SF		V	0824			D
0138	YUNN	08	0911E	0913	0931D	N05 E46	4277	08	11.8	20D	SN		P		46	.7	EG
0139	KHAR	08	1002E	1002	1009D	S17 W73	4267	08	2.9	7D	SF		P				
0140		08	11201	11201	1130	S08 W81	4263	08	2.4	10	SN C 1.9				40		
	CATA	08	1120	1120	1135D	S05 W85	4263	08	2.1	15D	1	2	C	1120	56		
	RAMY	08	1120	1121	1131	S08 W80	4263	08	2.5	11	SF C 1.9	3	C		24		
	KANZ	08	1121	1121	1130	S10 W79	4263	08	2.5	9	SN C 1.9	2					
0141	RAMY	08	1307	1311	1330	S13 W65	4263B	08	3.6	23	SF C 1.9	3	C		14		
0142	HOLL	08	2256	2300	2312D	S08 E69	4278	08	14.1	16D	SF		C		11		
0143		08	2349	2404*	2512	S05 E64	4278	08	13.8	83	SN C 2.8				110		K
	LEAR	08	2349	2404	2512	S07 E65	4278	08	13.9	83	SN	3	C		86		K
	LEAR	08	2349	2442	2512	S07 E65	4278	08	13.9	83	1N C 2.8	3	C		145		K
	HOLL	09	0030E	0042	0050D	S02 E63	4278	08	13.7	20D	SN C 2.8	3	C		100		
0144	LEAR	09	0149	0151	0157	S09 W71	4263	08	3.7	8	SF		C		29		
0145	LEAR	09	0345	0348	0352	S11 E63	4279	08	13.9	7	SN		C		42		F
0146	LEAR	09	0431	0432	0438	S10 E62	4279	08	13.8	7	SN C 1.8	3	C		74		

H - ALPHA SOLAR FLARES

25  
Aug 83

AUGUST 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	Mo	CMP Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
0147	ABST	09	0702E	0703	0713	S10	E65	4278A	08	14.2	11D	2F			P	0703	262		BE	
0148		09	0200	080A	0808	S09	W79	4263	08	3.4	8	SF					30			
	KANZ	09	0800	0804	0808	S08	W78	4263	08	3.5	8	SF		2						
	HTPR	09	0807E		0810D	S10	W80	4263	08	3.3	3D	SF			C	0807	30			
0149		09	0824Z	08311	0903	S07	E60	4278	08	13.8	39	SN	C 2.1				45		E	
	KANZ	09	0824	0832	0852	S07	E62	4278	08	14.0	28	SN	C 2.1	2					E	
	LEAR	09	0826	0831	0914	S07	E59	4278	08	13.8	48	SN	C 2.1	3	C		45			
0150	HTPR	09	0847E		0857D	S10	W60	4263B	08	4.8	10D	SN			C	0854	40	.8	E	
0151	CATA	09	0910E	0910	0910D	S12	E62	4279	08	14.0	10D	S		2	P	0910	56	1.3		
0152	HTPR	09	1103E		1107D	S10	W82	4263	08	3.3	4D	SN			C	1103	20			
0153	HOLL	09	1609	1609	1616	S09	E54	4279	08	13.7	7	SF		3	C		23			
0154		09	1627	1630Z	1640	S09	W84	4263	08	3.4	13	SF					68			
	HOLL	09	1627	1630	1641	S08	W83	4263	08	3.5	14	SN		4	C		56			
	RAMY	09	1627	1632	1638	S10	W89	4263	08	3.0	11	SF		3	C		79			
	KANZ	09	1642E	1642U	1642D	S08	W80	4263	08	3.7	11D	SF		1						
		09	2026		2033	No Flare Patrol														
		09	2038		2050	No Flare Patrol														
0155	PALE	09	2051	2053	2057	S08	E52	4278	08	13.8	6	SF	C 1.2	3	C		18		F	
		09	2123		2133	No Flare Patrol														
0156	LEAR	10	0045	0047	0100	S09	E54	4279	08	14.1	15	SN		3	C		24			
0157	LEAR	10	0305		0330	S12	W87	4263B	08	3.6	25	SN	C 2.5	3	C					
0158		10	0812Z	08146	0826	S05	E44	4278	08	13.6	14	SF					25	.1	F	
	LEAR	10	0812	0814	0822	S06	E44	4278	08	13.6	10	SF		3	C		40		F	
	KANZ	10	0815	0820	0830	S05	E44	4278	08	13.6	15	SF		1						
	HTPR	10	0820E		0834D	S05	E44	4278	08	13.6	14D	SF			C	0820	10	.1		
0159	KANZ	10	0941	0941	0951	S03	W82	4263	08	4.3	10	SB		2						
0160		10	1123Z	1130*	1211	S08	E44	4278	08	13.8	48	SN	C 1.4				92	.8		
	RAMY	10	1123	1223	1242	S08	E47	4278	08	14.0	79	SN		3	C		129			
	CATA	10	1125	1130	1140	S07	E42	4278	08	13.6	15	S	C 1.4	2	C	1130	56	.8		
0161	RAMY	10	1126	1127	1145	S09	E46	4279	08	13.9	19	SF	C 1.4	3	C		49			
0162	RAMY	10	1157	1159	1223	N01	E45	4280	08	13.8	26	SF	C 3.3	3	C		42			
0163	RAMY	10	1545	1552	1600	S06	E52	4278A	08	14.5	15	SF		3	C		50			
0164	RAMY	10	1610	1612	1616	S01	E42	4280	08	13.8	6	SN		3	C		44			
0165	HOLL	10	1949	1949	1959	S05	E37	4278	08	13.6	10	SF		3	C		25			
0166	HOLL	10	2013	2015	2022	S05	E37	4278	08	13.6	9	SF		3	C		32			
0167		10	2156Z	21578	2216	S04	E74	4281	08	16.4	20	SF					16			
	HOLL	10	2156	2157	2201	S04	E74	4281	08	16.4	5	SF		3	C		15			
	HOLL	10	2202	2205	2231	S05	E74	4281	08	16.4	29	SF		3	C		17			
0168		10	2239*	2239	2248	S08	E40	4278	08	13.9	9	SN	C 1.6				34		F	
	HOLL	10	2239	2239	2248	S08	E41	4278	08	14.0	9	SF		3	C		48		F	
	HOLL	10	2253	2254U	2255D	S07	E39	4278	08	13.9	2D	SN	C 1.6	3	C		21		F	
0169	CULG	10	2353	2353	2407	S02	E77	4281	08	16.7	14	SN			C	2353	50		F	
0170	LEAR	11	0131	0135	0153	S08	E45	4278A	08	14.4	22	SN		3	C		46		F	

26  
Aug 83

H - ALPHA SOLAR FLARES

AUGUST 1983

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 <sup>-6</sup> Disk)	Corr (Sq Deg)	
0171	PALE	11	0308	0308	0327	S04	E33 4278	08	13.6	19	SF C 1.1	3	C		29		
0172	LEAR	11	0308	0309	0329	S09	E36 4279	08	13.8	21	SN C 1.1	3	C		73		
0173	LEAR	11	0444	0444	0458	S10	E32 4279	08	13.6	14	SF	3	C		23		
0174	ABST	11	0532E	0534	0537D	S19	E80 4283	08	17.3	5D	1F		P	0534	87		D
0175		11	07204	07241	0732	S06	E70 4281	08	16.5	12	SF C 1.0				35		
	CATA	11	0720	0725	0725D	S07	E70 4281	08	16.5	5D	S C 1.0	2	P	0725	56		
	LEAR	11	0724	0724	0732	S06	E69 4281	08	16.5	8	SF C 1.0	3	C		14		
0176		11	11153	11157	1134	S06	E69 4281	08	16.6	19	1N				112		E
	CATA	11	1115	1115	1135	S07	E68 4281	08	16.6	20	1		2	C	1115	112	
	KAND	11	1118	1122	1134	S04	E70 4281	08	16.7	16	SN		C				E
0177	HTPR	11	1220	1242	1245	S07	E23 4278	08	13.2	25	SF		C	1242	20	.2	E
0178	HTPR	11	1237	1239	1248	S03	E33 4280	08	14.0	11	SF		C	1239	30	.4	E
0179	HTPR	11	1307	1308	1311	S21	E76 4283	08	17.4	4	SF		C	1308	10		
0180	RAMY	11	1619	1621	1733D	S06	E66 4281	08	16.6	74D	SF C 1.3	3	C		40		
		11	1644		1734	No Flare Patrol											
0181	RAMY	11	1911	1915	1915D	S09	E27 4279	08	13.8	4D	SB	3	C		67		
0182		11	1911	1915	1929	S10	E18 4279	08	13.1	18	SB C 1.8				73		F
	HOLL	11	1911	1915	1923	S10	E18 4279	08	13.1	12	SB C 1.8	3	C		68		F
	RAMY	11	1911	1915	1935	S11	E18 4279	08	13.1	24	SB C 1.8	3	C		78		
0183		11	20151	2016	2026	S20	E68 4283	08	17.0	11	SF				66		
	RAMY	11	2015	2016	2026	S19	E69 4283	08	17.1	11	SF	3	C		59		
	HOLL	11	2016	2016	2027D	S20	E67 4283	08	17.0	11D	SF	2	C		74		
0184	VORO	11	2241	2244U	2250	S11	E15 4279	08	13.1	9	SN		C	2244	27	.3	DJ
0185	CULG	11	2307	2317	2333	S03	E63 4281	08	16.7	26	SF		C	2317	60	1.2	
0186		12	00204	00251	0043	S11	E16 4279	08	13.2	23	1B C 5.0				254	3.0	EJ
	MITK	12	0020	0026	0044	S10	E14 4279	08	13.1	24	1B C 5.0		C	0026	340	3.8	
	VORO	12	0021	0025U	0033	S12	E15 4279	08	13.1	12	1N C 5.0		C	0025	197	2.2	EJ
	CULG	12	0021	0025	0036	S10	E15 4279	08	13.1	15	1B C 5.0		C	0025	280	3.0	
	LEAR	12	0024	0026	0059	S13	E20 4279	08	13.5	35	1B C 5.0	3	C		199		
0187	CULG	12	0251	0253U	0258D	S08	E13 4279	08	13.1	7D	SB		P	0253	40	.4	
0188	TACH	12	0325	0343	0414	S11	E13 4279	08	13.1	49	1N		C	0343	221	2.4	D
0189		12	0415	0419S	0440	S11	E12 4279	08	13.1	25	SN C 1.6				54		HK
	LEAR	12	0415	0419	0440	S11	E12 4279	08	13.1	25	SN C 1.8	3	C		58		HK
	LEAR	12	0415	0424	0440	S11	E12 4279	08	13.1	25	SN	3	C		49		K
0190	LEAR	12	0446	0446	0454	S10	E15 4279	08	13.3	8	SN	3	C		36		F
0191	LEAR	12	0452	0531	0552	S02	E20 4280	08	13.7	60	SF	3	C		23		
0192		12	0548	0550*	0619	S10	E16 4279	08	13.4	31	SB C 6.1				103	1.0	DFK
	LEAR	12	0548	0550	0623	S10	E14 4279	08	13.3	35	SB C 6.1	3	C		137		FK
	LEAR	12	0548	0558	0623	S10	E14 4279	08	13.3	35	SB C 6.1	3	C		137		K
	CULG	12	0559E	0559U	0608D	S09	E19 4279	08	13.7	9D	SB C 6.1		P	0559	100	1.1	
	ATHN	12	0600E	0600	0610	S10	E14 4279	08	13.3	10D	SB C 6.1	4	V	0600	127	1.4	
	TACH	12	0602E		0615D	S11	E19 4279	08	13.7	13D	SB C 6.1		C	0602	88	1.1	D
	HTPR	12	0610E		0614D	S10	E17 4279	08	13.5	4D	SF C 6.1		C	0610	30	.3	D
0193	KAND	12	0555E	0555	0615	S10	E05 4279	08	12.6	20D	SN		C		112	1.2	



28  
Aug 83

H - ALPHA SOLAR FLARES

AUGUST 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	See	Obs Type	Time (UT)	Area Measurement		Remarks			
						Lat	Cmd								Region	Day		Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)	
0204		12	1322*	13279	1335	S11	E07	4279	08	13.1	13	SF	C	1.9		31	.2	EF		
	HTPR	12	1322	1327	1328	S10	E07	4279	08	13.1	6	SF			C	1327	10	.1		
	HTPR	12	1333		1350D	S12	E08	4279	08	13.2	17D	SF	C	1.9	C	1335	40	.4	E	
	HOLL	12	1335	1336	1342	S10	E06	4279	08	13.0	7	SN	C	1.9	3	C	43		F	
0205	RAMY	12	1335	1336	1348	S07	E18	4278	08	13.9	13	SN			3	C		77		
0206	HTPR	12	1341E		1439	N10	E75	4282	08	18.2	58D	SF			C	1341	10			
0207	HTPR	12	1402	1412	1430	S05	E16	4278	08	13.8	28	SF			C	1412	10	.1		
0208	HTPR	12	1402	1411	1412	S10	E07	4279	08	13.1	10	SF			C	1411	10	.1		
0209		12	1555	15564	1600	S10	E04	4279	08	13.0	5	SF					34			
	HOLL	12	1555	1556	1559	S10	E04	4279	08	13.0	4	SF			3	C		23		
	RAMY	12	1555	1600	1602	S10	E05	4279	08	13.0	7	SF			3	C		46		
0210	RAMY	12	1607	1607	1611	N00	E16	4280	08	13.9	4	SF			3	C		26		
0211		12	1757	18029	1821	S11	E05	4279	08	13.1	24	SB	C	6.2			135		FKZ	
	HOLL	12	1757	1802	1821	S11	E05	4279	08	13.1	24	SB	C	6.2	3	C		157		ZFK
	HOLL	12	1757	1811	1821	S11	E05	4279	08	13.1	24	SN			3	C		113		K
0212	HOLL	12	1835	1839	1841	S08	E04	4279	08	13.1	6	SB			3	C		65		
0213	HOLL	12	1853	1853	1857	S09	E03	4279	08	13.0	4	SF			3	C		34		F
0214	HOLL	12	1851	1853	1859	S09	E20	4278A	08	14.3	8	SF			3	C		44		
0215	HOLL	12	1903	1908	1925	S06	E15	4278	08	13.9	22	SN			3	C		88		F
0216	HOLL	12	1914	1914	1915	S09	E03	4279	08	13.0	1	SF			3	C		24		F
0217		12	20077	20095	2029	S10	E04	4279	08	13.1	22	SN	C	1.9			43		F	
	HOLL	12	2007	2009	2034	S11	E03	4279	08	13.1	27	SN	C	1.9	3	C		61		
	PALE	12	2014	2014	2024	S10	E05	4279	08	13.2	10	SF	C	1.9	3	C		25		F
0218		12	22141	2216	2222	S08	E02	4279	08	13.1	8	SN					71	.8	DJ	
	VORO	12	2214	2216U	2222	S08	E02	4279	08	13.1	8	SF			C	2216	72	.8	DJ	
	CULG	12	2215	2216	2221	S08	E02	4279	08	13.1	6	SB			C	2216	70	.7		
0219		12	23002	23031	2312	S08	E02	4279	08	13.1	12	SB	C	1.4			79	.8	EJ	
	VORO	12	2300	2302U	2306	S08	E02	4279	08	13.1	6	SN	C	1.4	C	2302	72	.8	EJ	
	CULG	12	2301	2303	2306	S09	E02	4279	08	13.1	5	SB	C	1.4	C	2303	90	.9		
	PALE	12	2302	2303	2310	S08	E02	4279	08	13.1	8	SN	C	1.4	3	C		67		
	HOLL	12	2302	2304	2328	S07	E01	4279	08	13.0	2	SN	C	1.4	3	C		88		
0220		13	00182	0020	0044	S10	E05	4279	08	13.4	26	SB	C	2.1			95	1.4	EFJ	
	VORO	13	0018	0020U	0032	S09	E04	4279	08	13.3	14	SN	C	2.1	C	0020	134	1.4	EJ	
	HOLL	13	0019	0020	0049	S10	E05	4279	08	13.4	30	SB	C	2.1	2	C		91		F
	PALE	13	0019	0020	0056	S09	E07	4279	08	13.5	37	SN	C	2.1	3	C		100		F
	LEAR	13	0020	0020	0040	S10	E05	4279	08	13.4	20	SB	C	2.1	3	C		55		
0221		13	01542	0158*	0230	S05	E46	4281	08	16.5	36	SF					63	1.2	EK	
	VORO	13	0154	0156U	0203	S05	E47	4281	08	16.6	9	SF			C	0156	108	1.6	E	
	CULG	13	0154	0158	0217	S04	E47	4281	08	16.6	23	SF			C	0158	50	.7		
	LEAR	13	0154	0201	0251	S06	E46	4281	08	16.5	57	SN			3	C		71		K
	LEAR	13	0154	0208	0251	S06	E46	4281	08	16.5	57	SF			3	C		51		K
	PALE	13	0156	0201	0220D	S04	E47	4281	08	16.6	24D	SF			3	C		36		
0222		13	0224*	0231*	0410	S10	E01	4279	08	13.2	106	1N	C	1.2			347	5.2	EFJK	
	LEAR	13	0224	0231	0418	S10	E00	4279	08	13.1	114	SN			3	C		104		K
	LEAR	13	0224	0336	0418	S10	E00	4279	08	13.1	114	1N	C	1.2	3	C		327		FK
	YUNN	13	0331	0335	0354	S10	W00	4279	08	13.1	23	1N	C	1.2	P		384	4.1	F	
	TACH	13	0331E	0342	0352D	S11	E05	4279	08	13.5	21D	2N			C	0342	574	6.2	EIK	
0223	LEAR	13	0235	0235	0253	S16	E50	4283	08	16.9	18	SF			3	C		21		





30  
Aug 83

H - ALPHA SOLAR FLARES

AUGUST 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)	
0241	LEAR	14	0205		0215D	S08	W07	4279	08	13.6	10D	SF	3	C		33		
0242	ABST	14	0612	0615	0624	S08	W11	4279	08	13.4	12	SF		C	0615	131	1.3	E
0243	ABST	14	0624	0626	0630	S09	W01	4278A	08	14.2	6	SF		C	0626	131	1.3	E
0244		14	07197	07259	0750	S09	W09	4279	08	13.6	31	SN				108	1.2	ETU
	KANZ	14	0719	0725	0759	S08	W10	4279	08	13.5	40	SF	1					U
	ISTA	14	0724		0730	S09	W09	4279	08	13.6	6	1N						U
	BUCA	14	0724	0730		S09	W09	4279	08	13.6		1N						U
	YUNN	14	0725	0738U	0754	S08	W10	4279	08	13.5	29	SN		P	0738	108	1.2	ET
	KANZ	14	0726	0734	0759	S10	W06	4279	08	13.8	33	SF	1					
0245	YUNN	14	0806	0814	0840	S07	W11	4278	08	13.5	34	SN		C		77	.8	T
		14	0913		0949	No Flare Patrol												
		14	1016		1050	No Flare Patrol												
0246	RAMY	14	1329	1331	1335	S10	W14	4279	08	13.5	6	SN	C 1.2	3	C		26	
0247		14	1428	1429S	1449	S07	E27	4281	08	16.6	21	SN					38	
	RAMY	14	1428	1429	1436	S07	E27	4281	08	16.6	8	SN		3	C		41	
	KANZ	14	1428	1432	1456	S07	E27	4281	08	16.6	28	SN		2				
	HOLL	14	1430E	1430U	1454	S07	E26	4281	08	16.5	24D	SN		2	C		34	
0248		14	1551*	1552*	1712	S08	W13	4278	08	13.7	81	SN	C 1.3				170	FK
	HOLL	14	1551	1552	1756	S07	W15	4278	08	13.5	125	SN		3	C		62	K
	RAMY	14	1551	1553	1609	S08	W12	4278	08	13.8	18	SN		3	C		34	
	HOLL	14	1551	1553	1623	S07	W11	4278	08	13.8	32	SN		3	C		88	
	HOLL	14	1551	1643	1756	S07	W15	4278	08	13.5	125	1B	C 1.3	3	C		466	FK
	RAMY	14	1552	1553	1605	S07	W07	4278	08	14.1	13	SN		3	C		58	
	KANZ	14	1555	1555U	1603D	S08	W13	4278	08	13.7	8D	1N		2				
	RAMY	14	1624	1625	1759	S08	W14	4278	08	13.6	95	SN		3	C		44	K
	RAMY	14	1624	1642	1759	S08	W14	4278	08	13.6	95	1B	C 1.3	3	C		441	FK
0249		14	16096	16124	1634	S19	E32	4283	08	17.1	25	SF					26	
	HOLL	14	1609	1612	1631	S19	E33	4283	08	17.2	22	SF		3	C		18	
	RAMY	14	1615	1616	1636	S19	E32	4283	08	17.1	21	SF		3	C		33	
0250		14	16251	1642*	1756	S08	W10	4279	08	13.9	91	2B					440	FKZ
	RAMY	14	1625	1642	1800	S09	W09	4279	08	14.0	95	1B		3	C		376	K
	RAMY	14	1625	1655	1800	S09	W09	4279	08	14.0	95	2B		3	C		570	K
	HOLL	14	1626	1642	1751	S07	W11	4279	08	13.9	85	1B		3	C		266	ZFK
	HOLL	14	1626	1656	1751	S07	W11	4279	08	13.9	85	2B		3	C		548	K
0251		14	1814	1815	1818	N07	E33	4282	08	17.2	4	SF					32	
	RAMY	14	1814	1815	1818	N07	E33	4282	08	17.2	4	SF		3	C		32	
	HOLL	14	1814	1815	1818	N07	E33	4282	08	17.2	4	SF		3	C		33	
0252		14	1908	1914*	1954	S08	W17	4279	08	13.5	46	SF					38	K
	HOLL	14	1908	1914	1954	S08	W17	4279	08	13.5	46	SF		3	C		37	K
	HOLL	14	1908	1933	1954	S08	W17	4279	08	13.5	46	SF		3	C		39	K
		14	2129		2147	No Flare Patrol												
0253	LEAR	15	0009	0012	0027	S09	W22	4279	08	13.3	19	SF		3	C		96	
0254	LEAR	15	0025	0027	0040	N20	E55	4286	08	19.2	15	SF		3	C		28	
0255		15	0036*	0044*	0137	S09	W20	4279	08	13.5	61	SN	C 2.0				66	.6
	LEAR	15	0036	0045	0153	S08	W17	4279	08	13.7	77	SB		3	C		82	K
	LEAR	15	0036	0128	0153	S08	W17	4279	08	13.7	77	SN		3	C		63	K
	LEAR	15	0042	0044	0111	S09	W21	4279	08	13.4	29	SN	C 2.0	3	C		89	F
	PURP	15	0052E	0052	0107	S10	W20	4279	08	13.5	15D	SF	C 2.0		C	0056	59	.7
	LEAR	15	0118	0127	0153	S10	W23	4279	08	13.3	35	SN	C 2.1	3	C		55	F
	PURP	15	0123	0136U	0146	S10	W20	4279	08	13.5	23	SF	C 2.1		C	0136	51	.6
0256	LEAR	15	0113	0113	0120	N07	E32	4282	08	17.4	7	SF		3	C		56	

## H - ALPHA SOLAR FLARES

31  
Aug 83

AUGUST 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAr			CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
						Lat	CMD	Region								Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
0257	LEAR	15	0132	0132	0136	N17	E55	4286	08 19.2	4	SN		3	C		28			
0258	LEAR	15	0145	0206	0250	S19	E26	4283	08 17.0	65	SN		3	C		91		U	
0259		15	02291	02311	0302	S10	W20	4279	08 13.6	33	SN					78		F	
	LEAR	15	0229	0231	0311	S10	W23	4279	08 13.4	42	SN		3	C		103		F	
	LEAR	15	0230	0232	0252	S10	W17	4279	08 13.8	22	SN		3	C		54			
0260	ABST	15	0416E	0416	0432	S08	W25	4279	08 13.3	16D	SF			P	0416	131	1.5	E	
0261		15	05381	05392	0603	S10	W25	4279	08 13.3	25	SN					30	.3	F	
	CULG	15	0538	0541	0557D	S10	W25	4279	08 13.3	19D	SF			P	0541	30	.3	F	
	LEAR	15	0539	0539	0603	S09	W25	4279	08 13.3	24	SN		3	C		29		F	
0262	LEAR	15	0720	0720	0731	S08	W19	4278	08 13.9	11	SF		3	C		22			
0263		15	0741*	0742*	0830	S10	W25	4279	08 13.4	49	SN	C 3.0				150	2.2	RCDEFK	
	LEAR	15	0741	0742	0829	S09	W26	4279	08 13.4	48	SN		3	C		33		K	
	LEAR	15	0741	0803	0829	S09	W26	4279	08 13.4	48	SB	C 3.0	3	C		150		FEK	
	ISTA	15	0744		0825	S10	W26	4279	08 13.4	41	1N	C 3.0						C	
	ISTA	15	0744		0825	S13	W27	4279	08 13.3	41	SN							B	
	BUCA	15	0744	0825		S10	W26	4279	08 13.4		1N							C	
	RUCA	15	0744	0825		S13	W27	4279	08 13.3		SN							B	
	YUNN	15	0745	0756	0820	S09	W28	4279	08 13.2	35	SN			P		62	.7		
	KANZ	15	0749	0757	0837	S09	W26	4279	08 13.4	48	SB		2						
	BUCA	15	0755	0802	0825	S10	W24	4279	08 13.5	30	1N			P	0802	430	5.0	E	
	ISTA	15	0800		0808	S08	W21	4279	08 13.7	8	1N							BD	
	BUCA	15	0800	0808		S08	W21	4279	08 13.7		1N							DB	
	YUNN	15	0831	0834	0855	S10	W25	4279	08 13.5	24	SN			C		77	.9	E	
	KANZ	15	0832	0832	0852	S09	W20	4279	08 13.8	20	SN		2						
0264		15	0914*	0921*	1014	S08	W24	4279	08 13.6	60	SN					160	2.1	EFHV	
	LEAR	15	0914	0921	0930D	S07	W25	4279	08 13.5	16D	SN		2	C		75		F	
	LEAR	15	0914	0924	0930D	S09	W18	4279	08 14.0	16D	SN		2	C		168		F	
	KANZ	15	0915	0927	1022	S08	W24	4279	08 13.6	67	SN		2						
	KHAR	15	0930E		0953D	S08	W25	4279	08 13.5	23D	SN			P	0930	100	1.1	E	
	KHAR	15	0937E	0938	1014D	S10	W26	4279	08 13.4	37D	1B			P	0939	300	3.3	EHV	
	KANZ	15	0939	0943	1014	S09	W22	4279	08 13.7	35	SB		2						
	ATHN	15	0940	0943	1005	S08	W26	4279	08 13.4	25	SB		2	V	0943	159	1.9		
0265		15	1056	1056	1109	S09	W24	4279	08 13.6	13	SN					60			
	RAMY	15	1053E	1054U	1109	S10	W27	4279	08 13.4	16D	SN		3	C		73			
	RAMY	15	1054E	1054U	1109	S09	W21	4279	08 13.9	15D	SN		3	C		48			
	KANZ	15	1056	1056	1108	S09	W24	4279	08 13.6	12	SF		1						
0266		15	14131	1414	1434	S04	W22	4278	08 13.9	21	SN					30			
	RAMY	15	1413	1414	1439	S05	W22	4278	08 13.9	26	SN		3	C		30			
	KANZ	15	1414	1414	1430	S04	W23	4278	08 13.9	16	SN		2						
		15	1714		1743	No Flare Patrol													
0267	PALE	15	1818	1829	1841	S09	W24	4279	08 14.0	23	SF	C 2.3	3	C		132		F	
		15	2015		2022	No Flare Patrol													
		15	2033		2041	No Flare Patrol													
		15	2126		2244	No Flare Patrol													
		15	2246		2248	No Flare Patrol													
0268		16	00172	00204	0104	S09	W36	4279	08 13.3	47	1B	C 2.4				138	2.5	EFJ	
	LEAR	16	0017	0024	0110	S10	W35	4279	08 13.4	53	SN	C 2.4	3	C		80		F	
	VORO	16	0019	0020	0057	S08	W36	4279	08 13.3	38	1B	C 2.4		C	0021	197	2.5	EJ	
0269	LEAR	16	0414	0414	0419	S10	W39	4279	08 13.2	5	SN		3	C		23			
0270	LEAR	16	0611	0616	0628	S09	W36	4279	08 13.5	17	SF		3	C		21			
0271	HTPR	16	0634	0637	0641	S10	W36	4279	08 13.6	7	SF			C	0637	50	.7	H	

H - ALPHA SOLAR FLARES

AUGUST 1983

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 <sup>-6</sup> Disk)	Corr (Sq Deg)	
0272	BUCA	16	0655*	0705*	0738	S09	W42	4279	08	13.1	43	SN				0707	53	.9	BDLT
	HTPR	16	0657	0708	0740	S10	W42	4279	08	13.1	43	SN				0708	54	.8	
	ISTA	16	0701		0726	S07	W42	4279	08	13.1	25	SN					80	1.1	B
	LEAR	16	0701	0713	0740	S10	W41	4279	08	13.2	39	SN	3	C			31		B
	BUCA	16	0701	0716		S07	W42	4279	08	13.1		SN							D
	KAND	16	0703	0705	0723	S10	W40	4279	08	13.3	20	SN		C					
	KANZ	16	0708	0712	0754	S09	W41	4279	08	13.2	46	1F	2						
	YUNN	16	0719	0719U	0740	S09	W42	4279	08	13.1	21	SN		P	0719	46	.7		LT
	KHAR	16	0720E		0728D	S09	W43	4279	08	13.1	8D	SN		V	0720				
0273	HTPR	16	0657*	0659*	0715	S01	W36	4280	08	13.6	18	SN				0659	140	1.4	EFU
	BUCA	16	0700	0704	0725	S01	W37	4280	08	13.5	25	SN		C	0704	100	1.2	E	
	ISTA	16	0701		0710	S00	W36	4280	08	13.6	9	1B					161	2.1	E
	LEAR	16	0701	0703	0720	S02	W37	4280	08	13.5	19	1N		C			225		U
	BUCA	16	0701	0710		N00	W36	4280	08	13.6		1B							U
	KANZ	16	0704	0704	0712	S02	W37	4280	08	13.5	8	SB	2						
	KAND	16	0707	0709	0711	S01	W37	4280	08	13.5	4	SF		C			73	1.0	E
0274	HTPR	16	0752*	0759*	0841	S09	W40	4279	08	13.3	49	SF	C 2.9			0759	70	.8	DELT
	LEAR	16	0757	0823	0928	S10	W42	4279	08	13.2	91	SN	C 2.9	3	C		30	.4	
	KANZ	16	0802	0802	0817	S09	W37	4279	08	13.5	15	SN		2			118		
	KHAR	16	0805E	0805	0811D	S09	W37	4279	08	13.5	6D	SF		P	0805	20	.3	D	
	PEKG	16	0816	0822	0830	S09	W40	4279	08	13.3	14	SF	C 2.9	C	0822	67	.9	E	
	HTPR	16	0819E		0841D	S09	W37	4279	08	13.6	22D	SF	C 2.9	C	0819	150	2.0		
	KAND	16	0819	0823	0837	S10	W41	4279	08	13.3	18	SF	C 2.9	C					D
	KANZ	16	0820	0820	0911	S10	W42	4279	08	13.2	51	SF	C 2.9	2					
	MONT	16	0820	0822	0836	S09	W42	4279	08	13.2	16	SN	C 2.9	C	0822	110			
	KHAR	16	0821E	0821	0824D	S09	W35	4279	08	13.7	3D	SF		P	0821	10	.1	D	
	KHAR	16	0821E	0821	0842D	S09	W43	4279	08	13.1	21D	SN	C 2.9	P	0821	100	1.5	LT	
	KHAR	16	0908E	0908	0926D	S09	W43	4279	08	13.1	18D	SF		P	0908	30	.5		
	0276	KHAR	16	0831E	0834	0838D	S07	W36	4278	08	13.6	7D	SF		P	0834	10	.1	D
0277	KHAR	16	1035E	1059	1102D	S08	W36	4278	08	13.7	27D	SF		P	1059	40	.6	LT	
0278	HTPR	16	1049	1053	1056	S09	W26	4278A	08	14.5	7	SN		C	1053	60	.7	E	
0279	KHAR	16	1059E	1059	1105D	S18	E08	4283	08	17.1	6D	SF		P	1059	40	.5		
0280	KHAR	16	1125E	1125	1134D	S07	W38	4278	08	13.6	9D	SF		P	1129	10	.2	D	
0281	RAMY	16	1342E	1342U	1342	S08	W61		08	12.0	9D	SN	2	C		28			
0282	KANZ	16	1344	1345	1405	S10	W39	4279	08	13.6	21	SB	C 3.1				96	2.0	F
	RAMY	16	1345	1345	1400	S10	W40	4279	08	13.6	15	SB	C 3.1	3	C		44		F
	ATHN	16	1345*	*1348	1405	S10	W40	4279	08	13.6	20	SN	C 3.1	1	V	1348	143	2.0	
	HOLL	16	1347E	1347U	1350D	S10	W40	4279	08	13.6	3D	SB	C 3.1	4	C		102		F
		16	1511		1515	No Flare Patrol													
0283	HOLL	16	1526*	1538*	1612D	S08	W45	4279	08	13.3	46D	SB	C 1.0				95		EFK
	HOLL	16	1526	1538	1600D	S08	W45	4279	08	13.3	34D	SN		4	C		38		K
	HOLL	16	1526	1557	1600D	S08	W45	4279	08	13.3	34D	SB	C 1.0	4	C		120		FEK
	HOLL	16	1526	1608	1612D	S08	W46	4279	08	13.2	46D	SB		4	C		120		
	RAMY	16	1546	1557	1601D	S09	W45	4279	08	13.3	15D	SB	C 1.0	3	C		103		
0284	HOLL	16	1550E	1600U	1645D	S08	W37	4278	08	13.9	55D	SB	C 6.0	3	C		65		
0285	HOLL	16	1607	1607	1608D	S08	W33	4278A	08	14.2	1D	SB		3	C		168		
		16	1739		1746	No Flare Patrol													
0286	HOLL	16	1802	1802	1811	S07	W41	4278	08	13.7	9	SN	C 1.3	3	C		39		F

H - ALPHA SOLAR FLARES

33  
Aug 83

AUGUST 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF Region		CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
						Lat	Cmd									Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
			16 1829		1949	No Flare Patrol													
			16 2019		2023	No Flare Patrol													
0287	HOLL	'5	2046E	2048U	2100	S01	W44	4280	08	13.6	14D	SF		3	C		32		F
0288	HOLL	'6	2141E	2143U	2152	S07	W42	4278	08	13.7	11D	SF		3	C		24		
0289	HOLL	16	2142E	2142U	2246	N18	E29	+286	08	19.1	64D	1B C	2.7	3	C		255		EU
			16 2155		2220	No Flare Patrol													
0290	HOLL	16	2220	2222	2238	S08	W45	4279	08	13.5	18	SN C	2.9	3	C		69		F
			16 2317		2326	No Flare Patrol													
0291	HOLL	17	0043	0051	0105	S08	W50	4279	08	13.3	22	SN C	1.8	3	C		40		
0292	CULG	17	0123	0132	0215	S02	W57	4280	08	12.8	52	SF			C	0132	70	1.3	FHL
0293		17	0232	0232	0334	S10	W49	4279	08	13.4	62	2B M	1.3				398	9.3	EF
	LEAR	17	0232	0232	0334	S09	W48	4279	08	13.5	62	1B M	1.3	3	C		242		FE
	YUNN	17	0236E	0236U	0254D	S10	W50	4279	08	13.3	18D	2B M	1.3		P	0236	554	9.3	
0294		17	0501	0504	0524	S02	W50	4280	08	13.5	23	1N					171	3.6	F
	ABST	17	0501	0504	0524	S01	W52	4280	08	13.3	23	1N			C	0504	218	3.6	F
	LEAR	17	0501	0504	0525	S02	W49	4280	08	13.5	24	SN		3	C		124		
0295		17	0646	0658	0658	S08	W51	4279	08	13.4	12	1B							FU
	ISTA	17	0646	0658	0658	S08	W51	4279	08	13.4	12	1B							FU
	BUCA	17	0646	0658		S08	W51	4279	08	13.4		1B							UF
0296		17	0647*	0722	0746	S10	W56	4279	08	13.1	59	SN					34		LT
	LEAR	17	0647	0722	0731	S10	W56	4279	08	13.1	44	SN		3	C		34		
	KANZ	17	0708	0722	0800	S10	W56	4279	08	13.1	52	1N		2					
	KHAR	17	0725E		0740D	S10	W55	4279	08	13.2	15D	SF			V	0/32			LT
0297		17	0722	0737	0737	S07	W54	4278	08	13.3	15	SB							BD
	ISTA	17	0722		0737	S07	W54	4278	08	13.3	15	SB							BD
	BUCA	17	0722	0737		S07	W54	4278	08	13.3		SB							DB
0298		17	0809*	0816*	0924	S09	W54	4279	08	13.3	75	SN C	1.2				62	1.0	EFKLTW
	LEAR	17	0809	0816	0917D	S10	W56	4279	08	13.1	68D	SF		3	C		67		K
	LEAR	17	0809	0848	0917D	S10	W56	4279	08	13.1	68D	SB C	1.2	3	C		83		FK
	KHAR	17	0811E	0858	0928D	S10	W57	4279	08	13.0	77D	SN C	1.2		P	0858	30	.7	LTW
	PEKG	17	0845	0850	0922	S08	W56	4279	08	13.2	37	SF C	1.2		C	0850	34	.6	E
	CATA	17	0850E	0900	0925D	S09	W56	4279	08	13.2	35D	S C	1.2	2	P	0900	56	1.1	
	ATHN	17	0851E	0851	0925	S09	W50	4279	08	13.6	34D	1N C	3.3	1	V	0851	127	2.2	
	KHAR	17	0904E	0908	0928D	S10	W48	4279	08	13.8	24D	SF C	3.3		P	0908	40	.7	L
0299		17	10175	1017*	1106	S10	W54	4279	08	13.4	49	SN					58	1.0	ELT
	KHAR	17	1012E	1018	1044D	S10	W57	4279	08	13.1	32D	SN			P	1018	40	.8	LT
	KANZ	17	1017	1017	1048	S10	W58	4279	08	13.1	31	SB		2					
	KHAR	17	1018E	1031	1117D	S10	W50	4279	08	13.7	59D	SB			P	1047	40	.7	
	HTPR	17	1020E		1115	S10	W52	4279	08	13.5	55D	1N			C	1030	140	2.3	E
	KANZ	17	1022	1029	1114	S10	W49	4279	08	13.7	52	SB		2					
	KHAR	17	1117E	1117	1120C	S10	W60	4279	08	13.0	3D	SF			P	1117	10	.2	
0300	CATA	17	1035E	1035	1035D	S07	W49	4278	08	13.8	3D	S		2	P	1035	84	1.4	
0302	KHAR	17	1157E	1157	1203D	N00	W53	4280	08	13.5	6D	SF			P	1157	30	.6	
0303		17	13362	13381	1342	S08	W59	4279	08	13.1	6	SN C	1.0				48	1.0	
	ATHN	17	1336	1339	1342	S08	W56	4279	08	13.4	6	SN C	1.0	3	V	1339	95	1.6	
	HTPR	17	1338		1340D	S08	W62	4279	08	12.9	2D	SN C	1.0		C	1340	20	.4	
	HOLL	17	1338	1338	1342	S07	W60	4279	08	13.1	4	SN C	1.0	3	C		28		
0304	HTPR	17	1411	1413	1416	S08	W62	4279	08	12.9	5	SF			C	1413	10	.2	

H - ALPHA SOLAR FLARES

AUGUST 1983

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 <sup>-6</sup> Disk)	Corr (Sq Deg)			
0305		17	16257	1626*	1640	S08	W54	4279	08	13.6	15	SF						34		F	
	HOLL	17	1625	1626	1631	S08	W55	4279	08	13.6	6	SF		3	C			23		F	
	HOLL	17	1632	1636	1649	S08	W54	4279	08	13.6	17	SF		3	C			45		F	
0306	HOLL	17	1742	1747	1832	S08	W55	4279	08	13.6	50	SF	C 2.0	3	C			61		F	
0307		17	1904	1905	1944	S08	W52	4279	08	13.9	40	1N	M 1.4					154		F	
	PALE	17	1904	1905	1944	S09	W54	4279	08	13.7	40	1N	M 1.4	3	C			169		F	
	HOLL	17	1915E	1915U	1919D	S08	W50	4279	08	14.0	4D	1N	M 1.4	3	C			140		F	
		17	2129		2219																No Flare Patrol
	17	2221		2249																	No Flare Patrol
	17	2254		2319																	No Flare Patrol
	17	2321		2322																	No Flare Patrol
0308	HOLL	17	2334E	2334U	2341	N01	W59	4280	08	13.6	7D	SF		2	C			19			
0309	LEAR	18	0117	0129	0157	N00	W56	4280	08	13.9	40	SF		3	C			52			
0310	LEAR	18	0121	0121	0137	S04	W54	4278	08	14.0	16	SF		3	C			17			
0311	LEAR	18	0259	0301	0306	N07	W14	4282	08	17.1	7	SN		3	C			27			
0312	ABST	18	0431	0434	0439	S07	W77	4278	08	12.4	8	1F				C	0434	87		DJ	
0313	LEAR	18	0457	0501	0511	S09	W67	4279	08	13.2	14	SN	C 1.2	3	C			43		E	
0314		18	0819*	0823*	0837	S10	W69	4279	08	13.2	18	SN						25	.7	EFKL	
	YUNN	18	0819	0823	0830	S11	W67	4279	08	13.3	11	SB			C			31			
	KHAR	18	0622E		0829D	S12	W72	4279	08	12.9	7D	SF			P	0824				L	
	HTPR	18	0822	0824	0845	S09	W70	4279	08	13.1	23	SN			C	0824		30	.7	K	
	LEAR	18	0825	0827	0830	S10	W69	4279	08	13.2	5	SF		3	C			18			
	LEAR	18	0834	0838	0844	S11	W70	4279	08	13.1	10	SF		3	C			20		FE	
0315	KHAR	18	0858E		0906D	N02	W90		08	11.6	8D	SF			V	0858					
0316	KHAR	18	0859E		0909D	S10	W71	4279	08	13.0	10D	SF			P	0903				L	
0317	HTPR	18	0945	C950	1001	S06	W72	4278	08	13.0	16	S			C	0950		20			
0318		18	10141	10154	1030	S06	W74	4278	08	12.9	16	SB						63			
	HTPR	18	1014	1019	1030	S06	W72	4278	08	13.0	16	SB			C	1019		70			
	CATA	18	1015	1015	1030	S06	W75	4278	08	12.8	15	S		2	C	1015		56			
0319	KHAR	18	1015E	1020	1030D	S09	W79	4279	08	12.5	15D	1N			P	1022				H	
0320		18	1038	1039*	1122	N03	W78	4278D	08	16.3	44	SN						120	1.3	EK	
	HTPR	18	1038	1039	1122	N08	W28	4278D	08	16.3	44	SN			C	1039		120	1.3	EK	
	HTPR	18	1038	1054	1122	N09	W28	4278D	08	16.3	44										
0321		18	1040*	1055	1115	N08	W18	4282	08	17.1	35	SN						77	.9	E	
	KHAR	18	1040		1045D	N07	W18	4282	08	17.1	5D	SF			P	1042		50	.6	E	
	CATA	18	1050	1055	1115	N09	W19	4282	08	17.0	25	S		2	C	1055		112	1.2		
	KHAR	18	1055E		1115	N08	W18	4282	08	17.1	20D	SN			P	1109		70	.8	E	
0322	HTPR	18	1227	1231	1245	N08	W30	4278D	08	16.3	18	SF			C	1231		30	.3	E	
0323	HTPR	18	1328	1333	1341	S06	W79	4278	08	12.6	13	SF			C	1333		20			
0324	HTPR	18	1420	1421	1426	N00	W70	4280	08	13.4	6	1F			C	1421		120	2.2	E	
0325		18	15062	1508U	1601	N08	W20	4282	08	17.1	55	1N	C 2.0					136	2.5	EF	
	HTPR	18	1506		1514D	N08	W20	4282	08	17.1	8D	1B	C 2.0		C	1513		250	2.5	E	
	HOLL	18	1508	1508U	1601	N08	W20	4282	08	17.1	53	SF	C 2.0	3	C			21		F	
	18	1515		1518																	No Flare Patrol
	18	1522		1535																	No Flare Patrol
0326	HOLL	18	1731	1739	1755	N08	W21	4282	08	17.1	24	SF		3	C			36		F	

H - ALPHA SOLAR FLARES

35  
Aug 83

AUGUST 1983

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 <sup>-6</sup> Disk)	Apparent (Sq Deg)	
0327	HOLL	18	1756	1814	1821	N08	W22	4282	08	17.1	25	SF		3	C		29		F
		18	2054		2056	No Flare Patrol													
0328	VORO	18	22539	2254*	2320	N09	W24	4282	08	17.1	27	SF					66	1.3	DJK
	HOLL	18	2251E	230r	2353	N10	W25	4282	08	17.1	6	SN			C	2304	134	1.3	DJK
	HOLL	18	2253	2254	2258	N09	W24	4282	08	17.1	5	SF		2	C		30		
	HOLL	18	2302	2302	2309	N09	W24	4282	08	17.1	7	SF		2	C		34		
0329	LEAR	19	0210*	02239	0258	S07	W67	4278	08	14.1	48	1N					154		EFHIJU
	PALE	19	0221E	0228U	0256	S08	W63	4278	08	14.4	35D	SN		3	C		86		F
	VORO	19	0223	0232	0250	S06	W70	4278	08	13.8	27	1N			C	0232	296		EHIJ
	YUNN	19	0226E	0230U	0234D	S07	W65	4278	08	14.2	8D	1B			P	0230	92		F
0330	YUNN	19	0306I	0310	0324	S08	W80	4279	08	13.1	18	C 3.8			P		104		AFU
	LEAR	19	0307	0309	0326	S08	W89	4279	08	12.4	19	1N C 3.2		3	C		150		A
	PEKG	19	0310E	0310	0323	S08	W90	4279	08	12.4	13D	SB C 3.8			C	0310	101		UF
	PALE	19	0317E	0318U	0327	S09	W83	4279	08	12.9	10D	SN C 3.8		3	C		60		A
0331	PEKG	19	0405	0415	0438	S07	W90	4278	08	12.4	33	SF			C	0415	42		A
0332	CATA	19	0635E	0635	0650	S06	W90	4278	08	12.5	15D	S		2	P	0635	28		
0333	KHAR	19	0801E		0935D	S08	W88	4279	08	12.7	94D	SN			V	0804			H
	KHAR	19	0801E		0840D	S08	W88	4279	08	12.7	39D	SN			V	0804			H
	KHAR	19	0849E		0935D	S08	W88	4279	08	12.8	46D	SF			V	0857			
0334	CATA	19	0920E	0925	0935D	S06	W90	4278	08	12.6	15D	1		2	P	0925	56		
0335	KHAR	19	1045E		1106D	S08	W89	4279	08	12.8	21D	SN			V	1055			
0336	RAMY	19	1810*	1826!	1835	N16	E54	4288	08	23.8	25	SF C 2.2					73		F
	HOLL	19	1810	1826	1837	N16	E53	4288	08	23.8	27	SN C 2.2	3	C			99		
	HOLL	19	1823	1827	1836	N16	E54	4288	08	23.9	13	SF C 2.2	3	C			75		
	PALE	19	1825	1826	1831	N16	E55	4288	08	23.9	6	SF C 2.2	3	C			44		F
		20	0100		0103	No Flare Patrol													
		20	0106		0111	No Flare Patrol													
		20	0204		0209	No Flare Patrol													
0337	KANZ	20	0853	0857	0924	S15	W76	4279	08	14.6	31	SF		2					
0338	HTPR	20	12454	12481	1311	N16	E48	4288	08	24.2	26	SN					64	.9	E
	ATHN	20	1245	1248	1310	N15	E44	4288	08	23.9	25	SN			C	1248	80	1.1	E
	KANZ	20	1247E	1249	1309	N19	E54	4288	08	24.6	22D	SN		2	V	1249	48	.7	
	KANZ	20	1249	1249	1313	N15	E46	4288	08	24.0	24	SN		2					
0339	RAMY	20	1731	1731	1743	N15	E49	4288	08	24.4	12	SF		3	C		20		
0340	RAMY	20	17461	17474	1902	N08	W49	4282	08	17.1	76	SF					44		F
	PALE	20	1746	1748	2105	N08	W49	4282	08	17.1	199	SF		3	C		51		
	HOLL	20	1747	1747	1759	N07	W49	4282	08	17.1	12	SF		3	C		18		F
	HOLL	20	1747	1751	1803	N08	W50	4282	08	17.0	16	SN		3	C		62		F
0341	PALE	20	1802	1804*	1836	N14	E50	4288	08	24.5	34	SN C 3.0					100		FK
	HOLL	20	1802	1804	1831	N15	E50	4288	08	24.5	29	SN C 3.0	3	C			87		F
	HOLL	20	1802	1806	1839	N14	E50	4288	08	24.5	37	SB C 3.0	3	C			115		FK
	HOLL	20	1802	1816	1839	N14	E50	4288	08	24.5	37	SN		3	C		98		K
		20	2035		2059	No Flare Patrol													
		20	2156		2201	No Flare Patrol													
0342	VORO	20	2354	2358U	2411	N13	E46	4288	08	24.5	17	1B			C	2358	179	2.6	ENJ
0343	CATA	21	0910	0910	0915	N08	W63	4282	08	16.6	5	S		2	C	0910	28	.6	

36  
Aug 83

H - ALPHA SOLAR FLARES

AUGUST 1983

Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/ JSAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																(10 <sup>-6</sup> Disk)	(Sq Deg)		
0344	KHAR	21	0926E		0930D	N09 W57	4282	08	17.1	40	SF			P	0926	40	.8	E	
C345		21	1100	1100	1106	N09 W25		03	19.6	6	SF					28	.3		
	CATA	21	1100	1100	1105	N10 W25		08	19.6	5	S		2	C	1100	28	.3		
	KANZ	21	1100	1100	1108	N08 W25		08	19.6	8	SF		2						
		21	1459		1451	No Flare Patrol													
		21	1512		1608	No Flare Patrol													
		21	1619		1647	No Flare Patrol													
	21	1725		1739	No Flare Patrol														
0346		21	1753	1801	1913	N14 E35	4288	08	24.4	80	2B M 2,3					652		EFU	
	HOLL	21	1753	1801	1913	N14 E34	4288	08	24.3	80	2B M 2,3	3	C			795		FE	
	PALE	21	1757E	1800U	1901D	N15 E36	4288	08	24.5	64D	2B M 2,3	3	C			510		UF	
0347	HOLL	21	2055	2059	2122	N13 E32	4288	08	24.3	27	SN		3	C		74		F	
		21	2352		2356	No Flare Patrol													
0348		22	0114E	0114U	0116	N15 E28	4288	08	24.2	2D	SN					102	1.2	EFJ	
	VORO	22	0114E	0114U	0116	N14 E28	4288	08	24.2	2D	SN			C	0114	125	1.5	EJ	
	CULG	22	0116E	0116U	0119D	N16 E29	4288	08	24.2	3D	SF			P	0116	80	.9	F	
0349	KHAR	22	0811E		0818D	N01 W31		08	22.4	7D	SF			V	0811			H	
0350	KHAR	22	0814E		0847D	S04 W30	4286A	08	20.1	33D	SF			V	0830			L	
0351		22	10557	1102J	1122D	N21 W55	4284	08	18.2	27D	SN					96	1.7	E	
	KHAR	22	1055E		1122D	N20 W55	4284	08	18.2	27D	SF			P	1055	80	1.4	F	
	CATA	22	1055	1105	1110D	N22 W54	4284	08	18.3	15D	S		1	C	1105	112	2.0		
	KANZ	22	1102	1102	1102D	N20 W55	4284	08	18.2	15D	SN		2						
0352		22	1238	1245Z	1310	N15 E26	4288	08	24.5	32	SB C 2,4					154	1.7	E	
	RAMY	22	1238	1247	1309	N15 E23	4288	08	24.3	31	SB C 2,4	3	C			165		E	
	ATHN	22	1242E	1245	1310	N15 E30	4288	08	24.8	28D	SB C 2,4	3	V	1245	143	1.7			
0353	HOLL	22	1434	1436	1450	N13 E23	4288	08	24.3	16	SF		3	C		33			
0354		22	14443	1501	1524	N08 W74	4282	08	17.1	40	SF C 1,9					25			
	HOLL	22	1444	1501	1525	N08 W75	4282	08	17.0	41	SF C 1,9	3	C			28			
	RAMY	22	1447	1501	1523	N08 W74	4282	08	17.1	36	SF C 1,9	3	C			22			
		22	1527		1531	No Flare Patrol													
0355	RAMY	22	1822	1828	1835	N18 W60	4284	08	18.2	13	SF		3	C		23			
		22	2129		2203	No Flare Patrol													
		22	2207		2214	No Flare Patrol													
		22	2216		2223	No Flare Patrol													
		22	2226		2232	No Flare Patrol													
		22	2234		2243	No Flare Patrol													
		22	2253		2315	No Flare Patrol													
		22	2320		2323	No Flare Patrol													
		22	2343		2346	No Flare Patrol													
		22	2348		2353	No Flare Patrol													
		23	0006		0012	No Flare Patrol													
		23	0022		0025	No Flare Patrol													
		23	0027		0030	No Flare Patrol													
		23	0102		0114	No Flare Patrol													
		23	0136		0140	No Flare Patrol													
	0356	CULG	23	0444	0445	0451	N22 E22		08	24.9	7	SF			C	0445	30	.3	
	0357	KHAR	23	1114E		1120D	S13 E47	4289	08	27.0	6D	SF			P	1114	70	1.1	
0358		23	1135	1140	1145	S04 W44		08	20.2	10	SF					40	.6		
	KHAR	23	1135E		1142D	S06 W44		08	20.2	7D	SF			P	1135	50	.7		
	CATA	23	1135	1140	1145	S03 W44		08	20.2	10	S		1	C	1140	29	.4		



H - ALTA SOLAR FLARES

37  
Aug 83

AUGUST 1983

Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mc	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks					
																	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)						
0359		23	23211	23243	2347	N19	W74	4284	08	18.3	26	1B	M	1.9			171		DEFHJ					
	VORO	23	2321	2327	2347	N21	W76	4284	08	18.1	26	1B	M	1.9		2327	143		DHJ					
	HOLL	23	2322	2324	2328D	N19	W71	4284	08	18.5	6D	2B	M	1.9	3	C	170		FE					
	CULG	23	2322	2327	2347	N18	W75	4284	08	18.3	25	1N	M	1.9		C	2327	200		F				
		24	0301		0306	No Flare Patrol																		
0360	HTPR	24	0823	0826	0850	N14	W01	4288	08	24.3	27	SF			C	0826	20	.2	E					
0361	KHAR	24	0847E		0906D	S17	E90	4296	08	31.2	19D	SF			P	0847								
0362	HTPR	24	0937	0938	0942	N23	W68	4284	08	19.2	5	SF			C	0938	20	.4						
0363	KHAR	24	1052E		1108D	S13	E31	4289	08	26.8	16D	SF			P	1052			E					
					24	1201		1235	No Flare Patrol															
					24	1300		1417	No Flare Patrol															
					25	0402		0413	No Flare Patrol															
					25	0435		0519	No Flare Patrol															
0364	HTPR	25	1257	1259	1306	S14	E64	4296	08	30.4	9	SB					20	.4						
						S13	E62	4296	08	30.2	14	SB			C	1259	20	.4						
						S14	E65	4296	08	30.4	3	SB			3	C	19							
0365	HOLL	25	1259	1259	1302	S12	E72	4295	08	31.0	11	SB					24	.7						
						S12	E73	4295	08	31.0	14	SN			1	C	17							
						S11	E71	4295	08	30.9	8D	SB			2	V	1301	32	.7					
							25	2016		2030	No Flare Patrol													
							25	2045		2105	No Flare Patrol													
	25	2201		2213	No Flare Patrol																			
	25	2245		2303	No Flare Patrol																			
	26	0258		0302	No Flare Patrol																			
0366	HTPR	26	0809	0809	0815	S22	E46	4296	08	29.9	6	SF			C	0809	20	.3						
0367	HOLL	26	2131	2133	2148	S11	E38	4293	08	29.7	17	SF			3	C	32							
0368	CULG	26	2234E	2234U	2258	S11	E40	4296A	08	29.9	24D	SN			P	2234	150	1.9	F					
0369	CULG	27	0040E	0040U	0047	S11	W08	4289	08	26.4	7D	SF			P	0040	40	.4						
							27	0058		0105	No Flare Patrol													
							27	0111		0114	No Flare Patrol													
0370	MANI	27	0120	0125	0128	S11	W08	4289	08	26.4	8	SF					26	.3	EF					
						S11	W08	4289	08	26.4	8	SF			1	V	25	.3						
						S11	W09	4289	08	26.4	9	SN			3	C	30		FE					
						S11	W08	4289	08	26.4	7	SF			3	C	23							
0371	CATA	27	0735	0744*	0839	S10	E33	4296A	08	29.8	64	1B	C	2.2			257	3.4	FG					
						S11	E32	4296A	08	29.7	70	1		2	C	0805	337	4.3						
						S10	E31	4296A	08	29.6	49	1N	C	2.2	3	C	243		F					
						S09	E35	4296A	08	29.9	37D	1B	C	2.2	3	V	0746	223	2.9					
						S11	E35	4296A	08	29.9	54	1B	C	2.2		C	0746	250						
						S11	E33	4296A	08	29.8	30D	1B	C	2.2		C	0744	234	3.1	G				
						S10	E33	4296A	08	29.8	65D	1N	C	2.2	2									
0372	LEAR	27	0856	0856	0859	S10	W14	4289	08	26.3	8	SF					32							
						S10	W14	4289	08	26.3	3	SF			3	C	32							
						S10	W13	4289	08	26.4	4	SF			2									
							27	1406		1411	No Flare Patrol													
	27	1656		1703	No Flare Patrol																			
	27	1906		1932	No Flare Patrol																			
	27	2059		2109	No Flare Patrol																			
0373	VORO	27	2114E	2116	2122	S18	E31	4296	08	30.2	8D	SN					80	1.2	DJ					
						S18	E30	4296	08	30.2	4D	SB			C	2116	90	1.2	DJ					
						S17	E32	4296	08	30.3	9D	SF			3	C	70							

38  
Aug 83

H - ALPHA SOLAR FLARES

AUGUST 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF Region	CMP Mo Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks	
													Time (UT)	Apparent (10 <sup>-6</sup> Disk)		Corr (St Deg)
			28 0315		0328	No Flare Patrol										
0374		28	07133	07178	0746	S11 E19 4296A	08 29.7	35	1N					260	3.0	G
	BUCA	28	0713	0717	0750	S11 E20 4296A	08 29.8	37	1N			C	0717	376	4.3	
	CATA	28	0715	0725	0740D	S12 E18 4296A	08 29.6	25D	1		2	P	0725	281	3.2	
	PURP	28	0716	0722	0746	S11 E18 4296A	08 29.6	30	SF			C	0722	124	1.4	G
0375	A:THN	28	0731	0733	0742	S16 E23 4296	08 30.0	11	SN		3	V	0733	64	.8	
0376	KHAR	28	0800E		0808D	S11 W26 4289	08 26.4	8D	SF			P	0802			
0377	HOLL	28	1610	1614	1625D	S10 W28 4289	08 26.6	15D	SF		4	C		23		F
			28 1917		1927	No Flare Patrol										
0378		29	0037*	0055*	0150	S12 W33 4289	08 26.5	73	SN	C 2.9				138	1.8	EFKLM
	PEKG	29	0037	0056	0140	S12 W34 4289	08 26.5	63	SF			C	0056	118	1.6	EK
	PEKG	29	0037	0115	0140	S12 W34 4289	08 26.5	63	1F			C	0115	176	2.4	U
	PURP	29	0039	0100	0208	S13 W32 4289	08 26.6	89	SB			C	0100	113	1.5	
	CULG	29	0051	0055	0135	S13 W34 4289	08 26.5	44	SN			C	0055	140	1.7	FW
	HOLL	29	0051	0056	0059D	S10 W32 4289	08 26.6	8D	SN		3	C		79		F
	LEAR	29	0051	0115	0203	S12 W33 4289	08 26.5	72	SN	C 2.9	3	C		169		F
	PALE	29	0053E	0115U	0151	S12 W33 4289	08 26.5	58D	SN	C 2.9	3	C		175		UF
0379		29	04481	04504	0501	S20 E22 4300	08 30.9	13	1N					120	2.1	FHU
	CULG	29	0448	0450	0504	S20 E23 4300	08 30.9	16	1N			C	0450	180	2.1	H
	LEAR	29	0449	0454	0458	S20 E22 4300	08 30.9	9	SF		3	C		59		UF
0380		29	09151	09251	0950	S09 E04 4293	08 29.7	35	SF					86	.9	EH
	CATA	29	0915	0925	0950	S09 E04 4293	08 29.7	35	S		2	C	0925	112	1.2	
	KHAR	29	0916	0926	0950D	S09 E05 4293	08 29.8	34D	SF			P	0926	60	.6	EH
	KHAR	29	0957E		1012D	S09 E04 4293	08 29.7	15D	SF			P				EH
			29 1559		1611	No Flare Patrol										
			29 2007		2030	No Flare Patrol										
			29 2034		2037	No Flare Patrol										
0381	LEAR	30	0232	0237	0309	S12 W01 4293	08 30.0	37	SF		3	C		48		
0382	H:TPR	30	0903	0916	0945	S10 W88	08 23.8	42	SF			C	0916	10		
0383	H:TPR	30	1607	1609	1620	S10 W35 4302	08 28.0	13	SF			C	1609	10	.1	
			30 1843		1853	No Flare Patrol										
0384		30	1918	1926*	2048D	S10 W15 4293	08 29.7	90D	SN					66		FK
	HOLL	30	1918	1926	2048D	S10 W15 4293	08 29.7	90D	SF		2	C		36		K
	HOLL	30	1918	1938	2048D	S10 W15 4293	08 29.7	90D	SN		2	C		95		FK
0385	HOLL	30	1926	1926	1935	S10 W56 4289	08 26.6	9	SF		3	C		16		
0386		30	19405	19471	1959	S13 W10 4296	08 30.1	19	SF	C 1.8				57		
	PALE	30	1940	1947	1957	S12 W13 4296	08 29.8	17	SF		3	C		114		
	HOLL	30	1944	1948	2048D	S12 W09 4296	08 30.1	64D	SF	C 1.8	2	C		27		
	PALE	30	1945	1948	2001	S16 W09 4296	08 30.1	16	SF	C 1.8	3	C		29		
			30 2011		2124	No Flare Patrol										
0387	PURP	31	0242E	0248	0251	S04 W08 4293	08 30.5	9D	SF			P	0248	48	.5	G
0388	CULG	31	0309	0312	0320	S07 W11 4293	08 30.3	11	SF			C	0312	170	1.7	F
0389	CULG	31	0328	0332	0355	S10 W47 4302	08 27.6	27	SF			C	0332	120	1.8	F
0390	CULG	31	0518	0519	0523	S15 W66 4289	08 26.2	5	SF			C	0519	20		
0391	H:TPR	31	0841	0847	0853	S10 W23 4293	08 29.6	12	SF			C	0847	20	.2	

H - ALPHA SOLAR FLARES

39  
Aug 83

AUGUST 1983

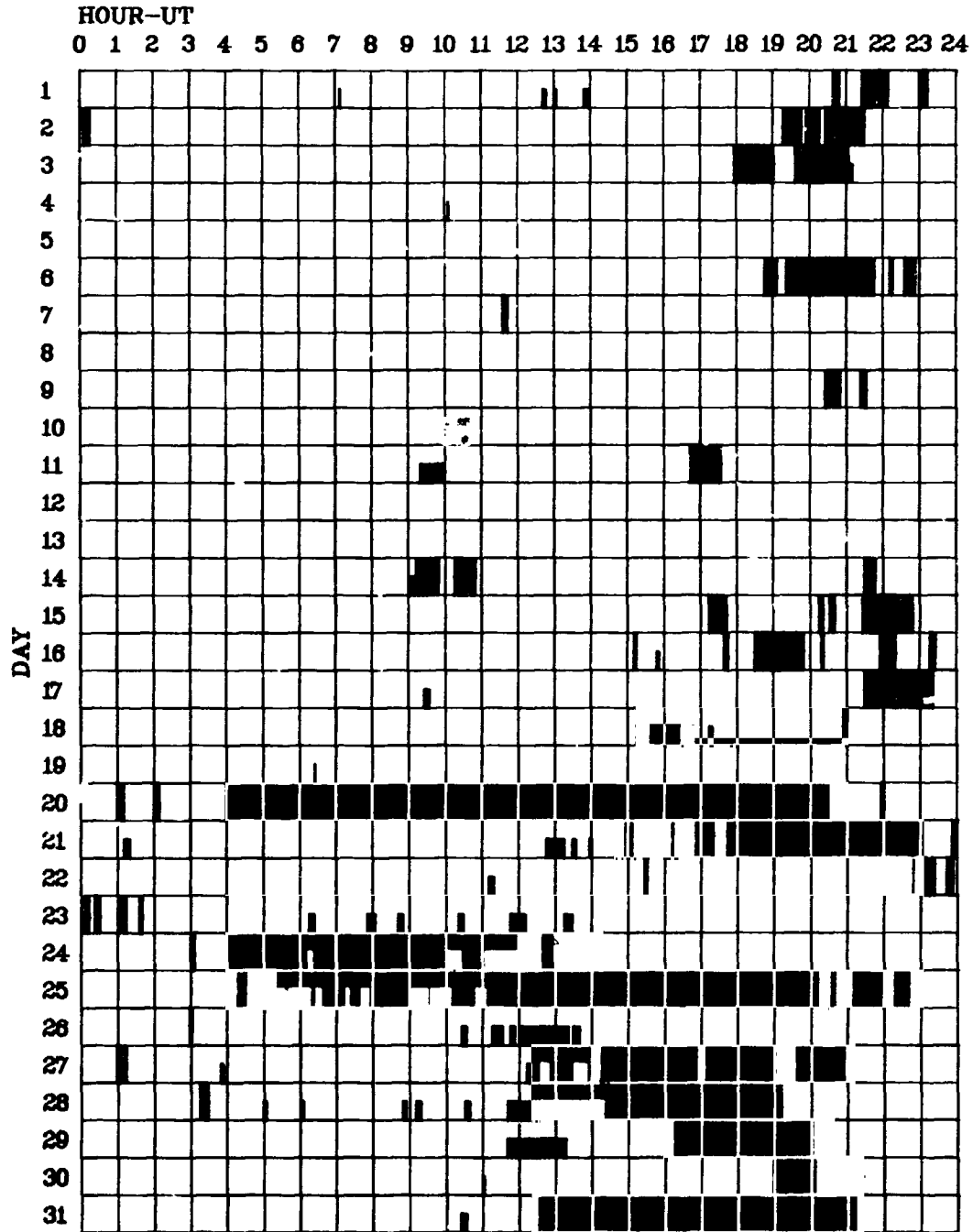
Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP Mc	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)	
0392	HTPR	31	0858	0902	0910	S11	W18	4293	08	30.0	12	SF		C		0902	30	.3	E
0393	KHAR	31	1036E		1055D	S09	W52	4302	08	27.5	19D	SF		V		1041			DH
			31 1222		1228			No Flare Patrol											
0394	HTPR	31	1457		1521D	S08	W52	4302	08	27.7	24D	SF		C		1507	10	.2	
			31 2117		2123			No Flare Patrol											
0395	PALE	31	2135	2136	2143	S09	W58	4302	08	27.5	8	SF		3	C			31	

"Remarks":

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

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

AUGUST 1983



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 | Mitaka      | Ramey       |
| Athens     | Haute Provence | Kharkov     | Monte Mario | Tashkent    |
| Bucharest  | Holloman       | Learmonth   | Palehua     | Voroshilov  |
| Catania    | Istanbul       | Lvov        | Peking      | Wendelstein |
|            | Kandilli       | Manila      | Purple Mt.  | Yunnan      |

H - ALPHA SOLAR FLARES

41  
Sep 83

SEPTEMBER 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	C <sub>MJ</sub>	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt Xray	Obs See	Type	Area Measurement			Remarks		
															Time (UT)	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)			
0001		01	01081	0109	0116	S08	W58	4302	08	27.8	8	SF				28				
	PALE	01	0108	0109	0118	S09	W58	4302	08	27.8	10	SF	3	C		30				
	LEAR	01	0109	0109	0114	S08	W58	4302	08	27.8	5	SF	3	C		27				
0002	LEAR	01	0131	0132	0141	S08	W58	4302	08	27.8	10	SF	3	C		21				
0003	PALE	01	0147	0152	0222	S10	W59	4302	08	27.7	35	SF	3	C		68			F	
0004	LEAR	01	0242	0248	0251	S10	W61	4302	08	27.6	9	SF	3	C		15			EF	
0005		01	03241	03251	0338	N07	E34	4304	09	3.7	14	SN				38	.6		F	
	CULG	01	0324	0326	0341	N09	E34	4304	09	3.7	17	SN			0326	60	.7			
	LEAR	01	0325	0325	0334	N07	E33	4304	09	3.6	9	SF	3	C		19			F	
	PURP	01	0327E	0327U	0329D	N06	E34	4304	09	3.7	2D	SN			0327	34	.4			
0006		01	0623E	0636	0901D	S09	W64	4302	08	27.6	158D	1F				115	2.6		DE	
	ABST	01	0623E	0636	0653D	S09	W63	4302	08	27.6	30D	1N			P	0636	105		D	
	HTPR	01	0625E		0741D	S09	W65	4302	08	27.5	76D	1F			C	0629	120	2.6	E	
	HTPR	01	0746E		0901D	S09	W65	4302	08	27.5	75D	1F			C	0830	120	2.6	E	
0007	RAMY	01	1320	1333	1336	S09	W65	4302	08	27.8	16	SF	3	C		12				
0008	RAMY	01	1408	1416	1427	S10	W65	4302	08	27.8	19	SF	3	C		23				
0009	HOLL	01	1659E	1705	1723D	S07	W68	4302	08	27.7	24D	SN	3	C		80				
0010	RAMY	01	1753	1800	1807	S09	W67	4302	08	27.8	14	SF	3	C		13				
		01	2057		2111	No Flare Patrol														
0011	LEAR	02	0409	0409	0412	S09	W74	4302	08	27.7	3	SF	3	C		11				
0012	ABST	02	0424E	0425	0503D	S08	W74	4302	08	27.7	39D	1F			P	0425	87		D	
0013	HTPR	02	0620	0629	0650	S07	W76	4302	08	27.7	30	SF			C	0629	20			
0014	HTPR	02	0709	0715	0740	S07	W73	4302	08	27.9	31	SF			C	0715	20			
0015	HTPR	02	1110	1113	1125	S10	E73	4305	09	7.9	15	SF			C	1113	10			
0016	HTPR	02	1138	1149	1211	S10	E73	4305	09	8.0	33	SF			C	1149	20			
0017	HTPR	02	1208	1216	1218	S10	E53	4303	09	6.5	10	SF			C	1216	10	.2		
0018	HTPR	02	1213	1214	1220	N10	E27	4304	09	4.5	7	SF			C	1214	20	.2	E	
0019	HTPR	02	1217	1225	1231	S07	W76	4302	08	27.9	14	SF			C	1225	20			
0020	HTPR	02	1538	1543	1549	S07	W78	4302	08	27.9	11	SF			C	1543	10			
0021		02	1605	1607	1616	S06	W78	4302	08	27.9	11	SB	C 6.0			57				
	RAMY	02	1605	1607	1613	S06	W75	4302	08	28.1	8	SN	C 6.0	2	C	34				
	HOLL	02	1605	1607	1617	S05	W78	4302	08	27.9	12	SB	C 6.0	4	C	68				
	HTPR	02	1605	1607	1618	S07	W80	4302	08	27.8	13	SB			C	1607	70			
0022	HOLL	02	2001	2002	2008	S11	E71	4305	09	8.2	7	SF	3	C		13				
0023	CULG	02	2147	2243	2345	S08	E37	4303	09	5.7	118	1B			C	2243	200	2.6	EU	
0024	HOLL	02	2233	2246	2321	S11	E70	4305	09	8.2	48	SN	3	C		42				
0025	HOLL	02	2255	2257	2313	S08	W83	4302	08	27.8	18	1N M 2.0	3	C		68				
0026	HOLL	03	0003	0004	0007	S12	E74	4305	09	8.6	4	SF	3	C		31				
0027	CULG	03	0501E	0502U	0508	N08	E05	4304	09	3.6	7D	SF			P	0502	40	.4		
0028		03	08025	08044	0813	S12	E65	4305	09	8.2	11	SN	C 1.1			74	2.6		DEFH	
	PURP	03	0802E	0804	0804D	S10	E65	4305	09	8.2	2D	1N	C 11.0		P	0804	72			
	LEAR	03	0802	0806	0813	S11	E64	4305	09	8.1	11	SF	C 1.1	3	C	44			FH	
	HTPR	03	0802	0807	0813	S11	E61	4305	09	7.9	11	1B			C	0807	130	2.6	E	
	MONT	03	0803	0808	0813	S12	E68	4305	09	8.4	10	SF			C	0808	50		D	
	KHAR	03	0804E	0807	0817D	S13	E67	4305	09	8.4	13D	SN			V	0805			H	
	ISTA	03	0807		0812	S13	E67	4305	09	8.4	5	SF							D	

## H - ALPHA SOLAR FLARES

SEPTEMBER 1983

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 <sup>-6</sup> Disk)	Corr (Sq Deg)		
0029	HTPR	03	1238	1240	1241	S11	E59	4305	09	8.0	3	SF			C	1240	50	1.0		
		03	1542		1546														No Flare Patrol	
0030		03	2230*	2235*	2407	S09	E37	4303	09	6.7	97	1N					188	2.6	EJSU	
	HOLL	03	2230	2235	2434	S09	E37	4303	09	6.7	124	SB			3	C	171		US	
	VORO	03	2235E		2320D	S09	E37	4303	09	6.7	45D	1N				C	2246	224	3.0	EJ
	PEKG	03	2330	2335	2340	S08	E36	4303	09	6.7	10	1F				C	2335	168	2.2	U
0031	HOLL	03	2343	2343	2359	S18	W57		08	30.7	16	SF			3	C		13		
		04	0159		0211														No Flare Patrol	
		04	0308		0309														No Flare Patrol	
0032		04	0349I	03523	0414	N10	E04	4304	09	4.4	25	SN					58	.9	EF	
	LEAR	04	0349	0352	0407	N10	E05	4304	09	4.5	18	SF			3	C	32		F	
	PEKG	04	0350	0355	0420	N10	E04	4304	09	4.5	30	SN				C	0355	84	.9	E
0033	PEKG	04	0452	0501	0525	N09	E04	4304	09	4.5	33	SF				C	0501	168	1.7	E
0034		04	05454	05504	0619	N10	E03	4304	09	4.5	34	SF					96	1.2	DEF	
	PEKG	04	0545	0554	0635	N10	E03	4304	09	4.5	50	SN				C	0554	84	.9	E
	LEAR	04	0549	0550	0603	N10	E03	4304	09	4.5	14	SF			3	C	44		F	
	CATA	04	0550E	0550	0600D	N09	E03	4304	09	4.5	10D	S			2	P	0550	169	1.7	
	ABST	04	0551E	0552	0613D	N10	E04	4304	09	4.5	22D	SF				P	0552	87	.9	D
0035	KHAR	04	0945E		1020D	N09	E00	4304	09	4.4	35D	SN				V	0947			E
0036	HOLL	04	1408	1414	1420	N14	E16	4301	09	5.8	20	SF			3	C		42		
0037	HOLL	04	1815	1818	1822	N11	W02	4304	09	4.6	7	SF			3	C		30		F
0038	HOLL	04	1838	1839	1858	N11	W03	4304	09	4.5	20	SF			3	C		30		F
0039		04	1859	1909	1914	N10	W03	4304	09	4.6	15	SN					46			
	HOLL	04	1859	1909	1913	N11	W03	4304	09	4.6	14	SN			3	C	45			
	PALE	04	1904E	1909	1914	N10	W03	4304	09	4.6	10D	SF			3	C	48			
0040	HOLL	04	2049	2051	2057	N11	W04	4304	09	4.6	8	SB			3	C		45		
0041	HOLL	04	2111	2112	2123	N11	W06	4304	09	4.4	12	SN			3	C		35		F
0042	HOLL	04	2136	2139	2145	N11	W04	4304	09	4.6	9	SN			3	C		33		F
		04	2317		2322														No Flare Patrol	
		05	0300		0306														No Flare Patrol	
0043	PURP	05	0305E	0305	0305D	N09	W07	4304	09	4.6	9D	SB				P	0305	90	.9	
0044	LEAR	05	0611	0612	0622	N09	W08	4304	09	4.6	11	SF			3	C		46		E
0045	ABST	05	0726E	0726	0740D	N08	W12	4304	09	4.4	14D	1F				P	0740	279	2.9	F
0046	KHAR	05	0744E		0809D	S16	W77		08	30.6	25D	SF				C	0748			D
0047	KHAR	05	0803E		0812D	S11	E39	4305	09	8.3	9D	SF				V	0805			
0048		05	08228	0823*	0832	N08	W11	4304	09	4.5	10	SF					17	.2	DEKL	
	LEAR	05	0822	0823	0826	N10	W11	4304	09	4.5	4	SF			3	C	22		E	
	KHAR	05	0826E	0832	0842D	N07	W12	4304	09	4.4	16D	SN				P	0832	20	.2	EKL
	KANZ	05	0830	0834	0838	N09	W10	4304	09	4.6	8	SF			2					
	KHAR	05	0902E	0906	0909D	N07	W12	4304	09	4.5	7D	SF				P	0906	10	.1	D
0049		05	1009E	10305	1109D	N12	E00	4301	09	5.4	60D	1N					188	2.1	EK	
	KHAR	05	1009E	1030	1109D	N12	E03	4301	09	5.6	60D	1N				P	1032	180	2.2	EK
	CATA	05	1025E	1035	1040D	N11	W03	4301	09	5.2	15D	1			2	P	1035	197	2.0	
0050	KHAR	05	1009E	1009	1016D	N08	W14	4304	09	4.4	7D	SF				P	1009	10	.1	

H - ALPHA SOLAR FLARES

43  
Sep 83

SEPTEMBER 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)	
0051	KHAR	05	1102E	1102	1106D	N09	W14	4304	09	4.4	4D	SF			P	1102	10	.1	
0052		05	11064	1110*	1143	N13	E04	4301	09	5.8	37	SF					93		
	KANZ	05	1106	1110	1145	N15	E06	4301	09	5.9	39	SF		2					
	KANZ	05	1110	1122	1153	N12	E02	4301	09	5.6	43	SF		2					
	RAMY	05	1113E	1120U	1130	N13	E04	4301	09	5.8	17D	SF		3	C		93		
0053	RAMY	05	1342	1352	1405	S07	E62	4307	09	10.2	23	SF		3	C		21		
0054	KANZ	05	1541			S18	W77		08	30.9		SB		2					
		05	1542		1555	No Flare Patrol													
0055	RAMY	05	1814	1827	1835	N10	W17	4304	09	4.5	21	SF		3	C		26		F
		05	1950		2005	No Flare Patrol													
0056	PALE	05	2007	2009	2020	S22	W81		08	30.7	13	SN	C	5.0	3	C		95	
0057	PALE	05	2017	2022U	2023D	N10	W17	4304	09	4.6	6D	SF-		3	C		45		F
		05	2024		2027	No Flare Patrol													
		05	2103		2119	No Flare Patrol													
		05	2129		2144	No Flare Patrol													
0058	CULG	05	2214	2215	2218	S10	E32	4305	09	8.3	4	SF			C	2215	40	.4	F
0059	HOLL	05	2230	2239	2255	N08	W18	4304	09	4.6	25	SF		3	C		44		
0060	CULG	06	0109	0114	0120	N07	W21	4304	09	4.5	11	SN			C	0114	110	1.1	FJ
0061		06	0535	0538A	0550	N06	W23	4304	09	4.5	15	SN					60	.6	EF
	CULG	06	0535	0538	0551	N06	W23	4304	09	4.5	16	SN			C	0538	60	.6	F
	PEKG	06	0536E	0542	0550	N06	W23	4304	09	4.5	14D	SN			C	0542	59	.6	E
0062	BUCA	06	0625		0635	N10	W24	4304	09	4.5	10	SF			P	0630	43	.5	D
0063		06	1041	1046A	1101	N06	W25	4304	09	4.6	20	SF					38	.4	EL
	CATA	06	1040E	1050	1145D	N06	W25	4304	09	4.6	65D	S		1	P	1050	84	1.0	
	HTPR	06	1041	1046	1101	N07	W24	4304	09	4.6	20	SF			C	1046	10	.1	
	KHAR	06	1044E	1047	1100D	N05	W26	4304	09	4.5	16D	SF			P	1047	20	.2	EL
0064		06	1221*	1224*	1256	N06	W25	4304	09	4.6	35	SF					10	.1	
	HTPR	06	1221	1224	1232	N07	W25	4304	09	4.6	11	SF			C	1224	10	.1	
	HTPR	06	1239	1241	1307	N05	W26	4304	09	4.6	28	SN			C	1241	10	.1	
	HTPR	06	1241	1242	1308	N07	W25	4304	09	4.6	27	SF			C	1242	10	.1	
0065	HTPR	06	1323	1327	1340	N07	W25	4304	09	4.7	17	SN			C	1327	20	.2	
0066	HTPR	06	1608	1610	1616	S10	E23	4305	09	8.4	8	SB			C	1610	40	.4	E
0067	ABST	07	0515	0517	0521	N13	W33	4304	09	4.7	6	SF			C	0517	87	1.1	D
0068	ABST	07	0542E	0544	0613D	N10	W38	4304	09	4.4	31D	SF			P	0544	87	1.1	D
0069	ISTA	07	0605		0615	S10	E08	4305	09	7.8	10	SN							CF
0070	HTPR	07	1137	1140	1207	N07	W39	4304	09	4.6	30	SF			C	1140	30	.4	E
0071	HTPR	07	1216	1222	1233	N07	W39	4304	09	4.6	17	SF			C	1222	10	.1	
0072	RAMY	07	1311	1311	1324	N08	W42	4304	09	4.4	13	SF		3	C		30		
0073		07	14097	14296	1504	N08	W40	4304	09	4.6	35	SN					68	.8	E
	RAMY	07	1409	1435	1508	N08	W40	4304	09	4.6	39	SF		3	C		75		
	HTPR	07	1416	1429	1500	N08	W41	4304	09	4.5	44	SN			C	1429	60	.8	E
		07	1702		1711	No Flare Patrol													

H - ALPHA SOLAR FLARES

SEPTEMBER 1983

Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF Region	OMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
0074		07	1738	1742	1754	N07	W43	4304	09	4.5	16	SN						74		F
	RAMY	07	1738	1742	1751	N08	W43	4304	09	4.5	13	SN		3	C			52		
	PALE	07	1738	1742	1757	N06	W43	4304	09	4.5	19	SN		3	C			95		F
		07	1807		1818	No Flare Patrol														
		07	1932		1936	No Flare Patrol														
		07	1944		1954	No Flare Patrol														
		07	2030		2034	No Flare Patrol														
	07	2120		2235	No Flare Patrol															
0075	VORO	07	2256E		2310D	S12	E26	4307	09	9.9	14D	SF			P	2258	45	.5	DJ	
		07	2313		2327	No Flare Patrol														
0076	LEAR	08	0329	0331	0338	N09	W50	4304	09	4.4	9	SN		3	C			55		F
0077	LEAR	08	0427	0431	0456	S11	E25	4307	09	10.1	29	SF		3	C			86		FS
0078		08	0609*	0611*	0705	S10	W22		09	6.6	56	SN						154	1.8	EFSU
	CULG	08	0609E	0611	0644	S11	W23		09	6.5	35D	1N			P	0611	200	2.2	SF	
	LEAR	08	0609	0611	0653	S10	W21		09	6.7	44	SN		3	C			122		U
	HTPR	08	0622	0644	0723	S10	W23		09	6.5	61	SF			C	0644	120	1.3	EU	
	CATA	08	0630E	0635	0650D	S11	W23		09	6.5	20D	1		2	P	0635	281	3.3		
	HTPR	08	0714	0714	0719	S10	W23		09	6.6	5	SF			C	0714	50	.5	E	
0079	HTPR	08	0932	0936	0945	S15	W23		09	6.6	13	SF			C	0936	40	.4		
0080	HTPR	08	1305	1307	1320	N08	W57	4304	09	4.3	15	SF			C	1307	10	.2		
0081	LEAR	09	0630	0632	0638	N11	W63	4304	09	4.5	8	SF		3	C			30		
0082	HTPR	09	1147E		1157D	N06	W14	4311	09	8.4	10D	SF			C	1156	20	.2	E	
0083	HTPR	09	1231E		1238D	N06	W14	4311	09	8.5	7D	SF			C	1235	20	.2	E	
0084	HTPR	09	1343E		1556D	N06	W15	4311	09	8.4	133D	SN			C	1532	40	.4	E	
																				09
0035		09	2259*	23104	2327	N19	E11	4308	09	10.8	28	SF						138	2.6	FS
	CULG	09	2259	2310	2326	N19	E12	4308	09	10.9	27	1N			P	2310	250	2.6	SF	
	HOLL	09	2307	2313	2329	N18	E08	4308	09	10.6	22	SF		3	C			139		F
	PALE	09	2313	2314	2326	N19	E14	4308	09	11.0	13	SF		3	C			26		F
0086		10	02136	0221	0232	S12	E02	4307	09	10.2	19	SF						92	1.4	FU
	CULG	10	0213	0219U	0231D	S13	E01	4307	09	10.2	18D	SN			P	0219	130	1.4	F	
	PALE	10	0213	0222U	0233	S13	E02	4307	09	10.2	20	SF		3	C			52		F
	LEAR	10	0219	0221	0232	S10	E02	4307	09	10.2	13	SF		3	C			94		UF
0087	BUCA	10	0705		0725	S20	E09	4310	09	11.0	20	SN			P	0710	161	1.9	E	
0088		10	0745	0750	0836	S20	E09	4310	09	11.0	51	1N						138	1.6	EI
	CATA	10	0745	0750	0840D	S17	E09	4310	09	11.0	55D	1		2	P	0750	197	2.2		
	HTPR	10	0802E		0836	S23	E09	4310	09	11.0	34D	SN			C	0813	80	.9	EI	
0089		10	1045	1100	1210	S23	E10	4310	09	11.2	85	SF						81	1.0	E
	CATA	10	1045	1100	1145D	S23	E10	4310	09	11.2	60D	S		2	P	1100	112	1.4		
	HTPR	10	1122E		1210	S23	E09	4310	09	11.2	48D	SF			C	1131	50	.5	E	
0090	PALE	10	2050	2102	2121	N03	E19	4313	09	12.3	31	SN	C 1.0	3	C			61		F
0091		11	07196	07219	0746	N04	E13	4313	09	12.3	27	SN						102	1.2	CEFU
	YUNN	11	0719	0724	0743	N04	E14	4313	09	12.3	24	SB						113	1.2	
	ISTA	11	0720		0732	N05	E13	4313	09	12.3	12	1F				0722				C
	BUCA	11	0720	0725U	0744	N04	E12	4313	09	12.2	24	SN			C	0725	107	1.1	E	
	LEAR	11	0721	0721	0739	N02	E14	4313	09	12.3	18	SF		3	C			53		F
	PEKG	11	0721	0726	0755	N04	E13	4313	09	12.3	34	SF			C	0726	71	.3	EU	
	CATA	11	0725	0730	0805	N03	E13	4313	09	12.3	40	S		2	C	0730	169	1.8		



H - ALPHA SOLAR FLARES

45  
Sep 83

SEPTEMBER 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
								USAF Region								Mo Day	Apparent (10 <sup>-6</sup> Disk)	
0092	HOLL	11	1632	1637	1646	S09	W45	4305	09	8.3	14	SF	3	C		16		
0093	HOLL	11	1701	1702	1711	S09	W47	4305	09	8.2	10	SF	3	C		21		
0094	HOLL	11	2058	2059	2108	S11	W24	4307	09	10.1	10	SF	3	C		35		F
0095	HOLL	11	2335	2337	2356	S10	W51	4305	09	8.1	21	SF	3	C		37		
0096	KHAR	12	0932E	0932	0940D	S06	W33	4307A	09	9.9	8D	SF		V	0932			D
0097	KHAR	12	1015E	1016	1021D	S10	W55	4305	09	8.3	6D	SF		V	1016			D
0098	KHAR	12	1040E	1041	1053D	N12	E45	4320A	09	15.8	13D	SF		V	1040			D
0099		12	1611	1626	1814	S11	W30	4307	09	10.4	123	2N M 1.0				600		F
	HOLL	12	1611	1626	1808	S11	W29	4307	09	10.5	117	2N M 1.0	3	C		662		F
	RAMY	12	1611	1627	1819	S11	W30	4307	09	10.4	128	2N M 1.0	3	C		539		F
0100	HOLL	12	1619	1626	1824	S05	W44	4307A	09	9.4	125	SN	3	C		147		F
0101	PALE	12	1722E	1728U	1753	S12	W30	4307	09	10.5	31D	SF	3	C		46		F
0102		12	1728	1743	1755	S08	W46	4307	09	9.3	27	SF				96		
	PALE	12	1722E	1729U	1755	S08	W47	4307	09	9.2	33D	SF	3	C		35		
	RAMY	12	1728	1743	1755	S08	W46	4307	09	9.3	27	SF	3	C		158		
		12	2039		2103	No Flare Patrol												
0103	CULG	12	2328	2334	2336	S08	W34	4307	09	10.4	8	SN		C	2334	30	.4	H
0104	PALE	13	0143	0144	0154	S24	W23	4310	09	11.3	11	SF	3	C		30		
0105	ABST	13	0403E	0403	0427	S23	W27	4310	09	11.1	24D	SF		P	0403	87	1.1	D
0106	HTPR	13	0640	0650	0705	S14	E47	4317	09	16.8	25	SF		C	0656	20	.3	K
0107	ISTA	13	0700E		0820	S24	W22	4310	09	11.6	80D	1N						BU
0108	HTPR	13	0714	0724	0738	S14	E47	4317	09	16.8	24	SF		C	0724	20	.3	
0109		13	0807	0810	0813	S08	W38	4307	09	10.5	6	SN				25	.4	E
	KHAR	13	0750E		0850D	S08	W38	4307	09	10.5	60D	SN		P	0844	30	.4	E
	HTPR	13	0807	0810	0813	S08	W38	4307	09	10.5	6	SF		C	0810	20	.3	E
0110	CATA	13	0805	0810	0815	N03	W38	4307A	09	10.5	10	S	2	C	0810	56	.7	
0111	HTPR	13	0827	0831	0844	S08	W38	4307	09	10.5	17	SF		C	0831	10		
0112		13	0851	0844*	0859	S13	E45	4317	09	16.8	8	SF				15	.2	D
	KHAR	13	0844E	0844	0900D	S13	E44	4317	09	16.7	16D	SF		P	0844	10	.2	D
	HTPR	13	0851	0854	0859	S14	E48	4317	09	17.0	8	SN		C	0854	20	.3	
	KHAR	13	0911E	0914	0918D	S13	E44	4317	09	16.7	7D	SF		P				D
0113	HTPR	13	0942	0944	0947	S14	E48	4317	09	17.0	5	SF		C	0944	20	.3	
0114	HTPR	13	1048	1048	1053	S24	W30	4310	09	11.1	5	SF		C	1048	20	.2	
0115		13	11119	11146	1125	S14	E46	4317	09	16.9	14	SN				53	.8	E
	HTPR	13	1111	1114	1127	S14	E47	4317	09	17.0	16	SN		C	1114	50	.6	E
	KANZ	13	1116	1116	1119	S14	E45	4317	09	16.9	3	SF						
	CATA	13	1120	1120	1130	S15	E46	4317	09	16.9	10	S	1	C	1120	56	.9	
0116	HTPR	13	1136	1140	1155	S14	E47	4317	09	17.0	19	SN		C	1140	30	.4	E
0117	HTPR	13	1303	1306	1322	S14	E46	4317	09	17.0	19	SN		C	1306	20	.3	
0118	HTPR	13	1317	1320	1334	S24	W31	4310	09	11.1	17	SF		C	1320	30	.3	E

H - ALPHA SOLAR FLARES

SEPTEMBER 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Area Measurement			Remarks		
								USAF/					Region	Mo	Day		Time (UT)	Apparent (10 <sup>-6</sup> Disk)
0119	HTPR	13	1412	1421	1432	S09	W40	4307	09	10.6	20	SF	C	1421	50	.7	E	
0120	HTPR	13	1548	1550	1558	S14	E45	4317	09	17.0	10	SN	C	1550	30	.4	E	
0121		13	16062	1610	1617	S24	W32	4310	09	11.2	11	SF			26	.2	EF	
	RAMY	13	1606	1610	1620	S23	W33	4310	09	11.1	14	SF	3	C	31		F	
	HTPR	13	1608	1610	1614	S24	W32	4310	09	11.2	6	SF	C	1610	20	.2	E	
		13	1715		1724	No Flare Patrol												
0122		13	1802	1803	1824	S22	W34	4310	09	11.1	22	SF			48			
	PALE	13	1802	1803	1813	S24	W33	4310	09	11.2	11	SF	3	C	67			
	HOLL	13	1822E	1822U	1836	S21	W35	4310	09	11.1	14D	SF	2	C	30			
0123	HOLL	13	2231E	2232U	2253	S10	W46	4307	09	10.5	22D	SF	2	C	82		F	
		13	2318		2322	No Flare Patrol												
0124		14	0335A	0341I	0358	S23	W40	4310	09	11.1	23	SF			39	.6	EF	
	PEKG	14	0335	0342	0400	S23	W40	4310	09	11.1	25	SF	C	0342	55	.9	E	
	YUNN	14	0339E	0339U	0356D	S23	W41	4310	09	11.0	17D	SN	P	0339	16	.3	E	
	LEAR	14	0339	0341	0356	S23	W39	4310	09	11.1	17	SF	3	C	47		F	
0125	PEKG	14	0377	0403	0420	N09	W23	4314	09	12.4	23	SF	C	0403	63	.7	E	
0126		14	0436E	0437S	0450	S05	W50	4307A	09	10.4	14D	SF			68	1.2	DE	
	ABST	14	0436E	0437	0449	S05	W51	4307A	09	10.4	13D	SF	P	0437	87	1.5	D	
	PEKG	14	0442E	0442	0450	S05	W5	4307A	09	10.4	8D	SF	P	0442	50	.8	E	
0127	HTPR	14	0903	0912	0930	S06	W54	4307A	09	10.3	27	SF	C	0912	30	.5	E	
0128		14	0935I	09387	1002	S12	E32	4317	09	16.8	27	SB	C 1.8		57	.7	E	
	ATHN	14	0935	0938	1008	S11	E32	4317	09	16.8	33	SB	C 1.8	3	V	0938	64	.8
	WEND	14	0935	0940	0957	S12	E33	4317	09	16.9	22	SN	C 1.8	C	0940	37	.5	
	HTPR	14	0935	0940	1007	S14	E32	4317	09	16.8	32	SN	C	C	0940	70	.8	E
	KANZ	14	0936	0939	0955	S12	E33	4317	09	16.9	19	SN		2				
	CATA	14	0945E	0945	0945D	S13	E32	4317	09	16.8	19D	S	1	P	0945	56	.7	
0129	HTPR	14	1041	1045	1055	S23	W45	4310	09	11.0	14	SF	C	1045	30	.4	E	
0130		14	11058	1117	1139	S14	E77	4321	09	20.3	34	SN			30			
	HTPR	14	1105	1117	1145	S15	E74	4321	09	20.1	40	SB	C	1117	30			
	WEND	14	1112	1117	1134	S13	E7	4321	09	20.1	22	SF	C	1117	30			
	KANZ	14	1113	1117	1137	S14	E81	4321	09	20.6	24	SN		2				
0131	KANZ	14	1228	1228	1246	S20	W35	4310A	09	11.8	18	SF		2				
0132	ATHN	14	1229E	1233	1243	S04	W49	4307A	09	10.8	14D	SB	3	V	1233	48	.8	
0133	PURP	15	0054E	0055	0058D	S14	E23	4317	09	16.8	4D	SN	C	0055	27	.3	E	
0134		15	0451I	0452I	0512	S11	E21	4317	09	16.8	21	SB	C 2.4		125	1.6	EFHJ	
	ABST	15	0451E	0452	0512D	S11	E21	4317	09	16.8	21D	SN	P	0452	175	2.0	EHJ	
	CULG	15	0451	0453	0520	S12	E22	4317	09	16.8	29	SB	C	0453	120	1.3	EH	
	LEAR	15	0452	0453	0503	S11	E21	4317	09	16.8	11	SB	C 2.4	3	C	81		F
0135	ABST	15	0640	0649	0656	S13	E20	4317	09	16.8	10	SF	C	0649	131	1.5	DJ	
0136	KHAR	15	0755E	0755	0812D	S15	E18	4317	09	16.7	17D	SN	V	0755				
0137		15	0945*	1000*	1021	S14	E18	4317	09	16.8	36	SN			112	1.3	EH	
	CATA	15	0945	1000	1000D	S14	E18	4317	09	16.8	15D	S	2	P	1000	112	1.3	
	KHAR	15	1013E	1015	1028D	S14	E17	4317	09	16.7	15D	SN	V	1015			EH	
	KANZ	15	1017	1017	1021	S14	E19	4317	09	16.9	4	SF		2				
0138		15	1041	1044I	1049	S14	E18	4317	09	16.8	8	SB					EH	
	KANZ	15	1041	1045	1049	S14	E19	4317	09	16.9	8	SB		2			EH	
	KHAR	15	1043E	1044	1106D	S15	E17	4317	09	16.7	23D	SN	V	1044			EH	

H - ALPHA SOLAR FLARES

47  
Sep 83

SEPTEMBER 1983

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 <sup>-6</sup> Disk)	Apparent (Sq Deg)		Corr
0139		15	11114	1114*	1130	S15	E64	4321	09	20.3	19	SN						47	.9	DG
	WEND	15	11111	1114	1130	S12	E63	4321	09	20.2	19	SF			C	1114		38	.9	G
	KHAR	15	1113E	1115	1118D	S16	E67	4321	09	20.5	5D	SN			V	1115				D
	CATA	15	1115	1135	1140D	S17	E63	4321	09	20.2	250	S		1	P	1135		56		
0140		15	1115*	1128*	1154	S14	E18	4317	09	16.8	39	SN						89	1.0	
	CATA	15	1115	1130	1140D	S15	E17	4317	09	16.7	25D	S		1	P	1130		84	1.0	
	WEND	15	1123	1139	1152	S12	E17	4317	09	16.7	29	SF			C	1139		94	1.0	
	KANZ	15	1128	1128	1155	S14	E19	4317	09	16.9	27	SN		2						
0141		15	12473	12513	1301	S13	E18	4317	09	16.9	14	SN						88	1.0	
	WEND	15	1247	1251	130C	S12	E16	4317	09	16.7	13	SF			C	1251		88	1.0	
	KANZ	15	1250	1254	1302	S14	E19	4317	09	17.0	12	SN		2						
0142		15	14067	14125	1445	S12	E16	4317	09	16.8	39	SN	C 9.3					140	1.2	EF
	WEND	15	1406	1412	1430	S12	E15	4317	09	16.7	24	SN	C 9.3		C	1412		106	1.2	
	HOLL	15	1413E	1414U	1453	S13	E15	4317	09	16.7	40D	SB	C 9.3	3	C			195		F
	KANZ	15	1413	1417	1452	S11	E16	4317	09	16.8	39	1F		2						
	HTPR	15	1449E		1452D	S14	E16	4317	09	16.8	3D	SN			C	1450		120	1.2	E
0143	HOLL	15	1630E	1640	1712	S07	W56	4315	09	11.5	42D	SF		3	C			51		SU
0144		15	1651	1702*	1726	S14	E15	4317	09	16.8	35	SN	C 1.2					35		FK
	HOLL	15	1651	1702	1726	S14	E15	4317	09	16.8	35	SF		3	C			43		K
	HOLL	15	1651	1719	1726	S14	E15	4317	09	16.8	35	SN	C 1.2	3	C			27		FK
		15	1813		1817	No Flare Patrol														
0145	CULG	15	2117	2120	2132	S12	E12	4317	09	16.8	15	SN			C	2120		100	1.1	
0146	ABST	16	0626	0629	0645	S11	E05	4317	09	16.6	19	SF			C	0629		87	.9	DK
0147	YUNN	16	0651	0659	0710	S12	E06	4317	09	16.7	19	SF			C			80	.9	T
0148	YUNN	16	0725E	0734	0738D	S12	E05	4317	09	16.7	13D	SN			P			80	.9	T
0149	LEAR	16	0805	0807	0816	S12	E06	4317	09	16.8	11	SF		3	C			31		
0150	YUNN	16	0906E	0906U	0936D	S12	E04	4317	09	16.7	30D	SN			P	0906		80	.9	T
0151	CATA	16	1140	1145	1145D	S15	E05	4317	09	16.9	5D	S		1	P	1145		112	1.2	
		16	1519		1525	No Flare Patrol														
0152	HOLL	16	1556	1605	1614	S12	E04	4317	09	17.0	18	SF		3	C			38		
0153	HOLL	16	1917	1920	1924	S08	E89	4319	09	23.5	7	SF		3	C			11		
		16	2017		2032	No Flare Patrol														
0154	PALE	16	2033E	2035U	2100	S12	W01	4317	09	16.8	27D	SF		3	C			90		
0155	LEAR	17	0249	0301	0309	S03	W68	4315	09	12.0	20	SF		3	C			27		F
0156		17	07046	07092	0716	S04	W72	4315	09	11.9	12	SF						12		D
	PEKG	17	0704	0709	0709D	S04	W74	4315	09	11.8	5D	SF			P	0709		13		D
	LEAR	17	0710	0711	0716	S04	W71	4315	09	12.0	6	SF		3	C			14		
	HTPR	17	0723E		0725D	S05	W72	4315	09	11.9	2D	SF			C	0724		10		
0157		17	0753	07553	0807	S13	W08	4317	09	16.7	14	SF						23	.3	E
	LEAR	17	0753	0755	0807	S13	W08	4317	09	16.7	14	SF		3	C			21		
	PEKG	17	0758E	0758	0758D	S13	W08	4317	09	16.7	14D	SF			P	0758		25	.3	E
0158		17	0759	07582	0804	S04	W73	4315	09	11.9	5	SF						14		D
	PEKG	17	0758E	0758	0758D	S04	W74	4315	09	11.8	5D	SF			P	0758		13		D
	LEAR	17	0759	0800	0804	S04	W72	4315	09	11.9	5	SF		3	C			16		
0159	HTPR	17	1322	1324	1331	S13	W10	4317	09	16.8	9	SF			C	1324		50	.5	E

H - ALPHA SOLAR FLARES

SEPTEMBER 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Time (UT)	Area Measurement		Remarks	
						Region	Cmd							Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
0160	HTPR	17	1420E	1430	1447D	N15	W27	09	15.5	27D	SF		C	1430	20	.2	E
0161		17	1552S	1556	1620	S13	W12	09	16.7	28	SN				28	.2	EF
	HTPR	17	1552		1600D	S13	W11	09	16.8	8D	SN		C	1554	20	.2	E
	HOLL	17	1555	1556	1620	S13	W12	09	16.7	25	SN	3	C		37		F
0162	HOLL	17	1713	1723	1745	S13	W13	09	16.7	32	SN	3	C		105		F
0163	HOLL	17	1842	1846	1850	S04	W82	09	11.6	8	SF	3	C		33		
0164		18	0137S	0138S	0151	N14	W65	09	13.1	14	SF				27	.3	
	CULG	18	0137	0139	0155	N11	W68	09	12.9	18	SF		C	0139	60		
	LEAR	18	0138	0138	0152	N15	W64	09	13.2	14	SF	3	C		18		
	MANI	18	0138	0140	0150	N15	W64	09	13.2	12	SF	1	V		15	.5	
	PALE	18	0140	0141	0148	N15	W64	09	13.2	8	SF	3	C		15		
0165	CATA	18	0855E	0855	0910D	S06	E68	09	23.5	15D	S	1	P	0855	56		
0166	CATA	18	1050	1100	1115	S05	W90	09	11.7	25	I	1	P	1100	56		
0167	ABST	19	0617	0618	0625	N15	W70	09	14.0	8	1N		C	0618	87		DV
0168	KANZ	19	1117	1121	1139	S07	E57	09	23.7	22	SF	2					
0169	KANZ	19	1346	1414	1457	N15	W85	09	13.1	71	SN	2					
0170	YUNN	20	0428E	0430	0435	S13	W47	09	16.6	7D	SN		P		32	.5	E
0171		20	0616Z	0619Z	0626	S14	W46	09	16.8	10	SN				57	.9	D
	ATHN	20	0616	0619	0631	S12	W42	09	17.1	15	SN	2	V	0619	64	1.0	
	CULG	20	0617	0619	0623	S16	W48	09	16.6	6	SF		C	0619	20	.3	
	ABST	20	0618	0620	0624	S15	W46	09	16.8	6	SN		C	0620	87	1.4	D
	KANZ	20	0618	0620	0625	S13	W46	09	16.8	7	SN	1					
0172		20	0728*	0731*	0747	S08	E38	09	23.2	19	SN				64	.8	ES
	LEAR	20	0728	0731	0748	S09	E39	09	23.2	20	SN	3	C		91		S
	HTPR	20	0728	0731	0801	S08	E37	09	23.1	33	SB		C	0731	30	.4	E
	CULG	20	0728	0733	0735	S07	E39	09	23.2	7	SF		C	0733	40	.5	
	ATHN	20	0738	0742	0745	S09	E39	09	23.2	7	SN	2	V	0742	95	1.4	
0173	KHAR	20	0748E	0750	0810D	S30	E90	09	27.4	22D	SF		V	0750			DH
0174		20	0757*	0804*	0836	S13	W49	09	16.6	39	SN				51	1.1	DEKT
	LEAR	20	0757	0805	0811	S13	W47	09	16.8	14	SF	3	C		23		
	KANZ	20	0757	0805	0812	S13	W48	09	16.7	15	SF	2					
	KHAR	20	0801E	0804	0814D	S11	W50	09	16.6	13D	SF		V	0804			D
	HTPR	20	0804	0811	0900	S13	W47	09	16.8	56	SF		C	0811	20	.3	EK
	YUNN	20	0809	0811	0814	S14	W50	09	16.6	5	SN		C		16	.3	DT
	KANZ	20	0820	0828	0855	S13	W48	09	16.7	35	SN	2					
	YUNN	20	0824	0834	0842	S15	W50	09	16.6	18	SN		C		64	1.1	ET
	LEAR	20	0828	0831	0842	S13	W51	09	16.5	14	SF	3	C		24		
	KANZ	20	0828	0832	0832	S13	W50	09	16.6	4	SN	2					
YUNN	20	0846	0850	0901	S14	W50	09	16.6	15	1N		C		161	2.8	T	
0175	HTPR	20	0953	1014	1048	S13	W01	09	20.3	55	SF		C	1014	10	.1	E
0176		20	1037E	1040Z	1055	S12	W48	09	16.8	18	SF				10	.1	D
	HTPR	20	1037	1040	1055	S13	W46	09	17.0	18	SN		C	1040	10	.1	
	KHAR	20	1043E	1045	1050D	S11	W50	09	16.7	7D	SF		V	1045			D
	KANZ	20	1043	1047	1055	S12	W48	09	16.8	12	SF	2					
0177	KHAR	20	1053E	1053	1106D	S30	E90	09	27.5	13D	1F		V	1053			
0178		20	1112Z	1115S	1135	S12	W02	09	20.3	23	SF				20	.2	E
	HTPR	20	1112	1115	1140	S13	W01	09	20.4	28	SF		C	1115	20	.2	E
	KANZ	20	1114	1118	1130	S11	W04	09	20.2	16	SF	2					
0179	HTPR	20	1124	1124	1128	S13	W47	09	16.9	4	SF		C	1124	10	.1	

H - ALPHA SOLAR FLARES

49  
Sep 83

SEPTEMBER 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
0180	KANZ	20	1206	1210	1217	S14	W50	4317	09	16.7	11	SN			2				
0181		20	12143	12183	1232	S13	W04	4321	09	20.2	18	SN				30	.3	E	
	HTPP	20	1214	1218	1230	S13	W02	4321	09	20.3	16	SN		C	1218	30	.3	E	
	KANZ	20	1217	1221	1233	S13	W05	4321	09	20.1	16	SN			2				
0182	HTPR	20	1332	1335	1343	S13	W48	4317	09	16.9	11	SF		C	1335	10	.1		
0183	HTPR	20	1452	1503	1513	S13	W50	4317	09	16.8	21	SF		C	1503	30	.5	E	
0184	PALE	20	1742	1743	1746	S13	W51	4317	09	16.9	4	SF		3	C	19			
		20	1944		1946	No Flare Patrol													
0185	MANI	21	0204	0207	0215	S13	W57	4317	09	16.8	11	SF		1	V		25	.5	
0186		21	06355	06404	0650	S16	E65	4323A	09	26.2	15	SN	C 1.7				37	.6	
	CATA	21	0635	0640	0640D	S17	E65	4323A	09	26.2	5D	S		2	P	0640	56		
	CULG	21	0639	0642	0649	S14	E67	4323A	09	26.3	10	SN			C	0642	30		
	LEAR	21	0639	0643	0650	S17	E65	4323A	09	26.2	11	SN	C 1.7	3	C		33		
	KANZ	21	0640	0644	0652	S17	E64	4323A	09	26.1	12	SN		2					
	HTPR	21	0643E		0643D	S17	E64	4323A	09	26.1	12D	SN			C	0643	30	.6	
0187	KHAR	21	0820E	0830	1052D	S30	E90		09	28.4	152D	2F			P	0913	150		H
0188	CATA	21	0915	0920	0930	S17	E90	4324	09	28.2	15	1		2	C	0920	56		
0189	HTPR	21	1038	1039	1043	S12	W62	4317	09	16.6	5	SF			C	1039	30	.6	E
0190	KHAR	21	1040E	1045	1100D	S2G	E90	4324	09	28.3	20D	SN			V	1045			H
0191	CULG	21	2108	2112	2119	S13	W22	4321	09	20.2	11	SF			C	2112	40	.4	
0192		22	00413	0046*	0129	S08	E16	4319	09	23.2	48	SN	C 1.0				99	1.2	EFJS
	CULG	22	0041	0050	0121	S07	E16	4319	09	23.2	40	SN			C	0050	130	1.4	SF
	VORO	22	0042	0052	0115	S08	E15	4319	09	23.1	33	SF			C	0052	108	1.2	EJ
	LEAR	22	0044	0046	0128	S09	E16	4319	09	23.2	44	SN	C 1.0	3	C		62		F
	YUNN	22	0124E	0124	0151	S07	E16	4319	09	23.2	27D	SN			P		96	1.1	E
0193		22	0852	0855	0910	S18	E50	4323A	09	26.2	18	SF					20	.3	D
	KHAR	22	0845E		0900D	S18	E51	4323A	09	26.2	15D	SF			V	0848			D
	HTPR	22	0852	0855	0910	S17	E49	4323A	09	26.1	18	SF			C	0855	20	.3	
0194	KHAR	22	0856E		0903D	S22	E85	4324	09	28.9	7D	SF			V	0856			D
0195	KHAR	22	0914E		0930D	S18	E50	4323A	09	26.2	16D	SF			V	0914			D
0196	KHAR	22	0945E	0945	1013D	S18	E50	4323A	09	26.2	28D	SF			V	0945			D
0197	HTPR	22	0947	0950	1000	S23	E82	4324	09	28.7	13	SN			C	0950	10		
0198	HTPR	22	1127	1130	1134	S23	E81	4324	09	28.7	7	SF			C	1130	10		
0199	HTPR	22	1235	1243	1255	S23	E80	4324	09	28.7	20	SF			C	1243	20		E
0200		22	13052	13111	1330	S23	E78	4324	09	28.5	25	SN					20		E
	HTPR	22	1305	1312	1338	S23	E79	4324	09	28.6	33	SN			C	1312	20		E
	KANZ	22	1307	1311	1322	S23	E76	4324	09	28.4	15	JN				2			
0201		22	1355*	1508*	1631	S12	W75	4317	09	16.9	156	SN					45		EK
	HTPR	22	1355	1532	1545	S12	W77	4317	09	16.8	110	SB			C	1532	20		EK
	RAMY	22	1504	1508	2002D	S14	W76	4317	09	16.9	298D	SF			3	C	28		K
	RAMY	22	1504	1735	2002D	S14	W76	4317	09	16.9	298D	IN			3	C	128		K
	HOLL	22	1534E	1535	1546	S12	W74	4317	09	17.1	12D	SF			3	C	15		
	HOLL	22	1655	1736	1803	S11	W75	4317	09	17.1	68	SN			3	C	36		
0202	HTPR	22	1505	1514	1518	S23	E78	4324	09	28.6	13	SN			C	1514	20		E

H - ALPHA SOLAR FLARES

SEPTEMBER 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF Region			CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
						Lat	Cmd	Region									(10 <sup>-6</sup> Disk)	Corr (Sq Deg)	
0203		22	1542*	1544*	1605	S21	E77	4324	09	28.5	23	SN					11		FK
	HOLL	22	1542	1544	1605	S21	E76	4324	09	28.5	23	SF	3	C			13		K
	HOLL	22	1542	1601	1605	S21	E76	4324	09	28.5	23	SN	3	C			11		FK
	HTPR	22	1552	1601	1605	S22	E78	4324	09	28.6	13	SB		C	1601		10		
0204	HTPR	22	1616		1634D	S12	E78	4323D	09	28.5	18D	SN		C	1626		20		
0205		22	1712*	1716*	1730	S21	E76	4324	09	28.5	18	SF					18		F
	HOLL	22	1712	1716	1725	S21	E74	4324	09	28.4	13	SF	3	C			19		F
	HOLL	22	1731	1732	1734	S21	E77	4324	09	28.6	3	SF	3	C			16		F
0206	HOLL	22	1757	1758	1804	S21	E74	4324	09	28.4	7	SF	3	C			15		F
0207		22	1823	1829*	1903	S12	W75	4317	09	17.1	40	SN					20		K
	HOLL	22	1823	1829	1903	S12	W75	4317	09	17.1	40	SF	3	C			19		K
	HOLL	22	1823	1843	1903	S12	W75	4317	09	17.1	40	SN	3	C			22		K
0208	HOLL	22	1823	1824	1827	S21	E75	4324	09	28.5	4	SF	3	C			12		
0209	HOLL	22	1958	1959	2004	S20	E72	4324	09	28.3	6	SF	C 1.1	3	C		25		
0210	CULG	22	2245	2246	2249	S14	E53	4323A	09	26.9	4	SF		C	2246		40	.7	
0211	CULG	23	0107	0110	0128	S13	E68	4323D	09	28.2	21	SF		C	0110		60		
0212		23	0532	0536	0542	S12	E66	4323D	09	28.2	10	IN					54		D
	CULG	23	0532	0536	0542	S11	E66	4323D	09	28.2	10	SF		C	0536		20		
	ABST	23	0534	0536	0542	S14	E66	4323D	09	28.2	8	IN		C	0536		87		D
0213		23	0645	0650	0703	S17	E38	4323A	09	26.2	18	SN					85	1.4	DK
	CATA	23	0645	0650	0710	S17	E38	4323A	09	26.2	25	S	2	C	0650		112	1.6	
	ABST	23	0648	0652	0703	S16	E40	4323A	09	26.3	15	SN		C	0652		87	1.3	DK
	ISTA	23	0651		0700	S18	E37	4323A	09	26.1	9	SF							
	YUNN	23	0651E	0652	0701	S17	E39	4323A	09	26.2	10D	SN		P			96	1.4	
	LEAR	23	0651	0654	0701	S17	E38	4323A	09	26.2	10	SF	3	C			46		
0214	ISTA	23	0712		0717	S22	E68	4324	09	28.5	5	SF							D
0215	HTPR	23	0848	0852	0908	S19	E65	4324	09	28.3	20	SN		C	0852		20	.5	F
0216		23	0916	0921	0934	S19	E66	4324	09	28.4	18	SN					14	.5	D
	YUNN	23	0916	0921	0932	S19	E67	4324	09	28.5	16	SN		C			8		D
	HTPR	23	0918	0923	0935	S19	E65	4324	09	28.3	17	SF		C	0923		20	.5	
0217		23	1440*	1449*	1529	N12	W69	4322	09	18.4	49	SN					39	.9	EGK
	HTPR	23	1440	1449	1542	N15	W68	4322	09	18.5	62	SB		C	1523		40	.9	EK
	KANZ	23	1443	1451	1455D	N12	W69	4322	09	18.4	12D	SB	1						
	WEND	23	1444	1449	1502	N11	W69	4322	09	18.4	18	SN		C	1449		40		G
	WEND	23	1516	1522	1543	N11	W70	4322	09	18.4	27	SF		C	1522		38		G
0218		23	1542	1542	1554	S16	E60	4323D	09	28.2	12	SN					48	.8	EF
	HTPR	23	1542	1542	1551	S17	E60	4323D	09	28.2	9	SB		C	1542		40	.8	E
	HOLL	23	1542	1542	1558	S16	E59	4323D	09	28.1	16	SF	3	C			66		F
	RAMY	23	1544E	1544U	1550D	S14	E61	4323D	09	28.3	6D	SF	3	C			38		
0219		23	1603	1608*	1621	N12	W70	4322	09	18.4	18	SN					39	.9	EG
	WEND	23	1603		1608D	N11	W70	4322	09	18.4	5D	SN		C	1608		44		G
	HTPR	23	1603	1618	1625	N15	W69	4322	09	18.4	22	SN		C	1618		40	.9	E
	RAMY	23	1606	1608	1623	N11	W70	4322	09	18.4	17	SF	3	C			59		
	HOLL	23	1609	1609	1614	N13	W69	4322	09	18.5	5	SF	3	C			14		
0220	HOLL	23	1647	1649	1654	N17	W67	4322	09	18.6	7	SF	3	C			22		
0221		23	1806	1807	1829	S20	E62	4324	09	28.5	23	SN	C 4.3				67		FH
	HOLL	23	1806	1807	1832	S21	E61	4324	09	28.4	26	SN	C 4.3	3	C		66		H
	PALE	23	1806	1809	1826	S19	E62	4324	09	28.5	20	SN	C 4.3	3	C		68		F
		23	2222		2228	No Flare Patrol													

H - ALPHA SOLAR FLARES

51  
Sep 83

SEPTEMBER 1983

Grp #	Sta	Dev	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF Region		CMP Mo	Dur (Min)	Imp Opt Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																(10 <sup>-6</sup> Disk)	(Sq Deg)		
	23		2245		2307			No Flare Patrol											
	23		2312		2332			No Flare Patrol											
0222	LEAR	24	0414	0418	0426	S21	E57	4324	09	28.5	12	SF		3	C		25		E
0223	HTPR	24	1139	1140	1144	S20	E53	4324	09	28.5	5	SF			C	1140	10	.2	
0224		24	12193	1223	1231	S20	E54	4324	09	28.6	12	SF					20	.2	E
	HTPR	24	1219	1223	1228	S20	E53	4324	09	28.6	9	SF			C	1222	10	.2	E
	RAMY	24	1222	1223	1234	S20	E54	4324	09	28.6	12	SF		3	C		31		
0225		24	1545*	1630*	1750	S19	E48	4324	09	28.3	125	SF	C 1.2				36	.2	F
	HTPR	24	1545		1612D	S20	E51	4324	09	28.5	27D	SF			C	1558	10	.2	
	RAMY	24	1626	1630	1748	S16	E45	4324	09	28.1	82	SN	C 1.2	3	C		18		
	PALE	24	1724	1730	1737	S21	E50	4324	09	28.5	13	SF		3	C		39		F
	PALE	24	1738	1741	1804	S19	E48	4324	09	28.4	26	SF		3	C		78		F
		24	1632		1636			No Flare Patrol											
		24	1957		2013			No Flare Patrol											
		24	2018		2046			No Flare Patrol											
		24	2051		2109			No Flare Patrol											
		24	2108		2133			No Flare Patrol											
		24	2144		2158			No Flare Patrol											
		24	2400		2400			No Flare Patrol											
		25	0000		0013			No Flare Patrol											
0226		25	0157E	0215U	0248	S18	E46	4324	09	28.6	51D	SN	C 1.7				76	1.2	EJ
	PURP	25	0157E	0215U	0257	S20	E45	4324	09	28.5	60D	SB	C 1.7	C	0215		102	1.7	
	VORO	25	0204E		0234D	S18	E47	4324	09	28.7	30D	SN		P	0204		45	.8	EJ
	CULG	25	0217E	0217U	0239	S16	E45	4324	09	28.5	22D	SN		P	0217		80	1.2	
0227		25	03222	0325	0336	S16	E14	4323A	09	26.2	14	SF					48	.5	E
	PURP	25	0321E	0332U	0336	S17	E15	4323A	09	26.3	15D	SF		P	0332		21	.2	
	CULG	25	0322	0324U	0334	S16	E14	4323A	09	26.2	12	SF		P	0324		50	.5	
	LEAR	25	0324	0325	0337	S16	E14	4323A	09	26.2	13	SF		4	C		57		
	YUNN	25	0331E	0331U	0336	S16	E13	4323A	09	26.1	5D	SN		P	0331		64	.7	E
0228	LEAR	25	0343	0344	0351	S20	E44	4324	09	28.5	8	SF	C 1.2	4	C		31		
0229	LEAR	25	0501	0501	0517	S19	E43	4324	09	28.5	16	SF		3	C		34		
0230	LEAR	25	0524	0526	0538	S20	E42	4324	09	28.4	14	SF		3	C		37		
0231	KHAR	25	0835E	0836	0842D	S14	E16	4323A	09	26.6	7D	SF			V	0836			D
0232		25	08571	0901	0910	S20	E40	4324	09	28.4	13	SN					41		D
	LEAR	25	0857	0901	0911	S20	E40	4324	09	28.4	14	SF		3	C		41		
	ISTA	25	0858		0909	S21	E41	4324	09	28.5	11	SN							D
0233	KHAR	25	0945E		0953D	S19	E36	4324	09	28.1	8D	SF			P	0945			D
0234	KHAR	25	1024E		1032D	S21	E31	4324	09	27.8	8D	SF			V	1026			H
0235	KANZ	25	1323	1323	1335	S25	E35	4324	09	28.3	12	SN		2					
0236		25	15381	1539	1544	S16	E34	4324	09	28.2	6	SF					29		
	RAMY	25	1538	1539	1545	S16	E35	4324	09	28.3	7	SF		3	C		33		
	HOLL	25	1539	1539	1544	S16	E33	4324	09	28.1	5	SF		3	C		25		
0237	PALE	25	1718	1722	1728	S17	E33	4324	09	28.2	10	SF		3	C		26		
0238		25	19158	19253	2011	S18	E34	4324	09	28.4	56	SN	C 1.8				124		F
	RAMY	25	1915	1927	2012	S17	E35	4324	09	28.5	57	SN	C 1.8	3	C		132		
	HOLL	25	1922	1925	2020D	S18	E35	4324	09	28.5	58D	SN	C 1.8	4	C		164		F
	PALE	25	1923	1928	2010	S20	E33	4324	09	28.3	47	SN	C 1.8	3	C		77		F
0239		25	2129	21292	2139	S16	E30	4324	09	28.2	10	SN					76	1.4	
	PALE	25	2129	2129	2141	S17	E30	4324	09	28.2	12	SF		3	C		41		
	CULG	25	2130E	2131	2137	S16	E31	4324	09	28.2	7D	SB			P	2131	110	1.4	





H - ALPHA SOLAR FLARES

53  
Sep 83

SEPTEMBER 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Measurement		Remarks			
								USAF Region						Mo Day	(Min)		Opt Xray	See	Type
0259	CULG	27	2116	2118	2124	S14	E41	4326	10	1.0	8	SF		C	2118	40	.5		
0260	VORO	28	01102	01113	0125	S18	E04	4324	09	28.3	15	SN				84	1.0	EFJ	
	CULG	28	0111	0112	0121	S18	E05	4324	09	28.4	10	SB		C	0111	54	.6	EJ	
	LEAR	28	0112	0114	0126	S18	E04	4324	09	28.3	14	SN	3	C	0112	140	1.5	E	
	FALE	28	0112	0114	0136	S18	E05	4324	09	28.4	24	SF	3	C		98		F	
																	43		F
0261	ABST	28	0400	0407	0430	S16	E36	4326	09	30.9	30	SF		C	0407	87	1.2	D	
0262	ABST	28	0405	0407	0410	S15	W01	4323C	09	28.1	5	SF		C	0407	87	.9	D	
0263	ISTA	28	0730		0739	S15	W01	4323C	09	28.2	9	SF						D	
0264	HTPR	28	1430	1438	1452	S15	W07	4323C	09	28.1	22	SF		C	1438	20	.2	E	
0265		28	1525	1525	1545	S20	W12	4324	09	27.7	20	SF				30			
	RAMY	28	1525	1525	1541	S20	W11	4324	09	27.8	16	SF	3	C		38			
	HOLL	28	1541E	1546U	1549	S20	W12	4324	09	27.7	80	SF	3	C		21			
		28	2031		2035	No Flare Patrol													
0266		29	00053	0009	0011	S22	W12	4324	09	28.1	6	SN				34	.4		
	CULG	29	0005	0009	0011	S23	W12	4324	09	28.1	6	SN			0009	40	.4		
	LEAR	29	0008	0009	0011	S22	W12	4324	09	28.1	3	SF	3	C		29			
0267		29	02245	0239*	0309	S16	W13	4324	09	28.1	45	SF				89	1.1	F	
	CULG	29	0224	0239	0309	S16	W14	4324	09	28.0	45	SN		C	0239	130	1.4		
	LEAR	29	0229	0243	0309	S16	W13	4324	09	28.1	40	SF	3	C		68		F	
	PURP	29	0300E	0300	0309	S16	W12	4324	09	28.2	90	SF		P	0300	68	.8		
0268		29	04361	0438	0439	S21	W03	4324	09	29.0	3	SN				86	1.0		
	CULG	29	0436	0438U	0439	S21	W02	4324	09	29.0	3	SF		P	0438	60	.6		
	YUNN	29	0437	0438	0439	S21	W04	4324	09	28.9	2	SN		C		113	1.3		
0269		29	0519*	0522*	0540	S20	W16	4324	09	28.0	21	SF	C 1.3			46		F	
	LEAR	29	0519	0522	0540	S22	W13	4324	09	28.2	15	SF	C 1.3	3	C		56		
	LEAR	29	0536	0540	0546	S19	W18	4324	09	27.8	10	SF		3	C		35		F
0270		29	0622*	06258	0650	S20	W19	4324	09	27.8	28	SF				132	2.0	BEIJK	
	ABST	29	0622	0625	0645	S20	W20	4324	09	27.7	23	1N		C	0625	261	3.2	EJK	
	LEAR	29	0632	0633	0656	S20	W19	4324	09	27.8	24	SF		3	C		66		
	HTPR	29	0716E		0724D	S20	W19	4324	09	27.8	80	SF		C	0716	70	.7	BEI	
0271	HTPR	29	0925	0930	0934	S27	W09	4324	09	28.7	9	SF		C	0930	10	.1		
0272		29	10322	1042	1055	S20	W19	4324	09	28.0	23	1N							
	KAND	29	1032	1042	1052	S21	W18	4324	09	28.0	20	SN		C					
	KANZ	29	1034	1042	1058	S19	W20	4324	09	27.9	24	1F		2					
0273	KANZ	29	1138	1138	1150	S20	W10	4324	09	28.7	12	SF		2					
0274		29	1513	15135	1525	S21	W13	4324	09	28.6	12	SN				48		HK	
	RAMY	29	1513	1513	1525	S21	W13	4324	09	28.6	12	SN	3	C		22		K	
	RAMY	29	1513	1518	1525	S21	W13	4324	09	28.6	12	SN	3	C		74		HK	
0275	RAMY	29	1638	1639	1700	S21	W14	4324	09	28.6	22	SF	3	C		67			
		29	1924		2103	No Flare Patrol													
0276	LEAR	30	0107	0110	0124	S18	W22	4324	09	28.4	17	SF	3	C		41			
0277	PURP	30	0236	0237	0240	S18	W22	4324	09	28.4	4	SN		C	0237	27	.3	D	
0278	LEAR	30	0319	0322	0336	S23	W23	4324	09	28.4	17	SF	3	C		36			
0279	CULG	30	0405	0406	0409	S17	W27	4324	09	28.1	4	SF		C	0406	50	.6		

SEPTEMBER 1983

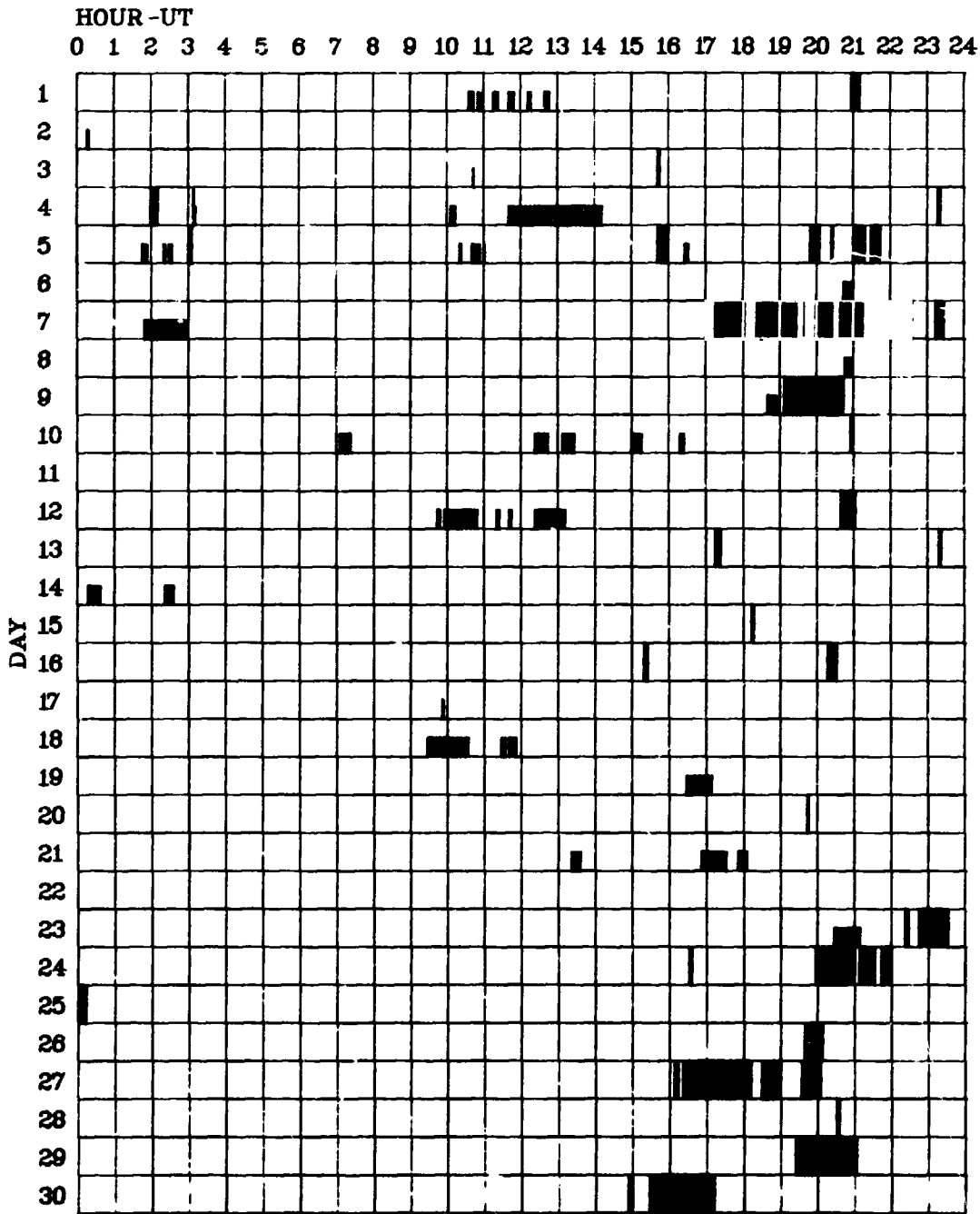
Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks	
																Time (UT)	Apparent (10 <sup>-6</sup> Disk)		Corr (Sq De)
0280	CULG	30	0556	0558	0600	S24	W24	4324	09	28.4	40	SF		P		0558	90	1.1	FI
0281	HTPR	30	0822	0825	0830	S20	W26	4324	09	28.3	8	SF		C		0825	10	.1	
0282	HTPR	30	0848	0851	0902	S20	W37	4324	09	27.5	14	SF		C		0851	10	.1	
0283		30	0935	0936	0950	S19	W30	4324	09	28.1	15	SN					80	1.0	DK
	KHAR	30	0929E	0942	0952D	S19	W30	4324	09	28.1	23D	SF		V		0942	100	1.2	D
	HTPR	30	0935	0936	0950	S19	W29	4324	09	28.2	15	SB		C		0943	60	.7	K
0284		30	11424	11471	1205	S14	E06	4326	09	30.2	23	SN					32	.4	EF
	HTPR	30	1142	1148	1210	S15	E06	4326	09	30.9	28	SN		C		1148	40	.4	E
	RAMY	30	1146	1147	1200	S14	E05	4326	09	30.9	14	SF	3	C			25		F
0285	KANZ	30	1146	1146	1206	N07	W04	4324C	09	30.2	20	SN			2				
0286	HTPR	30	1310		1335D	S19	W40	4324	09	27.5	25D	SF		C		1312	10	.1	
0287	HTPR	30	1322		1335D	S23	W28	4324	09	28.4	13D	SF		C		1331	20	.2	
0288	HTPR	30	1424E		1452D	S23	W40	4324	09	27.5	28D	SF		C		1429	30	.4	E
		30	1453		1457	No Flare Patrol													
0289	HTPR	30	1509		1526D	S15	W70	4323B	09	25.3	17D	SF		C		1516	10	.2	
		30	1527		1555	No Flare Patrol													
		30	1600		1619	No Flare Patrol													
		30	1624		1712	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 1983



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 | Mitaka      | Ramey       |
| Athens     | Haute Provence | Kharkov     | Monte Mario | Tashkent    |
| Bucharest  | Holloman       | Learmonth   | Palehua     | Voroshilov  |
| Catania    | Istanbul       | Lvov        | Peking      | Wendelstein |
|            | Kandilli       | Manila      | Purple Mt.  | Yunnan      |

NUMBER OF SOLAR FLARES  
(From the Grouped Flare Listings)

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	988	1027	838
1981	578	782	914	915	658	592	893	982	680	836	773	615
1982	631	763	783	490*	553*	769*	696*	753*	616*	545*	565*	749*
1983	332*	220*	337*	346*	609*	561*	427*	395*	289*			

\* Preliminary