

N O T I C E

THIS DOCUMENT HAS BEEN REPRODUCED FROM
MICROFICHE. ALTHOUGH IT IS RECOGNIZED THAT
CERTAIN PORTIONS ARE ILLEGIBLE, IT IS BEING RELEASED
IN THE INTEREST OF MAKING AVAILABLE AS MUCH
INFORMATION AS POSSIBLE

Solar-Geophysical Data Number 489, May 1985
Part 2 (Comprehensive Reports). Data for
December 1984, March-May 1983, and Miscellanea

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

Prepared for

National Aeronautics and Space Administration
Washington, DC

Jun 85



BIBLIOGRAPHIC INFORMATION

PB86-121993

Solar-Geophysical Data Number 489, May 1985. Part 2
(Comprehensive Reports). Data for December 1984, March-May
1983, and Miscellanea,

Jun 85

by H. E. Coffey.

PERFORMER: National Geophysical Data Center, Boulder, CO.
SGD-490-PT-2
Contract NASA-W-15519, Grant NSF-ATM83-18491

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

See also PB85-226603 and PB86-121985. Sponsored by National
Aeronautics and Space Administration, Washington, DC., and
National Science Foundation, Washington, DC.

Contents: Detailed index for 1984-1985; Data for December
1984--(Meudon Carte Synoptique, Solar radio bursts at fixed
frequencies, Solar x-ray radiation from GOES satellite
graphs, Mass ejections from the sun, Active prominences and
filaments, Solar irradiance); Data for March, April and May
1983--(Solar flares March 1983, Solar flares April 1983,
Solar flares May 1983, Number of flares August 1966 - May
1983).

KEYWORDS: *Solar activity.

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

PRICE CODE: PC A05/MF A01

Solar-Geophysical Data comprehensive reports



Data for December 1984, March -May 1983, and Miscellanea

Explanation of Data Reports Issued as Number 489 (Supplement) May 1985

LEVEL 1 SOLAR GEOPHYSICAL DATA MARCH-MAY 1983

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

noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE
DATA, AND INFORMATION SERVICE

RESEARCH AND
DEVELOPMENT

PLANNING
AND ADMINISTRATION



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

John H. McElroy, Assistant Administrator

Solar - Geophysical Data

NO. 490 JUNE 1985

Part II (Comprehensive Reports)

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

DATA FOR
DECEMBER 1984
MARCH 1983
APRIL 1983
MAY 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 (Promer 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 490

(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 MAY 1985	3- 24
DATA FOR APRIL 1985	25- 84
LATE DATA	85-106
Geomagnetic Sudden Commencements March 1985	
ERRATA: SC for October 1984	
Cosmic Rays Huancayo January-February 1985; Climax March 1985	
Calcium Plage Data	
Daily Maps December 1983-February 1984	
Plage Regions November 1982	

PART II (COMPREHENSIVE REPORTS)

	Page
DETAILED INDEX FOR 1984-1985	2
DATA FOR DECEMBER 1984	3-18
SOLAR FLARE DATA MARCH-MAY 1983 (Preliminary).	19-88

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

CODE	KIND OF OBSERVATION	OCT	NOV	DEC	JAN 85	FEB	MAR	APR	MAY
A. SOLAR AND INTERPLANETARY PHENOMENA									
A.1	Sunspot Drawings	484A 30	485A 28	486A 30	487A 30	488A 31	489A 30	490A 34	
A.2aa	Internat. Provisional Sunspot Numbers	483A 7	484A 7	485A 7	486A 7	487A 7	488A 7	489A 7	490A 7
A.2c	American Sunspot Numbers	483A 7	484A 7	485A 7	486A 7	487A 7	488A 7		490A 7
A.3a	Mt. Wilson Magnetograms	484A 30	485A 28	486A 30	487A 30	488A 31	489A 30	490A 34	
A.3b	Mt. Wilson Sunspot Magnetic Class	484A 61	485A 56	486A 61	487A 61	488A 59	489A 61	490A 64	
A.3c	Kitt Peak Magnetograms	484A 30	485A 28	486A 30	487A 30	488A 31	489A 30	490A 34	
A.3d	Mean Solar Magnetic Field (Stanford)	483A 22	484A 24	485A 22	486A 24	487A 24	488A 20	489A 23	490A 23
A.3e	Stanford Magnetograms	484A 30	485A 28	486A 30	487A 30	487A 31	489A 30	490A 34	
A.4	H-alpha Filtergrams	484A 30	485A 28	486A 30	487A 30	487A 31	489A 30	490A 34	
A.5	Calcium Plage Photographs/Drawings	Jun-Aug 83 in	485A101;	Sep-Nov 83 in	489A 84;	Dec 83-Feb 84 in	490A 91		
A.5a	Calcium Plage and Sunspot Regions	Aug-Sep 82 in	487A 91;	Oct 82 in	489A 94;	Nov 82 in	490A101		
A.5b	Daily Calcium Plage Indices	Jun-Aug 83 in	485A113						
A.6	H-alpha Synoptic Charts	483A 24	484A 24	486A 26	488A 26	488A 27	489A 26	490A 26	
A.6b	Active Region Carte Synoptique (Paris)	488B 4	489B 4	490B 4					
A.6c	Stanford Solar Mag Field Synoptic Maps	484A 27	485A 25	486A 27	487A 27	488A 28	489A 27	490A 28	
A.6d	Kitt Peak Solar Mag Field Synoptic Maps	484A 28	485A 26	486A 28	487A 28	488A 29	489A 28	490A 30	
A.6e	Mass Ejections from the Sun	488B 14	489B 21	490B 14					
A.6f	Active Prominences and Filaments	488B 15	489B 22	490B 15					
A.7g	Kitt Peak Helium Synoptic Maps	484A 29	485A 27	486A 29	487A 29	488A 30	489A 29	490A 32	
A.7h	Coronal Line Emission (Sacramento Peak)	484A 30	485A 28	486A 30	487A 30	488A 31	489A 30	490A 34	
A.8aa	2800 MHz - Solar Flux (Ottawa)	483A 7	484A 7	485A 7	486A 7	487A 7	488A 7	489A 7	490A 7
A.8ac	2800 MHz - Adj. Solar Flux (Ottawa)	483A 7	484A 7	485A 7	486A 7	487A 7	488A 7	489A 7	490A 7
A.8g	Adjusted Daily Solar Fluxes (Sagamore)	483A 7	484A 7	485A 7	486A 7	487A 7	488A 7	489A 7	490A 7
A.10a	Interferometric Chart -169 MHz - Nancy	483A 14	484A 15	486A 84	486A 15	487A 14	488A 14	489A 16	490A 15
A.10c	East-West Scans - 21 cm - Fleurs	483A 17	484A 18	485A 16	486A 18	487A 17	488A 17	489A 19	490A 18
A.10d	East-West Scans - 43 cm - Fleurs	483A 18	484A 19	485A 17	486A 18	487A 18	488A 18	489A 20	490A 19
A.10e	East-West Scans - 10 cm - Ottawa	483A 16	484A 17	485A 15	486A 17	487A 16	488A 16	489A 18	490A 17
A.10f	East-West Scans - 3 cm - Toyokawa	483A 15	484A 16	486A 85	486A 16	487A 15	488A 15	489A 17	490A 16
A.11g	Solar X-ray GOES (graphs/event table)	488B 8	489B 16	490B 8					
A.12e	Solar Particles (IMP H & J)	Jan-Mar 83 data in	478B 28						
A.13d	Solar Wind from IP Scintillations	485A 97	486A 90	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	488B 56	489B 24	490B 18					
A.16b	NIMBUS Solar Irradiance	Nov 78-Mar 84 data in	483B 70						
A.17	Interplanetary Mag Field (Pioneer 12)	486A 87	486A 88	488A 80					
A.17c	Inferred Interplanetary Magnetic Field	483A 20	484A 22	485A 19	486A 21	487A 21	488A 21		
B. IONOSPHERIC RADIO PROPAGATION PHENOMENA									
B.52	Field Strength Graphs - North Atlantic	484A 78	485A 80	486A 80	487A 78	488A 76	489A 76	490A 82	
B.53	Quality Indices on Paths to Germany	484A 77	485A 79	486A 79	487A 80	488A 75	489A 78	490A 84	
C. SOLAR FLARE-ASSOCIATED EVENTS									
C.1a	H-alpha Flares	483A 12	484A 12	485A 12	486A 12	487A 13	488A 12	489A 12	490A 12
C.1ba	H-alpha Flare Groups	1982 Dec 82 in	488B 18;	Jan-Feb 83 in	489B 25;	Mar-May 83 in	490B 19		
C.1d	Flare Patrol Observations	482A 14	484A 14	485A 14	486A 12	487A 14	488A 13	---	490A 14
C.1d	Flare Patrol Observations	1982 Dec 82 in	488B 52;	Jan-Feb 83 in	489B 25;	Mar-May 83 in	490B 19		
C.1e	Flare Indices (by day)								
C.3	Radio Bursts Fixed Freq.*	487B 6	489B 6	490B 6					
C.3	Radio Bursts Fixed Freq. Selected	483A 19	484A 20	485A 18	486A 19	487A 19	488A 18	489A 21	490A 20
C.4d	Radio Bursts Spectral (Culgoora)	485A 84	485A 65	486A 66					
C.4e	Radio Bursts Spectral (Weissenau)	484A 66	485A 55	486A 56	487A 67	488A 63	489A 66	490A 69	
C.4f	Radio Bursts Spectral (Sagamore Hill)	484A 66	485A 65	486A 66	487A 67	488A 63	489A 66	490A 69	
C.4i	Radio Bursts Spectral (Bløien)	---	485A 65	486A 66	487A 67	488A 63	489A 66	490A 69	
C.4k	Radio Bursts Spectral (Learmonth)	484A 66	485A 65	486A 66	487A 67	488A 63	489A 66	490A 69	
C.4l	Radio Bursts Spectral (Palohua)	484A 66	485A 65	486A 66	487A 67	488A 63	489A 66	490A 69	
C.6	Sudden Ionospheric Disturbances	484A 64	485A 63	486A 65	487A 65	488A 62	489A 65	490A 67	
D. GEOMAGNETIC & MAGNETOSPHERIC PHENOMENA									
D.1a	Geomagnetic Indices	484A 72	485A 74	486A 74	487A 73	488A 69	489A 71	490A 76	
D.1ba	27-day Chart of Kp Indices	484A 74	485A 76	486A 76	487A 75	488A 71	489A 73	490A 78	
D.1c	27-day Chart of Cg	488A 72	488A 72	488A 72					
D.1d	Principal Magnetic Storms	484A 76	485A 78	486A 78	487A 77	488A 74	489A 75	490A 80	
D.1f	Sudden Commencement/Solar Flare Effects	490A 86	486A 89	487A 88	488A 81	489A 80	490A 86	490A 81	
D.1g	Equatorial Indices Dst	484A 75	485A 77	486A 77	487A 76	488A 73	489A 74	490A 79	
F. COSMIC RAYS									
F.1a	Cosmic Ray Neutron Counts (Deep River)	485A 87	485A 73						
F.1b	Cosmic Ray Neutron Counts (Climax)	484A 68	486A 98	486A 73	489A 81	489A 82	490A 89	490A 75	
F.1e	Cosmic Ray Neutron Counts (Alert)	485A 87	485A 73						
F.1h	Cosmic Ray Neutron Counts (Thule)	485A 87	485A 73	486A 73	487A 72	488A 65	489A 67		
F.1i	Cosmic Ray Neutron Counts (Kiel)	484A 68	485A 73	486A 73	487A 72	488A 65	489A 67	490A 75	
F.1j	Cosmic Ray Neutron Counts (Tokyo)	484A 68	485A 73	486A 73	487A 72	488A 65	489A 67	490A 75	
F.1l	Cosmic Ray Neutron Counts (Huancayo)	486A 97	486A 98		490A 87	490A 88			
F.1m	Cosmic Ray Neutron Counts (Predigtstuhl)	484A 68	485A 73	486A 73	487A 72	488A 65	489A 67	490A 75	
H. MISCELLANEOUS									
H.60	IUWDS Alert Periods	483A 4	484A 4	485A 4	486A 4	487A 4	488A 4	489A 4	490A 4

The entry "484A 30" under Oct 1984, for example, means that the sunspot drawings for Oct 1984 appear in SOLAR-GEOPHYSICAL DATA No. 484, 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.

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

GOES Solar Proton Events 1976-Jan 1985 -- 487A 20

Cosmic Ray Forbush Decreases at Mt. Washington 1955-Apr 1984 -- 485A 91

C O N T E N T S

Comprehensive Reports

DATA FOR DECEMBER 1984

Number 490 Part II

	Page
MEUDON CARTE SYNOPTIQUE	
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
Culgoora Guidelines for Recording Prominence and Filament Data	17
SOLAR IRRADIANCE	
SMM ACRIM.	18

4
Dec 84

CARTE SYNOPTIQUE

ACTIVE REGIONS
CARRINGTON ROTATION 1756

(30 November to 28 December 1984)

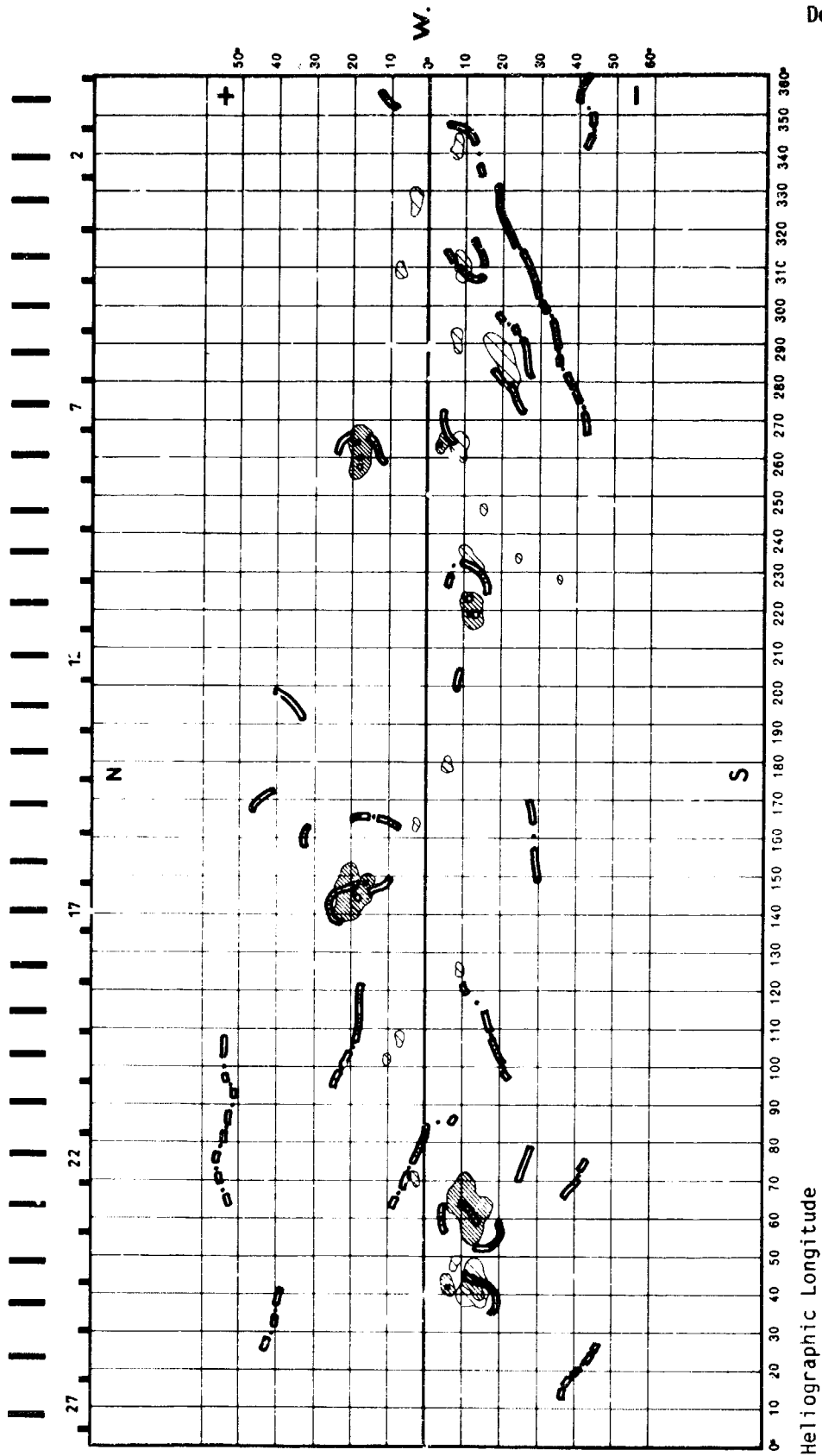
Region No.	Coordinates		Age at Imp	Age at CMP (Days)	Spotless Region	Region No. in Rotation 1755	Activity at West Limb
	Lat.	Long.					
1	10°S	310	1	>6	x		disappeared
2	7°N	309	1	+5	x		disappeared
3	8°S	290	1	-4	x		disappeared
4	4°S	264	2	+6			disappeared
5	9°S	263	1	+3	x		disappeared
6	18°N	261	3	>6			decreasing
7	12°S	233	1	+2	x		dispersed
8	12°S	220	3	+1			decreasing
9	5°S	179	1	>6	x		disappeared
10	17°N	145	3	0			decreasing
11	21°N	145	2	>6			decreasing
12	11°S	62	1	>6	x		decreasing
13	6°S	43	2	0			decreasing
14	13°S	42	1	-3	x		stable

CARTE SYNOPTIQUE

CARRINGTON ROTATION NUMBER 1756
(November 30 to December 28, 1984)

Meudon Observatory

December 1984



SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

DECEMBER 1984

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 ⁻²² W/m ² Hz)	Mean (W/m ² Hz)		
01	500 HIRA	42 SER	0050.6	0101.9	25.0	23.0			WR
	3750 TYKW	21 GRF	0140.0	0147.0	55.0	2.0	1.0		
		21 GRF	0140.0	0155.0	35.0	2.0	1.0		
		5 S	0141.0	0141.7	2.0	1.0	.3		
	2000 TYKW	5 S	0145.0	0147.0	5.0	1.0	.3		
	200 HIRA	27 RF	0559.0	0618.0	42.0	5.0	2.0		ML
	250 ONDR	40 F	0940.5	0941.0	15.0	4.0			
	260 ONDR	40 F	1030.0	1032.0	2.0	1.0			
	260 ONDR	40 F	1056.8	1108.0	120.0	2.0			
245 LEAR	8 S	2358.0	2358.1	.3	30.0			QL=6 ST=2 TYP=3	
02	245 LEAR	43 NS	0342.8	0431.8	89.2	24.0			QL=6 ST=2 TYP=1
	2950 GORK	20 GRF	0858.1	0938.6	97.0	2.1	1.0		
03	245 LEAR	8 S	0025.1	0025.3	.4	25.0			QL=6 ST=2 TYP=3
	127 TORN	40 F	0805.3	0805.7	13.5	30.0	3.0		
	410 LEAR	8 S	0826.8	0826.8	1.0	17.0			QL=6 ST=2 TYP=3
		8 S	0826.8	0826.8	.8	6.0			QL=6 ST=2 TYP=3
610 SGMR	47 GB	1929.8	1929.8	.3	119.0			QL=6 ST=2 TYP=5	
04	8800 LEAR	8 S	0933.1	0933.6	1.2	15.0			QL=6 ST=2 TYP=3
	15400 LEAR	8 S	0933.3	0933.5	.5	39.0			QL=6 ST=2 TYP=3
	1415 LEAR	8 S	0933.3	0933.6	1.0	5.0			QL=6 ST=2 TYP=3
	4995 LEAR	8 S	0933.3	0933.6	.7	6.0			QL=6 ST=2 TYP=3
	2695 LEAR	8 S	0933.3	0933.6	1.0	6.0			QL=6 ST=2 TYP=3
	8800 LEAR	8 S	0952.0	0952.1	.5	22.0			QL=6 ST=2 TYP=3
	15400 LEAR	8 S	0952.0	0952.1	.3	46.0			QL=6 ST=2 TYP=3
	2695 LEAR	8 S	0952.1	0952.1	.2	7.0			QL=6 ST=2 TYP=3
	4995 LEAR	8 S	0952.1	0952.1	.4	10.0			QL=6 ST=2 TYP=3
	1415 LEAR	8 S	0952.1	0952.3	.2	7.0			QL=6 ST=2 TYP=3
	245 LEAR	8 S	2348.8	2348.8	1.3	13.0			QL=6 ST=2 TYP=3
05	2695 SGMR	47 GB	1508.1	1508.1	.2	88.0			QL=6 ST=2 TYP=5
06	410 PALE	8 S	0004.0	0004.1	.6	19.0			QL=6 ST=2 TYP=3
	245 LEAR	8 S	0625.6	0625.8	.2	11.0			QL=1 ST=2 TYP=3
	9300 KISV	8 S	0824.2	0824.5	.5	20.0			
		8 S	0824.2	0824.5	.5	20.0			
	9300 KISV	46 C	0856.4	0857.3	2.0	8.0			
	9300 KISV	1 S	1025.7	1026.0	.5	13.0			
	9300 KISV	1 S	1046.7	1046.9	.5	8.0			
	9300 KISV	8 S	1048.2	1048.5	.5	39.0			
33 UPIC	1 S	1114.2	1114.3	.3					
07	33 UPIC	1 S	1202.4	1202.5	.2				
08	33 UPIC	2 S/F	1050.6	1050.9	.7				
10	245 SGMR	43 NS	1228.0	1445.1	497.00	139.0			QL=6 ST=2 TYP=1
	200 HIRA	44 NS	2138.0E	0432.0	590.00	77.0	35.0		ML
		44 NS	2138.0E	0520.0	590.00	80.0	25.0		
	245 LEAR	43 NS	2151.0	0307.5	772.00	169.0			QL=6 ST=2 TYP=1
	410 LEAR	43 NS	2151.0	0623.0	772.00	100.0			QL=6 ST=2 TYP=1
	245 PALE	44 NS	2240.0E	2307.8		13.0			QL=6 ST=1 TYP=1
	9400 TYKW	20 GRF	0220.0	0233.0	60.0	2.0	1.0		
9400 TYKW	5 S	0453.5	0456.0	6.0	3.0	1.0			
11	208 VORO	44 NS	0000.0		120.00	21.0			
	100 GORK	44 NS	0555.0E		342.00	5.0			
	100 GORK	44 NS	0558.0E		339.00	40.0			
	204 IZMI	44 NS	0700.0E		300.0	90.0			
	260 ONDR	44 NS	0837.0E	1058.0	300.00	158.0			
	127 TORN	43 NS	0850.0		340.00		20.0		V=2
	245 SGMR	44 NS	1228.0E	1425.1		119.0			QL=6 ST=1 TYP=1
	200 HIRA	44 NS	2139.0E	0609.0	590.00	35.0	20.0		ML
	245 LEAR	43 NS	2152.0	0030.0	177.00	21.0			QL=6 ST=3 TYP=1
	245 PALE	43 NS	2240.0	0307.5	293.00	130.0			QL=6 ST=2 TYP=1
	2930 VORO	42 SER	0252.0	0252.0	16.0	218.0			
	3750 TYKW	20 CRF	0320.0	0343.0	60.0	1.0	.5		RAIN
	410 LEAR	47 GB	0610.1	0616.8	1.0	150.0			QL=6 ST=2 TYP=5
2950 GORK	20 GRF	0720.0	0959.6	229.0	2.1				

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

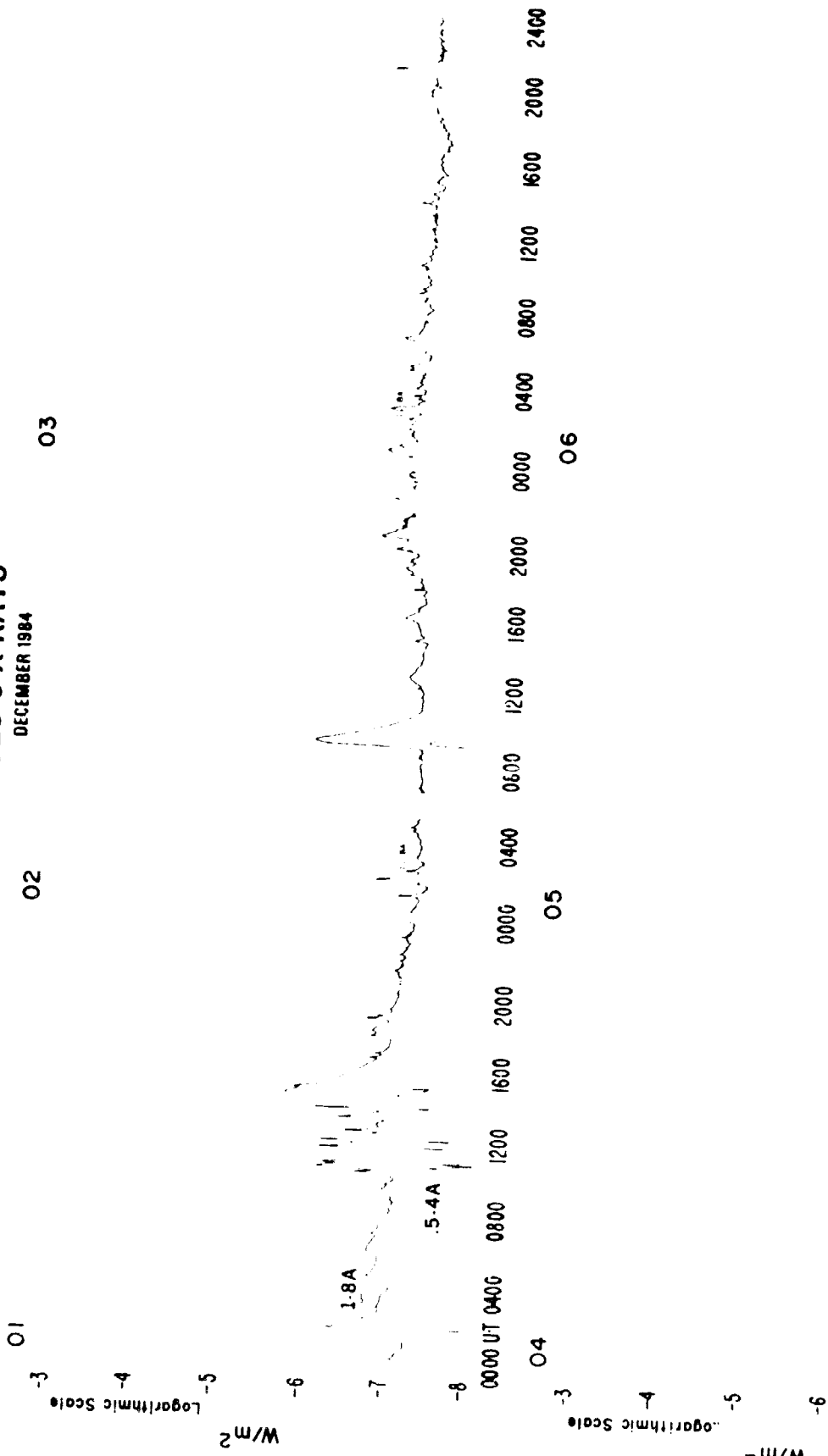
7
Dec 84

DECEMBER 1984

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)		
11	9100	GORK	20 GRF	0757.5	1046.1	200.00	10.0			
	2800	OTTA	27A RF	1500.0		110.0	1.2	1.1		
	2800	CTTA	24 R	1500.0	1504.0	4.0	1.2			
	2800	OTTA	1 S	1502.0	1503.0	2.0	.8	.4		
	2800	OTTA	24P R	1504.0		91.0	1.2			
	2800	OTTA	26 FAL	1635.0	1650.0	15.0	-1.2	-.6		
	2800	OTTA	20 GRF	1805.0	1830.0	40.0	1.0	.5		
12	208	VORO	44 NS	0000.0		120.00		23.0		
	200	GORK	43 NS	0609.0		157.00		20.0		
	100	GORK	44 NS	0609.0E		330.00		5.0		
	127	TORN	44 NS	0700.0E	0711.5	430.00	110.0	2.0		V=2, DISTURBED
	204	IZMI	43 NS	0700.0		110.0	15.0			
	260	ONDR	44 NS	0937.0E		243.00	29.0			
	245	PALE	43 NS	1756.0	0317.3	577.00	169.0			QL=6 ST=2 TYP=1
	245	LEAR	43 NS	2152.0	0324.5	772.00	28.0			QL=6 ST=2 TYP=1
	3750	TYKW	20 GRF	0150.0	0200.0	50.0	1.0	.5		
	2000	TYKW	5 S	0538.3	0538.7	1.0	3.0	1.0		
	2950	GORK	20 GRF	0725.6	0918.0	225.0	1.2			
	200	HIRA	42 SER	2359.6	0009.0	11.7	49.0			WL
100	HIRA	42 SER	2359.6	0009.0	12.0	110.0				
13	100	GORK	44 NS	0603.0E		330.00				
	127	TORN	43 NS	0728.0		428.0		1.0		V=1, DISTURBED
	260	ONDR	44 NS	0828.0E	1343.5	343.00	15.0			
	100	HIRA	8 S	0115.0		.4	13000.00			
	200	HIRA	8 S	0115.1	0115.4	.4	16000.0			WL
	245	PALE	49 GB	0115.3	0115.3	.5	1300.0			QL=6 ST=2 TYP=6
	536	ONDR	8 S	1205.5	1205.5	8.1	3.0			
	536	ONDR	40 F	1232.0	1233.8	20.0	6.0			
33	UPIC	2 S/F	1343.2	1343.4	.9					
14	127	TORN	43 NS	0721.0		400.0				V=1
	260	ONDR	44 NS	0828.0E		312.00	20.0			
	204	IZMI	4 S/F	0814.0	0814.5	2.0	55.0	25.0		
16	2000	TYKW	45 C	0710.0	0711.2	3.5	12.0	1.5		
	3750	TYKW	45 C	0710.0	0712.4	5.00	7.0	3.00		
	1415	ATHN	8 S	0710.1	0710.5	.9	24.0			QL=6 ST=2 TYP=3
	1000	TYKW	45 C	0710.4	0710.7	1.0	6.0	1.0		
	1415	LEAR	8 S	0710.5	0711.0	.6	32.0			QL=6 ST=2 TYP=3
	2695	LEAR	8 S	0710.6	0710.6	.2	7.0			QL=6 ST=2 TYP=3
4995	LEAR	8 S	0710.6	0710.8	.2	4.0			QL=6 ST=2 TYP=3	
17	1000	TYKW	20 GRF	0150.0	0205.0	100.0	1.0	.5		
	2000	TYKW	20 GRF	0150.0	0206.0	100.0	2.0	1.0		
	3750	TYKW	20 GRF	0150.0	0210.0	90.0	1.5	.7		
	9400	TYKW	45 C	0201.0	0202.5	3.0	9.0	2.0		
18	3750	TYKW	20 GRF	0155.0	0204.0	30.00	1.0	.50		INTERFERENCE
	2000	TYKW	20 GRF	0155.0	0208.0	30.0	1.0	.5		
19	536	ONDR	8 S	1006.5	1006.6	.7	7.0			
	2800	OTTA	1 S	1831.2	1831.3	.5	.8	.3		
20	2800	OTTA	8 S	1832.0	1832.0	.5	1.4	.1		
21	1000	TYKW	20 GRF	0150.0	0252.0	150.0	2.0	1.0		
	9395	PEKG	45 C	0234.0	0241.6	12.0	49.4	15.3		
	2000	TYKW	20 GRF	0235.0	0310.0	90.0	3.0	1.5		
	3750	TYKW	20 GRF	0240.0	0310.0	80.0	3.0	1.5		
	9400	TYKW	20 GRF	0240.0	0315.0	80.0	3.0	1.5		
	33	UPIC	2 S/F	0909.1	0809.2	1.2				
536	ONDR	2 S/F	1043.0	1043.2	.4	5.0				
22	9400	TYKW	5 S	0618.8	0619.2	1.0	10.0	2.0		
	536	ONDR	8 S	1152.8	1153.0	.5	5.0			
	260	ONDR	42 SER	1313.6	1317.5	5.5	4.0			
	536	ONDR	8 S	1317.0	1317.5	.5	16.0			
23	260	ONDR	8 S	1136.5	1136.6	.3	.4	3.0		
25	9400	TYKW	5 S	0428.3	0428.7	1.0	5.0			

GOES 6 X-RAYS

DECEMBER 1984



GOES 6 X-RAYS

DECEMBER 1984

07

-3

08

-4

09

-5

-6

10

-7

-8

11

-3

-4

-5

-6

-7

-8

12

-3

-4

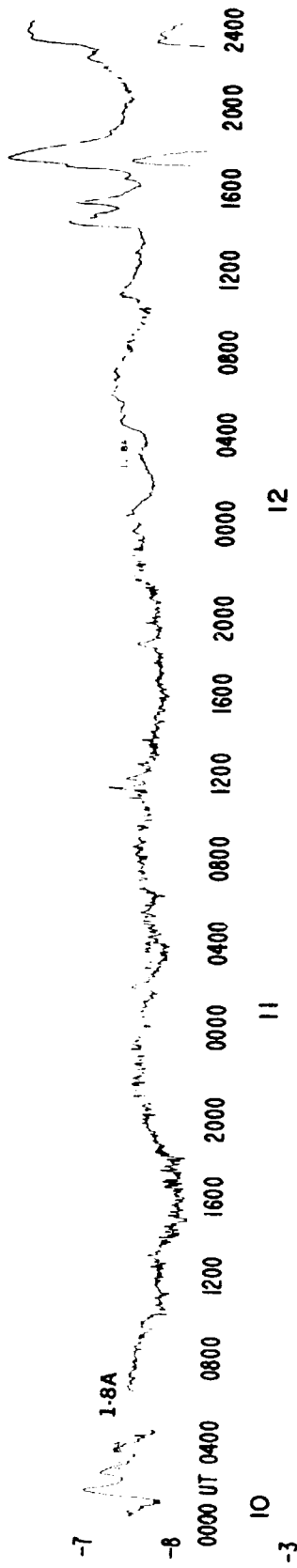
-5

-6

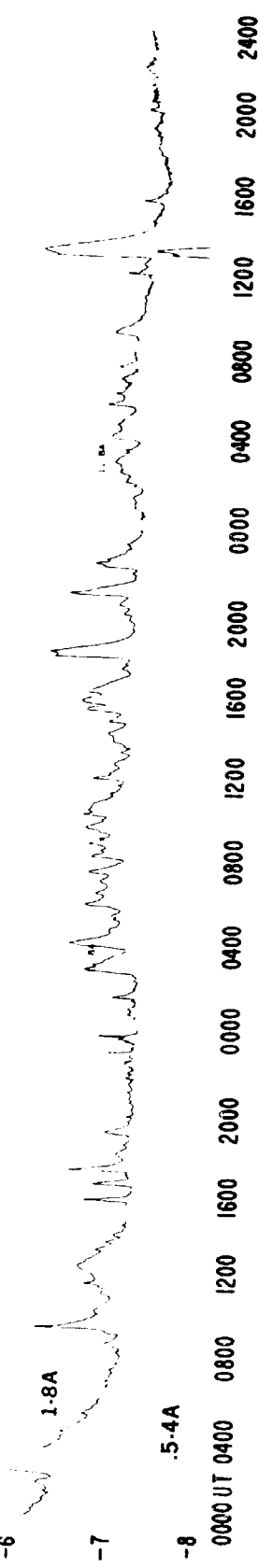
-7

-8

W/m²



W/m²



GOES 6 X-RAYS

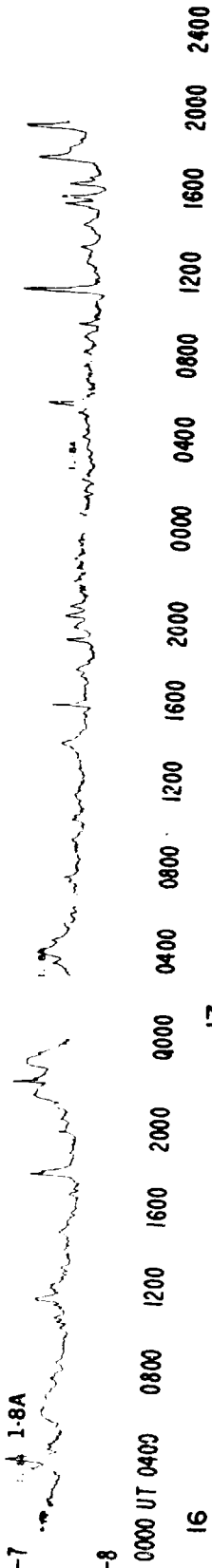
DECEMBER 1984

15

14

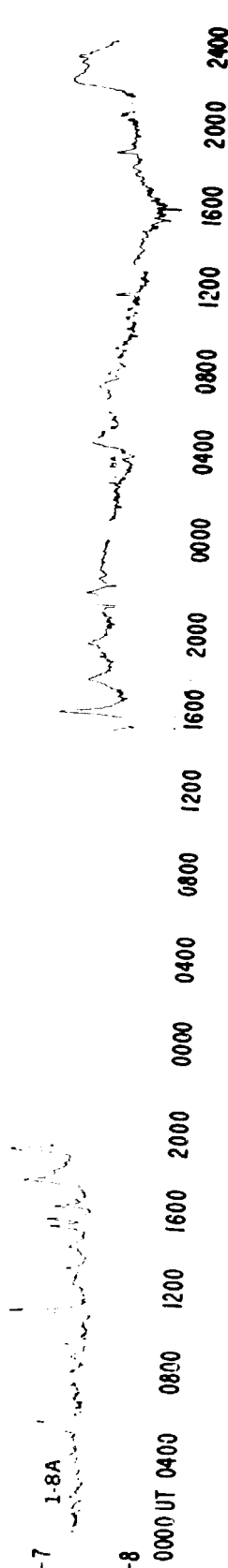
13

-3
-4
-5
-6
Logarithmic Scale
W/m²



17

-3
-4
-5
-6
Logarithmic Scale
W/m²



17

-8

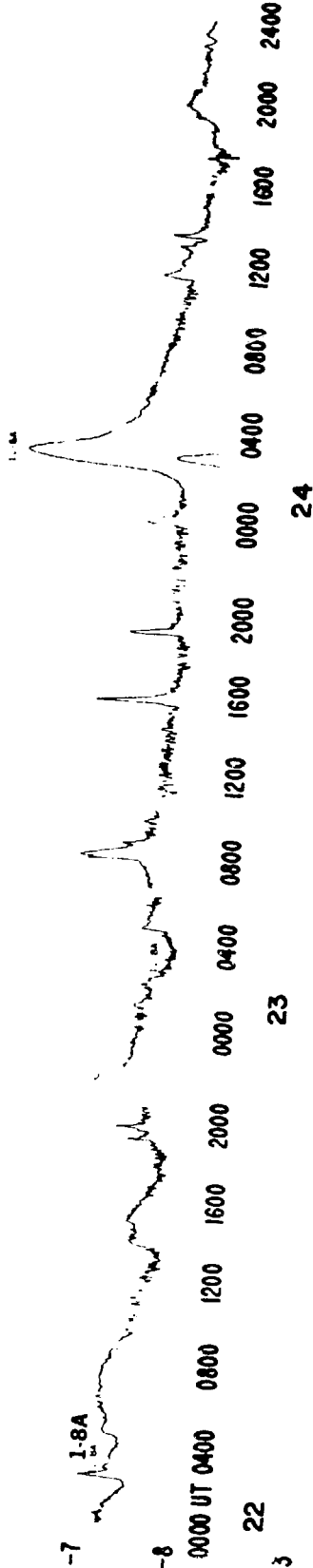
GOES 6 X-RAYS
DECEMBER 1984

19

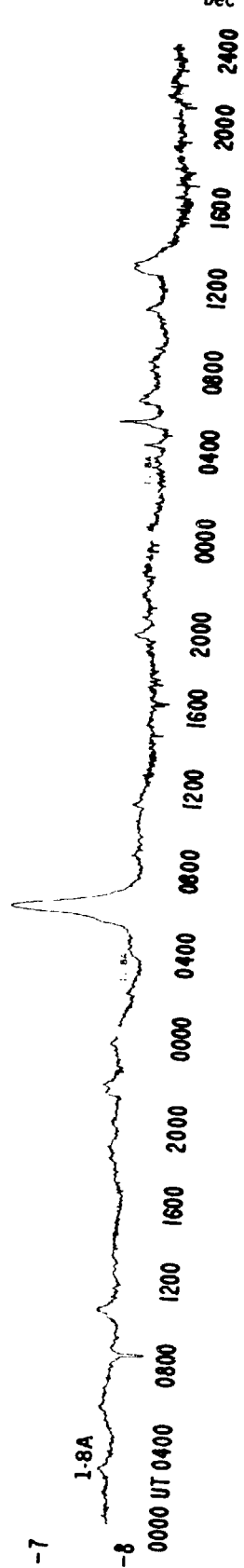
Logarithmic Scale
-3
-4
-5
-6
W/m²

20

21



Logarithmic Scale
-3
-4
-5
-6
-7
-8
W/m²



GOES 6 X-RAYS

DECEMBER 1984

26

27

28

-3

Logarithmic Scale

-4

-5

-6

W/m²

-7

1-8A

0000 UT 0400 0800 1200 1600 2000

29

-3

Logarithmic Scale

-4

-5

-6

W/m²

-7

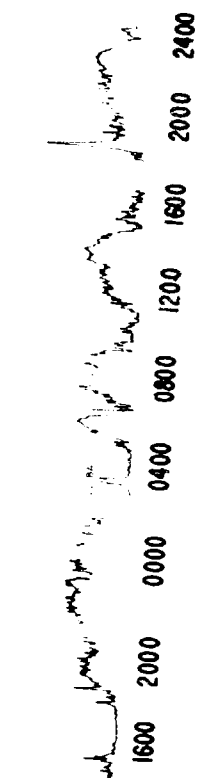
1-8A

0000 UT 0400 0800 1200 1600 2000



30

NO DATA 31 DECEMBER 1984



MASS EJECTIONS FROM THE SUN

DECEMBER 1984

Sta	Day	Observed UT			Location		Freq or Wavelength	Kind of Event
		Start	Max	End	RA°	R/R ₀		
WEND	Dec 01	1008	1020	U 1035	072	1.0	H-alpha	S
WEND	Dec 01	1339	1354	U 1412	072	1.0-1.05	H-alpha	S
KHAR	Dec 04	1040	E	1045	D 252	1.00	H-alpha	S

QUALIFIERS ON START, MAX AND END TIMES

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

REPORTING STATIONS

- KHAR = Kharkov
- WEND = Wendelstein

TYPE OF EVENT

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

ACTIVE PROMINENCES AND FILAMENTS

15
Dec 84

DECEMBER 1984

Type	Day	Observed UT		Lat CMD	Imp	Obs		Remarks
		Start	End			Type	Sta	
BSL	Dec 01	1025E	1025D	N14 E90	1-	C	CATA	
APR	Dec 01	1045	1413	N18 E90	1	C	WEND	J, A, X1.
APR	Dec 01	1447	1504D	N18 E90	1	C	WEND	A, X1.
SDF	Dec 02	1130E	1105D	S10 W39	1	C	CATA	
AFS	Dec 03	0011	0203	S08 E73		V	MANI	
ADF	Dec 03	0011	0203	S07 W73	1	V	MANI	
SDF	Dec 03	0234	2141	S27 E66	1	C	CULG	.08 R, overnight.
SDF	Dec 04	2052	0055	S16 E09	1	C	CULG	.11 R, faint filament.
SDF	Dec 05	0212	0513	S50 E02	1	C	CULG	.09 R, faint filament.
SDF	Dec 05	2235	0313	S32 W03	1	C	CULG	Less than .10 R, over several hours.
AFS	Dec 07	0022	0225	S04 E17		V	MANI	
ADF	Dec 07	0022	0225	S05 E20	1	V	MANI	
ASR	Dec 07	0725	1140	N08 E90		V	ATHN	
ADF	Dec 07	0725	1140	S08 W45		V	ATHN	
BSL	Dec 07	0910	0955D	S50 W90	1-	C	CATA	
BSL	Dec 07	0950	0955D	S76 W90	1-	C	CATA	
BSL	Dec 07	0950	0955D	S80 E90	1-	C	CATA	
BSL	Dec 07	1025E	1035	S76 W90	1-	C	CATA	
BSL	Dec 07	1130	1135	N66 E90	1-	C	CATA	
BSL	Dec 07	1150E	1155	S24 W90	1-	C	CATA	
BSL	Dec 07	1250	1300	S53 W90	1-	C	CATA	
AFS	Dec 08	0930	1400	S09 E29		V	ATHN	
DSD	Dec 08	2124	0030	S03 W15	1	C	CULG	Less than .10 R, B, to West.
BSD	Dec 08	2124	0030	S03 W15	1	C	CULG	Less than .10 R, B, to West.
BSL	Dec 09	0715E	0720D	N15 E90	1	C	CATA	
BSL	Dec 09	0730E	0735	S61 W90	1-	C	CATA	
BSL	Dec 09	0915	0925	S72 W90	1-	C	CATA	
BSL	Dec 09	1030E	1035	N34 E90	1-	C	CATA	
BSL	Dec 09	1110E	1145D	N21 E90	1	C	CATA	
BSL	Dec 09	1125	1130	S73 E90	1-	C	CATA	
BSL	Dec 09	1125	1130	S68 E90	1-	C	CATA	
BSL	Dec 09	1215	1245D	N20 E90	1	C	CATA	
ADF	Dec 10	0035	0738	S11 E12	2	V	MANI	
BSD	Dec 10	0040	0456	S12 E05	1	C	CULG	Less than .10 R, A.
ASR	Dec 10	0700	1400	N15 E90		V	ATHN	
BSL	Dec 10	0725E	0730D	N22 E90	1-	C	CATA	
BSL	Dec 10	0745	0805	S52 E90	1-	C	CATA	
BSL	Dec 10	0750	0810D	S65 E90	1-	C	CATA	
ADF	Dec 10	0805	1400	S05 E55		V	ATHN	
ADF	Dec 10	0805	1400	N15 W25		V	ATHN	
ADF	Dec 10	0805	1400	S04 W30		V	ATHN	
BSL	Dec 10	0820E	0830	S58 W90	1-	C	CATA	
BSL	Dec 10	0955	1010D	N16 W90	1-	C	CATA	
AFS	Dec 11	0025	0757	S11 E09		V	MANI	
AFS	Dec 11	0025	0757	N18 E74		V	MANI	
ADF	Dec 11	0025	0757	S13 E18	1	V	MANI	
ADF	Dec 11	0025	0757	S04 W36	2	V	MANI	
ADF	Dec 11	0025	0757	N16 W31	2	V	MANI	
AFS	Dec 11	0725	1400	S12 E03		V	ATHN	
BSL	Dec 11	0805	0835D	S53 E90	1-	C	CATA	
BSL	Dec 11	1120	1125	S61 W90	1-	C	CATA	
DSD	Dec 11	2130	0415	S13 W02	1	C	CULG	Less than .10 R, B, to West and East.
ASR	Dec 12	0650	0925	S31 W90		V	ATHN	
AFS	Dec 12	0650	0925	S14 W06		V	ATHN	
APR	Dec 12	0750	0925	S08 W90		V	ATHN	
BSL	Dec 12	0910	0925	S63 W90	1-	C	CATA	

ACTIVE PROMINENCES AND FILAMENTS

DECEMBER 1984

Type	Day	Observed UT Start End	Lat CMD	Imp	Obs Type Sta	Remarks
AFS	Dec 13	0825 1400	S12 W23		V ATHN	
AFS	Dec 13	0825 1400	S13 W23		V ATHN	
AFS	Dec 14	0121 0418	S10 W32		V MANI	
ADF	Dec 14	0121 0418	N19 E43	1	V MANI	
BSL	Dec 14	1125 1130D	S37 W90	1-	C CATA	
BSL	Dec 14	1140E 1150	S76 W90	1-	C CATA	
APR	Dec 15	0041 0740	N16 W90	2	V MANI	
AFS	Dec 15	0041 0740	S11 W76		V MANI	
ADF	Dec 15	0041 0740	S15 W46	1	V MANI	
AFS	Dec 15	0041 0740	N16 E28		V MANI	
SDF	Dec 15	0234 0425	N27 E28	1	C CULG	Less than .10 R, eruptive.
ADF	Dec 15	0805 1400	N22 E25		V ATHN	
BSL	Dec 15	0945 0950	N78 E90	1-	C CATA	
ADF	Dec 16	0725 1010	N17 E13		V ATHN	
ADF	Dec 17	0821 1400	N26 W03		V ATHN	
ASR	Dec 17	0821 1400	S24 E90		V ATHN	
ASR	Dec 17	1230 1400	S13 E90		V ATHN	
ADF	Dec 19	0128 0902	N17 W24	2	V MANI	
ADF	Dec 19	0128 0902	S18 E73	2	V MANI	
SDF	Dec 19	0428 2041	N22 E06	2	C CULG	Between .15 and .30 R, overnight.
ADF	Dec 19	2345 0845	S18 W39	2	V MANI	
ADF	Dec 20	0014 0746D	S18 E03	1	C CULG	Less than .10 R.
SDF	Dec 20	0746 2042	N22 E12	2	C CULG	Between .15 and .30 R, overnight.
ADF	Dec 21	0059 0735	N20 W51	1	V MANI	
ADF	Dec 21	0059 0735	N12 W10	1	V MANI	
ADF	Dec 21	0059 0735	S16 E43	1	V MANI	
ADF	Dec 21	2029 0722*	S14 E14	3	C CULG	Filament is part of system that is within 1/3 solar radius of point given. Position good on 21st December.
SDF	Dec 21	2029 0722*	S14 E14	3	C CULG	
ADF	Dec 21	2332 0136	S08 E33	2	V MANI	
ADF	Dec 21	2332 0136	S12 E20	2	V MANI	
AFS	Dec 21	2332 0136	S09 E33		V MANI	
APR	Dec 22	0630 1300	S32 W90		V ATHN	
ADF	Dec 22	0830 1300	N07 W06		V ATHN	
ASR	Dec 22	0830 1300	N06 W90		V ATHN	
APR	Dec 24	0640 0915	S36 W90		V ATHN	
ASR	Dec 24	0640 0925	N16 W90		V ATHN	
AFS	Dec 24	0645 0915	S02 E09		V ATHN	
AFS	Dec 25	0920 1250	S05 W07		V ATHN	
ASR	Dec 25	0920 1400	N03 E90		V ATHN	
BSL	Dec 26	1050 1135	N02 W90	1-	C CATA	
AFS	Dec 27	0022 0649	S10 E26		V MANI	
ADF	Dec 27	0655 1400	S09 E23		V ATHN	
AFS	Dec 27	0910 1400	S10 E21		V ATHN	
AFS	Dec 28	0805 1320	S10 E10		V ATHN	
SDF	Dec 28	0842 2056	N11 W24	1	C CULG	.07 R, overnight.
SDF	Dec 29	0251 0344	S19 W55	1	C CULG	.08 R.
AFS	Dec 30	0049 0906	S09 W14		V MANI	
ADF	Dec 30	0049 0906	S11 W14	2	V MANI	

*End time 0722 UT occurs on December 23, 1984.

BSL = Bright surge at limb.

ADF = Active dark filament.

AFS = Active filament system.

APR = Active prominence region at limb.

ASR = 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 = Kodaikanal
MANI = Manila

WEND = Wendelstein

GUIDELINES FOR RECORDING PROMINENCE AND FILAMENT DATA
(CULGOORA: 01/01/85)

1. PHENOMENON: Eight types of activity are recognized.

- BSL Bright Surge on Limb. Material rises and falls but not necessarily along same path. Also includes sprays.
- APR Active Prominence Region. Includes cases where:
a) prominence forms and/or vanishes;
b) quiescent prominence becomes active.
It is distinct from an EPL.
- EPL Eruptive Prominence on Limb, where eruption must be observed.
- ADF Active Dark Filament. Same as APR, except seen on disk.
- DSD Dark Surge on Disk. Same as BSL, except seen as absorption on disk.
- BSD Bright Surge on Disk. Same as DSD, except seen in emission.
- SDF Sudden Disappearance of Filament. Same as EPL, except seen on disk.
- ASR Active Surge Region. Region with recurrent surging, where the size of individual surges does not warrant separate reporting. (Only applies as of 01/01/85).

2. IMPORTANCE:

Surges are classified according to their path length l .

- 1 $5\% R \leq l < 10\% R$
2 $10\% R \leq l < 20\% R$
3 $l \geq 20\% R$

l is measured along the surge.

APR and ADF are classified according to the degree of activity.

- 1 fluctuates in intensity;
2 movement, change of shape, or formation;
3 disappearance but not eruption.

EPL and SDF are classified according to their size prior to disappearance.

- 1 size $< 20^\circ$
2 $20^\circ \leq \text{size} < 40^\circ$
3 size $\geq 40^\circ$

3. NOTES: 1) Beginning and End times may be qualified by the symbols E (in progress), D (end not observed) or U (uncertain).
- 2) Filaments that disappear overnight are classified as ADF importance 3. To highlight this they are marked with an asterisk (i.e., ADF*) and accompanied by the remark *overnight.

Please note that these are essentially the same guidelines that were used up to the 31st August 1981. During the period 01/09/81 - 31/12/84 there were some differences in relation to the reporting of filaments. These were:

1. Filaments that disappeared (eruptive or not) were recorded as SDF.
2. The importance of SDF's was based on their length in terms of (uncorrected) $\% \text{ Radius}$ such that
- 1 $l < 15\% R$
2 $5\% R \leq l < 30\% R$
3 $l \geq 30\% R$

SOLAR IRRADIANCE (Daily Mean)
SOLAR MAXIMUM MISSION (ACRIM I)
Jet Propulsion Laboratory

Watts/m²

1984

DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01	---	---	---	---	1366.06	1367.00	1367.23	1367.36	---	1367.16	1366.95	1367.11
02	---	---	---	---	---	1367.26	1367.43	1367.39	---	1367.18	1366.97	1367.16
03	---	---	---	---	---	1367.35	1367.30	1367.34	---	1367.15	1366.99	1367.12
04	---	---	---	---	1367.31	1367.50	1367.36	1367.39	---	1367.18	1366.99	1367.02
05	---	---	---	---	1367.33	1367.55	1367.45	1367.40	---	1367.15	1367.05	1366.99
06	---	---	---	---	1367.31	1367.55	1367.37	1367.45	---	1367.13	1367.07	1367.00
07	---	---	---	---	1367.12	1367.46	1367.43	1367.35	---	1367.16	1367.04	1366.97
08	---	---	---	---	1366.79	1367.46	1367.42	1367.24	---	1367.12	1366.94	1366.98
09	---	---	---	---	1366.35	1367.47	1367.38	1367.14	---	1367.03	1366.96	1367.00
10	---	---	---	---	1365.97	1367.58	1367.32	1367.15	---	1366.97	1366.95	1367.00
11	---	---	---	---	1365.80	1367.61	1367.25	1367.23	---	1366.99	1366.98	1366.93
12	---	---	---	---	1365.88	1367.63	1367.33	1367.28	---	1366.96	1367.01	1366.86
13	---	---	---	---	---	1367.52	1367.44	1367.35	---	1366.97	1366.63	1366.89
14	1366.54	---	---	---	1366.45	1367.41	1367.40	1367.34	---	1366.98	1367.03	1366.91
15	---	---	---	---	---	1367.25	1367.39	1367.24	---	1366.91	---	1366.97
16	1366.64	---	---	---	1367.18	1367.28	1367.32	---	---	1366.86	1367.06	1366.86
17	---	---	---	---	1367.45	1367.32	1367.29	1367.07	---	1366.84	1367.06	1366.91
18	---	1367.28	---	---	1367.60	1367.25	1367.29	1367.04	---	1366.91	1367.09	1366.95
19	---	---	---	---	1367.55	1367.07	1367.23	1367.00	---	1366.91	1367.13	1367.01
20	---	1367.00	---	---	1367.53	1367.04	1367.25	1366.94	---	1366.91	1367.06	1367.03
21	---	1366.29	---	---	1367.37	1367.14	1367.16	1366.93	---	1366.97	1366.99	1366.97
22	---	1366.47	---	---	1367.23	1367.14	1367.14	1366.99	---	1367.00	1366.96	1366.97
23	---	---	---	---	1367.05	1367.09	1367.13	1366.97	---	1367.05	1366.88	---
24	1365.57	---	---	---	1366.94	1367.09	1367.15	---	---	1367.07	1366.81	1366.90
25	1365.64	---	---	---	1366.98	1364.70	1367.15	1366.96	---	1367.06	1366.66	1366.91
26	---	---	---	1364.70	1367.18	1364.70	1367.17	1367.01	---	1367.02	1366.55	1366.98
27	---	---	---	---	1367.41	1366.97	1367.10	1367.05	---	1367.04	1366.53	1366.97
28	---	---	---	---	1367.55	1367.22	1367.17	---	---	1367.01	1366.68	---
29	---	---	---	---	1367.46	1367.33	1367.15	---	---	1366.95	1366.86	1366.98
30	---	---	---	---	1367.25	1367.25	1367.30	---	1367.16	1366.97	1366.99	---
31	---	---	---	---	1367.03	---	---	---	---	1366.97	---	1367.02

C O N T E N T S

Comprehensive Reports DATA FOR MARCH, APRIL and MAY 1983 Number 490 Part II

	Page
SOLAR FLARES March 1983	
H-alpha Flares (Preliminary Data)	20 - 37
Daily Flare Indices (not available at time of publication.)	
Intervals of no flare patrol observation	38
SOLAR FLARES April 1983	
H-alpha Flares (Preliminary Data)	39 - 55
Daily Flare Indices (not available at time of publication.)	
Intervals of no flare patrol observation	56
SOLAR FLARES May 1983	
H-alpha Flares (Preliminary Data)	57 - 86
Daily Flare Indices (not available at time of publication.)	
Intervals of no flare patrol observation	87
NUMBER OF FLARES August 1966 - May 1983	88



20
Mar 83

H - ALPHA SOLAR FLARES

MARCH 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
						Region	Class							Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0001		01	00214	00224	0035	S12 E54	4102	03	5.1	14	SN	C 2.1			85	1.6	CEFIJ	
	MANI	01	0020E	0024	0028D	S13 E56	4102	03	5.2	8D	SF	C 2.1	1	v	30	.5	F	
	HOLL	01	0021	0022	0033	S13 E51	4102	03	4.9	12	SN	C 2.1	2	C	60		F	
	CULG	01	0024	0026	0033	S11 E56	4102	03	5.2	9	SN	C 2.1		C	0026	100	1.8	F
	PALE	01	0025	0026	0036	S12 E54	4102	03	5.1	11	SM	C 2.1	3	C	103			
YORO	01	0025	0026	0038	S14 E55	4102	03	5.2	13	IF	C 2.1		C	0026	134	2.4	CEIJ	
0002		01	02113	02143	0225	S20 E64	4104	03	6.0	14	SN	C 2.8			66	1.4	CEIJ	
	YORO	01	0211	0214	0224	S22 E65	4104	03	6.1	13	SF	C 2.8		C	0214	81		CEIJ
	PALE	01	0211	0218U	0231	S19 E64	4104	03	6.0	20	SN	C 2.8	3	C	52			
	YUNN	01	0214	0217	0220	S20 E62	4104	03	5.8	6	SN	C 2.8		C	64	1.4		
0003	PALE	01	0304	0305	0313	S21 E59	4104	03	5.6	9	SF	C 1.3	3	C	64			
0004	LEAR	01	0356	0356	0404	S14 E08	4098	03	1.8	8	SF		3	C	25			
0005		01	0705	0706	0714	S15 E06	4098	03	1.7	9	SN				41	.4		
	CULG	01	0705	0706	0716	S15 E06	4098	03	1.7	11	SF			C	0706	50	.5	
	YUNN	01	0707E	0707	0712	S15 E06	4098	03	1.7	5D	SN			P	32	.3		
0006		01	07078	0717	0723	S12 W87		02	22.8	16	SN	C 3.5			16		D	
	YUNN	01	0707	0717	0722	S12 W88		02	22.8	15	SN	C 3.5		P	16			
	ISTA	01	0715		0722	S15 W88		02	22.7	7	SB	C 3.5					D	
	ATHN	01	0715E	0717	0724	S10 W86		02	22.9	9D	SN	C 3.5	3	v	0717			
0007		01	0715	0718	0724	S20 E60	4104	03	5.9	9	SN				16	.3	E	
	ISTA	01	0715		0724	S21 E60	4104	03	5.9	9	SN						E	
	YUNN	01	0715	0718	0724	S20 E61	4104	03	6.0	9	SN			P	16	.3		
0008		01	0822	0822	0822	S07 W57		02	25.2	9	SN				34	1.0	E	
	KAND	01	0752E	0806U	0819	S06 W56		02	25.2	27D	SN			C	52	1.0	E	
	LEAR	01	0822	0822	0826	S08 W58		02	25.1	4	SF		3	C	16			
0009	HTPR	01	0905	0920	0930	S08 W58		02	25.1	25	SF			C	0920	40	.8	
0010	KHAR	01	0916E		0937D	S10 W90		02	22.7	21D	SF			v	0920			
0011		01	0945	0948	0955	S22 E09	4097A	03	2.1	10	SF				85	.9	E	
	HTPR	01	0945	0948	0955	S23 E09	4097A	03	2.1	10	SF			C	0948	50	.5	E
	KHAR	01	0947E		1000D	S21 E09	4097A	03	2.1	13D	SF			P	0947	120	1.3	E
0012		01	0956	1000	1016	S14 E02	4098	03	1.6	20	SN				150	1.5	EL	
	KHAR	01	0953E	1000	1024D	S13 E03	4098	03	1.6	31D	SF			P	1000	200	2.0	EL
	HTPR	01	0956	1000	1016	S15 E02	4098	03	1.6	20	SN			C	1000	100	1.0	E
0013		01	1015E		1117D	S10 W90		02	22.8	62D	SN							
	KHAR	01	1015E		1034D	S10 W90		02	22.8	19D	SF			v	1017			
	KHAR	01	1047E		1117D	S10 W90		02	22.8	30D	SN			v	1048			
0014		01	1025		1100D	S20 E62	4104	03	6.2	35D	SF				70	.8		
	HTPR	01	1025		1100D	S20 E60	4104	03	6.0	35D	SF			C	1043	40	.8	
	KHAR	01	1033E		1047D	S20 E63	4104	03	6.2	14D	SF			P	1037	100		
0015	ISTA	01	1100		1110	S21 W88		02	22.8	10	SN						D	
		01	1245		1251	No Flare Patrol												
		01	1313		1336	No Flare Patrol												
		01	1526		1525	No Flare Patrol												
0016	RAMY	01	1544	1620	1633	S14 E45	4102	03	5.0	55	SN		3	C	78			
		01	1601		1609	No Flare Patrol												
0017	RAMY	01	1615	1628	1633	S21 E37	4104	03	6.0	18	SF		3	C	38			
0018	RAMY	01	1659	1717	1839	S19 E55	4104	03	5.9	100	SN	C 1.2	3	C	30			
0019	PALE	01	1824	1831	1847	S12 E44	4102	03	5.1	23	SN	C 1.1	3	C	80		F	

H - ALPHA SOLAR FLARES

21
Mar 83

MARCH 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 ⁻⁶ Disk)	Corr (Sq Deg)			
0020	01		1854*	19103	1922	S13	E44	4102	03		5.1	28	SF	C	1.0			33			
	RAMY	01	1854	1913	1925	S14	E44	4102	03		5.1	31	SF	C	1.0	3	C	46			
	PALE	01	1910	1910	1919	S12	E44	4102	03		5.1	9	SF	C	1.0	3	C	20			
0021	RAMY	01	1931	1940	1956	S13	E48	4102	03		5.4	25	SF			3	C	137			
0022	01		1939	1940	1948	S16	W03	4098	03		1.6	9	SN	C	1.9			52		F	
	RAMY	01	1939	1940	1946	S16	W03	4098	03		1.6	7	SF	C	1.9	3	C	50			
	HOLL	01	1942E	1942U	1949	S15	W03	4098	03		1.6	70	SN	C	1.9	3	C	55		F	
0023	PALE	01	2004	2004	2016	S19	E56	4104	03		6.1	12	SF			3	C	28			
0024	01		2054	1927*	2108	S23	E51	4104	03		5.8	14	1N	C	4.9			214	2.1	EFKUZ	
	HOLL	01	1846E	1927	2104D	S24	E52	4104	03		5.8	138D	1F			3	C	247		K	
	HOLL	01	1846E	2058	2104D	S24	E52	4104	03		5.8	138D	2B			3	C	417		ZUK	
	RAMY	01	2054	2055	2101D	S24	E51	4104	03		5.8	7D	SN	C	4.9	3	C	106		F	
	CULG	01	2054	2057	2109	S21	E52	4104	03		5.8	15	1B	C	4.9		C	2057	130	2.1	
	PALE	01	2054	2058	2108	S22	E51	4104	03		5.8	14	1B	C	4.9	3	C	169		FE	
0025	01		21012	21134	2226	S15	W04	4098	03		1.6	85	1B	C	8.3			419	3.0	EFU	
	CULG	01	2101	2113	2226	S16	W04	4098	03		1.6	85	1B	C	8.3		C	2113	300	3.0	FE
	HOLL	01	2102	2114	2148D	S15	W04	4098	03		1.6	46D	2B	C	8.3	3	C	548			
	PALE	01	2103	2117	2225	S14	W04	4098	03		1.6	82	1N	C	8.3	3	C	408		U	
0026	01		22051	22082	2220	S21	E53	4104	03		6.0	15	SN	C	5.6			95	1.9	EF	
	CULG	01	2205	2208	2217	S19	E54	4104	03		6.0	12	SN	C	5.6		C	2208	110	1.9	
	PALE	01	2206	2210	2223	S19	E52	4104	03		5.9	17	SN	C	5.6	3	C	101		F	
	HOLL	01	2210E	2210U	2215D	S24	E52	4104	03		5.9	50	SB	C	5.6	2	C	75		E	
0027	01		2313*	2315*	2328	S20	E50	4104	03		5.8	15	1N	C	2.7			138	2.4	FH	
	PALE	01	2313	2315	2320	S19	E49	4104	03		5.7	7	1N	C	2.7	3	C	179			
	CULG	01	2313	2315	2330	S19	E54	4104	03		6.1	17	1N	C	2.7		C	2315	140	2.4	H
	LEAR	01	2321	2326	2331	S21	E49	4104	03		5.7	10	SN			3	C	130		F	
	PALE	01	2325	2326	2332	S19	E48	4104	03		5.6	7	SF			3	C	103			
0028	PALE	02	0023	0031	0037	S19	E53	4104	03		6.1	14	SF			3	C	46			
0029	CULG	02	0049	0054	0100	N13	W15		02		28.9	11	SN				C	0054	20	.3	
0030	02		0136*	0140*	0203	S19	E52	4104	03		6.0	27	1N	C	3.6			153	2.5	FJK	
	PALE	02	0136	0140	0157	S19	E52	4104	03		6.0	21	1N	C	3.6	3	C	166		FK	
	PALE	02	0136	0149	0157	S19	E52	4104	03		6.0	21	1N			3	C	178		K	
	CULG	02	0138	0141	0208	S19	E51	4104	03		5.9	30	1N				C	0141	180	2.9	J
	YUNN	02	0138	0142	0153	S20	E50	4104	03		5.9	15	1N				C	145		2.3	
	PALE	02	0159	0204	0214	S19	E52	4104	03		6.0	15	SB	C	2.3	3	C	103			
YUNN	02	0202	0205	0208	S20	E52	4104	03		6.1	6	1B	C	2.3		C	145		2.4		
0031	PALE	02	0318	0318	0332	S19	E51	4104	03		6.0	14	SF	C	1.0	3	C	29			
0032	PALE	02	0355	0357	0402	S17	E48	4104	03		5.8	7	SF			3	C	27			
0033	02		04191	04231	0435	S20	E49	4104	03		5.9	16	SB	C	2.4			79	1.8	F	
	LEAR	02	0419	0423	0435	S20	E49	4104	03		5.9	16	SB	C	2.4	3	C	45		F	
	YUNN	02	0420	0424	0432D	S20	E49	4104	03		5.9	12D	SB	C	2.4		P	113		1.8	
0034	YUNN	02	0616	0619	0622	S20	E50	4104	03		6.1	6	SF				C	32		.5	
0035	02		07112	0714	0721	S20	E46	4104	03		5.8	10	SF	C	1.4			74	1.1	F	
	LEAR	02	0711	0714	0719	S20	E47	4104	03		5.9	8	SF	C	1.4	3	C	82		F	
	CULG	02	0712	0714	0719	S19	E46	4104	03		5.8	7	SN	C	1.4		C	0714	80	1.1	
	HTRP	02	0713	0714	0725	S20	E46	4104	03		5.8	12	SF	C	1.4		C	0714	60	1.1	
0036	HTRP	02	0727	0727	0736	S14	E37	4102	03		5.1	9	SF				C	0727	20	.3	E
0037	02		0908	09114	0925	N16	W17		03		1.1	17	SF					38		.4	
	HTRP	02	0908	0911	0925	N17	W17		03		1.1	17	SF				C	0911	20	.2	
	CATA	02	0915E	0915	0915D	N15	W17		03		1.1	17D	S			2	P	0915	56	.6	

H - ALPHA SOLAR FLARES

MARCH 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks		
								Region	Mo Day							Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)			
0030		02	0918*	0923*	0952	S19	E46	4104	03	5.9	34	SN	C 2.4			93	1.2	EKLT		
	LEAR	02	0918	0923	0953D	S20	E45	4104	03	5.8	35D	SF		3	C	61		K		
	LEAR	02	0918	0934	0953D	S20	E45	4104	03	5.8	35D	IN C 2.4		3	C	200		K		
	KHAR	02	0921E		0924D	S17	E47	4104	03	6.0	30	SF			P	0921	100	1.6	ET	
	HTPR	02	0929	0934	0955	S20	E45	4104	03	5.8	26	SB	C 2.4		C	0934	80	1.1		
	KHAR	02	0931F	0931	1004D	S20	E46	4104	03	5.9	33D	SN			P	0931	100	1.6	ELT	
	MONT	02	0932	0935	0941	S14	E46	4104	03	5.9	9	SN	C 2.4		C	0935	70			
	HTPR	02	0937	0941	0959	S20	E48	4104	03	6.1	22	SN			C	0941	40	.6	E	
0039		02	1125	11343	1149	S18	E48	4104	03	6.1	24	SF				80	1.2	ET		
	KHAR	02	1114E	1134	1151D	S17	E49	4104	03	6.2	37D	SF			P	1134	60	.9	T	
	HTPR	02	1125	1137	1149	S19	E46	4104	03	6.0	24	SF			C	1137	100	1.4	E	
	KHAR	02	1212E		1225D	S18	E43	4104	03	6.2	13D	SF			P	1215	80	1.3	T	
0040	HTPR	02	1242	1245	1248	S20	E46	4104	03	6.0	6	SF			C	1245	50	.7	E	
0041	HTPR	02	1335	1335	1341	S20	E45	4104	03	6.0	6	SF			C	1335	30	.5	E	
0042	HTPR	02	1510	1512	1520	S18	E47	4104	03	6.2	10	SF			C	1512	20	.3		
0043	HTPR	02	1521		1646D	S25	E36	4104	03	5.4	85D	SF			C	1548	120	1.5	E	
		02	1650		1726	No Flare Patrol														
		02	1734		1753	No Flare Patrol														
		02	1859		1917	No Flare Patrol														
		02	1922		1926	No Flare Patrol														
		02	2002		2030	No Flare Patrol														
		02	2041		2055	No Flare Patrol														
		02	2102		2110	No Flare Patrol														
	0044	PALE	02	2124E	2128U	2141D	S19	E40	4104	03	5.9	17D	SF	C 2.2	3	C		60		
	0045	CULG	02	2221	2223	2227	S18	E38	4104	03	5.8	6	SN			C	2223	140	1.8	
0046		03	00052	00072	0014	S18	E33	4104	03	5.5	9	SN				112	1.4	DH		
	VORO	03	0005	0007	0018	S19	E27	4104	03	5.1	13	SN			C	0007	143	1.8	DH	
	CULG	03	0007	0009	0011	S18	E39	4104	03	6.0	4	SN			C	0009	80	1.1		
0047	CULG	03	0427	0433	0442	S08	E18	4105	03	4.5	15	SN			C	0433	170	1.7	J	
0048	YUNN	03	0610	0612	0616	S09	E17	4105	03	4.5	6	SF			C		32	.3		
0049		03	1034	10372	1058	S06	E15	4105	03	4.6	24	SN				65	.8	E		
	HTPR	03	1034	1037	1059	S09	E15	4105	03	4.6	25	SN			C	1037	80	.8	E	
	MONT	03	1034	1039	1058	S04	E15	4105	03	4.6	24	SF			C	1039	50			
0050	HTPR	03	1225	1233	1252	S09	E15	4105	03	4.6	27	SF			C	1233	50	.5	E	
0051		03	1422*	1426*	1438	S09	E14	4105	03	4.6	16	SN				60	.6	E		
	HTPR	03	1422	1426	1430	S09	E14	4105	03	4.6	8	SF			C	1426	60	.6	E	
	KANZ	03	1442E		1442D	S09	E14	4105	03	4.7	8D	SN		1						
	HTPR	03	1443	1444	1447	S09	E14	4105	03	4.7	4	SN			C	1444	60	.6	E	
0052		03	1441	1443	1451	S20	E26	4104	03	5.6	10	SF				30	.3	E		
	HTPR	03	1441	1443	1451	S20	E32	4104	03	6.0	10	SF			C	1443	30	.3	E	
	KANZ	03	1442E		1442D	S20	E20	4104	03	5.1	10D	SF		1						
0053	HTPR	03	1610	1613	1630	S09	E13	4105	03	4.6	20	SF			C	1613	50	.5	E	
		03	1648		2048	No Flare Patrol														
		03	2125		2133	No Flare Patrol														
		03	2208		2212	No Flare Patrol														
		03	2214		2229	No Flare Patrol														
		03	2308		2316	No Flare Patrol														
0054	PURP	04	0044E	0044	0052	S09	E02	4105	03	4.2	8D	SN			C	0044	34	.2	D	
0055	CULG	04	0608	0609	0620	S09	E03	4105	03	4.5	12	SN			C	0609	100	1.0		

H - ALPHA SOLAR FLARES

MARCH 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 ⁻⁶ Disk)	Corr (Sq Deg)	
0056	04	06547	0701*	0822	S17 W37	4103A	03	1.5	88	10	C	5.4				149	1.9	BEF	
	PEKG	04 0654	0701	0800	S15 W38	4103A	03	1.4	66	1N				C	0701	168	2.2	E	
	CULG	04 0701	0708U	0801U	S18 W34	4103A	03	1.7	60U	SB				P	0708	130	1.6	E	
	ATHN	04 0706E	0715	0758	S18 W38	4103A	03	1.4	520	1B	C	5.4	2	V	0715	207	2.8		
	MANI	04 0712E	0714	0755	S18 W39	4103A	03	1.3	430	1B	C	5.4	1	V		175	2.3	F	
	HTPR	04 0717E		0905	S16 W39	4103A	03	1.3	1080	SB	C	5.4		C	0717	100	1.3	BE	
	KANZ	04 0721E	0721	0852	S17 W37	4103A	03	1.5	310	1N	C	5.4	1						
	CATA	04 0745E	0750	0850U	S18 W36	4103A	03	1.6	650	S			2	P	0750	112	1.4		
0057	04	09211	09255	0946	S08 E02	4105	03	4.5	25	SF						30	.3	E	
	KANZ	04 0921	0925	0945	S09 E02	4105	03	4.5	24	SF			1						
	HTPR	04 0922	0930	0947	S08 E03	4105	03	4.6	25	SF				C	0930	30	.3	E	
0058	04	09555	10003	1010	S09 E02	4105	03	4.6	15	SN						62	.6	E	
	CATA	04 0955	1000	1010	S09 E02	4105	03	4.6	15	S			1	C	1000	84	.9		
	KANZ	04 0957	1001	1009	S09 E02	4105	03	4.6	12	SN			1						
	HTPR	04 1000	1003	1010	S08 E03	4105	03	4.6	10	SN				C	1003	40	.4	E	
0059	04	1017*	1105*	1149	S09 E02	4105	03	4.6	92	SN						60	.6	EK	
	KANZ	04 1017	1105	1125	S09 E02	4105	03	4.6	68	SN			2						
	HTPR	04 1028	1142	1210	S08 E02	4105	03	4.6	102	SF				C	1142	60	.6	EK	
	KANZ	04 1133	1141	1153	S09 E02	4105	03	4.6	20	SN			3						
0060	04	13313	13371	1350	S09 E00	4105	03	4.6	19	SN						100	1.0	E	
	HTPR	04 1331	1337	1349	S09 W01	4105	03	4.5	18	SN				C	1337	100	1.0	E	
	KANZ	04 1334	1338	1350	S09 E01	4105	03	4.6	16	SN			3						
0061	KANZ	04 1350	1350	1358	S15 W46	4103A	03	1.1	3	SF			2						
0062	HTPR	04 1422		1453D	S09 W01	4105	03	4.5	310	SN				C	1448	120	1.2	E	
0063	HTPR	04 1435		1453G	S15 E08	4102	03	5.2	180	SF				C	1444	50	.5	E	
		04 1454		1504	No Flare Patrol														
		04 1605		2034	No Flare Patrol														
		04 2220		2230	No Flare Patrol														
0064	04	2317	23231	2338	S12 E02	4102	03	5.1	21	1N						192	2.0	EIJ	
	CULG	04 2317	2323	2339	S14 E01	4102	03	5.0	22	SN				C	2323	160	1.6		
	VORO	04 2321E	2324	2336	S11 E03	4102	03	5.2	150	1F				C	2324	224	2.3	EIJ	
0065	VORO	04 2344	2346	2400	S07 W08	4105	03	4.4	16	SN				C	2346	116	1.2	CEIJ	
0066	PEKG	05 0004	0008	0013	S09 W09	4105	03	4.3	9	SN				P	0008	92	.9	E	
		05 1127		1135	No Flare Patrol														
0067	HTPR	05 1205	1207	1210	S05 W11	4105	03	4.7	5	SF				C	1207	20	.2		
0068	HTPR	05 1255		1259D	S08 W20	4105	03	4.0	40	SF				C	1257	20	.2		
0069	KANZ	05 1451	1455	1503	S14 W04	4108	03	5.3	12	SF			3					L	
0070	KANZ	05 1455	1503	1515	S08 W15	4105	03	4.5	20	SN			3						
0071	KANZ	05 1459	1507	1511	S13 W62	4103A	02	28.9	12	SF			2						
0072	KANZ	05 1546	1546	1554	S14 W03	4108	03	5.4	6	SB	C	1.5	3						
0073	KANZ	05 1557		1557D	S07 W21	4105	03	4.1	80	SB			3					D	
		05 1558		2234	No Flare Patrol														
0074	05	01223	01254	0138	S16 W60	4103A	03	1.5	16	SN						90	1.8	CD	
	CULG	06 0122	0125	0134	S18 W61	4103A	03	1.4	12	SN				C	0125	90	1.8		
	VORO	06 0125	0129	0142	S15 W60	4103A	03	1.5	17	SF				C	0129	90	1.7	CD	
0075	06	02241	02271	0236	S16 W62	4103A	03	1.4	12	SF						86	1.3	CE	
	VORO	06 0224	0228	0241	S16 W63	4103A	03	1.3	17	SF				C	0228	108	1.3	CE	
	PEKG	06 0225	0227	0230	S15 W61	4103A	03	1.5	5	SF				P	0227	63	1.3	E	

H - ALPHA SOLAR FLARES

MARCH 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 ⁻⁶ Disk)	Corr (Sq Deg)		
0076	06	0720*	0723*	0744	S14	W12	4108	03	5.4	24	1B	C	5.1		236	2.5	E		
	CULG	06	0720	0724	0743	S16	W14	4108	03	5.2	23	SB	C	5.1	C	0724	180	1.8	
	PEKG	06	0720	0726	0741	S13	W13	4108	03	5.3	21	SB	C	5.1	C	0726	60	.6	E
	MITK	06	0720	0726	0746	S14	W12	4108	03	5.4	26	2N	C	5.1	C	0726	490	5.2	
	PURP	06	0722	0723	0747	S14	W12	4108	03	5.4	25	1N	C	5.1	C	0723	248	2.6	
	CATA	06	0725	0728	0745	S14	W13	4108	03	5.3	20	1	C	5.1	2	C	0728	281	3.0
ATHN	06	0730	0735	0742	S12	W08	4108	03	5.7	12	SB			4	V	0735	159	1.7	
0077	ATHN	06	0843	0847	0855	S22	W03	4104	03	6.1	12	SN			4	V	0847	127	1.4
	06	1401		2055	No Flare Patrol														
0078	07	0340	0350	0400	N12	W76		03	1.4	20	SN	C	1.2		33		G		
	YUNN	07	0340	0350	0400	N14	W74		03	1.6	20	SN	C	1.2	C		16	G	
	CULG	07	0340	0351	0359	N11	W79		03	1.2	19	SN	C	1.2	C	0351	50		
0079	07	1106	1106	1114	S10	W42	4105	03	4.3	8	SF			1					
	07	1454		1504	No Flare Patrol														
	07	1611		1629	No Flare Patrol														
0080	CULG	07	2241	2243	2249	S24	W32	4104	03	5.5	8	SN			C	2243	40	.5	H
0081	VORO	07	2348E	2350	2356	S19	W30	4104	03	5.7	80	SN			C	2350	21	1.0	DIJ
0082	08	0002	0010	0019	S17	W28	4104	03	5.9	17	1B				166	2.0	EIJ		
	CULG	08	0002	0010	0019	S19	W28	4104	03	5.9	17	1N			C	0010	170	2.1	
	VORO	08	0002	0011	0019	S15	W28	4104	03	5.9	17	SB			C	0011	161	1.9	EIJ
0083	08	00503	0054	0104	S20	W70	4099	03	2.7	14	SN				32		CDH		
	VORO	08	0050	0054	0106	S19	W70	4099	03	2.7	16	SN			C	0054	45	CDH	
	LEAR	08	0053	0054	0101	S21	W71	4099	03	2.6	8	SF		3	C		20	H	
0084	LEAR	08	0207	0209	0229	S20	W31	4104	03	5.7	22	SF		3	C		44	F	
0085	LEAR	08	0409	0409	0414	S23	W33	4104	03	5.6	5	SF		3	C		29		
0086	LEAR	08	0414	0415	0419	S14	W39	4102	03	5.2	5	SF		3	C		20		
0087	08	0454	0455	0504	S18	W32	4104	03	5.8	10	SN	C	1.1		80	1.1	FJ		
	CULG	08	0454	0455	0501	S18	W32	4104	03	5.8	7	SN	C	1.1	C	0455	90	1.1	J
	LEAR	08	0454	0455	0508	S18	W32	4104	03	5.8	14	SF	C	1.1	3	C	69	F	
0088	08	05505	05515	0558	S24	W35	4104	03	5.5	8	SN	C	1.1		35	.5			
	CULG	08	0550	0551	0555	S25	W35	4104	03	5.5	5	SN	C	1.1	C	0551	60	.8	
	LEAR	08	0551	0556	0600	S24	W35	4104	03	5.5	9	SN	C	1.1	3	C	30		
	YUNN	08	0555	0555	0559	S22	W35	4104	03	5.5	4	SF	C	1.1	P	16	.2		
0089	HTPR	08	0715	0725	0730	S21	W72	4099	03	2.8	15	SN			C	0725	40		
0090	08	07541	07542	0811	S21	W34	4104	03	5.7	17	SF				20	.2	E		
	KANZ	08	0754	0754	0801	S21	W34	4104	03	5.7	7	SF		1					
	HTPR	08	0754	0756	0818	S19	W32	4104	03	5.9	24	SF			C	0756	20	.2	
	HTPR	08	0755	0755	0813	S22	W35	4104	03	5.6	18	SF			C	0756	20	.2	E
0091	KANZ	08	0826	0830	0833	S09	W53	4105	03	4.4	7	SF		3					
0092	08	08472	08473	0856	S23	W36	4104	03	5.6	9	SN	C	2.1		60	.6	EL		
	HTPR	08	0847	0847	0855	S23	W35	4104	03	5.7	8	SF	C	2.1	C	0847	50	.6	E
	LEAR	08	0847	0848	0857	S23	W36	4104	03	5.6	10	SF	C	2.1	3	C	75		
	WEND	08	0848	0850	0856	S22	W35	4104	03	5.7	8	SN	C	2.1	C	0850	56	.7	
	KANZ	08	0849	0849	0857	S23	W36	4104	03	5.6	8	SN	C	2.1	3			EL	
0093	08	09301	09365	0952	S19	W34	4104	03	5.8	22	SN				80	.9	EU		
	HTPR	08	0930	0936	0950	S19	W33	4104	03	5.9	20	SF			C	0936	80	.9	EU
	KANZ	08	0931	0941	0953	S19	W35	4104	03	5.7	22	SN		3					
0094	08	10482	10511	1100	S20	W34	4104	03	5.8	12	SF				30	.4	E		
	KANZ	08	1048	1052	1059	S20	W33	4104	03	5.9	11	SF		2					
	HTPR	08	1050	1051	1102	S19	W34	4104	03	5.8	12	SF			C	1051	30	.4	E

H - ALPHA SOLAR FLARES

25
Mar 83

MARCH 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF		CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
						Lat	Cmd Region									Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0095		08	1110*	1114*	1132	S22	W36	4104	03	5.7	22	SN				62	.8	E
	KANZ	08	1110	1114	1125	S24	W38	4104	03	5.5	15	SN						
	HTPR	08	1112	1115	1123	S23	W38	4104	03	5.5	11	SB			1115	50	.6	E
	CATA	08	1115	1115	1125	S23	W37	4104	03	5.6	10	1			1115	169	2.2	
	HTPR	08	1126	1131	1149	S18	W32	4104	03	6.0	23	SF			1131	20	.2	E
	HTPR	08	1128	1129	1136	S23	W35	4104	03	5.8	8	SF			1129	10	.1	
	KANZ	08	1129	1129	1136	S22	W37	4104	03	5.6	7	SF						
0096	HTPR	08	1318	1319	1323	S19	W35	4104	03	5.9	5	SF			1319	20	.2	E
0097		08	13322	1337	1345	S22	W37	4104	03	5.7	13	SF	C 1.1			23	.2	E
	HTPR	08	1332	1337	1343	S23	W36	4104	03	5.8	11	SF	C 1.1		1337	20	.2	E
	KANZ	08	1333	1337	1345	S22	W39	4104	03	5.6	12	SF	C 1.1	2				
	HTPR	08	1333	1337	1348	S19	W35	4104	03	5.9	15	SF	C 1.1		1337	20	.2	E
	RAMY	08	1334	1337	1345	S22	W38	4104	03	5.6	11	SF	C 1.1	3	C	28		
0098	KANZ	08	1353	1353	1401	S24	W38	4104	03	5.6	8	SF						
0099		08	13563	13591	1408	S14	W45	4102	03	5.2	12	SF				16	.1	
	HTPR	08	1356	1359	1408	S15	W45	4102	03	5.2	12	SF			1359	10	.1	
	RAMY	08	1359	1400	1443D	S14	W45	4102	03	5.2	44D	SF				23		
0100		08	15053	15112	1520	S03	W09	4110	03	7.9	15	SF				43	.4	E
	RAMY	08	1505	1511	1519	S04	W10	4110	03	7.9	14	SF				46		
	KANZ	08	1505	1513	1521	S03	W08	4110	03	8.0	16	SF						
	HTPR	08	1506		1651D	S03	W10	4110	03	7.9	103D	SF			1610	40	.4	E
0101		08	15416	15455	1603	S10	W54	4105	03	4.6	22	SF				48		
	KANZ	08	1541	1545	1549	S11	W52	4105	03	4.7	8	SF						
	RAMY	08	1547	1550	1617	S08	W57	4105	03	4.4	30	SF				48		
0102		08	15429	1544*	1604	S23	W38	4104	03	5.7	22	SN				34	.3	F
	HTPR	08	1542	1544	1631	S23	W37	4104	03	5.8	49	SB			1544	40	.5	
	HOLL	08	1544	1544	1550	S22	W40	4104	03	5.6	6	SN				45		
	KANZ	08	1545	1545	1557	S23	W40	4104	03	5.6	12	SN						
	RAMY	08	1547E	1555	1600	S23	W38	4104	03	5.7	13D	SF				40		F
	HTPR	08	1551		1651D	S24	W34	4104	03	6.0	60D	SF			1553	10	.1	
0103	HOLL	08	1710	1712	1714D	S07	W59	4105	03	4.3	4D	SF				24		
0104	HOLL	08	1711	1712	1714D	S19	W40	4104	03	5.7	3D	SF				21		
		08	1715		1718	No Flare Patrol												
0105	PALE	08	1758	1759	1808	S02	W10	4110	03	8.0	10	SF				21		
0106		08	1827	1827	1834	S18	W41	4104	03	5.6	7	SF				28		
	HOLL	08	1827	1827	1833	S18	W41	4104	03	5.6	6	SF				20		
	PALE	08	1827	1827	1835	S19	W41	4104	03	5.6	8	SF				36		
0107		08	18411	1843	1849	S08	W58	4105	03	4.4	8	SF				14		F
	HOLL	08	1841	1843	1850	S07	W57	4105	03	4.5	9	SF				15		F
	PALE	08	1842	1843	1848	S08	W58	4105	03	4.4	6	SF				14		
0108	HOLL	08	1918	1933	1949	S07	W59	4105	03	4.4	31	SF				66		
0109	HOLL	08	1956	2001	2020	S20	W42	4104	03	5.6	24	SN	C 2.1			77		F
0110	HOLL	08	2050	2051	2055	S12	W48	4102	03	5.2	5	SF				18		H
0111	HOLL	08	2117	2118	2132	S07	W60	4105	03	4.4	15	SF				29		
0112		08	2141	21412	2150	S14	W49	4102	03	5.2	9	SN				54	.6	F
	CULG	08	2141	2141	2143	S16	W49	4102	03	5.2	2	SN			2141	40	.6	
	HOLL	08	2141	2143	2156	S13	W49	4102	03	5.2	15	SN				69		F
0113	HOLL	08	2153	2157	2203	S06	W59	4105	03	4.5	10	SF				47		F

H - ALPHA SOLAR FLARES

MARCH 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0114	HOLL	08	2221	2221	2231	S18	W43	4104	03	5.6	10	SF		3	C		20		
0115	HOLL	08	2301	2311	2317	S12	W49	4102	03	5.3	16	SF		3	C		21		
0116		09	00098	0017*	0051	S20	W41	4104	03	5.9	42	SN					142	1.9	EF
	CULG	09	0009	0017	0052	S21	W41	4104	03	5.9	43	IN			C	0017	190	2.6	
	PALE	09	0011E	0011U	0048D	S21	W39	4104	03	6.0	37D	SF		3	C		75		F
	HOLL	09	0017	0017	0048	S18	W42	4104	03	5.8	31	1B		3	C		207		E
	LEAR	09	0020E	0020U	0104	S20	W41	4104	03	5.9	44D	SF		2	C		159		F
	YUNN	09	0023E	0028	0040	S22	W44	4104	03	5.6	17D	SF			P		80	1.2	
0117		09	02303	02323	0239	S24	W40	4104	03	6.0	9	SN					64	1.3	
	CULG	09	0230	0232	0240	S25	W39	4104	03	6.1	10	SN			C	0232	100	1.3	
	PALE	09	0233	0235	0238	S24	W40	4104	03	6.0	5	SF		3	C		27		
0118		09	04341	04363	0442	S09	W64	4105	03	4.4	8	SF					44	1.3	
	CULG	09	0434	0439	0443	S10	W64	4105	03	4.4	9	SF			C	0439	60	1.3	
	LEAR	09	0435	0436	0442	S08	W65	4105	03	4.3	7	SF		3	C		29		
0119	ISTA	09	0703		0712	S20	W48	4104	03	5.6	9	SF							E
0120	KANZ	09	0741E	0741	0747	S03	W17	4110	03	8.0	6D	SN		3					
0121	HTPR	09	0749E		0756D	N04	W20	4113	03	7.8	7D	SF			C	0753	20	.2	
0122		09	0754	07583	0814	S20	W46	4104	03	5.8	20	SF					31		
	LEAR	09	0754	0758	0811	S20	W45	4104	03	5.9	17	SF		3	C		31		
	KANZ	09	0754	0801	0817	S20	W46	4104	03	5.8	23	SF		3					
0123	ISTA	09	0825		0828	N08	W17	4113	03	8.1	3	SF							D
0124		09	08313	08391	0849	S21	W48	4104	03	5.7	18	SF					25	.4	
	KANZ	09	0831	0840	0851	S21	W49	4104	03	5.6	20	SF		3					
	WEND	09	0834	0839	0847	S21	W48	4104	03	5.7	13	SF			C	0839	25	.4	
0125	HTPR	09	0837E		0841D	S16	W50	4108	03	5.6	4D	SF			C	0841	20	.3	
0126	KANZ	09	0847	0851	0856	S02	W18	4110	03	8.0	9	SF		3					
0127	HTPR	09	0852E		0856D	N04	W20	4113	03	7.9	4D	SF			C	0852	30	.2	
0128	KANZ	09	0915	0919	0926	S13	W73	4102	03	3.9	11	SF		3					G
0129	KANZ	09	0949	0952	1012	S22	W49	4104	03	5.6	23	SF		2					L
0130	HTPR	09	1046	1110	1125	N04	W21	4113	03	7.9	39	SF			C	1110	20	.2	
0131		09	11055	11078	1120	S18	W50	4104	03	5.6	15	SF					33	.6	
	HTPR	09	1105	1107	1119	S15	W50	4104	03	5.7	14	SF			C	1107	10	.2	
	CATA	09	1110	1115	1120	S21	W51	4104	03	5.5	10	S		2	C	1115	56	.9	
0132		09	12111	1212	1218	S18	W50	4104	03	5.7	7	SF					41	.3	
	RAMY	09	1211	1212	1220	S21	W49	4104	03	5.7	9	SF		3	C		62		
	HTPR	09	1212	1212	1215	S16	W52	4104	03	5.6	3	SF			C	1212	20	.3	
0133	RAMY	09	1253	1256	1304	S03	W21	4110	03	8.0	11	SF		3	C		23		
0134	HTPR	09	1336	1345	1400	N04	W23	4113	03	7.8	24	SN	C 1.2		C	1345	60	.6	E
0135	RAMY	09	1340	1345	1402	S03	W20	4110	03	8.1	22	SN	C 1.2	3	C		100		
0136	HTPR	09	1446	1447	1450	S16	W52	4108	03	5.7	4	SN			C	1447	50	.8	
0137	RAMY	09	1458	1504	1548	S03	W21	4110	03	8.0	50	SN		3	C		54		
0138	HTPR	09	1502		1504D	N04	W19	4113	03	8.2	2D	SF			C	1504	40	.4	
0139	HOLL	09	1612	1613	1617	S18	W51	4104	03	5.8	5	SF		3	C		26		

H - ALPHA SOLAR FLARES

27
Mar 83

MARCH 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 ⁻⁶ Disk)	Corr (Sq Deg)		
0140	HOLL	09	1625	1626	1637	S19	W52	4104	03	5.7	12	SF		3	C			31		
0141	PALE	09	1732	1733	1740	S02	W23	4110	03	8.0	8	SF		3	C			29		
0142	HOLL	09	1821	1828	1830	S19	W53	4104	03	5.7	9	SF		3	C			22		
0143	PALE	09	2034	2035	2041	S03	W24	4110	03	8.1	7	SF		3	C			34		
0144		10	0004*	0009*	0048	S08	W76	4105	03	4.3	44	SN	C 7.5					103		EFU
	LEAR	10	0004	0010U	0026	S08	W76	4105	03	4.3	22	SF		2	C					F
	HOLL	10	0006	0009	0056D	S07	W77	4105	03	4.2	50D	SN		3	C			92		UF
	MANI	10	0006E	0010	0025	S09	W77	4105	03	4.2	19D	SF		1	V					F
	PALE	10	0007	0009	0024	S09	W76	4105	03	4.3	17	SF		3	C					F
	PEKG	10	0007	0010	0016	S08	W74	4105	03	4.4	9	SN			C	0010		76		E
	YUNN	10	0027E	0047	0112	S08	W74	4105	03	4.5	45D	IN	C 7.5		P			96		
	PALE	10	0028	0048	0118	S08	W73	4105	03	4.5	50	SF	C 7.5	3	C					F
	PURP	10	0049E	0050	0139	S09	W80	4105	03	4.0	50D	IN	C 7.5		C	0050		148		
0145		10	00584	01022	0112	S02	W28	4110	03	7.9	14	SF						94		1.3
	YUNN	10	0058	0103	0111	S01	W29	4110	03	7.9	13	SF			C			80		.9
	CULG	10	0059	0103	0109	S02	W27	4110	03	8.0	10	SF			C	0103		110		1.2
	PURP	10	0059	0104	0122	S03	W28	4110	03	7.9	23	SN			C	0104		140		1.7
	PALE	10	0102	0102	0108	S03	W29	4110	03	7.9	6	SF		3	C			44		
0146	PURP	10	0158E	0158	0215	S03	W30	4110	03	7.8	17D	SF			C	0158		27		.3
0147		10	0244	02479	0310	S02	W30	4110	03	7.9	26	SF						36		.4
	PURP	10	0244	0247	0310	S03	W30	4110	03	7.9	26	SF			C	0247		40		.5
	YUNN	10	0251E	0256	0311	S01	W29	4110	03	7.9	20D	SF			P			32		.4
0148		10	02591	03012	0315	S21	W52	4104	03	6.1	16	SN	C 1.1					40		.8
	LEAR	10	0259	0301	0317	S22	W51	4104	03	6.2	18	SN	C 1.1	3	C			34		
	PURP	10	0300	0303	0312	S21	W52	4104	03	6.1	12	SN	C 1.1		C	0303		54		.9
	YUNN	10	0304E	0304U	0315	S21	W53	4104	03	6.1	11D	SN	C 1.1		P	0304		32		.6
0149	YUNN	10	0439E	0439	0448	S01	W31	4110	03	7.9	9D	SF			P			32		.4
0150		10	0455*	0505*	0618	S02	W37	4110	03	7.4	83	SN						68		1.0
	YUNN	10	0455	0505	0511D	S01	W35	4110	03	7.6	16D	SN			P			48		.6
	LEAR	10	0504	0512	0610	S04	W38	4110	03	7.4	66	SF		3	C			29		
	CULG	10	0507	0542	0625	S02	W39	4110	03	7.3	78	SF			C	0542		130		1.7
	YUNN	10	0553	0557	0608D	S02	W36	4110	03	7.5	15D	SN			P			64		.8
0151	CATA	10	0820	0835	0900	S33	W63		03	5.3	40	I		1	C	0835		169		3.9
0152		10	0820*	0841*	1020	S24	W55	4104	03	6.1	120	1N	M 1.1					280		5.6
	CATA	10	0820	0850	1035	S26	W58	4104	03	5.8	135	2	M 1.1	2	C	0850		478		9.3
	LEAR	10	0834	0909	0932D	S26	W58	4104	03	5.8	58D	1N	M 1.1	3	C			194		F
	PEKG	10	0835	0841	0900D	S24	W59	4104	03	5.8	25D	1N	M 1.1		C	0841		168		3.6
	WEND	10	0835	0920	1047	S23	W52	4104	03	6.3	132	2N			C	0920		306		5.6
	ISTA	10	0840		0945	S23	W53	4104	03	6.3	65	2B								KU
	ATHN	10	0850	0853	1015	S22	W50	4104	03	6.5	85	1B		3	V	0853		255		4.0
	KANZ	10	0944E	0952	1018	S24	W56	4104	03	6.1	34D	1N		2						
0153	KANZ	10	1059	1103	1119	S23	W54	4104	03	6.3	20	1F								
0154	KANZ	10	1119	1123	1131	S15	W70	4102	03	5.2	12	SN								
0155		10	1144	1153	1233	S22	W57	4104	03	6.1	49	1N						138		4.0
	RAMY	10	1144	1153	1238	S22	W57	4104	03	6.1	54	SN		3	C			57		
	HTPR	10	1154E		1228	S23	W57	4104	03	6.1	34D	1N			C	1200		220		4.0
0156	KANZ	10	1147	1151	1159	S17	W77	4102	03	4.6	12	SF								
0157		10	12231	12235	1241	S04	W34	4110	03	8.0	18	SF						43		.7
	KANZ	10	1223	1223	1235	S04	W34	4110	03	8.0	12	SF		1						E
	HTPR	10	1223	1228	1250	S03	W35	4110	03	7.9	27	SF			C	1228		60		.7
	RAMY	10	1224	1228	1238	S04	W34	4110	03	8.0	14	SF		3	C			26		

H - ALPHA SOLAR FLARES

MARCH 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 ⁻⁶ Disk)	Corr (Sq Deg)			
0158	KANZ	10	12433	1247*	1312	S22	W57	4104	03	6.1	29	SF						31			
	KANZ	10	1243	1247	1303	S23	W54	4104	03	6.4	20	SF		1							
	RAMY	10	1246	1258	1322	S21	W60	4104	03	5.9	36	SF		3	C					31	
0159	HTPR	10	13332	13343	1342	S08	W83	4105	03	4.3	9	SN						26		D	
	HTPR	10	1333	1337	1340	S08	W85	4105	03	4.2	7	SF			C	1337		20			
	KANZ	10	1334	1334	1346	S09	W89	4105	03	3.9	12	SB		1						D	
	RAMY	10	1335	1337	1340	S06	W74	4105	03	5.0	5	SF		3	C					33	
0160		10	15101	15143	1524	S08	W87	4105	03	4.1	14	SN	C 1.0							30	
	KANZ	10	1510	1514	1522	S07	W89	4105	03	4.0	12	SN	C 1.0	1							
	WEND	10	1511	1515	1521	S11	W89	4105	03	3.9	10	SN	C 1.0		C	1515		25			
	HTPR	10	1511	1515	1526	S08	W86	4105	03	4.2	15	SF	C 1.0		C	1515		20			
	HOLL	10	1511	1517	1528	S07	W85	4105	03	4.3	17	SF	C 1.0	3	C			46			
0161	HOLL	11	0018	0026	0039	S01	W42	4110	03	7.9	21	SF			C					30	
0162		11	0112*	0146*	0234	S04	W48	4110	03	7.5	82	SF	C 1.3					124	2.4	EFJK	
	CULG	11	0112	0207	0246	S05	W48	4110	03	7.4	94	1N			C	0207		260	3.9	K	
	LEAR	11	0120	0146	0218	S03	W45	4110	03	7.7	58	SF	C 1.3	3	C			71		F	
	PALE	11	0121E	0148U	0157D	S05	W45	4110	03	7.7	360	SF	C 1.3	3	C			35		F	
	YUNN	11	0128	0152	0230	S02	W50	4110	03	7.3	62	SN	C 1.3		C			48	.8		
	VORO	11	0134	0150	0300D	S02	W50	4110	03	7.3	86D	1F	C 1.3		C	0150		206	3.2	EJ	
	PEKG	11	0142	0159	0240	S03	W49	4110	03	7.4	58	SN			P	0159		126	2.0	E	
	PURP	11	0155	0228	0251D	S07	W51	4110	03	7.2	56D	SF			C	0228		121	2.0		
0163	KANZ	11	0937	0937	0945	S23	W70	4104	03	6.0	8	SF								1	
0164	KANZ	11	1017	1017	1032	S16	W80	4102	03	5.4	15	SF								1	
0165	KANZ	11	1252	1258	1310	S16	W80	4102	03	5.5	18	SF								1	
		11	1659		1705	No Flare Patrol															
		11	1822		1826	No Flare Patrol															
		11	1921		1927	No Flare Patrol															
		11	2013		2018	No Flare Patrol															
0166	YUNN	12	0031E	0045	0045D	S09	E01	4114	03	12.1	14D	SN			P			32	.3		
0167	ABST	12	0650	0657	0710	S09	W04	4114	03	12.0	20	SF			C	0657		131	1.5	E	
		12	1901		1902	No Flare Patrol															
		12	1925		1941	No Flare Patrol															
		13	2153		2158	No Flare Patrol															
0168	PEKG	14	0546	0547	0548	S06	W88	4110	03	7.6	2	SF			P	0547		50		E	
0169	YUNN	14	0617	0623	0700	S07	E89	4116	03	20.9	43	SN			C			16		A	
0170	PEKG	14	0624	0628	0642	S06	W86	4110	03	7.7	18	SF			P	0628		42		E	
0171	YUNN	14	0651	0657	0658	S13	E60	4115	03	18.8	7	SN			C			32	.6	D	
		14	1022		1034	No Flare Patrol															
0172		14	1150	1200	1200	S11	E86	4118	03	21.0	10	1F						56		OH	
	KHAR	14	1148E		1205D	S13	E83	4118	03	20.7	17D	SF			P	1153				OH	
	CATA	14	1150	1200	1200	S09	E90	4118	03	21.2	10	1		1	P	1200		56			
		14	1206		1229	No Flare Patrol															
		14	1306		1339	No Flare Patrol															
		14	1410		1425	No Flare Patrol															
		14	1536		1542	No Flare Patrol															
0173	HOLL	14	1639	1705	1708	S14	E56	4115	03	18.9	29	SF			C			18			
0174	HOLL	14	1651	1654	1656	S05	E84	4116	03	21.0	5	SF			C			11			

H - ALPHA SOLAR FLARES

29
Mar 83

MARCH 1983

Grp #	Sta	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	
																	(10 ⁻⁶ Disk)	Apparent Corr (Sq Deg)		
0175	HOLL	14	1713	1721	1732	S07	E82	4116	03	20.8	19	SF		3	C		25		F	
0176	HOLL	14	1733	1739	1744	S14	E56	4115	03	19.0	11	SF		3	C		47			
0177	HOLL	14	1757	1818	1819	S05	E83	4116	03	20.9	22	SF		3	C		25			
0178	HOLL	14	1832	1833	1841	S08	E84	4116	03	21.1	9	SF		3	C		16			
0179	HOLL	14	1904	1919	1938	S09	E72	4116	03	20.2	34	SF		3	C		45			
0180	HOLL	14	1907	1909	1923	S14	E54	4115	03	18.9	16	SF		3	C		21			
0181	HOLL	14	2137	2142	2149	S07	E78	4116	03	20.7	12	SF		3	C		13			
		14	2208		2232	No Flare Patrol														
0182	HOLL	14	2323	2329	2345	S08	E77	4116	03	20.7	22	SF		3	C		19			
0183	YUNN	15	0224E	0229	0241D	N19	W03	4117	03	14.9	17D	SN			P		80		.9	
0184	YUNN	15	0313	0315	0326	N20	W04	4117	03	14.8	13	SN			C		96		1.1	
		15	0353		0359	No Flare Patrol														
0185		15	0409Z	04166	0444	S18	E58	4115	03	19.6	35	SF	C 1.0				107		2.2	EFGS
	LEAR	15	0409E	0409U	0447	S19	E58	4115	03	19.6	38D	SF	C 1.0	2	C		89			FS
	YUNN	15	0409	0422	0441	S18	E58	4115	03	19.6	32	SN	C 1.0		C		64		1.2	
	PURP	15	0411	0416	0445	S18	E59	4115	03	19.7	34	1F	C 1.0		C	0416	168		3.3	EG
0186	YUNN	15	0650	0653	0659	S13	E49	4115	03	19.0	9	SN			C		48		.8	
0187	ABST	15	0833E	0841	0853D	S08	E74	4116	03	20.9	20D	1F			P	0841	87			D
		15	1232		1237	No Flare Patrol														
		15	1244		1248	No Flare Patrol														
		15	1312		1351	No Flare Patrol														
		15	1417		1418	No Flare Patrol														
		15	1514		1524	No Flare Patrol														
0188	RAMY	15	1539	1545	1554	S15	E44	4115	03	19.0	15	SF		3	C		56			
0189	HOLL	15	1814	1815	1827	N19	W11	4117	03	14.9	13	SN		3	C		58			F
0190		15	1853I	1856	1942	S08	E71	4116	03	21.1	49	SN	C 3.0				66			F
	HOLL	15	1853	1856	1951	S08	E72	4116	03	21.2	58	SN	C 3.0	3	C		83			F
	RAMY	15	1854	1856	1932	S09	E70	4116	03	21.0	38	SN	C 3.0	3	C		49			
		15	2039		2045	No Flare Patrol														
		15	2136		2324	No Flare Patrol														
0191	LEAR	16	0034	0036	0042	S14	E41	4115	03	19.1	8	SF		3	C		19			
0192	LEAR	16	0110	0112	0121	S07	E63	4116	03	20.8	11	SF	C 1.1	3	C		39			
0193		16	0111	0113	0126	S12	E39	4115	03	19.0	15	SN					37		.5	F
	LEAR	16	0111	0113	0127	S14	E39	4115	03	19.0	16	SF		3	C		34			F
	CULG	16	0112E	0112U	0126	S10	E39	4115	03	19.0	14D	SN			P	0112	40		.5	
0194		16	0135Z	0138I	0144	S06	E68	4116	03	21.1	9	SF					39		1.3	
	CULG	16	0135	0139	0142	S03	E68	4116	03	21.1	7	SF			C	0139	50		1.3	
	LEAR	16	0136	0138	0146	S08	E69	4116	03	21.2	10	SF		3	C		44			
	PALE	16	0138	0139	0143	S07	E66	4116	03	21.0	5	SF		2	C		14			
0195		16	0314I	0317Z	0330	S13	E36	4115	03	18.8	16	SF	C 1.4				54		.7	E
	PEKG	16	0314	0317	0330	S13	E36	4115	03	18.8	16	SF	C 1.4		C	0317	59		.7	F
	PALE	16	0315	0324	0330	S13	E36	4115	03	18.8	15	SF	C 1.4	2	C		49			
0196		16	0338Z	0341Z	0400	S14	E36	4115	03	18.9	22	SN	C 1.5				80		1.2	EF
	LEAR	16	0340	0350	0409	S14	E36	4115	03	18.9	21	SN	C 1.5	3	C		67			F
	PEKG	16	0340	0350	0401	S14	E36	4115	03	18.9	21	SF	C 1.5		C	0350	92		1.2	E

30
Mar 83

H - ALPHA SOLAR FLARES

MARCH 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
						Lat	Cmd	Region							Mo	Day		Apparent (10 ⁻⁶ Disk)
0197		16	0426	04314	0447	S14	E35	4115	03	18.8	21	SN			30	.4	E	
	PEKG	16	0426	0431	0440	S13	E35	4115	03	18.8	14	SF	C	0431	34	.4	E	
	PURP	16	0435E	0435	0454	S15	E35	4115	03	18.8	19D	SN	P	0435	27	.3		
0198	PEKG	16	0531	0534	0556	S14	E35	4115	03	18.9	25	SF	C	0534	29	.4	E	
0199	ABST	16	0656	0704	0710	S14	E35	4115	03	18.9	14	SN	C	0704	87	.9	D	
0200	ABST	16	0710	0713	0725	N18	W22	4117	03	14.6	15	SF	C	0713	87	1.1	D	
0201	ABST	16	0715	0718	0728	S07	E58	4116	03	20.6	13	1F	C	0718	131	2.6	EK	
0202	PEKG	16	0737	0741	0749	S13	E34	4115	03	18.9	12	SF	C	0741	17	.2	D	
0203	PEKG	16	0757	0802	0810	S13	E34	4115	03	18.9	13	SF	C	0802	25	.3	E	
0204		16	0826E		0900	S12	E33	4115	03	18.8	34D	SF			20	.2	E	
	HTPR	16	0826E		0900	S12	E33	4115	03	18.8	34D	SF	C	0835	20	.2	E	
	KHAR	16	0910E		0920D	S13	E33	4115	03	18.9	10D	SF	V	0910			E	
0205	HTPR	16	1109E		11130	S12	E32	4115	03	18.9	4D	SF	C	1111	20	.2		
0206		16	1745	1752	1806	S08	E51	4116	03	20.6	21	SF			33		F	
	PALE	16	1745	1752	1800	S08	E51	4116	03	20.6	15	SF	3	C	40		F	
	HOLL	16	1745	1752	1812	S09	E51	4116	03	20.6	27	SF	3	C	26			
0207	PALE	16	1756	1800	1803	S13	E29	4115	03	18.9	7	SF	3	C	22			
0208	HOLL	16	1815	1816	1822	S09	E52	4116	03	20.7	7	SF	3	C	25			
0209	HOLL	16	1846	1850	1858	S07	E56	4116	03	21.0	12	SF	C 1.0	3	C	24		
0210		16	19241	19262	1932	S09	E52	4116	03	20.7	8	SF			42			
	RAMY	16	1924	1928	1936	S10	E55	4116	03	20.9	12	SF	3	C	56			
	PALE	16	1925	1926	1928	S08	E49	4116	03	20.5	3	SF	3	C	29			
0211		16	21032	2106*	2343	S08	E51	4116	03	20.7	160	SF	C 7.3		87		FHK	
	PALE	16	2103	2120	2137D	S08	E47	4116	03	20.4	34D	SF	3	C	108			
	HOLL	16	2105	2106	2346D	S07	E53	4116	03	20.8	161D	SF	3	C	26		K	
	HOLL	16	2105	2209	2346D	S07	E53	4116	03	20.8	161D	1N	C 7.3	3	C	186		FHK
LEAR	16	2334E	2337	2343	S10	E52	4116	03	20.9	9D	SF	3	C	27				
0212	HOLL	17	0015	0015	0052D	S08	E48	4116	03	20.6	3D	SF	C 3.2	3	C	27		F
0213	PURP	17	0031	0036	0110	S09	E52	4116	03	20.9	39	1N	C	0036	295	4.9	E	
0214	PURP	17	0132	0158	0213	S09	E48	4116	03	20.7	41	1F	C	0158	134	2.1		
0215		17	02231	0225*	0401	S08	E50	4116	03	20.8	98	SB M 1.1			90	2.0	DEK	
	PALE	17	0223	0226	0252	S06	E49	4116	03	20.8	29	SN M 1.1	3	C	73			
	PURP	17	0224	0225	0513	S09	E50	4116	03	20.8	169	SB M 1.1	C	0225	94	1.5	DK	
	LEAR	17	0224	0227	0246	S07	E52	4116	03	21.0	22	SB M 1.1	3	C	45			
	PURP	17	0224	0242	0513	S09	E51	4116	03	20.9	169	1N	C	0242	148	2.4	E	
0216	LEAR	17	0441	0445	0556	S08	E46	4116	03	20.6	75	SF	C 4.0	3	C	43		
0217		17	06565	0701	0705	S14	E25	4115	03	19.2	9	SN			58	.9	D	
	ABST	17	0656	0701	0706	S14	E25	4115	03	19.2	10	SN	C	0701	87	.9	D	
	LEAR	17	0701	0701	0704	S14	E25	4115	03	19.2	3	SF	3	C	30			
0218		17	0714*	0723*	0748	S06	E46	4116	03	20.7	34	SN	C 2.7		95	1.4	EF	
	MITK	17	0714	0731	0746D	S07	E47	4116	03	20.8	32D	1N	C	0731	270	4.0	E	
	ABST	17	0721	0724	0755	S08	E45	4116	03	20.7	34	SN	C	0724	131	1.9	E	
	PURP	17	0723E	0723	0758	S09	E45	4116	03	20.7	35D	SF	C 2.7	C	0723	67	1.0	
	LEAR	17	0723	0724	0753	S07	E46	4116	03	20.7	30	SN	C 2.7	3	C	99		F
	CULG	17	0723	0725	0738	S02	E46	4116	03	20.7	15	SN	C 2.7	C	0725	40	.6	
	BUCA	17	0724E		0746	S07	E44	4116	03	20.6	22D	SN	C 2.7	C	0724	107	1.5	E
	HTPR	17	0724	0728	0748	S06	E43	4116	03	20.5	24	SN	C 2.7	C	0726	40	.5	E
	CATA	17	0730	0735	0745	S08	E45	4116	03	20.7	15	S	2	P	0735	84	1.2	
	HTPR	17	0732	0733	0737	S05	E50	4116	03	21.0	5	SF	C	0733	20	.3		

H - ALPHA SOLAR FIARES

31
Mar 83

MARCH 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 ⁻⁶ Disk)	Apparent (Sq Deg)	
0219	HTPR	17	0723E		0737	S12	E24	4115	03	19.1	140	SF			C	0725	40	.4	E
0220	KANZ	17	0824	0824	0832	S06	E49	4116	03	21.0	8	SF		3					
0221	KANZ	17	0824	0828	0832	S14	E24	4115	03	19.2	8	SF		3					
0222		17	08596	09048	0938	S07	E47	4116	03	20.9	39	1B M	2.2				188	2.8	EF
	KANZ	17	0859	0907	0943	S07	E45	4116	03	20.7	44	SB		3					
	LEAR	17	0900	0904	0940	S08	E48	4116	03	21.0	40	1B M	2.2	3	C		223		F
	HTPR	17	0901	0905	0930	S09	E47	4116	03	20.9	29	SB M	2.2		C	0905	80	1.2	E
	KAND	17	0901	0909	0952	S07	E47	4116	03	20.9	51	1B M	2.2		C		187	2.8	E
	MANI	17	0904E	0905U	0908D	S03	E50	4116	03	21.1	40	SB M	2.2	1	V		80	1.3	F
	KHAR	17	0905E		0945D	S08	E46	4116	03	20.8	40D	1N M	2.2		P	0907	250	3.8	E
	PEKG	17	0905	0912	0946	S07	E47	4116	03	20.9	41	1N M	2.2		C	0912	160	2.4	F
	CATA	17	0907E	0907	0915	S08	E48	4116	03	21.0	8D	2 M	2.2	2	P	0907	337	5.2	
0223	HTPR	17	0943	1011	1026	S06	E41	4116	03	20.5	43	SF			C	1011	30	.4	E
0224		17	1034I	10362	1048	S08	E46	4116	03	20.9	14	SN					26	.4	D
	KAND	17	1034	1036	1040	S07	E49	4116	03	21.1	6	SN			C		21	.3	D
	KAND	17	1035	1038	1055	S08	E42	4116	03	20.6	20	SN			C		31	.4	D
0225		17	1057*	1100*	1118	S07	E44	4116	03	20.7	21	SN					70	1.0	EHL
	KHAR	17	1056E	1100	1114D	S07	E46	4116	03	20.9	18D	SN			P	1106	130	1.9	EH
	KANZ	17	1057	1102	1113	S06	E48	4116	03	21.0	16	SN		3					
	HTPR	17	1057	1105	1118	S10	E46	4116	03	20.9	21	SB			C	1105	100	1.4	E
	KAND	17	1100	1104	1110	S06	E46	4116	03	20.9	10	SB			C		42	.6	E
	HTPR	17	1102	1106	1119	S06	E38	4116	03	20.3	17	SN			C	1106	10	.1	
	KANZ	17	1109	1121	1133	S09	E40	4116	03	20.5	24	SN		3					L
0226		17	1128*	1143*	1212	S08	E41	4116	03	20.5	44	SF					45	.4	E
	HTPR	17	1128	1143	1157	S06	E40	4116	03	20.5	29	SF			C	1143	30	.4	E
	KANZ	17	1141	1149	1212	S08	E41	4116	03	20.6	31	SF		3					
	RAMY	17	1151E	1151U	1214	S08	E43	4116	03	20.7	23D	SF		3	C		85		
	HTPR	17	1207	1209	1225	S09	E41	4116	03	20.6	18	SF			C	1209	20	.3	
0227		17	1223*	12333	1242	S05	E44	4116	03	20.8	19	SN					30	.4	DE
	HTPR	17	1223	1233	1245	S06	E39	4116	03	20.4	22	SN			C	1233	40	.5	E
	KANZ	17	1232	1236	1240	S05	E47	4116	03	21.0	8	SN		3					J
	HTPR	17	1235	1236	1240	S05	E47	4116	03	21.0	5	SF			C	1236	20	.3	
0228		17	1333*	1337*	1416	S08	E43	4116	03	20.8	43	SN					79	1.4	EL
	KANZ	17	1333	1337	1405	S07	E45	4116	03	20.9	32	SB		3					L
	HTPR	17	1334	1338	1355	S09	E45	4116	03	20.9	21	SB			C	1338	120	1.7	E
	RAMY	17	1359	1401	1416	S08	E43	4116	03	20.8	17	SF		3	C		36		
	HTPR	17	1400	1435	1450	S09	E40	4116	03	20.6	50	SN			C	1435	80	1.0	E
0229		17	1458I	1459I	1509	S07	E39	4116	03	20.5	11	SN C	2.6				76	.9	EF
	HOLL	17	1458	1459	1512	S07	E38	4116	03	20.5	14	SN C	2.6	3	C		87		F
	KANZ	17	1459	1459	1503D	S07	E41	4116	03	20.7	4D	SN C	2.6	3					
	RAMY	17	1459	1500	1508	S07	E40	4116	03	20.6	9	SN C	2.6	3	C		81		
	HTPR	17	1459	1500	1508	S06	E38	4116	03	20.5	9	SB C	2.6		C	1500	60	.9	E
0230		17	19398	19496	2002	S06	E42	4116	03	21.0	23	SN C	1.0				52		F
	RAMY	17	1939	1955	2000	S06	E42	4116	03	21.0	21	SN C	1.0	3	C		56		
	HOLL	17	1947	1949	2003	S06	E43	4116	03	21.0	16	SN C	1.0	3	C		49		F
0231		17	2011I	20134	2103	S08	E42	4116	03	21.0	52	1B M	5.2				377		KUZ
	HOLL	17	2011	2013	2101	S08	E42	4116	03	21.0	50	1B M	5.2	3	C		358		UK
	HOLL	17	2011	2017	2101	S08	E42	4116	03	21.0	50	1B M	5.2	3	C		434		K
	RAMY	17	2012	2014	2106	S07	E42	4116	03	21.0	54	1B M	5.2	3	C		340		Z
0232	CULG	17	2157	2159	2205	S13	E14	4115	03	19.0	8	SN			C	2159	50	.5	
0233		17	2308	2313	2320	S14	E14	4115	03	19.0	12	SN					52	.7	
	CULG	17	2308	2313	2318	S13	E14	4115	03	19.0	10	SN			C	2313	70	.7	
	LEAR	17	2315E		2322	S14	E14	4115	03	19.0	7D	SF		2	C		35		

:- ALPHA SOLAR FLARES

MARCH 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0234		17	23237	23284	2344	S06	E39	4116	03	20.9	21	SN	C	6.1			68	1.5	H	
	CULG	17	2323	2328	2346	S05	E39	4116	03	20.9	23	SN	C	6.1		2328	110	1.5	H	
	LEAR	17	2330	2332	2342	S08	E39	4116	03	20.9	12	SN	C	6.1	3	C		27		H
0235		18	0038*	0051*	0138	S13	E12	4115	03	18.9	60	SB	C	5.4			174	2.0	EFJK	
	PEKG	18	0038	0052	0135	S13	E11	4115	03	18.8	57	SB	C	5.4		C	0052	113	1.2	FK
	PEKG	18	0038	0102	0135	S13	E11	4115	03	18.8	57	SB	C	5.4		C	0102	160	1.7	F
	HOLL	18	0048E	0049U	0105D	S10	E11	4115	03	18.8	17D	SN	C	5.4	2	C		75		F
	CULG	18	0048	0104U	0104D	S12	E12	4115	03	18.9	16D	1B	C	5.4		P	0104	240	2.5	
	MITK	18	0049	0101	0138	S13	E12	4115	03	18.9	49	1N	C	5.4		C	0101	220	2.3	E
	LFAR	18	0050	0051	0158	S15	E13	4115	03	19.0	68	SN	C	5.4	3	C		177		F
	VORO	18	0050	0059	0120	S12	E12	4115	03	18.9	30	1N	C	5.4		C	0059	242	2.5	EJ
	PURP	18	0053E	0107	0140	S15	E14	4115	03	19.1	47D	SB	C	5.4		C	0107	161	1.7	E
0236		18	01533	01566	0219	S07	E37	4116	03	20.8	26	SN	M	1.1			148	2.1	EFHJ	
	CULG	18	0153	0159	0214	S05	E39	4116	03	21.0	21	SN	M	1.1		C	0159	110	1.4	
	LEAR	18	0154	0156	0224	S08	E37	4116	03	20.8	30	SB	M	1.1	3	C		119		H
	PALE	18	0154	0157	0223	S08	E37	4116	03	20.8	29	SN	M	1.1	3	C		93		F
	PURP	18	0154	0157	0237	S09	E37	4116	03	20.8	43	SN				C	0157	154	2.0	
	VORO	18	0154	0202	0212	S09	E32	4116	03	20.5	18	1F				C	0202	188	2.2	EHJ
	YUNN	18	0155E	0157	0211	S07	E39	4116	03	21.0	16D	1N				P		189	2.5	F
	PEKG	18	0156	0202	0212	S07	E37	4116	03	20.8	16	1N				C	0202	185	2.4	F
	0237		18	04382	04414	0505	S07	E36	4116	03	20.9	27	1N	M	1.7			179	2.4	EF
CULG		18	0438	0443	0450	S06	E40	4116	03	21.2	12	1N	M	1.7		C	0443	180	2.4	
MITK		18	0439	0445	0515	S06	E37	4116	03	21.0	36	SN	M	1.7		C	0445			E
PEKG		18	0440	0441	0451	S08	E34	4116	03	20.7	11	1N	M	1.7		C	0441	197	2.4	F
LEAR		18	0440	0444	0454	S07	E38	4116	03	21.0	14	SB	M	1.7	3	C		138		F
PURP		18	0441E	0445	0538	S10	E33	4116	03	20.7	57D	1N	M	1.7		C	0445	201	2.5	E
0238	LEAR	18	0548	0550	0554	S13	E13	4115	03	19.2	6	SF			3	C		26		
0239		18	08019	08084	0834	S11	E09	4115	03	19.0	33	1B	C	4.2			296	2.9	EFJ	
	LEAR	18	0801	0808	0851	S11	E12	4115	03	19.2	50	1B	C	4.2	3	C		351		F
	HTPR	18	0805	0808	0845	S11	E09	4115	03	19.0	40	1B	C	4.2		C	0808	250	2.5	E
	PEKG	18	0806	0808	0820	S11	E09	4115	03	19.0	14	1N	C	4.2		P	0808	210	2.2	FJ
	ABST	18	0806	0809	0830	S11	E08	4115	03	18.9	24	1N	C	4.2		C	0809	436	4.4	E
	YUNN	18	0807E	0807U	0830	S12	E09	4115	03	19.0	23D	SB	C	4.2		P	0807	157	1.6	E
	PURP	18	0809E	0810	0838	S13	E09	4115	03	19.0	29D	1B	C	4.2		C	0810	201	2.1	
	CATA	18	0810	0810	0825	S12	E09	4115	03	19.0	15	1	C	4.2	2	P	0810	281	2.9	
	BUCA	18	0810E	0812	0835	S10	E08	4115	03	18.9	25D	1N	C	4.2		C	0812	483	5.0	E
0240	HTPR	18	1047	1050	1105	S07	E31	4116	03	20.8	18	SN				C	1050	20	.2	
0241	KANZ	18	1258	1302	1306	S14	E08	4115	03	19.1	8	SF			3					
0242		18	13245	13322	1339	S10	E41	4118	03	21.6	15	SN					39	.4	E	
	KANZ	18	1324	1332	1340	S10	E41	4118	03	21.6	16	SN			3					
	HTPR	18	1325	1333	1338	S10	E40	4118	03	21.6	13	SF				C	1333	30	.4	E
	RAMY	18	1329	1334	1339	S11	E41	4118	03	21.6	10	SN			3	C		48		
0243		18	14133	14182	1435	S07	E30	4116	03	20.8	22	SB	C	3.3			59	.3		
	RAMY	18	1413	1420	1445	S08	E31	4116	03	20.9	32	SB	C	3.3	3	C		88		
	KANZ	18	1415	1418	1429	S07	E30	4116	03	20.8	14	SB	C	3.3	3					
	HTPR	18	1416	1419	1430	S07	E30	4116	03	20.8	14	SB	C	3.3		C	1419	30	.3	
0244	KANZ	18	1444	1448	1456	S13	E01	4115	03	18.7	12	SF			3					
0245		18	14536	1508	1525	S06	E30	4116	03	20.9	27	SN	C	1.2			71	.3	EF	
	HTPR	18	1458	1508	1523	S07	E29	4116	03	20.8	25	SB	C	1.2		C	1508	30	.3	E
	RAMY	18	1459	1508	1536	S06	E31	4116	03	20.9	37	SN	C	1.2	3	C		140		
	KANZ	18	1504	1508	1517	S05	E31	4116	03	20.9	13	SN	C	1.2	3					E
	HOLL	18	1507E	1507U	1522D	S05	E30	4116	03	20.9	15D	SF	C	1.2	3	C		43		F
0246	HTPR	18	1538	1542	1553	S10	E39	4118	03	21.6	15	SF				C	1542	20	.2	E
0247		18	1549*	1555*	1630	S13	E06	4115	03	19.1	41	SF					41	.5	EF	
	HTPR	18	1549	1555	1607	S11	E06	4115	03	19.1	18	SF				C	1555	50	.5	E
	RAMY	18	1550	1556	1609	S13	E06	4115	03	19.1	19	SN			3	C		43		
	HOLL	18	1550E	1621	1652	S12	E07	4115	03	19.2	62D	SF			3	C		29		F
	RAMY	18	1632	1641	1650	S15	E03	4115	03	18.9	18	SF			3	C		41		

H - ALPHA SOLAR FLARES

33
Mar 83

MARCH 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
						Region	Lat CMD								Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0248	RAMY	18	1744	1745	1825	S15 E02	4115	03	18.9	41	SF	3	C		30		
0249		18	1851	1854	1922	S08 E28	4116	03	20.9	31	1B C 3.5				203		EF
	RAMY	18	1851	1854	1925	S08 E28	4116	03	20.9	34	1B C 3.5	3	C		226		
	HOLL	18	1852	1854	1920	S08 E28	4116	03	20.9	28	SB C 3.5	3	C		180		FE
		18	2101		2229	No Flare Patrol											
0250	LEAR	19	0029	0035	0047	S13 E02	4115	03	19.2	18	SF	3	C		23		
0251	LEAR	19	0159	0200	0210	S13 E00	4115	03	19.1	11	SF	3	C		73		
0252		19	0300B	0305*	0323	S12 E00	4115	03	19.1	23	SF C 1.1				61		F
	LEAR	19	0300	0305	0307	S12 E01	4115	03	19.2	7	SF	3	C		51		F
	LEAR	19	0308	0316	0339	S12 W01	4115	03	19.0	31	SF C 1.1	3	C		71		
0253	LEAR	19	0557	0605	0654	S07 E20	4116	03	20.7	57	SF	3	C		42		F
0254	ABST	19	0628E	0630	0638	S14 W05	4115	03	18.9	10D	SF		P	0630	37	.9	D
0255		19	08003	0805	0818	S13 W06	4115	03	18.9	18	SN				38	.4	
	CATA	19	0800	0805	0815	S13 W06	4115	03	18.9	15	S	2	C	0805	56	.6	
	HTPR	19	0803	0805	0822	S13 W05	4115	03	18.9	19	SN		C	0805	20	.2	
0256	HTPR	19	0853	0855	0905	S12 W01	4115	03	19.3	12	SF		C	0855	10	.1	
		19	1002		1004	No Flare Patrol											
0257	HTPR	19	1040	1041	1102	S14 W04	4115	03	19.1	22	SF		C	1041	50	.5	
0258	HTPR	19	1201	1208	1220	S13 W04	4115	03	19.2	19	SN		C	1208	60	.6	E
0259	HTPR	19	1304	1323	1338	S13 W04	4115	03	19.2	34	SN		C	1323	50	.5	E
0260		19	14201	14231	1436	S14 W04	4115	03	19.3	16	SN				35	.4	
	HTPR	19	1420	1423	1442	S14 W04	4115	03	19.3	22	SF		C	1423	40	.4	
	RAMY	19	1421	1424	1431	S14 W04	4115	03	19.3	10	SN	3	C		30		
0261	HTPR	19	1535	1540	1544	S14 W05	4115	03	19.3	9	SF		C	1540	30	.3	
0262	HTPR	19	1637		1639	S06 E15	4116	03	20.8	2	SN		C	1639	150	1.5	E
		19	1640		1942	No Flare Patrol											
		19	1948		2233	No Flare Patrol											
0263	PALE	20	0046	0048U	0110	S12 W10	4115	03	19.3	24	SF	3	C		42		
0264	YUNN	20	0118	0120	0136	S14 E64	4120	03	24.9	18	SN		C		31	.7	
0265		20	01271	01305	0156	S13 W13	4115	03	19.1	29	SN C 1.0				64	.9	E
	YUNN	20	0124E	0132	0200	S12 W14	4115	03	19.0	36D	SB C 1.0		P		94	1.0	E
	LEAR	20	0127	0130	0150	S14 W11	4115	03	19.2	23	SF C 1.0	3	C		41		
	PALE	20	0128	0132	0142	S13 W13	4115	03	19.1	14	SF C 1.0	3	C		40		
	PURP	20	0128	0135	0210	S13 W14	4115	03	19.0	42	SF C 1.0		C	0135	81	.8	E
0266		20	0254	02559	0325	S12 W13	4115	03	19.1	31	SN C 1.2				58	.7	EF
	PALE	20	0254	0255	0324	S12 W12	4115	03	19.2	30	SF C 1.2	3	C		40		F
	LEAR	20	0254	0259	0322	S13 W13	4115	03	19.1	28	SF C 1.2	3	C		46		F
	PURP	20	0257E	0259	0330	S13 W15	4115	03	19.1	33D	SN C 1.2		C	0259	67	.7	E
	PEKG	20	0257E	0300U	0326D	S13 W13	4115	03	19.1	29D	SN C 1.2		P	0300	59	.6	E
	YUNN	20	0302E	0304	0324	S12 W14	4115	03	19.1	22D	SN C 1.2		P		79	.8	E
0267	PURP	20	0348E	0348	0426	S15 W14	4115	03	19.1	38D	SF		P	0348	54	.6	
0268	LEAR	20	0525	0530	0559	S13 W15	4115	03	19.1	34	SN C 1.8	3	C		71		F
0269		20	06505	0533	0707	S10 E03	4116	03	20.5	17	SN				102	1.2	DEF
	ABST	20	0650	0653	0705	S11 E02	4116	03	20.4	15	SN		C	0653	131	1.3	F
	CATA	20	0650	0655	0700	S12 E02	4116	03	20.4	10	S	1	C	0655	169	1.7	
	YUNN	20	0652E	0656U	0656D	S11 E02	4116	03	20.4	40	SN		P	0656	79	.8	F
	LEAR	20	0653	0656	0714	S13 E02	4116	03	20.4	21	SF	3	C		44		F
	ABST	20	0655	0656	0710	S06 E06	4116	03	20.7	15	SF		C	0656	37	.9	D

H - ALPHA SOLAR FLARES

35
Mar 83

MARCH 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Area Measurement		Remarks		
								USAF/Region						Mo	Day		(Min)	Opt
0287	LEAR	24	0052	0053	0127	S12	W29	4121	03	21.8	35	SF	3	C	108		F	
0288	CATA	24	0340E	0840	0855	S11	W05	4120	03	24.0	15D	S	1	P	0840	84	.9	
0289	HOLL	24	1511	1511	1517	S13	E00	4120	03	24.6	6	SF	3	C		20		
0290		24	17331	17342	1746	S08	W54	4116	03	20.7	13	SF				30	F	
	PALE	24	1733	1734	1748	S08	W54	4116	03	20.7	15	SF	3	C		33	F	
	RAMY	24	1734	1736	1745	S07	W53	4116	03	20.8	11	SF	3	C		26		
		24	2207		2232	No Flare Patrol												
0291	CULG	24	2327	2334	2342D	S17	E44	4123	03	28.3	15D	SF		P	2334	100	1.4	
		25	0221		0228	No Flare Patrol												
0292	YUNN	25	0247E	0247U	0252	S17	E88	4127	03	31.8	5D			P	0247		AG	
0293		25	0302	0305	0318	S13	W40	4121	03	22.1	16	SN				48	.7	E
	CULG	25	0302	0305	0316	S13	W38	4121	03	22.2	14	SN		C	0305	50	.7	
	YUNN	25	0305E	0305U	0321	S13	W42	4121	03	21.9	16D	SN		P	0305	47	.7	E
0294	ABST	25	0554E	0557	0558D	N21	W43	4124	03	21.9	4D	SF		P	0557	87	1.4	E
0295	HTPR	25	1051	1058	1109	S15	W09	4120	03	24.8	18	SF		C	1058	30	.3	E
0296		25	1420	1432	1455	S09	E76	4125	03	31.3	35	SN C 2.0				58		EF
	HTPR	25	1420	1432	1455	S07	E75	4125	03	31.2	35	SF C 2.0		C	1432	50		E
	HOLL	25	1422E	1437U	1451D	S11	E76	4125	03	31.3	29D	SN C 2.0	2	C		65		F
0297		25	1430	1436	1515	S11	W68	4116	03	20.5	45	SN				30	.7	
	HTPR	25	1430	1436	1515	S14	W68	4116	03	20.5	45	SF		C	1436	30	.7	
	HOLL	25	1434E	1436U	1451D	S08	W67	4116	03	20.6	17D	SN	3	C		30		
		25	1758		1802	No Flare Patrol												
		25	1813		1824	No Flare Patrol												
		25	1829		1835	No Flare Patrol												
		25	1843		1851	No Flare Patrol												
		25	2158		2224	No Flare Patrol												
0298	VORO	25	2318	2320	2327	N20	W58	4124	03	21.5	9	SF		C	2320	27	.6	DJ
0299		25	23345	23425	2400	N20	W52	4124	03	22.0	26	SN				28	.6	DFJ
	MANI	25	2334	2342	2403	N20	W55	4124	03	21.8	29	SN	1	V		30	.6	F
	VORO	25	2339	2343	2352	N20	W52	4124	03	22.0	13	SN		C	2343	36	.7	DJ
	LEAR	25	2339	2347	2404	N19	W50	4124	03	22.2	25	SN	3	C		19		
0300	LEAR	26	0127	0127	0138	N20	W56	4124	03	21.8	11	SF	3	C		17		
0301		26	0219	02192	0227	S14	W20	4120	03	24.6	8	SN				51	.9	FG
	YUNN	26	0218E	0219	0228	S13	W20	4120	03	24.6	10D	SN		P		79	.9	FG
	LEAR	26	0219	0221	0226	S14	W19	4120	03	24.7	7	SF	3	C		23		
0302		26	02246	0231*	0332	N21	W59	4124	03	21.6	68	SN C 1.2				45	1.7	DE
	YUNN	26	0224	0231	0301	N21	W61	4124	03	21.4	37	SN		C		16		D
	LEAR	26	0230	0242	0403	N20	W58	4124	03	21.7	93	SN C 1.2	3	C		43		
	PEKG	26	0245E	0246	0248D	N22	W59	4124	03	21.6	3D	SF C 1.2		C	0246	76	1.7	E
0303		26	05591	0609	0621	N22	W62	4124	03	21.5	22	1N				102		EJ
	YUNN	26	0559	0609	0621	N22	W64	4124	03	21.3	22	SN		C		47		
	ABST	26	0600	0609	0712D	N22	W60	4124	03	21.6	72D	1N		P	0609	157		EJ
0304		26	0717*	07326	0746	N21	W60	4124	03	21.7	29	1N				111		BEJ
	YUNN	26	0717	0734	0743	N21	W61	4124	03	21.6	26	1B		C		94		
	LEAR	26	0730	0732	0749	N20	W59	4124	03	21.8	19	SF	3	C		65		
	ABST	26	0738E	0738	0800D	N21	W61	4124	03	21.6	22D	1N		P	0738	175		BEJ
		26	0816		0850	No Flare Patrol												

H - ALPHA SOLAR FLARES

MARCH 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
															Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
			26 0944	0949		No Flare Patrol											
0305	HTPR	26	0950E		1300	N17 W67	4124	03	21.3	1900	SF		C	1121	60	1.4	
0306		26	14553	14594	1540	N20 W64	4124	03	21.7	45	SF				16		
	HOLL	26	1455	1503	1541	N21 W64	4124	03	21.7	46	SF	3	C		17		
	RAMY	26	1458	1459	1538	N20 W63	4124	03	21.8	40	SF	3	C		16		
0307		26	1551	1646	1731	N20 W64	4124	03	21.8	100	SN C 1.4				51		H
	HOLL	26	1543E	1648U	1805	N20 W65	4124	03	21.7	1420	SN C 1.4	3	C		54		H
	RAMY	26	1551	1646	1657	N20 W64	4124	03	21.8	66	SF C 1.4	3	C		48		
0308	RAMY	26	1705	1716	1725	N20 W63	4124	03	21.9	20	SF	3	C		31		
0309		26	1728*	1747	1754	N20 W66	4124	03	21.7	26	SN				20		
	RAMY	26	1728	1747	1757	N20 W63	4124	03	21.9	29	SN	3	C		26		
	PALE	26	1743	1747	1752	N20 W68	4124	03	21.5	9	SN	3	C		13		
0310	PALE	26	1814	1816	1820	N19 W69	4124	03	21.5	6	SN	3	C				
0311	PALE	26	1851	1856	1904	N19 W69	4124	03	21.5	13	SF	3	C				
0312		26	1913	19182	1925	N20 W66	4124	03	21.7	12	SN				39		
	PALE	26	1913	1918	1925	N19 W68	4124	03	21.6	12	SN	3	C		32		
	RAMY	26	1913	1920	1925	N21 W65	4124	03	21.8	12	SN	3	C		46		
0313		26	20514	21027	2110	N21 W66	4124	03	21.8	19	SN				14		
	HOLL	26	2051	2109	2115	N22 W70	4124	03	21.5	24	SN	3	C		12		
	RAMY	26	2055	2102	2106	N20 W63	4124	03	22.0	11	SF	3	C		17		
0314	KANZ	27	0745	0746	0758	S17 E67	4127	04	1.4	13	SF	1					
0315	KANZ	27	1037		1037D	S11 W71	4121	03	22.1	130	SN	1					
			27 1038	1103		No Flare Patrol											
0316	KANZ	27	1238		1330D	S12 W73	4121	03	22.0	520	SF	1					
0317		27	1841	19082	1930	S16 E32	4128	03	30.2	49	SN C 1.2				124		FU
	HOLL	27	1841	1908	1938	S17 E32	4128	03	30.2	57	SN C 1.2	3	C		139		F
	PALE	27	1859E	1910	1923	S15 E33	4128	03	30.3	240	SF C 1.2	4	C		110		U
0318	YUNN	28	0058	0111	0121	S02 E90		04	3.8	23			C				AG
0319		28	0753	0754*	0835	S16 E24	4128	03	30.1	42	1N C 1.2				194	2.2	EF
	YUNN	28	0752E	0754	0837	S15 E25	4128	03	30.2	450	1N		P		204	2.3	F
	PEKG	28	0753	0825	0838	S17 E23	4128	03	30.1	45	SF		C	0025	84	.9	E
	ABST	28	0754E	0756	0801D	S16 E24	4128	03	30.1	70	1N C 1.2		P	0756	279	3.2	F
	CATA	28	0805E	0805	0840	S16 E24	4128	03	30.1	350	1 C 1.2	1	P	0805	309	3.5	
	ATHN	28	0807E	0815	0825	S15 E25	4128	03	30.2	180	SN	3	V	0815	95	1.2	
0320		28	1017	1026	1041	S16 E27	4128	03	30.5	24	SN						E
	KHAR	28	1015E		1022D	S15 E29	4128	03	30.6	70	SN		P				E
	KANZ	28	1017	1026	1041	S16 E25	4128	03	30.3	24	SN	3					
0321	KAND	28	1217	1222	1233	S16 E23	4128	03	30.2	16	SN		C		52	.6	L
			28 1401	2041		No Flare Patrol											
			28 2055	2103		No Flare Patrol											
0322		29	01123	01221	0142	S14 E17	4128	03	30.3	30	SF				104	1.0	E
	CULG	29	0112	0122	0134	S14 E17	4128	03	30.3	22	SF		C	0122	120	1.2	
	PEKG	29	0115	0123	0150	S13 E17	4128	03	30.3	35	SF		C	0123	88	.9	E
0323		29	01142	01184	0130	S16 E24	4125	03	30.9	16	1F				190	2.0	EJ
	VORO	29	0114	0122	0132	S15 E22	4125	03	30.7	18	1F		C	0122	349	3.6	EJ
	CULG	29	0116	0118	0128	S16 E26	4125	03	31.0	12	SF		C	3	30	.3	

MARCH 1983

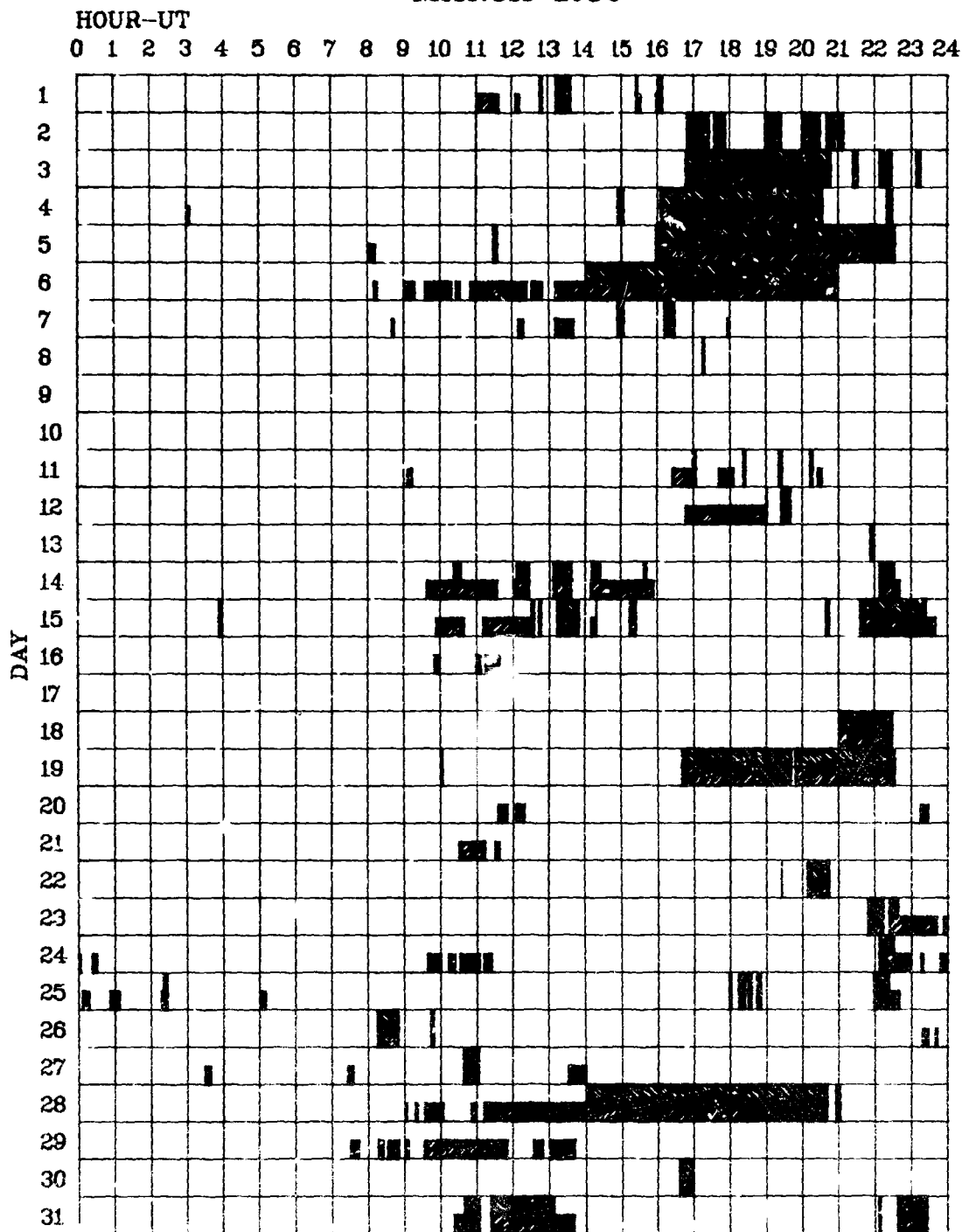
Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP Mo	Dur Day	Imp (Min)	Opt	Xray	Imp See	Obs Type	Area Measurement [†]		Remarks		
																Time (UT)	Apparent (10 ⁻⁶ D/sk)		Corr (Sq Deg)	
0324	YUNN	29	0852E	0852U	0500	S16	E39	4127	04	1.3	80	SF			P	0852	31	.4		
0325	HTPR	29	1550E		1601	S19	E11	4132	03	30.5	110	SF			C	1556	20	.2		
0326	HOLL	29	2033	2040	2059	S17	E05	4128	03	30.2	26	SN		3	C		53		F	
0327		30	0030E	0037S	0054	S16	E31	4127	04	1.4	24	IN					191	2.6	EFJ	
	HOLL	30	0030	0036U	0052	S17	E31	4127	04	1.4	22	SN		2	C		101		F	
	CULG	30	0032	0040	0050	S15	E30	4127	04	1.3	18	SN			P	0040	120	1.4	F	
	YUNN	30	0033	0037	0058	S16	E31	4127	04	1.4	25	IN			C		220	2.7	F	
	VORO	30	0034	0040	0055	S17	E31	4127	04	1.4	19	1F			C	0040	323	3.8	EJ	
0328	YUNN	30	0420	0425	0436	S18	E31	4127	04	1.5	18	SF			C		63	.8		
0329	ABST	30	0507	0511	0521	S20	E32	4129	04	1.7	14	SF			C	0511	87	1.1	DK	
0330	ABST	30	0711	0712	0720	S20	E32	4129	04	1.7	9	1F			C	0712	218	2.6	EV	
0331	LEAR	30	0847	0848	0852	S18	E27	4127	04	1.4	5	SF		3	C		24			
0332	HTPR	30	0901	0904	0912	S19	E28	4127	04	1.5	11	SF			C	0904	20	.2		
0333	HTPR	30	0917	0920	0940	S18	E27	4127	04	1.5	23	SF			C	0920	30	.3		
0334		30	1002E	1008S	1122	S18	E27	4127	04	1.5	80	SF					41	.4	E	
	KAND	30	1002	1008	1015	S19	E28	4127	04	1.5	13	SF			C		42	.5	E	
	HTPR	30	1010	1130	1230	S18	E26	4127	04	1.4	140	SF			C	1130	40	.4	E	
0335	HTPR	30	1335	1345	1420	S12	E20	4127	04	1.1	45	SF			C	1345	60	.6	E	
0336	HTPR	30	1443		1531D	S18	E26	4127	04	1.6	480	SF			C	1520	40	.4	E	
		30	1635		1659	No Flare Patrol														
0337		31	0323	0324	0328	S18	E20	4127	04	1.7	5	SN					20	.3		
	CULG	31	0323	0324	0328	S17	E19	4127	04	1.6	5	SN			C	0324	20	.3		
	PALE	31	0324	0324	0327	S18	E20	4127	04	1.7	3	SF		3	C		20			
		31	1039		1105	No Flare Patrol														
		31	1122		1309	No Flare Patrol														
		31	2206		2210	No Flare Patrol														
		31	2238		2326	No Flare Patrol														

"Remarks":

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>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.</p> | <p>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 lines.
 Y = System of loop-type prominences.
 Z = Major sunspot umbra covered by flare.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

MARCH 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 | Paiehua | Voroshilov |
| Catania | Istanbul | Lvov | Peking | Wendelstein |
| | Kandilli | Manila | Purple Mt. | Yunnan |

H - ALPHA SOLAR FLARES

41.
Apr 83

APRIL 1983

Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP No	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks		
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)			
0037		07	0119	01221	0135	S11	E15	4137	04	8.2	16	SF						85	1.2	EHIJ	
	LEAR	07	0119	0122	0136	S11	E15	4137	04	8.2	17	SF		3	C			57			
	PALE	07	0119	0123	0133	S11	E15	4137	04	8.2	14	SF		3	C			54			
	VORO	07	0119	0123	01450	S10	E16	4137	04	8.2	260	SN				0123		179	1.9	EHIJ	
	MANI	07	0122E	0123	0135	S11	E15	4137	04	8.2	130	SF		1	V			50	.5		
0038		07	01443	01463	0204	S19	W68	4129	04	1.9	20	SN						63	.9	EF	
	CULG	07	0144	0146	0159	S21	W68	4129	04	1.8	15	SN			C	0146		50		F	
	PURP	07	0144	0146	0205	S21	W71	4129	04	1.6	21	IN			C	0146		90		E	
	LEAR	07	0144	0146	0210	S17	W69	4129	04	1.8	25	SN		3	C			80		F	
	PALE	07	0146	0147U	0204	S20	W67	4129	04	1.9	18	SN		3	C			51		F	
	MANI	07	0147	0149	02020	S19	W67	4129	04	2.0	150	SN		1	V			45	.9	F	
0039		07	0149*	0154*	0244	S11	E14	4137	04	8.1	55	SN	C 2.5					124	1.4	FU	
	CULG	07	0149	0154	0247	S10	E14	4137	04	8.1	58	IN			C	0154		220	2.2	F	
	LEAR	07	0150	0155	0249	S11	E13	4137	04	8.0	59	SN	C 2.5	3	C			141		F	
	PURP	07	0150	0157U	0232	S11	E14	4137	04	8.1	42	SB	C 2.5		C	0157		110	1.2		
	PALE	07	0153E	0200U	0249	S11	E14	4137	04	8.1	560	SN		3	C			164		UF	
	PALE	07	0210E	0218	0238	S11	E16	4137	04	8.4	280	SF		3	C			23			
	PEKG	07	0214	0229	0250	S11	E14	4137	04	8.1	36	SN			P	0229		84	.9	FU	
0040	HTRP	07	1202		12170	S17	W85	4127	04	1.0	150	SF			C	1207		10			
0041	HTRP	07	1257E		13010	S17	W85	4127	04	1.1	40	SN			C	1301		20			
0042	KANZ	07	1402	1414	1427	S10	E09	4137	04	8.3	25	SF		3							
0043	KANZ	07	1406	1410	1418	S15	E50	4138	04	11.4	12	SF		3							
		07	1428		1455	No Flare Patrol															
		07	1505		1703	No Flare Patrol															
0044	PALE	07	1716	1729	1755	S10	E05	4137	04	8.1	39	SF		3	C			54			
		07	1857		1911	No Flare Patrol															
		07	1921		1940	No Flare Patrol															
		07	1944		2000	No Flare Patrol															
		07	2024		2048	No Flare Patrol															
		07	2101		2109	No Flare Patrol															
0045	PALE	08	0009	0012	0015	S17	E45	4138	04	11.4	6	SF		3	C			22			
0046		08	0017	0020	0040	S10	E03	4137	04	8.2	23	SN	C .5					90	1.5	EFIJ	
	PALE	08	0017	0020	0029	S10	E04	4137	04	8.3	12	SF	C .5	3	C			38		F	
	VORO	08	0017	0020	0050	S10	E02	4137	04	8.2	33	SN			C	0020		143	1.5	EIJ	
0047		08	00449	0044*	0107	S17	E44	4138	04	11.4	23	SF						48	1.1	DJK	
	PALE	08	0044	0044	0104	S17	E44	4138	04	11.4	20	SF		3	C			25		K	
	PALE	08	0044	0053	0104	S17	E44	4138	04	11.4	20	SF		3	C			39		K	
	VORO	08	0053	0054	0112	S16	E43	4138	04	11.3	19	SN			C	0054		81	1.1	DJ	
0048		08	01176	01225	0141	S16	E44	4138	04	11.4	24	SF						56	.9	DJ	
	LEAR	08	0117	0124	0139	S17	E44	4138	04	11.4	22	SF		3	C			47			
	PALE	08	0117	0127	01440	S16	E42	4138	04	11.2	270	SF		3	C			52			
	MANI	08	0120E	0122	0143	S17	E45	4138	04	11.5	230	SF		1	V			35	.5		
	VORO	08	0123	0127	01350	S16	E43	4138	04	11.3	120	SN			C	0127		90	1.3	DJ	
0049	ABST	08	0620E	0623	0640	S15	E40	4138	04	11.3	200	SN			P	0623		131	1.7	EHK	
0050	ABST	08	0621	0625	0645	S10	E01	4137	04	8.3	24	SN			C	0625		174	1.8	F	
0051	KAND	08	1002	1014	1018	S17	E38	4138	04	11.3	16	SF			C			21	.3	D	
0052	RAMY	08	1203	1203	1210	S11	W01	4137	04	8.4	7	SN		3	C			46		F	
0053		08	.257*	1313	1322	S16	E36	4138	04	11.3	25	SB						40	.5	D	
	KAND	08	1257	1313	1328	S17	E37	4138	04	11.3	31	SB			C			37	.5	D	
	RAMY	08	1309	1313	1316	S16	E35	4138	04	11.2	7	SN		3	C			43			

42
Apr 83

H - ALPHA SOLAR FLARES

APRIL 1983

Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP Mo	Dur Day	(Min)	Imp Opt	Xray	See	Obs Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (So Deg)		
0054	RAMY	08 1607	1608	1648	S12 W01	4135	04	8.6	41		SF		3	C		81			
0055	RAMY	08 1657	1702	1707	S15 E34	4138	04	11.3	10		SN C 1.3		3	C		43			
0056	PALE	08 1728	1728	1739	S15 E34	4138	04	11.3	11		SF		4	C		29			
0057	PALE	08 1751	1756	1801	S15 E33	4138	04	11.2	10		SF		4	C		35			
0058	08 18036	1812	1817	S15 E33	4138	04	11.2	14		SN C .6						66			
	RAMY 08 1803	1812	1817	S15 E33	4138	04	11.2	14		SN C .6		3	C			68			
	PALE 08 1809	1812	1817	S15 E33	4138	04	11.2	8		SF C .6		4	C			63			
	08 2009		2026	No Flare Patrol															
	08 2034		2053	No Flare Patrol															
	08 2105		2115	No Flare Patrol															
	08 2132		2210	No Flare Patrol															
	08 2214		2218	No Flare Patrol															
0059	PALE	09 0256	0300	0305	S11 W16	4137	04	7.9	9		SF		3	C		26			
0060	LEAR	09 0258	0300	0303	S18 E29	4138	04	11.3	5		SF		3	C		46			
0061	09 04553	04588	0519	S11 W08	4135	04	8.6	24		SN C 2.3					135	1.3	EFHJK		
	MITK 09 0455	0458	0524	S12 W08	4135	04	8.6	29		SN			C	0458					
	CULG 09 0455	0459	0510D	S11 W09	4135	04	8.5	150		SB			P	0459	90	.9	EK		
	ABST 09 0456E	0502	0523	S11 W09	4135	04	8.5	270		SN			P	0502	192	2.0	FHJ		
	PEKG 09 0458	0506	0510	S11 W09	4135	04	8.5	12		SN C 2.3			C	0506	101	1.0	E		
	LEAR 09 0502E	0503	0518	S12 W08	4135	04	8.6	160		SN C 2.3		2	C		157		H		
0062	ABST	09 0607E	0607	0632D	S10 W16	4137	04	8.0	250		SF			P	0607	157	1.6	EJ	
0063	09 08152	08173	0831	S18 E26	4138	04	11.3	16		SN C 1.1					114	1.6	E		
	CATA 09 0815	0820	0830	S18 E25	4138	04	11.2	15		S		1	C	0820	140	1.6			
	LEAR 09 0816	0819	0834	S18 E25	4138	04	11.2	18		SF C 1.1		3	C		77				
	ISTA 09 0817		0827	S18 E26	4138	04	11.2	10		SN C 1.1							E		
	KANZ 09 0817	0817	0837	S17 E27	4138	04	11.4	20		SN		3							
YUNN 09 0822E	0822U	0828	S18 E26	4138	04	11.3	60		SN			P	0822	126	1.5	E			
0064	KANZ	09 0910	0918	0926	S15 E26	4138	04	11.3	16		SN		3						
0065	09 11107	11191	1140	S18 E25	4138	04	11.4	30		SN C 1.1					86	1.3	F		
	CATA 09 1110	1120	1130	S18 E25	4138	04	11.4	20		S		1	C	1120	112	1.3			
	RAMY 09 1117	1119	1149	S17 E25	4138	04	11.4	32		SN C 1.1		3	C		60		F		
0066	HOLL	09 1512	1515	1529	S18 E21	4138	04	11.2	17		SN C 1.0		4	C		110		FH	
0067	HOLL	09 1603	1604	1607	S08 E39	4140	04	12.6	4		SF		3	C		18			
0068	09 1635	1635*	1704	S10 E64		04	14.5	29		SF C .6					47		F		
	HOLL 09 1635	1635	1707	S11 E64		04	14.5	32		SF		4	C		37		F		
	RAMY 09 1635	1648	1701	S10 E65		04	14.6	26		SF C .6		3	C		57				
0069	09 17441	1745	1805	S18 E20	4138	04	11.3	21		SN C .5					42		F		
	HOLL 09 1744	1745	1809	S18 E20	4138	04	11.3	25		SN C .5		3	C		44		F		
	RAMY 09 1745	1745	1801	S17 E21	4138	04	11.3	16		SF C .5		3	C		41				
0070	HOLL	10 0025	0026	0028	S12 W24	4137	04	8.2	3		SF		3	C		34			
0071	10 07219	07269	0745	S10 E58		04	14.7	24		SF					132	3.0			
	LEAR 10 0721	0730	0740	S11 E58		04	14.7	19		SF		3	C		85				
	KANZ 10 0722	0726	0726D	S10 E58		04	14.7	40		SF		1							
	MANI 10 0724	0731	0738D	S10 E58		04	14.7	140		SF		1	V		95	1.7			
	BUCA 10 0728		0756	S09 E58		04	14.7	28		IF			P	0730	215	4.1			
	ATHN 10 0730	0735	0740	S10 E60		04	14.8	10		IF		4	V	0735	134	3.2			
0072	KANZ	10 0956	1000	1008	S07 E29	4140	04	12.6	12		SN		3					D	
0073	KANZ	10 1245	1248	1300	S09 W33	4137	04	8.0	15		SF		2						

H - ALPHA SOLAR FLARES

43
Apr 83

APRIL 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/USAF Region		CMP Mo	Dur Day	Imp Opt	X-ray	See	Obs Type	Time (UT)	Area Measurement		Remarks		
							Cmd	Region								Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)			
0074		10	15141	15201	1540	S11	W33	4137	04	8.1	26	SF	C	.5		40		F		
	RAMY	10	1514	1520	1540	S13	W33	4137	04	8.1	26	SF	C	.5	3	C	52			
	HOLL	10	1515	1520	1530	S11	W32	4137	04	8.2	200	SF	C	.5	4	C	27		F	
	KANZ	10	1517E	1521	1521D	S09	W35	4137	04	8.0	40	SF			2					
0075		10	22162	22191	2235	S06	E22	4140	04	12.6	19	SF	C	.8		48	.6	DFJ		
	CULG	10	2216	2220	2226	S05	E22	4140	04	12.6	10	SF			C	2220	50	.5	F	
	HOLL	10	2218	2219	2231	S06	E23	4140	04	12.6	13	SF	C	.8	3	C	32		F	
	MORG	10	2218	2220	2247	S07	E22	4140	04	12.6	29	SF			C	2221	63	.7	DJ	
0076		11	02112	02151	0225	S12	W40	4137	04	8.1	14	SN				80	1.7			
	YUNN	11	0211	0215	0224	S12	W41	4137	04	8.0	13	SN			C	126	1.7			
	LEAR	11	0213	0216	0226	S12	W40	4137	04	8.1	13	SF			C	35				
0077	ATHN	11	0945E	0946	0958	S09	W39	4137	04	8.5	130	SF			3	V	0946	32	.4	
0078		11	1015	1015	1028	S11	W44	4137	04	8.1	13	SN				52	.8			
	CATA	11	1015	1015	1025	S14	W43	4137	04	8.2	10	S			1	C	1015	56	.8	
	ATHN	11	1015	1015	1030	S08	W46	4137	04	8.0	15	SN			3	V	1030	48	.7	
0079	KANZ	11	1320	1328	1336	S08	E65	4148A	04	16.4	16	SN			2					
0080	HOLL	11	1450	1500	1514	S08	W48	4137	04	8.0	24	SF			3	C		23		
		11	1539		1703	No Flare Patrol														
		11	1709		1737	No Flare Patrol														
0081	HOLL	11	1858	1859	1907	S17	W07	4138	04	11.2	9	SF			3	C		35		
0082	HOLL	11	1954E	1955U	2011	S06	E10	4140	04	12.6	170	SF			3	C		25		
		11	2023		2025	No Flare Patrol														
		11	2101		2201	No Flare Patrol														
0083	VORO	11	2342	2348	2410	S18	W11	4138	04	11.1	28	IF			C	2348	197	2.1	EIJ	
0084	HTPR	12	1424	1429	1454	S09	E58	4142	04	16.9	30	SF			C	1429	40	.7	E	
		12	1707		1736	No Flare Patrol														
		12	1900	1900	1903	S08	E49	4145	04	16.5	3	SF	C	.4	3	C		24		
0085	HOLL	12	2033		2047	No Flare Patrol														
		12	2116		2130	No Flare Patrol														
		12	2135		2147	No Flare Patrol														
		13	0008*	0012*	0030	S10	W65	4137	04	8.1	22	SN					52	1.1		
0086	MANI	13	0008	0012	0028	S10	W65	4137	04	8.1	20	SN			1	V	55	1.1		
	LEAR	13	0022	0023	0031	S10	W65	4137	04	8.1	9	SN			3	C	50			
		13	0407	0412	0418	S03	E46	4142	04	16.6	11	SF			C	0412	30	.4		
0087	CULG	13	0407	0412	0418	S03	E46	4142	04	16.6	11	SF			C	0412	30	.4		
0088	ABST	13	0614	0616	0626	S12	W71	4137	04	7.9	12	SF			P	0616	70		DJ	
0089	CATA	13	0830	0830	0835	S08	W71	4137	04	8.0	5	S			1	C	0830	56		
0090	HTPR	13	0938	0944	0951	S12	E40	4148A	04	16.4	13	SN			C	0944	30	.4		
0091		13	1003*	1007*	1040	S10	E46	4142	04	16.9	37	SF					15	.2	D	
	HTPR	13	1003	1007	1017	S10	E46	4142	04	16.9	14	SN			C	1007	20	.3		
	KHAR	13	1007E		1011D	S11	E45	4142	04	16.8	40	SF			P	1007			D	
	HTPR	13	1023	1035	1102	S10	E46	4142	04	16.9	39	SF			C	1035	10	.1		
0092		13	1013	1021	1031	S12	E40	4148A	04	16.4	18	SN					30	.4		
	HTPR	13	1013	1021	1031	S12	E40	4148A	04	16.4	18	SN			C	1021*	30	.4		
	KHAR	13	1017E		1024D	S12	E41	4148A	04	16.5	70	SF			P	1017				
0093	HTPR	13	1039	1050	1104	S12	E39	4148A	04	16.4	25	SN			C	1050	40	.5		

H - ALPHA SOLAR FLARES

APRIL 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Time (UT)	Area Measurement		Remarks	
								USAF Region									Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0094	HTPR	13	1121	1130	1136	S08	E35 4148A	04	16.1	15	SF				C	1130	10	.1		
0095	HTPR	13	1420	1421	1436	S10	E15		04	14.7	16	SN			C	1421	20	.2		
0096	HOLL	13	1525	1525	1537	S09	E36 4148A	04	16.3	12	SF C	.4	3	C			27		F	
0097	HOLL	13	1633	1633	1639	S08	W77 4137	04	7.9	6	SF		3	C			9			
0098	HOLL	13	1726	1726	1733	S08	E35 4148A	04	16.3	7	SF C	.5	3	C			24			
0099	HOLL	13	1746	1759	1800	N20	E60 4144	04	18.3	14	SF		3	C			25			
0100	HOLL	13	1747	1747	1755	S08	W77 4137	04	8.0	8	SF		3	C			11			
		13	1949		1950	No Flare Patrol														
0101		13	2009	2009	2017	S08	E35 4145	04	16.5	8	SF							34		
	HOLL	13	2009	2009	2017	S10	E35 4145	04	16.5	8	SF		3	C				36		
	PALE	13	2009	2010	20140	S07	E35 4145	04	16.5	50	SF		3	C				31		
0102	HOLL	13	2051	2053	2059	S09	E41 4142	04	16.9	8	SF		3	C				24		
0103	YUNN	14	0104	0109	0125	S09	E34 4142	04	16.6	21	SN			C				79	1.0	
0104	ABST	14	0403E	0403	0425	S14	W89 4137	04	7.4	220	IF			P	0403			87		AD
0105	ABST	14	0412	0416	0425	N26	E54 4144	04	18.4	13	SF			C	0416			87	1.7	D
0106	ABST	14	0422	0424	0440	S07	E35 4142	04	16.8	18	IF			C	0424			87		AJK
0107		14	0601	0604*	0625	N06	E90 4146	04	21.0	24	1N							115		FJ
	ABST	14	0601	0604	0625	NC7	E90 4146	04	21.0	24	1N			C	0604			174		FJ
	CATA	14	0650E	0700	0705D	N06	E90 4146	04	21.0	150	1		1	P	0700			56		
0108	CULG	14	0602	0606	0619	S06	E35 4142	04	16.9	17	SF			C	0606			40	.4	F
0109		14	0817	0830	0950	S06	E37 4142	04	17.1	93	2N							362	5.3	CE ISU
	HTPR	14	0817	0831	0950	S05	E40 4142	04	17.3	93	2N			C	0831			500	7.8	CE ISU
	ATHN	14	0825E	0830	1031D	S08	E34 4142	04	16.9	1260	1N		2	V	0830			223	2.8	
0110		14	0839E	0848	0923	S14	E49	04	18.1	500	2N							512	8.0	BG
	MONT	14	0839E	0848	0946	S13	E51	04	18.2	670	1N			C	0848			500		B
	CATA	14	0850E	0855	0900D	S15	E48	04	18.0	100	2		1	P	0855			674	10.4	
	YUNN	14	0900E	0900U	0912	S13	E49	04	18.1	120	2N			P	0900			362	5.7	BG
0111		14	0850E	0855	0923D	N06	E90 4146	04	21.1	330	1F							68		H
	CATA	14	0850E	0855	0900D	N06	E90 4146	04	21.1	100	1		1	P	0855			68		H
	KHAR	14	0912E		0923D	N06	E90 4146	04	21.1	110	SF			P						
0112	HTPR	14	0906	0923	0928	S09	E32 4142	04	16.8	22	SF			C	0923			20	.2	E
0113	HTPR	14	1016	1017	1026	S08	E30 4142	04	16.7	10	SF			C	1017			20	.2	
0114	HTPR	14	1217	1223	1320	S09	E31 4142	04	16.8	63	1N			C	1239			250	2.9	EK
0115	ATHN	14	1252E	1252	1341	S08	E34 4142	04	17.1	490	SN		2	V	1252			159	2.0	
0116	KANZ	14	1318E	1318	1329	S09	E24 4148A	04	16.3	110	SF		2							
0117	KANZ	14	1341	1352	1408	N11	E73 4146	04	20.1	27	SF		3							
0118		14	14013	14071	1414	S09	E27 4148A	04	16.6	13	SN							30	.3	
	HTPR	14	1401	1407	1412	S09	E30 4148A	04	16.8	11	SF			C	1407			30	.3	
	KANZ	14	1404	1408	1415	S09	E24 4148A	04	16.4	11	SN		3							
0119	KANZ	14	1423	1427	1431	N12	E76 4146	04	20.3	8	SF		3							
0120	KANZ	14	1534	1540	1540D	S11	W77 4137	04	8.6	60	SN		1							

H - ALPHA SOLAR FLARES

45
Apr 83

APRIL 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Area Measurement		Remarks					
								USAF Region						Mo	Day		(Min)	Opt	Xray	See	Type
0121		14	15351	15361	1541	N12	E72	4146	04	20.1	6	SN			20		D				
	HTPR	14	1535	1537	1541	N12	E71	4146	04	20.0	6	SF			20						
	KANZ	14	1536	1536	1540D	N13	E72	4146	04	20.1	4D	SB	3	C	1537	20		D			
0122	HTPR	14	1543	1546	1600	S10	E32	4142	04	17.0	17	SF			20		.2				
		14	1702		2049	No Flare Patrol															
0123	MANI	15	0001E	0002U	0010	N07	E80	4146	04	21.0	9D	SF	1	V							
0124	CULG	15	0132	0133	0144	S09	E18	4148A	04	16.4	12	SN			C	0133	30		.3		
0125		15	0158	02019	0218	S12	W90		04	8.3	20	1B					63		AG		
	YUNN	15	0158	0201	0214	S13	W89		04	8.4	16	1N			C		63		AG		
	MANI	15	0200E	0210	0221	S12	W90		04	8.3	21D	SB	1	V							
0126	MANI	15	0219E	0219U	0245	N07	E80	4146	04	21.1	26D	SF	1	V							
0127	HTPR	15	1214	1222	1235	S11	W42	4143	04	12.3	21	SF			C	1222	10		.1		
		15	1646		2043	No Flare Patrol															
		15	2154		2214	No Flare Patrol															
0128	VORO	16	0015	0018	0027	N05	E64	4146	04	20.8	12	1F			C	0018	108		COH		
		16	0401		0419	No Flare Patrol															
0129	ABST	16	0520	0523	0545D	S10	E02	4148A	04	16.4	25D	SF			P	0523	174		1.7	F	
0130	ABST	16	0522	0524	0545D	S10	E11	4149	04	17.0	23D	SF			P	0524	131		1.3	D	
0131	HTPR	16	0700	0709	0713	N03	E58	4146	04	20.6	13	SF			C	0709	20		.4		
0132	HTPR	16	0815	0818	0821	N03	E58	4146	04	20.7	6	SF			C	0818	20		.4		
0133		16	0910*	0920*	0946	N04	E58	4146	04	20.7	36	SF					38		.8	E	
	HTPR	16	0910	0920	0946	N03	E56	4146	04	20.6	36	SF			C	0920	30		.5	E	
	CATA	16	0920	0930	0945	N04	E61	4146	04	20.9	25	S	1	C	0930	45		1.0			
	16	1151		1215	No Flare Patrol																
	16	1517		2114	No Flare Patrol																
0134	CULG	17	0413E	0414U	0428	S10	W09	4145	04	16.5	15D	SF			P	0414	40		.4	F	
0135	KANZ	17	0833	0837	0841	S23	W28	4148	04	15.2	8	SF			2					L	
0136	KANZ	17	0905	0909	0933	S11	E06	4149	04	17.8	28	SF			1						
0137	KANZ	17	1123	1139	1147	S29	W33	4148	04	14.9	24	SF			1						
0138	KANZ	17	1241	1245	1305	S31	W37	4148	04	14.6	24	SF			1						
0139	WEND	17	1506	1508	1512	S10	W67	4138	04	12.6	6	SF			C	1508	56				
		17	1523		2113	No Flare Patrol															
0140	MANI	17	2328	2329	2405	S10	W03	4149	04	17.7	37	SF C	.7	1	V		54		.6		
		18	0206		0212	No Flare Patrol															
0141	YUNN	18	0320	0322	0330D	S30	W42	4148	04	14.8	10D	SN			C		94		1.4		
0142	YUNN	18	0415	0418	0429	S30	W42	4148	04	14.9	14	SN			C		79		1.2		
0143	YUNN	18	0525E	0529U	0542D	S28	W45	4148	04	14.7	17D	SN			P	0529	94		1.5		
0144	ATHN	18	0855E	0857	1013	N05	W20		04	16.9	78D	SN			2	V	0857	159		1.8	

H - ALPHA SOLAR FLARES

APRIL 1983

Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Time (UT)	Area Measurement†		Remarks		
															Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)			
			18 0941		0954			No Flare Patrol											
			18 1401		1530			No Flare Patrol											
0145	KANZ	18	1531E	1531	1555	S22	E57	4152	04	23.0	24D	SN		3					
			18 1603		2208			No Flare Patrol											
0146	VORO	19	0000	0004	0024	N21	E22		04	20.7	24	IF		C	0004	215	2.3	CE	
			19 0026		0042			No Flare Patrol											
			19 0106		0140			No Flare Patrol											
			19 0152		0156			No Flare Patrol											
			19 0159		0216			No Flare Patrol											
			19 0318		0340			No Flare Patrol											
0147	ATHN	19	0821	0823	0830	S28	W58	4148	04	14.8	9	SN		3	V	0823	95	1.9	
0148	ATHN	19	0920	0922	0933	S11	E77	4150	04	25.2	13	SN		3	V	0922	64		
0149	ATHN	19	0948	0950	1002	S28	W58	4148	04	14.9	14	IN		3	V	0950	111	2.2	
0150	HOLL	19	1412	1412	1422	S29	W60	4148	04	14.9	10	SF		2	C		18		
0151	HOLL	19	1450	1451	1455	S30	W60	4148	04	14.9	5	SF		3	C		16		
0152	HOLL	19	1519	1520	1524	S30	W61	4148	04	14.8	5	SF		3	C		20		
0153	HOLL	19	1545	1602	1637	S31	W61	4148	04	14.8	52	SF C	.8	3	C		53		
0154	HOLL	19	1552E	1554U	1608	S13	W57	4145	04	15.4	16D	SF		3	C		96		F
0155		19	1639	1642*	1817	S30	W62	4148	04	14.8	98	SN C	.8				76		K
	HOLL	19	1639	1642	1817	S30	W62	4148	04	14.8	98	SN		3	C		85		K
	HOLL	19	1639	1749	1817	S30	W62	4148	04	14.8	98	SN C	.8	3	C		66		K
0156		19	1819	1824*	1843	S29	W62	4148	04	14.9	24	SN C	1.8				50		K
	HOLL	19	1819	1824	1843	S29	W62	4148	04	14.9	24	SN		3	C		37		K
	HOLL	19	1819	1835	1843	S29	W62	4148	04	14.9	24	SN C	1.8	3	C		64		K
0157	HOLL	19	1900	1905	1910	S30	W62	4148	04	14.9	10	SN C	.8	3	C		24		
0158	HOLL	19	1931	1934	1939	S30	W62	4148	04	14.9	8	SN		3	C		42		
			19 2002		2021			No Flare Patrol											
0159	HOLL	19	2022E	2022U	2026	S30	W63	4148	04	14.9	4D	SF		3	C		23		
0160		19	2123	2127	2132	S30	W66	4148	04	14.7	9	IF					74		EJ
	HOLL	19	2123	2127	2130	S30	W63	4148	04	14.9	7	SF		3	C		24		
	VORO	19	2125E		2134	S30	W68	4148	04	14.5	9D	IF			C	2125	125		EJ
0161		19	21563	21581	2231	S30	W66	4148	04	14.7	35	IF C	1.2				64		EFJK
	VORO	19	2156	2158	2252	S30	W68	4148	04	14.6	56	IF			C	2158	99		EJK
	HOLL	19	2159	2159	2210	S29	W64	4148	04	14.9	11	SF C	1.2	3	C		29		F
0162	HOLL	19	2236	2240	2243	S30	W64	4148	04	14.9	7	SF		3	C		22		
0163		19	23415	23464	2400	N10	E21	4151	04	21.6	19	SN					60	1.1	CDFG
	VORO	19	2341	2346	2359	N10	E21	4151	04	21.6	18	SN			C	2346	99	1.1	CDG
	HOLL	19	2346	2350	2401	N09	E21	4151	04	21.6	15	SF		3	C		21		F
0164		20	00182	00231	0036	S13	E72	4150A	04	25.4	18	IF C	2.2				94	2.2	CDF
	VORO	20	0018	0023	0034	S13	E75	4150A	04	25.7	16	IF			C	0023	90		CD
	LEAR	20	0019	0023U	0037	S13	E71	4150A	04	25.4	18	SF C	2.2	3	C		79		
	HOLL	20	0020	0024	0037	S14	E72	4150A	04	25.4	17	SN C	2.2	3	C		110		F
	MANI	20	0022E	0024	0037	S13	E72	4150A	04	25.4	15D	IF		1	V		95	2.2	F
0165		20	0618	06191	0648	S13	E68	4150	04	25.4	30	IF C	2.1				66		
	LEAR	20	0618	0619	0648	S13	E69	4150	04	25.5	30	SF C	2.1	3	C		47		
	CATA	20	0620E	0620	0620D	S13	E67	4150	04	25.3	30D	I		2	P	0620	84		

H - ALPHA SOLAR FLARES

47
Apr 83

APRIL 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	
																	(10 ⁻⁶ Disk)	Corr (Sq Deg)		
0156		20	06455	0655*	0748	S29	W66	4148	04	15.1	63	SN	C	2.2			47	1.4	E	
	KANZ	20	0644E	0705	0705D	S28	W61	4148	04	15.5	210	SN			1					
	CATA	20	0645	0655	0725D	S29	W68	4148	01	14.9	40D	S			2	P	0655	56		
	LEAR	20	0650	0703	0748	S30	W66	4148	04	15.1	58	SN	C	2.2	3	C		26		
	HTPR	20	0716E		0724D	S30	W70	4148	04	14.8	80	SN				C	0720	60	1.4	E
0167	LEAR	20	0755	0800	0814	S11	W37	4149	04	17.5	19	SF			3	C		30		U
0168	ATHN	20	1222E	1228	1259	S24	E32	4152	04	23.0	370	SB			3	V	1228	64	.8	
0169	HOLL	20	1353E	1355	1410	S10	E59	4150	04	25.0	170	SF			3	C		30		
0170	HOLL	20	1726	1729	1818	S13	E63	4150	04	25.5	52	SF	C	2.7	3	C		134		F
		20	1955		2052	No Flare Patrol														
		20	2059		2108	No Flare Patrol														
		20	2122		2214	No Flare Patrol														
0171	MANI	20	2319E	2322	2401D	S28	W80	4148	04	14.7	420	SN			1	V				
0172	VORO	21	0044	0047	0058	S09	E56	4150	04	25.2	14	1F				C	0047	116	2.1	CDJ
0173	HOLL	21	0115E	0116U	0121	N09	W46		04	17.6	60	SF			2	C		20		F
0174	ABST	21	0448	0452	0500	S10	E51	4150	04	25.0	12	SN				C	0452	87	1.3	DK
0175		21	05151	05179	0544	S14	E56	4150A	04	25.4	29	1N				C		103	3.4	E
	LEAR	21	0515	0517	0538	S13	E57	4150A	04	25.5	23	SF			3	C		32		
	ABST	21	0516	0526	0550	S14	E56	4150A	04	25.4	34	1N				C	0526	174	3.4	E
0176	ABST	21	0647	0649	0655	N11	E07	4151	04	21.8	8	SN				C	0649	174	1.9	E
0177	ABST	21	0652	0657	0713	S10	W90		04	14.5	11	1N				C	0657	174		ADK
0178	RAMY	21	1326	1328	1333	S08	E84	4154	04	27.8	7	SF			3	C		11		
		21	1648		1654	No Flare Patrol														
0179		21	1831	1832*	1844	S09	E87	4154	04	28.3	13	1N	C	1.3				31		
	HOLL	21	1831	1832	1844	S10	E87	4154	04	28.3	13	SN			3	C		31		
	PALE	21	1858E	1902	1925D	S08	E87	4154	04	28.3	270	1N	C	1.3	3	C				
0180	HOLL	21	1844	1846	1906	S13	E52	4150A	04	25.7	22	SF			3	C		42		F
0181	HOLL	21	1933	1935	1950	S10	E84	4154	04	28.1	17	SF	C	1.1	3	C		12		F
0182	HOLL	21	1956	1959	2005	S10	E85	4154	04	28.2	9	SN			3	C		25		F
0183	HOLL	21	2011	2013	2025	S10	E84	4154	04	28.1	14	SF			3	C		8		
		21	2033		2104	No Flare Patrol														
0184	HOLL	21	2042	2042	2047	N08	W17	4146	04	20.6	5	SN	C	2.2	3	C		53		F
		21	2216		2241	No Flare Patrol														
0185	HOLL	21	2237	2238U	2251D	N07	W18	4146	04	20.6	140	SF			2	C		46		F
		21	2244		2249	No Flare Patrol														
0186		22	0003	0015	0042	S19	E89	4156	04	28.8	39	N								A
	PEKG	22	0003	0015	004C	S18	E90	4156	04	28.8	37	N				C	0015			A
	YUNN	22	0017E	0017U	0045	S20	E88	4156	04	28.7	280					P	0017			A
0187		22	01037	0108*	0120	S11	E45	4150	04	25.4	17	SN						71	1.0	EF
	CULG	22	0103	0105U	0105D	S08	E47	4150	04	25.6	20	SN				P	0105	80	1.2	F
	YUNN	22	0105	0108	0120	S12	E43	4150	04	25.3	15	SN				C		79	1.1	E
	PEKG	22	0110	0120	0130D	S12	E46	4150	04	25.5	200	SN				P	0120	55	.8	E

48
Apr 83

H - ALPHA SOLAR FLARES

APRIL 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF Region		OMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Time (UT)	Area Measurement		Remarks	
						Lat	Cmd									Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0188	YUNN	22	0145	0154	0207	S13	E47	4150A	04	25.6	22	SN		C		110	1.7		
0189	YUNN	22	0212E	0215	0227	S13	E47	4150A	04	25.6	150	SN		P		94	1.4		
0190		22	0305Z	0311Z	0335	S24	E15	4152	04	23.3	30	IN C 1.8				210	2.6	F	
	CULG	22	0305	0308U	0308D	S23	E16	4152	04	23.4	30	SN		P	0308	150	1.6	F	
	YUNN	22	0305	0314	0343	S25	E13	4152	04	23.1	38	IN		C		314	3.5	F	
	LEAR	22	0307	0311	0332	S25	E15	4152	04	23.3	25	SF C 1.8	1	C		134			
	PEKG	22	0314E	0314	0330	S24	E15	4152	04	23.3	160	IN C 1.8		C	0314	244	2.7	F	
0191	HTPR	22	0556E		0655	N15	W07	4151	04	21.7	590	SN		C	0620	80	.8	E	
0192	HTPR	22	0556E		0652	N08	W24	4146	04	20.4	560	SF		C	0602	20	.2		
0193	HTPR	22	0556E		0640	S10	W67	4149	04	17.2	440	SF		C	0621	20	.4		
0194		22	0600	06264	0905	S12	E35	4150	04	24.9	185	SN				48	.6		
	HTPR	22	0600	0626	0905	S11	E34	4150	04	24.8	185	SN		C	0626	40	.5		
	CATA	22	0630E	0630	0645D	S13	E36	4150	04	25.0	150	S	2	P	0630	56	.7		
0195		22	0610E	06146	0620D	N15	W08	4151	04	21.6	100	SN				150	1.6	E	
	ABST	22	0610E	0614	0620D	N15	W07	4151	04	21.7	100	SN		P	0614	131	1.4	E	
	CATA	22	0615E	0620	0620D	N15	W08	4151	04	21.6	50	S	2	P	0620	169	1.9		
0196		22	0610E	0616*	0645D	N08	W25	4146	04	20.4	350	SN				72	.8	D	
	ABST	22	0610E	0616	0620D	N07	W25	4146	04	20.4	100	SN		P	0616	87	1.0	D	
	CATA	22	0630E	0630	0645D	N09	W25	4146	04	20.4	150	S	2	P	0630	56	.7		
0197	HTPR	22	0811	0830	0950	N08	W28	4146	04	20.2	99	SF		C	0830	70	.8	E	
0198	PEKG	22	0823	0826	0831	S13	E35	4150	04	25.0	8	SN		C	0826	29	.4	D	
0199	KHAR	22	0907E		0920D	S09	E80	4154	04	28.4	130	SF		P				D	
0200	HTPR	22	1000	1007	1011	S11	W70	4149	04	17.1	11	SF		C	1007	20	.4		
0201		22	1034	10504	1108	S10	E80	4154	04	28.4	34	SN				30		D	
	HTPR	22	1034	1054	1108	S10	E80	4154	04	28.4	34	SN		C	1054	30			
	KHAR	22	1043E	1050	1103D	S09	E80	4154	04	28.4	200	SN		P	1050			D	
0202	HTPR	22	1129	1133	1141	S10	E80	4154	04	28.5	12	SN		C	1133	30			
0203	HTPR	22	1134	1149	1205	S11	E31	4150	04	24.8	31	SF		C	1149	20	.2		
		22	1210		1217	No Flare Patrol													
		22	1219		1236	No Flare Patrol													
		22	1258		1259	No Flare Patrol													
0204		22	1331Z	1339	1356	S12	E34	4150	04	25.1	25	SF				19	.2	F	
	HTPR	22	1331		1342D	S11	E31	4150	04	24.9	110	SF		C	1341	20	.2		
	HOLL	22	1338	1339	1356	S12	E37	4150	04	25.3	18	SF	2	C		18		F	
0205	KANZ	22	1602	1602	1623	S12	E30	4150	04	24.9	21	SN		3					
0206	KANZ	22	1705		1705D	S11	E74	4154	04	28.3	210	SF		3					
0207	KANZ	22	1705		1705D	S12	E29	4150	04	24.9	210	SF		3					
0208	HOLL	22	1734	1734	1740	S11	E72	4154	04	28.1	6	SF C 1.3	3	C		14		F	
0209	HOLL	22	2236	2240	2320	S13	E33	4150	04	25.4	44	SF		3	C	82		F	
0210	HOLL	22	2243	2244	2251	S21	E78	4156	04	28.9	8	SF C 1.4	3	C		34			
0211	HOLL	23	0124	0127U	0135D	S18	E59		04	27.5	110	SN		2	C	110		F	
0212	LEAR	23	0516	0517	0555D	S10	E22	4150	04	24.9	390	SF C 1.9	3	C		49		F	

H - ALPHA SOLAR FLARES

49
Apr 85

APRIL 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	Area Measurement			Remarks	
																Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0213		23	0658	0659B	0716	S13	E27	4150	04	25.3	18	SN	C 2.3				121	1.6	F	
	LEAR	23	0658	0659	0722	S13	E25	4150	04	25.2	24	SF	C 2.3	3	C		49		F	
	PEKG	23	0700E	0706	0710D	S13	E29	4150	04	25.5	100	IN			P	0706	218	2.6	F	
	ATHN	23	0702E	0707	0710	S13	E26	4150	04	25.2	80	SN		3	V	0707	95	1.1		
0214	KANZ	23	0730	0730	0734	S17	E77	4156	04	29.2	4	SF								
0215		23	08023	08091	0819	S10	E67	4154	04	28.4	17	SF					20		F	
	KANZ	23	0802	0810	0819	S10	E67	4154	04	28.4	17	SF		3						
	LEAR	23	0805	0809	0819	S09	E67	4154	04	28.4	14	SF		3	C		20		F	
0216	KHAR	23	0930E		0943D	S10	E53		04	27.4	130	SF			P				D	
0217		23	0940	0940*	1007D	S30	E76		04	29.4	27D	1F					152		E	
	CATA	23	0940	0940	0955D	S30	E74		04	29.2	15D	2		2	P	0940	253			
	KHAR	23	0953E	0953	1007D	S30	E78		04	29.5	14D	SF			P	0953	50		E	
0218	KANZ	23	1312	1320	1324	S20	E73	4156	04	29.1	12	SF				3				
0219	KANZ	23	1428E	1428	1435	S20	E75	4156	04	29.3	7D	SN				3				
0220	RAMY	23	1428	1430	1433	S17	E58	4156	04	28.0	5	SN				3	C		41	
0221	KANZ	23	1506	1506	1514	S11	E17	4150	04	24.9	8	SF				3				
0222		24	0038*	0044*	0107	S16	E65	4156	04	28.9	29	SF	C 2.1				57		FK	
	HOLL	24	0038	0044	0106	S16	E63	4156	04	28.8	28	SF		3	C		44		K	
	HOLL	24	0038	0057	0106	S16	E63	4156	04	28.8	28	SN	C 2.1	3	C		100		FK	
	LEAR	24	0056	0057	0109	S17	E68	4156	04	29.2	13	SF	C 2.1	3	C		28			
0223		24	01112	01152	0124	N07	W48	4146	04	20.4	13	SF					72	1.4	CEG1	
	VORO	24	0111	0115	0122	N06	W49	4146	04	20.4	11	1F			C	0115	134	2.1	CE1	
	YUNN	24	0112	0115	0121	N07	W49	4146	04	20.4	9	SN			C		47	.8	EG	
	LEAR	24	0113	0117	0128	N08	W47	4146	04	20.5	15	SF		3	C		35			
0224		24	01253	0128*	0248	S15	E69	4156	04	29.3	83	1N	C 4.1				112		EFK	
	MITK	24	0125	0128	0220	S13	E68	4156	04	29.2	55	1F			C	0128	190		E	
	YUNN	24	0125	0131	0146	S16	E67	4156	04	29.1	21	1B			C		126		F	
	LEAR	24	0126	0129	0411	S15	E70	4156	04	29.3	165	SF		3	C		44		K	
	LEAR	24	0126	0323	0411	S15	E70	4156	04	29.3	165	SN	C 4.1	3	C		56		FK	
	PURP	24	0128	0147U	0210	S17	E69	4156	04	29.3	42	1B			C	0147	158			
	PEKG	24	0145E	0156	0210	S15	E68	4156	04	29.2	25D	SN			F	0156	101		F	
0225	LEAR	24	0624	0625	0629	S13	E15	4150	04	25.4	5	SF		3	C		41			
		24	0808		0810	No Flare Patrol														
0226	ABST	24	1204E	1205	1214D	N14	E53	4159	04	28.5	100	SN			P	1205	87	1.6	D	
0227	ABST	24	1204E	1206	1214D	N18	E36	4155	04	27.2	100	SN			P	1206	87	1.3	D	
0228	ABST	24	1204E	1206	1214D	S16	E65	4156	04	29.4	100	SF			P	1206	87		D	
0229	ABST	24	1204E	1206	1214D	S11	E55	4154	04	28.6	100	SF			P	1206	87	1.5	D	
0230	ABST	24	1204E	1205	1214D	S13	E12	4150	04	25.4	100	SF			P	1205	174	1.9	E	
0231	RAMY	24	1232	1232	1240	N04	W53	4146	04	20.6	8	SN		3	C		28			
0232	KANZ	24	1307E	1307	1316	S13	E10	4150	04	25.3	9D	SN				3			L	
0233	HOLL	24	1508	1509	1534	S12	E09	4150	04	25.3	26	SF		3	C		54		F	
0234		24	15141	1515	1521	S20	E56	4156	04	28.9	7	SN	C 1.2				33			
	RAMY	24	1514	1515	1521	S21	E58	4156	04	29.1	7	SN	C 1.2	3	C		31			
	HOLL	24	1515	1515	1521	S20	E55	4156	04	28.8	6	SN	C 1.2	3	C		35			
0235		24	1553	1555*	1636	S17	E60	4156	04	29.2	43	SF					46		FK	
	HOLL	24	1553	1555	1636	S17	E60	4156	04	29.2	43	SF		3	C		12		K	
	HOLL	24	1553	1607	1636	S17	E60	4156	04	29.2	43	SF		3	C		79		FK	

H - ALPHA SOLAR FLARES

APRIL 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 ⁻⁶ Disk)	Corr (Sq Deg)		
0236	HOLL	24	1748	1750	1755	S19	E54	4156	04	28.9	7	SF						27		
0237		24	18091	1810*	1825	S15	E57	4156	04	29.1	16	SF						30		K
	HOLL	24	1809	1810	1818	S16	E57	4156	04	29.1	9	SF			3	C		51		
	RAMY	24	1810	1811	1828	S15	E57	4156	04	29.1	18	SF						21		K
	RAMY	24	1810	1822	1828	S15	E57	4156	04	29.1	18	SF			3	C		17		K
0238	RAMY	24	1858	1902	1908	S20	E53	4156	04	28.8	10	SF			3	C		27		
0239		24	1912	1912	1934	S08	E46	4154	04	28.2	22	SN	C 1.2					91		
	RAMY	24	1912	1912	1932	S10	E47	4154	04	28.3	20	SN	C 1.2	3	C			98		
	HOLL	24	1912	1912	1936	S06	E45	4154	04	28.2	24	SN	C 1.2	3	C			84		
0240		24	19212	1924	1930	S20	E56	4156	04	29.1	9	SF	C 1.2					51		
	RAMY	24	1921	1924	1929	S19	E53	4156	04	28.8	8	SF	C 1.2	3	C			57		
	HOLL	24	1923	1924	1931	S21	E59	4156	04	29.3	8	SF	C 1.2	3	C			45		
0241		24	20412	20441	2052	S12	E07	4150	04	25.4	11	SF	C 1.1					42		F
	HOLL	24	2041	2044	2050	S12	E07	4150	04	25.4	9	SF	C 1.1	3	C			35		F
	RAMY	24	2043	2045	2054	S11	E07	4150	04	25.4	11	SF	C 1.1	3	C			50		
0242	HOLL	24	2051	2052	2054	S20	E53	4156	04	28.9	3	SN			3	C		40		
0243	HOLL	24	2105	2105	2110	S05	E75	4157	04	30.5	5	SF			3	C		11		
0244		24	2107	21071	2121	S18	E56	4156	04	29.1	14	SN	C 1.7					40		F
	RAMY	24	2107	2107	2127	S18	E56	4156	04	29.1	20	SF	C 1.7	3	C			27		
	HOLL	24	2107	2108	2115	S17	E56	4156	04	29.1	8	SN	C 1.7	3	C			52		F
0245	HOLL	24	2109	2109	2123	S12	E46	4154	04	28.3	14	SF			3	C		19		
0246	HOLL	24	2254	2259	2304	S17	E52	4156	04	28.9	10	SF			3	C		15		
0247	HOLL	25	0028	0032	0036	S17	E54	4156	04	29.1	8	SF			3	C		17		F
0248	LEAR	25	0204	0209	0219	S15	E52	4156	04	29.0	15	SF			3	C		22		F
0249		25	03392	0342	0347	S15	E52	4156	04	29.1	8	SN						32	.4	
	CULG	25	0339	0342	0347	S14	E52	4156	04	29.1	8	SN				C	0342	30	.4	
	LEAR	25	0341	0342	0347	S16	E52	4156	04	29.1	6	SN			3	C		35		
0250		25	03452	03507	0422	S10	W02	4150	04	25.0	37	SN						94	1.1	EF
	CULG	25	0345	0350	0411	S09	W03	4150	04	24.9	26	SN				P	0350	50	.5	
	LEAR	25	0347	0350	0428	S12	E02	4150	04	25.3	41	SN			3	C		59		
	MITK	25	0347	0353	0418	S09	W03	4150	04	24.9	31	SN				C	0353			E
	ABST	25	0357E	0357	0430	S10	W04	4150	04	24.9	33D	SN				P	0357	174	1.7	F
0251	CULG	25	0410	0412	0416	S12	W03	4150	04	24.9	6	SF				C	0412	40	.4	
0252		25	04244	04301	0441	S16	E50	4156	04	29.0	17	SN						60	1.4	D
	ABST	25	0424	0431	0445	S16	E50	4156	04	29.0	21	SN				C	0431	87	1.4	D
	LEAR	25	0428	0430	0437	S16	E51	4156	04	29.0	9	SN			3	C		32		
0253		25	04331	04365	0508	S04	E71	4157	04	30.5	35	SN	C 6.3					69		EF
	LEAR	25	0433	0441	0518	S04	E68	4157	04	30.3	45	SN	C 6.3	3	C			64		F
	ABST	25	0434	0436	0506	S04	E74	4157	04	30.7	32	IN				C	0436	87		E
	PURP	25	0439E	04521	0459	S04	E71	4157	04	30.5	20D	SB				C	0452	55		E
0254		25	0604*	0606*	0656	S12	E42	4154	04	28.4	52	SN						128	1.7	E
	ABST	25	0604	0606	0700	S12	E41	4154	04	28.3	56	IN				C	0606	174	2.3	E
	PURP	25	0614	0638	0654	S11	E41	4154	04	28.3	40	SB				C	0638	83	1.1	
	KANZ	25	0638E	0638	0654	S13	E44	4154	04	28.6	16D	S			3					
0255		25	06425	06462	0657	S15	W04	4150A	04	25.0	15	SN						87	.0	DV
	KANZ	25	0642	0646	0654	S15	W03	4150A	04	25.0	12	SF			3					
	ABST	25	0647	0648	0700	S15	W04	4150A	04	25.0	13	SN				C	0648	87	.9	DV
0256		25	0658*	0708*	0744	S16	E48	4156	04	28.9	46	SN	C 2.9					163	2.6	DEF
	KANZ	25	0658	0718	0801	S15	E48	4156	04	28.9	63	SB			3					
	ABST	25	0704	0708	07100	S15	E50	4156	04	29.1	60	SN				P	0708	131	1.9	E
	LEAR	25	0713	0722	0757	S15	E49	4156	04	29.7	44	SN	C 2.9	3	C			131		F
	WEND	25	0714	0718	0727	S17	E51	4156	04	29.2	13	SN	C 2.9		C	0718	94	1.6		
	YUNN	25	0715E	0717	0742	S17	E48	4156	04	28.9	27D	SN				P		94	1.5	
	CATA	25	0715	0720	07300	S17	E47	4156	04	28.9	15D	I		1	P	0720	169	2.6		
	MITK	25	0716	0716	0727	S16	E46	4156	04	28.8	11	IN				C	0719	210	3.2	E
	PURP	25	0719	0722	07250	S17	E48	4156	04	28.9	6D	IB				P	0722	158	2.4	
	ISTA	25	0720		0736	S16	E40	4156	04	28.3	16	SN								E
	BUCA	25	0720E		0800	S16	E52	4156	04	29.2	40D	IN				C	0725	161	2.6	
	ATHN	25	0720E	0722	07250	S18	E49	4156	04	29.0	5D	IB		1	V	0722	318	4.8		
	KHAR	25	0726E		0742D	S15	E47	4156	04	28.9	16D	SF				P	0726			D

H - ALPHA SOLAR FLARES

51
Apr 83

APRIL 1983

Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP Mo	Day	Dur (Min)	Imp Opt	X-ray	See	Obs Type	Time (UT)	Area Measurement		Remarks	
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0257	KANZ	25	0801	0805	0809	N14	E40	4159	04	28.3	8	SF		3						
0258	KANZ	25	0828	0832	0848	N14	E40	4159	04	28.4	20	SF		3						
0259	KHAR	25	0935E	0936	0945D	S17	E49	4156	04	29.1	100	SF			V	0936				D
0260	KAND	25	1045	1104	1110	S13	E49	4154	04	29.1	25	SN			C		29	.5		D
0261	KANZ	25	1144	1148	1156	S16	E48	4156	04	29.1	12	SF		2						
0262		25	13113	13128	1322	S16	E44	4156	04	28.9	11	SN	C 1.2				60	.8		DEF
	KAND	25	1311	1312	1316	S18	E43	4156	04	28.8	5	SF	C 1.2		C		21	.3		D
	KANZ	25	1313E	1313	1323	S16	E43	4156	04	28.8	100	SN		2						
	RAMY	25	1314	1314	1320D	S16	E45	4156	04	29.0	60	SB	C 1.2	3	C		78			FE
	ATHN	25	1314	1320	1327	S16	E44	4156	04	28.9	13	SN		3	V	1320	80	1.2		
0263		25	1533	1533	1537	S16	E42	4156	04	28.8	4	SN					35			
	HOLL	25	1533	1533	1536	S16	E42	4156	04	28.8	3	SF		3	C		35			
	KANZ	25	1533	1533	1538	S15	E42	4156	04	28.8	5	SN		3						
0264		25	1541*	16126	1640	S16	E46	4156	04	29.1	59	SF					62			FH
	RAMY	25	1541	1618	1639	S16	E46	4156	04	29.1	58	SF		3	C		98			
	HOLL	25	1611	1612	1641	S17	E47	4156	04	29.2	30	SF		3	C		26			FH
0265		25	16151	16162	1623	S12	E39	4154	04	28.6	8	SN	C 1.7				74			
	HOLL	25	1615	1616	1623	S13	E39	4154	04	28.6	8	SF	C 1.7	3	C		86			
	RAMY	25	1616	1618	1623	S12	E39	4154	04	28.6	7	SN	C 1.7	3	C		63			
0266	HOLL	25	1735	1736	1740	S15	E43	4156	04	29.0	5	SF		3	C		21			
0267	HOLL	25	1941	1947	1958	R13	W57	4151	04	21.5	17	SF		3	C		20			
0268	HOLL	25	2100	2101	2117	S12	W04	4150	04	25.6	17	SF		3	C		31			
0269	HOLL	25	2116	2121	2124	S18	E43	4156	04	29.2	8	SF		3	C		23			
0270		25	2140	2142	2210	S17	E44	4156	04	29.2	30	SB	C 2.2				78	1.3		DI
	HOLL	25	2140	2142	2214	S17	E43	4156	04	29.2	34	SB	C 2.2	3	C		66			
	VORO	25	2142E		2205	S17	E46	4156	04	29.4	230	SN			C	2142	90	1.3		DI
		26	0008		0010	No Flare Patrol														
0271		26	0043	0045	0056	S04	E59	4157	04	30.4	13	SF	C 1.2				54	.9		
	MANI	26	0043	0045	0055	S03	E59	4157	04	30.4	12	SF	C 1.2	1	V		50	.9		
	HOLL	26	0047E	0047U	0057	S04	E59	4157	04	30.4	100	SF		3	C		58			
0272	PURP	26	0118	0135	0145	S16	E39	4156	04	29.0	27	SB			C	0135	48	.6		E
0273		26	0305*	03126	0326	S16	E39	4156	04	29.1	21	SB					112	1.2		EF
	LEAR	26	0305	0312	0330D	S15	E38	4156	04	29.0	280	SB		3	C		147			F
	PURP	26	0312E	0313	0326	S16	E38	4156	04	29.0	140	SB			C	0313	62	.8		E
	YUNN	26	0317	0318	0327	S16	E41	4156	04	29.2	10	SN			C		126	1.7		
0274	ABST	26	0508	0509	0523	S14	E33	4154	04	28.7	15	SN			C	0509	87	1.0		D
0275	ABST	26	0512	0516	0529	S03	E57	4137	04	30.5	17	SF			C	0516	87	1.6		D
0276		26	05322	05332	0542	S14	W16	4150A	04	25.0	10	SF					47	.8		D
	LEAR	26	0532	0533	0545	S14	W16	4150A	04	25.0	13	SF		3	C		24			
	ABST	26	0534	0535	0540	S14	W17	4150A	04	24.9	6	SF			C	0535	70	.8		D
0277		26	07001	07012	0714	N10	W63	4151	04	21.5	14	SF	C 1.4				38			
	LEAR	26	0700	0703	0716	N11	W64	4151	04	21.5	16	SF	C 1.4	3	C		38			
	KANZ	26	0701	0701	0711	N10	W62	4151	04	21.6	10	SF		3						
0278		26	07117	07167	0730	S14	W17	4150A	04	25.0	19	SN					29	.3		D
	KANZ	26	0711	0716	0716D	S14	W17	4150A	04	25.0	50	SF		3						
	LEAR	26	0714	0716	0732	S14	W17	4150A	04	25.0	18	SN		3	C		28			
	ATHN	26	0714	0718	0733	S12	W17	4150A	04	25.0	19	SN		4	V	0718	32	.3		
	PURP	26	0718	0723	0726	S14	W17	4150A	04	25.0	8	SN			C	0723	28	.3		D

H - ALPHA SOLAR FLARES

APRIL 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement			Remarks
																Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0279		26	07533	07571	0806	S17 E38	4156	04	29.2	13	SF						27		
	KANZ	26	0753	0758	0808	S17 E38	4156	04	29.2	15	SF			3					
	LEAR	26	0756	0757	0804	S17 E37	4156	04	29.1	8	SF			3	C		27		
0280		26	0803 ⁺	0812 [*]	0848	S10 W18	4150	04	25.0	45	1B	C	3.0				181	1.8	EFH
	KANZ	26	0803	0818	0851	S10 W18	4150	04	25.0	48	1B			3					
	LEAR	26	0808	0814	0856	S09 W18	4150	04	25.0	48	1B	C	3.0	3	C		240		FE
	KHAR	26	0811	0812	0840	S09 W20	4150	04	24.8	290	1N				P	0819	350	3.7	EH
	ATHN	26	0812	0816	0845	S12 W17	4150	04	25.1	33	SB			4	V	0816	80	.9	
	WEND	26	0812	0824	0845	S08 W18	4150	04	25.0	33	SN				C	0824	88	1.0	
	MANI	26	0814E	0815	0854	S08 W17	4150	04	25.1	400	1B			1	V		220	2.4	F
	PURP	26	0821	0823U	0837	S12 W18	4150	04	25.0	16	SN				C	0823	124	1.3	
	CATA	26	0830E	0830	0830	S09 W20	4150	04	24.8	160	S			2	P	0830	169	1.8	
		26	1030		1104	No Flare Patrol													
		26	1116		1123	No Flare Patrol													
0281	RAMY	26	1142	1142	1202	S17 E33	4156	04	29.0	20	SN			3	C		23		
0282	RAMY	26	1246	1248	1301	S12 W17	4150	04	25.2	15	SF			3	C		77		
0283		26	13132	1315	1330	S16 E32	4156	04	29.0	17	SF						34		F
	RAMY	26	1313	1315	1336	S16 E33	4156	04	29.0	23	SF			3	C		49		
	HOLL	26	1315	1315	1324	S15 E32	4156	04	29.0	9	SF			3	C		18		F
0284		26	1501	1503	1512	S14 W17	4150	04	25.3	11	SN	C	1.2				95		
	HOLL	26	1501	1503	1510	S14 W17	4150	04	25.3	9	SN	C	1.2	3	C		81		
	RAMY	26	1501	1503	1515	S14 W17	4150	04	25.3	14	SN	C	1.2	3	C		109		
0285	HOLL	26	1502	1502	1509	S15 E31	4156	04	29.0	7	SF			3	C		20		
0286	RAMY	26	1607	1610	1631	S15 E32	4156	04	29.1	24	SN			3	C		40		
		26	1642		1711	No Flare Patrol													
0287	HOLL	26	1723	1724	1743	S03 E47	4157	04	30.2	20	SF			3	C		78		
0288	HOLL	26	1745	1745	1807	S15 E30	4156	04	29.0	22	SF			3	C		20		
0289		26	17581	17591	1819	S13 E58	4164B	05	1.1	21	SN						22		F
	RAMY	26	1758	1800	1825	S13 E58	4164B	05	1.1	27	SF			3	C		30		
	HOLL	26	1759	1759	1813	S13 E58	4164B	05	1.1	14	SN			3	C		15		F
0290	HOLL	26	1814	1815	1823	S15 E28	4156	04	28.9	9	SF			3	C		32		
		26	1908		2225	No Flare Patrol													
0291	HOLL	26	1919	1933	1959	S03 E48	4157	04	30.4	40	SN			3	C		62		F
0292		26	2340	2341	2359	S09 W25	4150	04	25.1	19	SN	C	2.5				70	.8	
	CULG	26	2340E	2340U	2352	S09 W25	4150	04	25.1	120	SN				P	2340	60	.7	
	MANI	26	2340	2341	2406	S09 W25	4150	04	25.1	26	SF	C	2.5	1	V		80	.9	
0293	CULG	27	0006	0012	0017	N01 E46	4157	04	30.4	11	SF				C	0012	30	.4	
0294		27	0253	0255	0314	S17 E23	4156	04	28.9	21	1N	M	1.1				220	2.5	EF1
	MANI	27	0248E	0255	0304	S20 E22	4156	04	28.8	160	SN	M	1.1	1	V		120	1.4	F
	CULG	27	0253	0254U	0304D	S16 E23	4156	04	28.9	110	SN				P	0254	180	1.9	F1
	MITK	27	0253	0255	0319	S15 E23	4156	04	28.9	26	1N				C	0255	220	2.5	E
	YUNN	27	0256E	0256U	0320	S16 E23	4156	04	28.9	240	1B				P	0256	362	4.1	F
0295	ABST	27	0612	0614	0621	S09 W30	4150	04	25.0	9	SF				C	0614	122	1.5	EJ
0296		27	0646	06499	0715	S09 W30	4150	04	25.0	29	SN						76	1.0	FJ
	ATHN	27	0646	0649	0715	S09 W29	4150	04	25.1	29	SF			4	V	0649	48	.6	
	ABST	27	0657E	0658	0707D	S09 W30	4150	04	25.0	100	SN				P	0658	105	1.3	FJ
0297	KHAR	27	0859E	0900	0918D	S04 E40	4157	04	30.4	190	SF				P	0900			

H - ALPHA SOLAR FLARES

53
Apr 83

APRIL 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
			27 0956		1014			No Flare	Patrol										
			27 1131		1143			No Flare	Patrol										
			27 1146		1200			No Flare	Patrol										
			27 1202		1214			No Flare	Patrol										
			27 1223		1227			No Flare	Patrol										
			27 1301		1304			No Flare	Patrol										
0298		27	13503	1350*	1426	S19	E16	4156	04	28.8	36	1N	M	1.3			179	1.5	EFHK
	HOLL	27	1350	1350	1428	S19	E16	4156	04	28.8	38	SN			2	C	68		K
	RAMY	27	1350	1356	1426	S19	E17	4156	04	28.9	36	1B	M	1.3	3	C	239		K
	HOLL	27	1350	1356	1428	S19	E16	4156	04	28.8	38	1B	M	1.3	2	C	241		FHK
	RAMY	27	1350	1416	1426	S19	E17	4156	04	28.9	36	SN			3	C	123		K
	ATHN	27	1353	1359	1422	S21	E15	4156	04	28.7	29	1B			4	V	1359	2.4	
	MONT	27	1355E	1400	1400D	S20	E17	4156	04	28.9	50	1N				C	1400		
	HTPR	27	1413E		1429	S20	E17	4156	04	28.9	160	SF				C	1418	.6	E
0299		27	1409	1412	1428	S15	E26	4162	04	29.5	19	SN					36	.4	E
	HOLL	27	1409	1412	1430	S15	E26	4162	04	29.5	21	SN			2	C	33		
	HTPR	27	1413E		1425	S15	E27	4162	04	29.6	120	SF				C	1418	.4	E
0300		27	15321	1535	1546	S16	E26	4164	04	29.6	14	1N					220	4.4	EF
	HOLL	27	1532	1535	1546	S16	E26	4164	04	29.6	14	SN			3	C	39		F
	HTPR	27	1533		1542D	S16	E27	4164	04	29.7	90	1F				C	1535	4.4	E
0301	HOLL	27	1700	1701	1736	S09	E08	4154	04	28.3	36	SN	C	2.1	3	C	37		FU
0302	HOLL	27	1701	1705	1714	S16	E28	4164	04	29.8	13	SN	C	1.8	3	C	46		F
0303		27	1712*	1754*	1831	S15	E24	4162	04	29.5	79	SB	C	3.3			102		FK
	RAMY	27	1712	1754	1754D	S16	E25	4162	04	29.6	420	SB	C	3.3	3	C	131		
	HOLL	27	1748	1756	1831	S15	E24	4162	04	29.5	43	SB	C	3.3	3	C	112		FK
	HOLL	27	1748	1812	1831	S15	E24	4162	04	29.5	43	SN			3	C	63		K
0304	HOLL	27	1719	1719	1729	S15	E17	4156	04	29.0	10	SF	C	2.0	3	C	23		F
0305	RAMY	27	1749	1750	1755	S04	E37	4157	04	30.5	6	SF			3	C	74		
0306	HOLL	27	1808	1813	1829	S09	W37	4150	04	25.0	21	SF			3	C	28		F
0307		27	1916*	1916*	1942	S17	E25	4162	04	29.7	26	SN	C	3.4			169		K
	HOLL	27	1916	1916	1942	S16	E24	4162	04	29.6	26	SF	C	3.4	3	C	20		K
	HOLL	27	1916	1931	1942	S16	E24	4162	04	29.6	26	SN			3	C	121		K
	RAMY	27	1928	1932	1934D	S19	E28	4162	04	29.9	60	1N			3	C	367		
0308		27	22071	22081	2225	S16	E24	4162	04	29.7	18	SB	C	3.0			113	1.2	F
	HOLL	27	2207	2208	2225	S16	E24	4162	04	29.7	18	SB	C	3.0	3	C	116		F
	MAHI	27	2208	2209	2213D	S15	E24	4162	04	29.7	50	SB			1	V	110	1.2	F
0309	HOLL	27	2234	2234	2246	S17	W39	4150	04	25.0	12	SF			3	C	23		S
0310	HOLL	27	2238	2239	2246	N19	E04	4160	04	28.2	8	SF			3	C	21		
0311	HOLL	27	2251	2253	2301	S13	E09	4154	04	28.6	10	SF			3	C	33		F
0312	HOLL	27	2318	2320	2330	S15	E21	4162	04	29.6	12	SN	C	2.3	3	C	90		F
0313	HOLL	27	2334	2335	2348	S16	E10	4154	04	28.7	14	SN			3	C	42		F
0314		27	2341*	2342*	2421	S16	E21	4162	04	29.6	40	SN	C	3.2			80		FK
	HOLL	27	2341	2342	2424	S16	E21	4162	04	29.6	43	SN			3	C	89		K
	HOLL	27	2341	2409	2424	S16	E21	4162	04	29.6	43	SN			3	C	109		FK
	LEAR	28	0006	0008	0014	S15	E20	4162	04	29.5	8	SN	C	3.2	3	C	41		
0315	HOLL	27	2353	2354	2434	S03	E34	4157	04	30.5	41	SN			3	C	52		F
0316		28	00205	00281	0037	N18	E02	4160	04	28.2	17	SN					28		
	HOLL	28	0020	0028	0037	N19	E02	4160	04	28.2	17	SN			3	C	33		
	LEAR	28	0025	0029	0037	N18	E02	4160	04	28.2	12	SN			3	C	23		

H - ALPHA SOLAR FLARES

APRIL 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	LON	NOAA/USAF Region	OMP Mo	Day	Dur (Min)	Imp Opt	Kray	Obs See	Type	Area Measurement		Remarks		
																Time (UT)	Apparent (10-6 Disk)		Corr (Sq Deg)	
0317	LEAR	28	0045	0049	0104	S17	E10	4156	04	28.8	19	SN		3	C	74		F		
0318	ABST	28	0414	0415	0418	S16	W21		04	26.6	4	SF			C	0414	60	.7	DV	
0319	ABST	28	0508	0510	0510D	S18	E18	4162A	04	29.6	20	SF			P	0510	87	1.0	D	
0320	ABST	28	0627	0634	0645D	N21	E02	4160	04	28.4	18D	SF			P	0634	87	1.0	D	
0321	ABST	28	0658	0658	0703	S03	E29	4157	04	30.4	5	SF			C	0658	87	1.2	DV	
0322		28	07097	07182	0742	S15	E18	4162	04	29.7	33	SN	C 2.0				80	1.2	E	
	KAND	28	0709	0718	0732	S16	E18	4162	04	29.7	23	SN	C 2.0		C		71	.8	E	
	CATA	28	0715	0720	0800D	S15	E17	4162	04	29.6	45D	S		2	P	0720	140	1.5		
	LEAR	28	0716	0718	0753	S15	E17	4162	04	29.6	37	SF	C 2.0	3	C		28			
	KANZ	28	0721E		0725D	S15	E19	4162	04	29.7	40	SH		2						
0323	LEAR	28	0737	0738	0801	S10	E00	4154	04	28.3	24	SF		3	C		40			
0324		28	0929*	0932*	0958	S06	E24	4157	04	30.2	29	SN					107	.9	DE	
	KANZ	28	0929	0949	0957D	S08	E23	4157	04	30.1	28D	IN		3						
	KAND	28	0930	0932	0935	S06	E22	4157	04	30.0	5	SF			C		21	.2	D	
	CATA	28	0940	1005	1030D	S05	E21	4157	04	30.0	50D	S		2	P	1005	169	1.9		
	CATA	28	0940	1005	1030D	S05	E27	4157	04	30.4	50D	S		2	P	1005	140	1.6		
	MONT	28	0944	0955	1005D	S08	E24	4157	04	30.2	21D	SN			C	0955	220			
	KAND	28	0948	0958	1010	S06	E22	4157	04	30.0	22	SN			C		46	.5	E	
	KAND	28	0948	0958	1010	S07	E27	4157	04	30.4	22	SN			C		46	.5	E	
0325		28	09408	0958*	1024	S11	E22	4162	04	30.0	44	SB					116	1.3	EL	
	CATA	28	0940	1005	1030D	S12	E21	4162	04	30.0	50D	S		2	P	1005	169	1.9		
	KAND	28	0948	0958	1010	S12	E21	4162	04	30.0	22	SB			C		62	.7	E	
	KANZ	28	1022E	1022	1039	S10	E24	4162	04	30.2	17D	SN		3					L	
0326		28	10482	10502	1116	S03	E24	4157	04	30.2	28	1B	M 1.2				346	3.8	E	
	ATHN	28	1048	1052	1118	S05	E26	4157	04	30.4	30	1B		3	V	1052	255	2.9		
	CATA	28	1050E	1050	1120	S02	E23	4157	04	30.2	30D	2		2	P	1050	618	6.9		
	KAND	28	1050	1052	1109	S03	E24	4157	04	30.2	19	SB	M 1.2		C		166	1.6	E	
	KANZ	28	1056E		1056D	S03	E25	4157	04	30.3	19D	SB		3						
0327		28	11394	11418	1208	S11	W01	4154	04	28.4	29	SN					78	.8	E	
	KAND	28	1139	1141	1154	S10	W03	4154	04	28.2	15	SF			C		62	.6	E	
	KANZ	28	1141		1141D	S12	W03	4154	04	28.3	15D	SN		2						
	ATHN	28	1143	1149	1223	S11	E02	4154	04	28.6	40	SB		3	V	1149	95	1.0		
0328	RAMY	28	1638	1639	1700	N14	W07	4159	04	28.2	22	SN		3	C		127			
0329	RAMY	28	1727	1744	1758	S16	E14	4162	04	29.8	31	SF	C 2.2	3	C		35			
0330	RAMY	28	1831	1841	1845D	S18	E04	4156	04	29.1	14D	IN	C 3.4	3	C		275		F	
0331	RAMY	28	1908	1908	1913	S06	E16	4157	04	30.0	5	SN		3	C		57			
		28	1938		1950	No Flare Patrol														
		28	2141		2201	No Flare Patrol														
0332	PALE	28	2209	2211	2216	N12	W13	4159	04	27.9	7	SN	C 2.4	3	C		52		F	
0333		29	0615*	0620*	0658	S11	E79	4165	05	5.2	43	2N	C 3.5				116		DGK	
	LEAR	29	0615	0620	0711	S12	E81	4165	05	5.4	56	3N	C 3.5	3	C				K	
	ABST	29	0615	0622	0652	S11	E80	4165	05	5.3	37	2N			C	0622	175		DK	
	LEAR	29	0615	0630	0711	S12	E81	4165	05	5.4	56	2N		3	C				K	
	ISTA	29	0625		0640	S10	E77	4165	05	5.0	15	SN							G	
	CATA	29	0630E	0630	0640D	S12	E78	4165	05	5.1	10D	1		1	P	0630	56			
0334		29	06305	0635*	0656	S16	W06	4156	04	28.8	26	SN					88	.9	DEJU	
	ISTA	29	0630		0640	S14	W07	4156	04	28.7	10	1N							U	
	LEAR	29	0635	0635	0641	S16	W06	4156	04	28.8	6	SN			C	0635	114	1.2	EJ	
	ABST	29	0635	0636	0713	S17	W06	4156	04	28.8	38	SF		3	C		91			
	ABST	29	0652E	0657	0710	S16	W06	4156	04	28.8	18D	SF			P	0657	60	.6	D	

H - ALPHA SOLAR FLARES

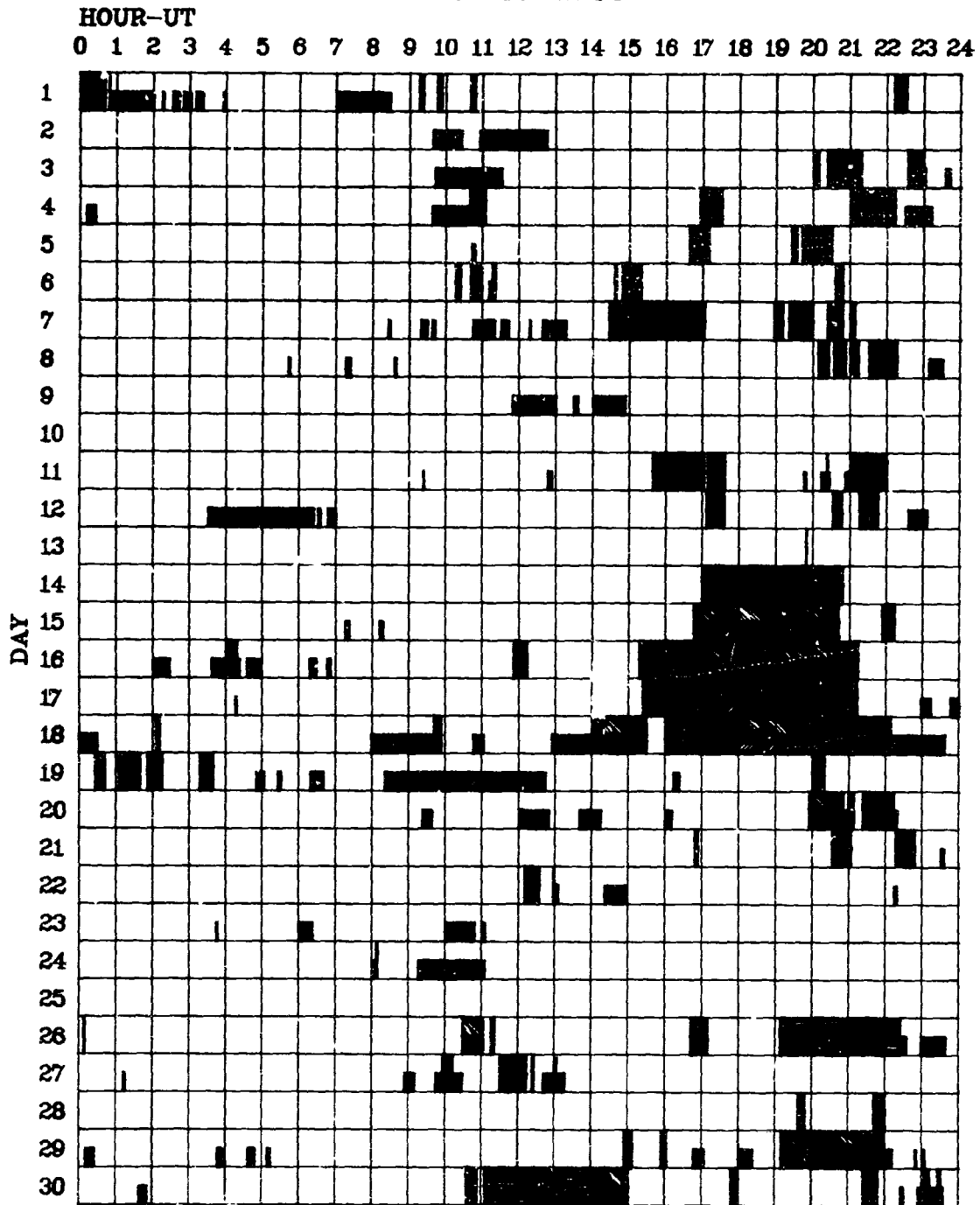
55
Apr 83

APRIL 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP Mo	Dur Day	Imp (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0335		29	10164	10196	1039	S14	W08	4154	04	28.8	23	SB					166	1.7	EH
	KHAR	29	1015E	1022	1040D	S14	W08	4154	04	28.8	250	SN		P	1020	150	1.5	EH	
	ATHN	29	1016	1019	1039	S13	W07	4154	04	28.9	23	SB	3	V	1019	159	1.7		
	HTPR	29	1018E		1031D	S15	W10	4154	04	28.7	130	SB		C	1022	160	1.6	E	
	CATA	29	1020	1020	1045	S15	W09	4154	04	28.7	25	1		1	C	1020	197	2.1	
	KANZ	29	1020E	1025	1034	S16	W09	4154	04	28.7	140	IN		2					
		29	1454		1501	No Flare Patrol													
		29	1505		1508	No Flare Patrol													
		29	1554		1604	No Flare Patrol													
		29	1910		2159	No Flare Patrol													
0336	WORO	29	2218	2222	2234	S12	W60	4150	04	25.4	16	SN			C	2222	72	1.3	CE
0337		29	2350	2357	2410	S04	W02	4157	04	29.8	20	SF	C 1.3				38	.4	F
	PALE	29	2350	2356U	2406D	S05	W02	4157	04	29.8	160	SF	C 1.3	3	C		41		F
	MANI	29	2352E	2357	2410	S04	W02	4157	04	29.8	180	SF	C 1.3	1	V		35	.4	F
0338		30	0047	0049	0116	S09	E70	4165	05	5.3	29	SN	C 3.0				82		F
	LEAR	30	0047	0049	0116	S09	E72	4165	05	5.4	29	SN	C 3.0	3	C		45		F
	PALE	30	0058E	0108U	0113D	S09	E68	4165	05	5.1	150	SF		3	C		119		F
0339	LEAR	30	0253	0253	0258	S15	W20	4154	04	28.6	5	SF		3	C		27		
0340	PALE	30	0255E	0316U	0336	S21	W13	4156	04	29.1	410	SF	C 2.2	3	C		73		
0341	LEAR	30	0306	0311	0328	S15	W20	4154	04	28.6	22	SF		3	C		55		
0342		30	03361	03398	0359	S10	E72	4165	05	5.5	23	SN	C 4.2				55		EF
	LEAR	30	0336	0339	0406	S09	E72	4165	05	5.5	30	SN	C 4.2	3	C		60		F
	PEKG	30	0337	0347	0352	S10	E72	4165	05	5.6	15	SF			C	0347	50		E
0343	LEAR	30	0721	0722	0738	S09	E70	4165	05	5.5	17	SF	C 2.0	3	C		19		F
0344		30	0755*	0805*	0845	S10	E67	4165	05	5.4	50	SN					93	1.6	F
	KANZ	30	0755	0810	0839	S09	E69	4165	05	5.5	44	SN		3					
	LEAR	30	0803	0806	0900	S09	E68	4165	05	5.4	57	SN		3	C		119		F
	MANI	30	0804	0805	0856	S10	E66	4165	05	5.3	52	SN		1	V		95	2.0	F
	ATHN	30	0811	0820	0825	S10	E64	4165	05	5.1	14	SN		2	V	0820	64	1.3	
0345		30	08053	0815*	1000	S17	W17	4156	04	29.0	115	2B	M 2.9				844	9.0	BEF1UZ
	MANI	30	0805	0815	0938D	S16	W18	4156	04	29.0	930	2B	M 2.9	1	V		850	9.4	ZU
	LEAR	30	0805	0818	0915D	S17	W17	4156	04	29.0	700	2B	M 2.9	3	C		917		ZU
	KANZ	30	0805	0829	1035D	S16	W16	4156	04	29.1	1500	2B		3					
	ISTA	30	0808		0855	S17	W17	4156	04	29.0	47	2N							FI
	ATHN	30	0808	0820	1106	S18	W17	4156	04	29.0	178	2B		2	V	0822	716	8.0	
	HTPR	30	0826E		0826D	S18	W18	4156	04	29.0	1780	2B			C	0826	1000	10.0	BE1U
	CATA	30	0840E	0845	0846D	S17	W18	4156	04	29.0	60	2		2	P	0845	956	10.6	
	CATA	30	0905E	0915	0935D	S17	W18	4156	04	29.0	300	2		2	P	0915	731	8.1	
	MONT	30	0932E	0932	1030D	S19	W15	4156	04	29.2	580	2B			C	0932	850		
	CATA	30	0946E	0947	1000D	S17	W17	4156	04	29.1	140	2		2	P	0947	731	8.1	
		30	1036		1054	No Flare Patrol													
		30	1106		1502	No Flare Patrol													
		30	1749		1758	No Flare Patrol													
		30	2124		2149	No Flare Patrol													
	30	2305		2314	No Flare Patrol														
	30	2327		2332	No Flare Patrol														
0346	LEAR	30	2344	2344	2356	S16	W18	4162	04	29.6	12	SN		3	C		50		

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

APRIL 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 | Ramsey |
| 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

57
May 83

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF Region		CMP Mo	Dur Day	Dur (Min)	Imp Opt	Xray	Obs See	Obs Type	Time (UT)	Area Measurement		Remarks	
						Lat	Long									Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0001	LEAR	01	0054	0055	0058	S15	W14	4162	04	30.0	4	SF	3	C		23			
0002		01	0118	0118*	0140	S10	E57	4165	05	5.3	22	SF				31		K	
	LEAR	01	0118	0118	0140	S10	E57	4165	05	5.3	22	SF	3	C		24		K	
	LEAR	01	0118	0128	0140	S10	E57	4165	05	5.3	22	SF	3	C		38		K	
0003	LEAR	01	0157	0157	0203	S15	W19	4162	04	29.7	6	SF	3	C		47			
0004		01	0218*	02575	0325	S12	E52	4165	05	5.0	67	1B C	8.7			279	4.2	FU	
	LEAR	01	0218	0257	0342	S11	E52	4165	05	5.0	84	1B C	8.7	3	C	355		F	
	PURP	01	0257E	0258	0315	S12	E53	4165	05	5.1	180	1B		C	0258	179	3.1		
	MANI	01	0258	0258	0318	S11	E52	4165	05	5.0	20	2B		1	V	350	5.7	F	
	PEKG	01	0258	0302	03150	S12	E53	4165	05	5.1	17D	1N C	8.7	P	0302	231	3.9	U	
0005	LEAR	01	0300	0301	0307	S11	W05	4164A	04	30.7	7	SF	3	C		34			
0006	LEAR	01	0326	0329	0344	S14	W33	4154	04	28.7	18	SF	3	C		32			
0007	LEAR	01	0354	0404	0422	S10	E56	4165	05	5.4	28	SF C	1.3	3	C		59		
0008	LEAR	01	0457	0458	0505	S14	W21	4162	04	29.7	8	SF	3	C		26			
0009		01	0600*	0601*	0628	S11	E50	4165	05	5.0	28	SN C	1.4			41	1.1	EU	
	LEAR	01	0600	0601	0605	S11	E50	4165	05	5.0	5	SN C	1.4	3	C	34		U	
	LEAR	01	0611	0614	0619	S11	E50	4165	05	5.0	8	SN C	1.1	3	C	25			
	PEKG	01	0617	0626	0638	S11	E51	4165	05	5.1	21	SN		P	0626	67	1.1	E	
	LEAR	01	0621	0629	0649	S11	E50	4165	05	5.0	28	SN C	1.4	3	C	37		U	
0010		01	07123	0720*	0820	S13	W33	4154	04	28.9	68	1N C	4.7			216	2.4	EF	
	LEAR	01	0712	0720	0824	S14	W33	4154	04	28.9	72	1N C	4.7	3	C	289		F	
	ATHN	01	0714	0721	0831	S12	W31	4154	04	29.1	77	1N		3	V	0721	223	2.7	
	PEKG	01	0715	0722	0759	S12	W34	4154	04	28.8	44	SN C	4.7	P	0722	80	1.0	E	
	MANI	01	0715E	0720	0827	S15	W34	4154	04	28.8	71D	1N		1	V	270	3.5	F	
	KANZ	01	0740E	0740	0811D	S13	W34	4154	04	28.8	31D	SN		1					
0011		01	09082	09102	0936	S10	E54	4165	05	5.4	28	1N C	2.5			113	1.5	D	
	LEAR	01	0908	0910	0916D	S09	E53	4165	05	5.3	80	1F C	2.5	3	C	180			
	KAND	01	0908	0910	0918D	S11	E54	4165	05	5.4	100	SB		C		21	.4	D	
	MANI	01	0908	0910	0936D	S10	E53	4165	05	5.4	28D	1N		1	V	157	2.6		
	ATHN	01	0910	0912	0936	S11	E55	4165	05	5.5	26	SF		3	V	0913	95	1.6	
		01	0937		1239	No Flare Patrol													
		01	1304		1708	No Flare Patrol													
0012	ATHN	01	1316	1325	1351	S10	E50	4165	05	5.3	35	SB	3	V	1325	111	1.7		
0013	HOLL	01	1709E	1725	1745D	S09	E44	4165	05	5.0	36D	SF	3	C		106			
0014	HOLL	01	1715	1718	1736	S13	W28	4162	04	29.7	21	SN C	1.0	3	C		54		F
		01	1746		1843	No Flare Patrol													
0015	PALE	01	1845E	1845U	1921D	S07	E49	4165	05	5.4	36D	1B C	5.8	3	C		400		EZ
		01	1852		1908	No Flare Patrol													
		01	1922		1924	No Flare Patrol													
0016	HOLL	01	1937	1959	2036	S15	W37	4156	04	29.1	59	SF	2	C		162		F	
0017	HOLL	01	2045	2053	2054D	S16	W38	4156	04	29.1	90	1N C	7.4	2	C		312		F
0018	HOLL	01	2058E	2111U	2207D	S27	W26		04	29.9	69D	SF	2	C		64		F	
		01	2119		2149	No Flare Patrol													
0019		01	2314E	2321*	2439	S16	W37	4156	04	29.3	85D	2N M	2.9			409	5.1	FU	
	PEKG	01	2314E	2321	2400D	S16	W38	4156	04	29.2	46D	2N M	2.9	P	2321	463	6.1	U	
	MANI	01	2328E	2328	2406	S17	W38	4156	04	29.2	38D	1N		1	V	310	4.2	F	
	LEAR	01	2336E	2342U	2512	S17	W34	4156	04	29.5	96D	2N M	2.9	2	C	493		UF	
	MITK	01	2349E	2329		S15	W38	4156	04	29.2	D	1N		C	2351	370	5.0	U	

38
May 83

H - ALPHA SOLAR FLARES

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0020	LEAR	02	0159	0203	0224	S11	E36	4165	05	4.8	25	SF	3	C		69		F	
0021	LEAR	02	0333	0335	0341	S09	E44	4165	05	5.4	8	SF	3	C		26			
0022	LEAR	02	0350	0356	0409	S09	E44	4165	05	5.5	19	SN C	1.3	3	C		48		
0023	ABST	02	0443	0448	0500	N19	W55	4160	04	28.1	17	SF		C	0448	87	1.6	D	
0024	ABST	02	0446	0448	0452	S04	W33	4157	04	29.8	6	SN		C	0448	87	1.0	DK	
0025	LEAR	02	0512	0513	0516	S11	E39	4165	05	5.1	4	SF	3	C		35			
0026	LEAR	02	0553	0556	0610	N18	W53	4160	04	28.3	17	SF C	1.8	3	C		21		F
0027	02	0636	0652	0715	S11	E32	4165	05	4.7	39	SF					20			
	LEAR	02	0636	0652	0725	S11	E32	4165	05	4.7	49	SF	3	C		20			
	KANZ	02	0650E	0652	0705	S11	E32	4165	05	4.7	150	SF	2						
0028	02	07471	08002	0815	S10	E41	4165	05	5.4	28	SF C	1.1				53			
	KANZ	02	0747	0802	0817	S10	E40	4165	05	5.3	30	SF	2						
	LEAR	02	0748	0800	0813	S09	E42	4165	05	5.5	25	SF C	1.1	3	C		53		
0029	02	0832*	0852*	0936D	S04	W33	4157	04	30.0	64D	SN					43			
	KANZ	02	0832	0852	0936D	S04	W33	4157	04	30.0	64D	SN	2						
	LEAR	02	0845	0913	0913D	S03	W33	4157	04	30.0	28D	SF	3	C		43			
0030	02	08361	08393	0854	N18	W54	4160	04	28.3	18	SN					29			
	LEAR	02	0836	0839	0845	N18	W54	4160	04	28.3	9	SF	3	C		29			
	KANZ	02	0837	0842	0902	N18	W55	4160	04	28.3	25	SN	2						
0031	02	10166	10301	1031D	S09	E40	4165	05	5.4	15D	SN					70			
	KANZ	02	1016	1031	1031D	S09	E40	4165	05	5.4	15D	SN	3						
	MONT	02	1022	1030	1030D	S09	E41	4165	05	5.5	8D	SN		C	1030	70			
0032	02	1323*	1328*	1402	S03	W34	4157	04	30.0	39	SF C	1.8				44		F	
	HOLL	02	1323	1328	1349	S02	W34	4157	04	30.0	26	SF	3	C		62		F	
	HOLL	02	1350	1355	1400	S04	W31	4157	04	30.2	10	SF	3	C		50			
	HOLL	02	1407	1407	1417	S03	W36	4157	04	30.0	10	SF C	1.8	3	C		20		F
0033	HOLL	02	1351	1355	1404	S11	E34	4165	05	5.1	13	SF	3	C		33		F	
0034	HOLL	02	1422	1430	1444	S03	W36	4157	04	30.0	22	SF C	1.9	3	C		58		
		02	1444		1602	No Flare Patrol													
0035	HOLL	02	1603E	1628U	1702	S03	W37	4157	04	30.0	59D	SF	3	C		71		F	
0036	02	1715*	1728	1731	S04	W38	4157	04	30.0	16	SN C	1.9				64		F	
	HOLL	02	1715	1728	1748D	S03	W37	4157	04	30.0	33D	SN C	1.9	3	C		99		F
	PALE	02	1727	1728	1731	S04	W39	4157	04	29.9	4	SF C	1.9	3	C		28		
		02	1801		1810	No Flare Patrol!													
		02	1822		1827	No Flare Patrol!													
		02	1855		1933	No Flare Patrol!													
0037	HOLL	02	2013	2025	2025D	S02	W41	4157	04	29.9	12D	SB C	3.3	3	C		171		
		02	2041		2054	No Flare Patrol!													
		02	2119		2128	No Flare Patrol!													
		02	2140		2159	No Flare Patrol!													
0038	VORO	02	2244E		2252	S10	W63	4154	04	28.3	8D	IF		C	2245	161		BDHJ	
0039	03	00114	00134	0038	S20	W52	4156	04	29.1	27	SN C	4.5				116	2.4	EFJ	
	CULG	03	0011	0013	S21	W50	4156	04	29.3	19	SN		P	0013	60	.9	F		
	VORO	03	0011	0013	S21	W52	4156	04	29.1	23	IN		C	0013	170	3.3	EJ		
	LEAR	03	0012	0014	S20	W51	4156	04	29.2	25	SN C	4.5	3	C		76		F	
	HOLL	03	0012	0014	S18	W53	4156	04	29.1	26	SN C	4.5	2	C		69		F	
	PEKG	03	0015E	0015	0045	S19	W52	4.56	04	29.1	30D	SN C	4.5	P	0015	118	2.0	E	
	MANI	03	0015	0017	0042	S19	W52	4156	04	29.1	27	IB		1	V	200	3.4	F	

H - ALPHA SOLAR FLARES

99
May 83

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP No	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks	
																Time (UT)	Apparent (10 ⁻⁶ Disk)		Corr (Sq Deg)
0040	MANI	03	0013	0013	0035	S03	W42	4157	04	30.0	22	SF		1	V		50	.7	
0041		03	0058*	01106	0137	S11	E30	4165	05	5.3	39	SF	C 2.0				168	2.3	DFJ
	MANI	03	0058	0110	0141	S11	E30	4165	05	5.3	43	SF		1	V		64	.8	F
	LEAR	03	0058	0116	0141	S11	E30	4165	05	5.3	43	SN	C 2.0	3	C		63		F
	VORO	03	0113	0116	0129	S11	E30	4165	05	5.3	16	1F			C	0116	376	3.8	DJ
0042		03	01021	0103*	0122	S03	W41	4157	04	30.0	20	SN					104	2.6	EFJ
	HOLL	03	0102	0104	0119	S03	W41	4157	04	30.0	17	SN		2	C		21		F
	VORO	03	0102	0119	0121	S03	W42	4157	04	30.0	19	1F			C	0109	349	4.8	EJ
	LEAR	03	0103	0103	0118	S03	W40	4157	04	30.0	15	SN		3	C		27		
	MANI	03	0103	0116	0132	S03	W41	4157	04	30.0	29	SF		1	V		20	.3	F
0043	LEAR	03	0356	0400	0410	S11	E29	4165	05	5.3	14	SF		3	C		93		
0044	LEAR	03	0402	0406	0417	S03	W43	4157	04	30.0	15	SF	C 1.3	3	C		42		
0045		03	04312	04321	0442	S02	W44	4157	04	30.0	11	SN	C 2.0				52	.7	FJ
	CULG	03	0431	0432	0439	S03	W43	4157	04	30.0	8	SN			C	0432	50	.7	JF
	LEAR	03	0433	0433	0446	S02	W45	4157	04	29.9	13	SF	C 2.0	3	C		53		
0046	LEAR	03	0536	0539	0548	S11	E28	4165	05	5.3	12	SF		3	C		21		
0047	HTPR	03	0633	0636	0645	S11	E28	4165	05	5.4	12	SF			C	0636	60	.7	
0048		03	0705*	0712*	0738	S04	W46	4157	04	29.9	33	SN					30	.4	E
	HTPR	03	0705	0712	0740	S05	W45	4157	04	30.0	35	SF			C	0712	30	.4	E
	KANZ	03	0720	0726	0736	S03	W46	4157	04	30.0	16	SN		2					
0049	KANZ	03	0746	0756	0816	S03	W45	4157	04	30.0	30	SN		2					
0050		03	08066	0817*	0857	S10	E28	4165	05	5.4	51	SN					92	1.0	E
	KANZ	03	0806	0826	0856	S10	E27	4165	05	5.4	50	SN		3					
	HTPR	03	0812	0817	0858	S11	E28	4165	05	5.4	46	SF			C	0817	100	1.1	E
	CATA	03	0840E	0840	0840D	S08	E28	4165	05	5.5	46D	S			P	0840	84	1.0	
0051	HTPR	03	0947	0950	0954	S05	W50	4157	04	29.8	7	SF			C	0950	20	.3	
0052		03	1110	1113	1136	S12	E27	4165	05	5.5	26	SN					40	.4	E
	HTPR	03	1110		1146D	S11	E28	4165	05	5.6	36D	SN			C	1130	60	.7	E
	KAND	03	1110	1113	1136	S12	E26	4165	05	5.4	26	SF			C		21	.2	E
0053	HTPR	03	1225		1309D	S04	W67		04	28.6	44D	SF			C	1241	20	.4	E
0054		03	13011	1304	1312	S10	E27	4165	05	5.6	11	SN					32	.4	E
	KAND	03	1301	1304	1312	S09	E27	4165	05	5.6	11	SF			C		33	.4	E
	HTPR	03	1302		1309D	S11	E27	4165	05	5.6	7D	SN			C	1309	30	.3	
0055	HTPR	03	1439	1444	1456	S07	E16	4165	05	4.8	17	SF			C	1444	10	.1	
0056	HOLL	03	2049	2051	2111	S03	W51	4157	04	30.0	22	SF	C 1.0	3	C		21		F
0057		04	0521	0536	0616	S03	W57	4157	04	30.0	55	SF	C 2.1				52	1.1	E
	LEAR	04	0521	0536	0605	S02	W55	4157	04	30.1	44	SF	C 2.1	3	C		45		
	HTPR	04	0549E		0613	S02	W58	4157	04	30.0	24D	SF			C	0557	80	1.6	E
	HTPR	04	0549E		0630	S04	W58	4157	04	30.0	41D	SF			C	0611	30	.6	E
0058	HTPR	04	0549E		0616	S16	E66	4169	05	9.2	27D	SF			C	0557	20	.4	
0059	HTPR	04	0549E		0620	S10	E10	4165	05	5.0	31D	SF			C	0555	60	.6	EI
0060	HTPR	04	0619	0623	0726	S13	E66	4169	05	9.2	67	SF			C	0623	20	.4	
0061	HTPR	04	0814	0815	0824	S11	E11	4165	05	5.2	10	SN			C	0815	30	.3	E
0062	HTPR	04	0930E		0955	N14	E01	4167	05	4.5	25D	SF			C	0935	30	.3	E
0063	HTPR	04	1121E		1125J	S16	W72	4156	04	29.1	4D	SF			C	1121	20		

H - ALPHA SOLAR FLARES

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	OMP	Dur	Imp	Obs	Area Measurement		Remarks				
								USAF Region					Time (UT)	Apparent (10 ⁻⁶ Disk)		Corr (Sq Deg)			
0064	HTPR	04	1133E		1137D	N14	W01	4167	05	4.4	40	SF	C	1134	20	.2			
0065	HTPR	04	1205E		1209	S07	E04	4165	05	4.8	40	SF	C	1207	20	.2			
0066	ATHN	04	1230E	1235	1241	S10	E15	4165	05	5.6	110	SN	4	V	1235	95	1.0		
0067	ATHN	04	1233E	1237	1245	S11	E03	4165	05	4.7	120	SN	4	V	1237	80	.8		
0068	HTPR	04	1340		1533D	S15	E30	4168	05	6.8	1130	SN	C	1450	100	1.1	E		
0069	HTPR	04	1451		1533D	N14	W01	4167	05	4.5	420	SF	C	1504	40	.4	E		
			04 1523		1527	No Flare Patrol													
			04 1534		1555	No Flare Patrol													
			04 1603		1737	No Flare Patrol													
			04 1751		1950	No Flare Patrol													
			04 2029		2110	No Flare Patrol													
0070		05	00023	0005*	0100	S02	W68	4157	04	30.0	58	SN	C	4.2		114	.5	DEF JK	
	VORO	05	0002	0020	0054	S03	W71	4157	04	29.8	52	1F			C	0020	349	DJK	
	CULG	05	0003	0005	0012	S03	W66	4157	04	30.1	9	SN			C	0005	20	.5	
	HOLL	05	0004	0005	0112	N01	W69	4157	04	29.9	68	SB			C		52		
	PALE	05	0004E	0008U	0101D	S04	W68	4157	04	30.0	57D	SN	C	4.2	3	C	74		FEK
	PALE	05	0004E	0020	0101D	S04	W68	4157	04	30.0	57D	SN	C	8.2	3	C	86		K
	HOLL	05	0004	0020	0112	N01	W69	4157	04	29.9	68	1N			C		112		K
	LEAR	05	0005	0006	0114	S03	W67	4157	04	30.0	69	SB	C	4.2	3	C	64		FEK
	LEAR	05	0005	0021	0114	S03	W67	4157	04	30.0	69	1B	C	8.2	3	C	153		K
0071	LEAR	05	0129	0130	0149	S11	E01	4165	05	5.1	20	SF			C		37		
0072	LEAR	05	0158	0200	0203	S14	E21	4168	05	6.7	5	SF			C		30		
0073	LEAR	05	0324	0338	0404	S02	W70	4157	04	30.0	40	SN	C	3.9	3	C	64		F
0074		05	06001	06013	0612	S03	W70	4157	04	30.0	12	1N	C	2.0			202	2.7	E
	LEAR	05	0600	0601	0614	S03	W71	4157	04	30.0	14	1N	C	2.0	3	C	141		
	TACH	05	0601		0610	S04	W70	4157	04	30.0	9	1N			C	0603	371		E
	ATHN	05	0601	0604	0613	S03	W69	4157	04	30.1	12	1N			V	0604	95	2.7	
0075	KANZ	05	0649	0657	0657D	S17	W81	4156	04	29.2	80	SN							
0076		05	0710*	0712*	0726	S02	W70	4157	04	30.1	16	SF	C	1.9			28		
	HTPR	05	0710		0715D	S01	W73	4157	04	29.9	50	SF			C	0712	30		
	LEAR	05	0711	0712	0719	S01	W73	4157	04	29.9	8	SN	C	1.9	3	C			
	KANZ	05	0712	0712	0722	S04	W61	4157	04	30.7	10	SF							
	LEAR	05	0722	0724	0736	S02	W71	4157	04	30.0	14	SF			C		25		
0077	KANZ	05	0726	0734	0739	S16	W80	4156	04	29.3	13	SN							
0078	UNN	05	0809	0811	0814D	S25	E88	4171	05	12.1	50	1N			P		94		A
0079	KANZ	05	1113	1118	1118D	S16	W80	4156	04	29.5	50	SN							
0080	RAMY	05	1144	1151	1208	S14	E16	4168	05	6.7	24	SF	C	1.8	3	C	38		
0081	HTPR	05	1414	1424	1430	S17	E90	4172	05	12.4	16	SN			C	1424	30		
0082	HOLL	05	1431	1432	1442	S01	W77	4157	04	29.9	11	SN	C	2.2	3	C	26		
0083	HOLL	05	1916	1917	1923	N00	W80	4157	04	29.9	7	SN			C		20		
0084	HOLL	05	1919	1919	1922	S10	W09	4165	05	5.1	3	SF			C		40		
0085	HOLL	05	2139	2141	2152	S09	W09	4165	05	5.2	13	SF			C		58		F
0086	PALE	05	2256	2257	2305	S28	E89	4171	05	12.9	9	SN	C	4.3	3	C	33		
0087		06	0002	2346*	0030	S10	W12	4165	05	5.1	28	SF					62	.6	F
	CULG	05	2346E	2346	2406	S11	W12	4165	05	5.1	200	SF			P	2346	60	.6	F
	LEAR	06	0002	0008	0053	S10	W12	4165	05	5.1	51	SF			C		65		

H - ALPHA SOLAR FLARES

61
May 83

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0088	MANI	06	0242E	0245	0251	S25	E88	4171	05	12.9	90	SN		1	V					
0089	CULG	06	0331	0336	0339	S08	W17	4165	05	4.9	8	SF			C	0336	40	.4		
0090		06	04021	04033	0413	S08	W19	4165	05	4.7	11	SN					60	.7	EFKV	
	CULG	06	0402	0403	0406	S08	W18	4165	05	4.8	4	SN			C	0403	30	.4	F	
	PEKG	06	0402	0405	0409	S07	W19	4165	05	4.7	7	SN			C	0405	63	.7	E	
	PURP	06	0403	0404	0411	S09	W19	4165	05	4.7	8	SN			C	0404	28	.3	E	
	ABST	06	0403	0404	0418	S08	W20	4165	05	4.7	15	SN			C	0404	131	1.4	EKV	
	LEAR	06	0403	0406	0422	S08	W18	4165	05	4.8	19	SN		3	C		47			
0091	ABST	06	0543	0545	0550	S10	W20	4170	05	4.7	7	SN			C	0545	131	1.4	E	
0092		06	06033	06104	0624	S10	W20	4165	05	4.7	21	SN					64	.7	EF	
	LEAR	06	0603	0610	0624	S10	W20	4165	05	4.7	21	SN		3	C		52		F	
	MANI	06	0603	0613	0625	S10	W19	4165	05	4.8	22	SN		1	V		45	.5		
	ATHN	06	0605	0614	0625	S09	W19	4165	05	4.8	20	SN		3	V	0614	32	.4		
	ABST	06	0606	0610	0626	S11	W20	4165	05	4.7	20	SN			C	0610	131	1.4	E	
	PEKG	06	0612E	0612E	0625	S10	W21	4165	05	4.7	130	SN			P	0612	46	.5	E	
	YUNN	03	0615E	0615U	0616	S11	W20	4165	05	4.7	10	SF			P	0615	79	.9		
0093		06	0750	0750	0803	S10	W20	4165	05	4.8	13	SF					32	.4	EF	
	LEAR	06	0750	0750	0803	S10	W21	4165	05	4.7	13	SF		3	C		25		F	
	HTPR	06	0859E		09380	S10	W20	4165	05	4.9	390	SF			C	0930	40	.4	E	
0094	HTPR	06	0859E		0906	S15	E05	4168	05	6.7	70	SF			C	0902	10	.1		
0095	HTPR	06	1026	1031	1037	S15	E04	4168	05	6.7	11	SN			C	1031	30	.3		
0096	RAMY	06	1055	1103	1121	S11	W21	4155	05	4.9	26	SN	C 1.8	3	C		62			
0097	KANZ	06	1233	1233	1238	S10	W22	4170	05	4.9	5	SF		2						
0098	HOLL	06	1353	1412	1448	S10	W26	4165	05	4.6	55	SF		3	C		81		H	
0099		06	1528	1533	1558	S10	W23	4165	05	4.9	30	SN					65		F	
	HOLL	06	1528	1533	1556	S09	W23	4165	05	4.9	28	SN		3	C		73		F	
	RAMY	06	1528	1533	1601	S10	W22	4165	05	5.0	33	SN		3	C		57			
	KANZ	06	1541E		15420	S10	W23	4165	05	4.9	10	SN		1						
0100		06	16072	16112	1625	S10	W20	4165	05	5.2	18	SF					48		F	
	RAMY	06	1607	1613	1632	S10	W21	4165	05	5.1	25	SF		3	C		74			
	HOLL	06	1609	1611	1618	S10	W20	4165	05	5.2	9	SF		3	C		22		F	
		06	2010		2014	No Flare Patrol														
		06	2038		2040	No Flare Patrol														
		06	2113		2116	No Flare Patrol														
0101	PALE	06	2216	2217	22500	S15	W03	4168	05	6.7	340	SF		3	C		27			
0102	CULG	06	2229	2230	2243	S11	W30	4170	05	4.7	14	SN			C	2230	30	.3		
0103	CULG	06	2337	2337U	23450	S11	W30	4170	05	4.7	80	SN			P	2337	40	.5		
0104	CULG	07	0118	0119	0123	S08	E81	4172	05	13.1	5	SF			C	0119	30			
0105		07	01293	01344	0155	S25	E75	4171	05	12.9	26	SF	C 1.8				52			
	PALE	07	0129	0134	0203	S26	E77	4171	05	13.0	34	SN	C 1.8	3	C		33			
	LEAR	07	0131	0138	0201	S27	E75	4171	05	12.9	30	SF	C 1.8	3	C					
	CULG	07	0132	0134	0141	S22	E74	4171	05	12.7	9	IF			C	0134	70			
0106	PALE	07	0251	0251	0300	S09	W27	4165	05	5.1	9	SF		3	C		27			
0107	LEAR	07	0310	0311	0323	S09	W29	4165	05	4.9	13	SF	C 1.0	3	C		36			
0108		07	03312	03332	0340	S10	W32	4165	05	4.7	9	SN					53	.6	D	
	CULG	07	0331	0333	0342	S11	W32	4165	05	4.7	11	SN			C	0333	60	.7		
	LEAR	07	0333	0334	0339	S10	W32	4165	05	4.7	6	SN		3	C		50			
	PEKG	07	0333	0335	0339	S09	W33	4165	05	4.7	6	SF			C	0335	50	.6	D	

62
May 83

H - ALPHA SOLAR FLARES

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CNO	NOAA/ USAF Region	OMP Mo	Dur Day	Imp (Min)	Imp Opt	Xray	Obs See	Time (UT)	Area Measurement		Remarks	
																Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0109	ABST	07	0454	0455	0458	S09	W30	4165	05	4.9	4	SF		C	0455	87	1.0	DHV	
0110	ABST	07	0530	0533	0545	N13	W41	4167	05	4.1	15	1N		C	0533	174	2.6	EK	
0111	CATA	07	0615E	0615	0620	S35	E77	4171	05	13.4	50	1		P	0615	56			
0112		07	0740S	0740	0800	S29	E74	4171	05	13.1	20	SB	M 1.0			75		E	
	CATA	07	0740	0740	0755	S29	E75	4171	05	13.2	15	1		C	0740	112			
	ISTA	07	0743		0759	S29	E75	4171	05	13.2	16	SB							
	LEAR	07	0743	0746	0811	S28	E72	4171	05	12.9	28	SB	M 1.0	3	C				
	PEKG	07	0745	0747	0755	S29	E73	4171	05	13.0	10	SN	M 1.0	C	0747	38		E	
0113	CATA	07	1040	1045	1045	S36	E74	4171	05	13.4	50	1		P	1045	112			
		07	1046		1059	No Flare Patrol													
0114		07	1103	1129*	1227	S28	E71	4171	05	13.0	84	SN				30		K	
	RAMY	07	1103	1129	1227	S28	E71	4171	05	13.0	84	SF		3	C	32		K	
	RAMY	07	1103	1147	1227	S28	E71	4171	05	13.0	84	SN		3	C	28		K	
		07	1133		1144	No Flare Patrol													
0115	HOLL	07	1449	1502	1510	S09	W37	4165	05	4.8	21	SF		3	C		30		
0116		07	1524*	1524*	1538	S29	E70	4171	05	13.1	14	SN	C 1.9			12		S	
	HOLL	07	1524	1524	1532	S29	E71	4171	05	13.2	8	SN		3	C	14		S	
	RAMY	07	1529	1534	1535	S28	E71	4171	05	13.2	6	SF		3	C	11			
	HOLL	07	1539	1541	1548	S29	E69	4171	05	13.1	9	SN	C 1.9	3	C	10			
0117	HOLL	07	1714	1716	1727	S29	E68	4171	05	13.0	13	SB	C 4.2	3	C		44		
0118	HOLL	07	1759	1759	1808	S09	W35	4165	05	5.1	9	SF		3	C		28		
		07	1905	1920	1930	S29	E66	4171	05	13.0	250	1B	C 8.0			101		FKZ	
	HOLL	07	1905	1920	1930	S29	E66	4171	05	13.0	250	1B	C 8.0	3	C	94		K	
	HOLL	07	1905	1927	1930	S29	E66	4171	05	13.0	250	1B	C 8.0	3	C	108		ZFK	
0120	HOLL	07	2014	2022	2028	S29	E66	4171	05	13.0	14	SF	C 1.4	3	C		49		
0121		07	21034	2107	2114	N14	W48	4167	05	4.2	11	SF				40			
	PALE	07	2103	2107	2114	N14	W47	4167	05	4.3	11	SF		3	C	38			
	HOLL	07	2107	2107	2113	N15	W50	4167	05	4.1	6	SF		3	C	42			
0122	HOLL	07	2143	2148	2159	N13	W49	4167	05	4.2	16	SF		3	C		34		
0123		07	22071	22071	2224	S16	W24	4168	05	6.1	17	SN				28	.2	F	
	CULG	07	2207	2207	2218	S17	W23	4168	05	6.2	11	SN			C	2207	20	.2	
	HOLL	07	2208	2208	2231	S15	W24	4168	05	6.1	23	SN		3	C	37		F	
0124		07	2216*	2216*	2301	S29	E66	4171	05	13.1	45	2B	X 3.1			458	10.8	EFMZ	
	MANI	07	2216	2216	2305	S30	E67	4171	05	13.2	49	2B		1	Y	550	11.6	MZ	
	HOLL	07	2216	2220	2300	S29	E68	4171	05	13.2	44	2B	X 3.1	3	C	546		Z	
	CULG	07	2217	2222	2241	S27	E64	4171	05	12.9	24	2B			C	2222	420	10.0	
	PALE	07	2218	2220	2304	S31	E68	4171	05	13.3	46	2B	X 3.1	3	C	559		ZE	
	MITK	07	2227E	2322		S26	E67	4171	05	13.1	0	3N			C	2227	650		Z
	HOLL	07	2310	2310	2317	S30	E63	4171	05	12.9	7	SN		3	C	25		F	
0125	PALE	07	2258	2300	2309	N14	W48	4167	05	4.3	11	SF		3	C		17		
0126		07	2359*	2405	2443	S13	W27	4168	05	6.0	44	SN	C 1.9			98	1.1	EFHJ	
	HOLL	07	2359	2405	2502	S12	W29	4168	05	5.8	63	SN		3	C	142		F	
	LEAR	08	0002	0005	0054	S13	W25	4168	05	6.1	52	SF		3	C	90		FH	
	MANI	08	0003	0005	0034	S13	W28	4168	05	5.9	31	SN		1	Y	55	.6	F	
	PALE	08	0003	0005	0045	S12	W26	4168	05	6.0	42	SF	C 1.9	3	C	43		F	
	CULG	08	0005E	0005U	0005U	S14	W26	4168	05	6.0	420	SN			P	0005	150	1.6	J
	PEKG	08	0010	0012	0022	S12	W28	4168	05	5.9	12	SF			C	0012	105	1.2	E
			08	0224*	0224*	0430	S30	E61	4171	05	12.9	126	2N	X 1.3			705	14.2	EFIKUZ
	LEAR	08	0224	0224	09130	S31	E62	4171	05	13.0	4090	SF		3	C	60		K	
	CULG	08	0224E	0228	0253	S27	E60	4171	05	12.8	90	SF			P	0228	60	1.2	
	LEAR	08	0224	0317	09130	S31	E62	4171	05	13.0	4090	2B	X 1.3	3	C	851		ZUK	
	PEKG	08	0225	0226	0231	S30	E62	4171	05	13.0	6	SF			C	0226	126		F
	CULG	08	0248	0316U	0535	S28	E60	4171	05	12.8	167	3B			P	0316	570	12.5	U1E
	MANI	08	0250	0300	0513	S30	E62	4171	05	13.0	143	2B		1	Y	435	9.4	FU	
	MANI	08	0250	0308	0513	S30	E62	4171	05	13.0	143	2B		1	Y	730	15.1	FU	
	PALE	08	0255	0303	04030	S31	E59	4171	05	12.8	680	2B		3	C	755		K	
	YUNN	08	0255	0324	04160	S30	E62	4171	05	13.0	810	4B			P	1383	32.8	U	
	PALE	08	0255	0325	04030	S31	E59	4171	05	12.8	680	2B		3	C	887		ZUK	
	PEKG	08	0257	0305	0448	S31	E61	4171	05	12.9	111	2N			C	0305	223	5.2	FKU
	PEKG	08	0257	0315	0448	S30	E60	4171	05	12.8	111	2N			C	0315	463	10.8	FU
	PURP	08	0303	0327	06310	S30	E62	4171	05	13.0	2080	3N			C	0327	703	16.7	
	KODA	08	0322E	0323	03480	S30	E60	4171	05	12.8	260	4B			P	0333	2958	30.5	U
	MITK	08	0355E	0425	0518	S30	E58	4171	05	12.7	830	2N			C	0425	360	7.8	E

H - ALPHA SOLAR FLARES

63
May 83

MAY 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 ⁻⁶ Disk)	Corr (Sq Deg)			
0128	08	02452	02501	0302	S17	E18	4173	05	9.5	17	SN						56	.7			
	CULG	08	0245	0251	0301	S17	E17	4173	05	9.4	16	SN			C	0251	70	.7			
	LEAR	08	0247	0250	0302	S17	E18	4173	05	9.5	15	SF		3	C		?				
0129	YUNN	08	0248E	0248U	0251	N15	W50	4167	05	4.3	30	SN			P	0248	94	1.6			
0130	LEAR	08	0535	0508	0513	S11	E15	4173	05	9.3	8	SF		3	C			29			
0131	08	0629*	06489	0702	N13	W54	4167	05	4.2	33	SF						22				
	LEAR	08	0629	0648	0653	N12	W53	4167	05	4.3	24	SF		3	C			19			
	LEAR	08	0656	0657	0711	N14	W54	4167	05	4.2	15	SF		3	C			26			
0132	LEAR	08	0724	0727	0739	S09	E64	4172	05	13.1	15	SF		3	C			35			
0133	CATA	08	0725E	0725	0725D	S32	E55	4171	05	12.7	150	2			P	0725	337	6.7			
0134	ATHN	08	1143E	1148	1152	S30	E63	4171	05	13.4	90	IB		3	V	1148	127	2.8			
0135	HOLL	08	1453	1456	1517	N16	W56	4167	05	4.4	24	SN		3	C			19			
0136	HOLL	08	1735	1737	1742	S11	E59	4172	05	13.2	7	SF		3	C			29			
0137	HOLL	08	1900	1901	1905	N13	W58	4167	05	4.4	5	SF		3	C			17			
0138	08	19139	19212	1930	S28	E54	4171	05	13.0	17	SN	C 2.1					31				
	HOLL	08	1913	1921	1933	S28	E54	4171	05	13.0	20	SN	C 2.1	3	C			39			
	PALE	08	1922	1923	1927	S29	E55	4171	05	13.1	5	SF	C 2.1	3	C			23			
0139	08	19511	19522	2002	S30	E54	4171	05	13.1	11	SN	C 1.9					86		F		
	HOLL	08	1951	1952	2003	S29	E53	4171	05	13.0	12	SN	C 1.9	3	C			65		F	
	PALE	08	1952	1954	2000	S30	E54	4171	05	13.1	8	SN	C 1.9	3	C			107			
0140	PALE	08	1959	2010	2028	S11	E55	4172	05	13.0	29	SF		3	C			44			
0141	08	2227	22306	2247	S08	W55	4165	05	4.8	20	SF	C 1.2					22		K		
	PALE	08	2227	2230	2247	S08	W55	4165	05	4.8	20	SF		3	C			18		K	
	PALE	08	2227	2236	2247	S08	W55	4165	05	4.8	20	SF	C 1.2	3	C			25		K	
0142	08	2300	23003	2309	S10	E54	4172	05	13.0	9	SF						22		.3		
	MANI	08	2300	2300	2312	S10	E54	4172	05	13.0	12	SF		1	V			20		.3	
	PALE	08	2300	2303	2306	S10	E54	4172	05	13.0	6	SF		3	C			24			
0143	08	23131	23141	2324	N14	W62	4167	05	4.3	11	SF						45		.9		
	HOLL	08	2313	2314	2324	N17	W61	4167	05	4.3	11	SF		3	C			40			
	MANI	08	2314	2314	2324	N13	W62	4167	05	4.3	10	SF		1	V			45		.9	
	PALE	08	2314	2315	2324	N13	W62	4167	05	4.3	10	SF		3	C			50			
0144	PALE	08	2315	2316	2325	S09	W55	4165	05	4.8	10	SF		3	C			51			
0145	08	2340*	24031	2415	S11	E54	4172	05	13.0	35	SF						77		.7		
	LEAR	08	2340	2403	2429	S10	E55	4172	05	13.1	49	SF		3	C			150			
	PALE	09	0003	0003	0008	S12	E53	4172	05	13.0	5	SF		3	C			42			
	MANI	09	0004	0004	0008	S12	E53	4172	05	13.0	4	SF		1	V			40		.7	
0146	08	2340*	24162	2428	S28	E51	4171	05	13.0	48	SN	C 1.3					104		1.8	F	
	LEAR	08	2340	2417	2444	S28	E52	4171	05	13.0	64	IN	C 1.3	3	C			156			
	MANI	08	2340	2418	2437D	S28	E52	4171	05	13.0	57D	IN		1	V			154		2.7	F
	HOLL	09	0015	0016	0022	S29	E50	4171	05	12.9	7	SN		3	C			71		F	
	PALE	09	0015	0017	0024	S30	E51	4171	05	13.0	9	SN		3	C			88		F	
	CULG	09	0016	0017	0021	S27	E51	4171	05	13.0	5	SF			C	0017		50		.8	
0147	LEAR	09	0029	0029	0048	S14	W32	4168	05	6.6	19	SF		3	C			23			
0148	09	0052	00364	0046	N16	W62	4167	05	4.3	11	SF						30				
	LEAR	09	0035	0036	0046	N15	W61	4167	05	4.4	11	SF		3	C			17			
	HOLL	09	0036	0037	0048	N17	W64	4167	05	4.2	12	SF		3	C			14			
	PALE	09	0037	0040	0045	N16	W62	4167	05	4.3	8	SF		3	C			60			

64
May 83

H - ALPHA SOLAR FLARES

MAY 1983

Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP Mo	Dur Day	(Min)	Imp Cpt	X-ray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0149		09	0109*	0112*	0130	S11	E52	4172	05	13.0	21	SF	C 2.3				66		F
	HOLL	09	0109	0112	0124	S10	E52	4172	05	12.9	15	SF	C 2.3	3	C		37		F
	PALE	09	0130	0133	0136	S12	E52	4172	05	13.0	6	SF	C	3	C		96		F
0150		09	01555	0202	0210	S10	E52	4172	05	13.0	15	SF	C 5.6				30		
	PALE	09	0155	0159U	0212	S12	E53	4172	05	13.1	17	SF	C 5.6	3	C		39		
	LEAR	09	0200	0202	0209	S09	E52	4172	05	13.0	9	SF	C 5.6	3	C		21		
0151	PALE	09	0227	0231	0236	S11	E52	4172	05	13.0	9	SF		3	C		43		
0152	PALE	09	0227	0233	0240	S30	E50	4171	05	13.0	13	SF		3	C		40		F
0153	LEAR	09	0233	0233	0243	N12	W64	4167	05	4.3	10	SF		3	C		27		
0154		09	03011	03021	0312	S29	E50	4171	05	13.0	11	SN	C 2.0				60		F
	CULG	09	0301	0302	0304	S26	E50	4171	05	13.0	3	SF			C	0302	60	.9	F
	PALE	09	0302	0303	0320	S29	E50	4171	05	13.0	18	SN	C 2.0	3	C		61	.9	F
0155	LEAR	09	0407	0407	0410	S28	E50	4171	05	13.1	3	SF		3	C		25		
0156	LEAR	09	0427	0431	0441	S10	E51	4172	05	13.0	14	SN	C 2.5	3	C		26		
0157		09	0531	0536	0546	S10	E52	4172	05	13.1	15	SN	C 4.8				72	1.2	EF
	LEAR	09	0531	0536	0549	S11	E52	4172	05	13.1	18	SN	C 4.8	3	C		69		F
	PEKG	09	0535E	0536	0544	S10	E51	4172	05	13.1	90	SN	C 4.8		P	0536	76	1.2	E
0158		09	06233	06271	0640	S10	E50	4172	05	13.0	17	SN	C 2.3				78	1.2	EFJ
	CULG	09	0621E	0625U	0640	S08	E49	4172	05	12.9	190	SN			P	0625	90	1.3	J
	LEAR	09	0623	0627	0644	S10	E51	4172	05	13.1	21	SN	C 2.3	3	C		80		F
	PEKG	09	0626	0628	0635	S11	E49	4172	05	12.9	9	SF	C 2.3		C	0328	63	1.0	E
0159		09	07064	07087	0743	S10	E50	4172	05	13.0	37	SB	9.6				96	1.5	DEF
	KAND	09	0706	0708	0726	S10	E52	4172	05	13.2	20	SB			C		42	.7	D
	CULG	09	0708E	0713U	0713D	S08	E49	4172	05	13.0	50	SN			P	0713	130	1.9	
	MANI	09	0710	0710	0819	S09	E47	4172	05	12.8	69	SB		1	V		95	1.4	
	PEKG	09	0710	0714	0719	S11	E50	4172	05	13.1	9	SN	C 9.6		P	0714	126	2.0	E
	LEAR	09	0710	0715	0748	S11	E51	4172	05	13.1	38	SB	C 9.6	3	C		88		FE
0160	LEAR	09	0807	0812	0826	S10	E71		05	14.7	19	SF		3	C		39		F
0161	RAMY	09	1200	1205	1229	S11	E46	4172	05	13.0	29	SB	C 3.7	3	C		57		
0162	RAMY	09	1303	1304	1322	S11	E48	4172	05	13.1	19	SN	C 1.8	3	C		23		
0163		09	14074	1413*	1515	S12	E46	4172	05	13.0	68	SN	M 1.0				133		EFK
	HOLL	09	1407	1416	1529	S12	E46	4172	05	13.0	82	IN	M 1.0	3	C		203		FK
	HOLL	09	1407	1454	1529	S12	E46	4172	05	13.0	82	SN		3	C		65		K
	RAMY	09	1411	1413	1447	S11	E47	4172	05	13.1	36	SB	M 1.0	3	C		130		FE
0164	HOLL	09	1511	1513	1519	S09	W63	4165	05	4.9	8	SF		3	C		51		F
0165		09	16203	1628*	1718	S12	E44	4172	05	13.0	58	SN	C 2.9				76		FK
	HOLL	09	1620	1633	1724	S12	E44	4172	05	13.0	64	SN	C 2.9	3	C		75		FK
	HOLL	09	1620	1646	1724	S12	E44	4172	05	13.0	64	SN		3	C		70		K
	RAMY	09	1623	1628	1705	S11	E44	4172	05	13.0	42	SN		3	C		84		
0166	HOLL	09	1654	1656	1706	S28	E42	4171	05	13.0	12	SN		3	C		90		F
0167		09	17303	1733*	1807	S29	E42	4171	05	13.0	37	SN					49		FK
	HOLL	09	1730	1733	1807	S29	E41	4171	05	12.9	37	SN		3	C		73		FK
	HOLL	09	1730	1755	1807	S29	E41	4171	05	12.9	37	SN		3	C		39		K
	PALF	09	1732	1733	1810	S29	E42	4171	05	13.0	38	SN		3	C		60		FK
	PALE	09	1732	1757	1810	S29	E42	4171	05	13.0	38	SF		3	C		35		K
	RAMY	09	1733	1733	1803	S30	E44	4171	05	13.2	30	SN		3	C		56		K
	RAMY	09	1733	1757	1803	S30	E44	4171	05	13.2	30	SF		3	C		30		K
0168		09	18112	18142	1833	S10	E43	4172	05	13.0	22	SF	C 1.8				35		F
	HOLL	09	1811	1815	1828	S10	E44	4172	05	13.1	17	SF	C 1.8	3	C		56		F
	PALE	09	1813	1814	1831	S10	E43	4172	05	13.0	18	SF		3	C		22		F
	RAMY	09	1816E	1816	1840	S10	E42	4172	05	12.9	240	SF		3	C		27		

66
May 83

H - ALPHA SOLAR FLARES

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF		CMP Mo	Dur (Min)	Imp Obs	Xray	See	Obs Type	Time (UT)	Area Measurement		Remarks			
						Lat	Cmd Region								Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)				
0192		10	0811	0811	0816	S30	E36	4171	05	13.2	5	SF				31				
	LEAR	10	0811	0811	0816	S30	E36	4171	05	13.2	5	SF	3	C		31				
	KANZ	10	0812	0812	0817	S30	E36	4171	05	13.2	5	SF	2							
0193	KANZ	10	0850	0855	0900	S10	W72	4170	05	4.9	10	SF								
0194		10	0929	0929	0939	S12	W14	4173	05	9.3	10	IN				314		3.4		
	YUNN	10	0924E	0924U	0929D	S11	W15	4173	05	9.3	50	IN		P	0924	314		3.4		
	KANZ	10	0929	0929	0939	S12	W12	4173	05	9.5	10	SF	1							
0195	KANZ	10	1006	1011	1025	S15	W53	4168	05	6.4	19	SF								
0196		10	1011	10125	1029	S12	E36	4172	05	13.1	18	SN				65		.6		
	KHAR	10	1010E	1012	1034D	S12	E37	4172	05	13.2	240	SF		P	1021	60		.6		
	KANZ	10	1011	1017	1030	S11	E36	4172	05	13.1	19	SN	2							
	MONT	10	1015E	1016	1028	S12	E36	4172	05	13.1	130	SN		C	1016	70				
0197	KANZ	10	1021	1025	1036	S12	W14	4173	05	9.4	15	SN								
		10	1056		1058	No Flare Patrol														
0198		10	1106	1211*	1319	S13	W15	4173	05	9.3	133	1B	M	3.1		283		2.4	K	
	RAMY	10	1106	1211	1340	S13	W16	4173	05	9.2	154	1B	M	3.1	3	C	316		K	
	RAMY	10	1106	1302	1340	S13	W16	4173	05	9.2	154	1B			3	C	310		K	
	ATHN	10	1208E	1214	1236	S14	W14	4173	05	9.4	280	1B		V	1214	223		2.4	K	
0199	RAMY	10	1301	1308	1318	S12	E32	4172	05	12.9	17	SN				39				
0200		10	1350E	1352*	1545D	S11	W18	4173	05	9.2	1150	SN	C	1.8		124		FK		
	HOLL	10	1350E	1352	1545D	S11	W18	4173	05	9.2	1150	SF			3	C	154		K	
	HOLL	10	1350E	1425	1545D	S11	W18	4173	05	9.2	1150	SN	C	1.8	3	C	95		FK	
0201		10	14585	15079	1522	S16	W22	4173	05	8.9	24	SN				51		FK		
	RAMY	10	1458	1511	1523	S15	W21	4173	05	9.0	25	SN			3	C	48		K	
	RAMY	10	1458	1516	1523	S15	W21	4173	05	9.0	25	SN			3	C	49		K	
	HOLL	10	1503	1507	1521	S18	W25	4173	05	8.7	18	SN			3	C	57		F	
0202	RAMY	10	1619	1622	1636	S14	W55	4168	05	6.5	17	SF				18				
0203		10	1627	16292	1706	S12	W19	4173	05	9.2	39	SN	C	3.9		65				
	KANZ	10	1624E	1629	1654D	S12	W19	4173	05	9.2	300	SN			2					
	RAMY	10	1627	1631	1657	S12	W19	4173	05	9.2	30	SN	C	3.9	3	C	50			
	PALE	10	1644E	1650U	1715	S13	W20	4173	05	9.2	310	SN	C	3.9	3	C	80			
0204	RAMY	10	1646	1647	1659	S28	E28	4171	05	12.9	13	SF				33				
0205	PALE	10	1722	1739	1747	S13	W20	4173	05	9.2	25	SF				94				
0206		10	1800	1808*	2013	S13	W21	4173	05	9.2	133	SN	C	5.7		113		EFK		
	PALE	10	1800	1808	1952	S13	W21	4173	05	9.2	112	SN			3	C	60		K	
	PALE	10	1800	1844U	1952	S13	W21	4173	05	9.2	112	SN	C	5.7	3	C	114		FK	
	HOLL	10	1827E	1842	2056	S12	W22	4173	05	9.1	1490	SB	C	5.7	3	C	165		FE	
0207	HOLL	10	1921	1922	1928	S29	E28	4171	05	13.0	7	SN				24				
0208	HOLL	10	2007	2012	2026	S12	E27	4172	05	12.9	19	SF				67		F		
0209		10	23	23388	2348	S11	W26	4173	05	9.0	17	SN	C	1.8		55		.5		
	CULG	10	2331	2338	2340	S11	W28	4173	05	8.9	9	SN			C	2338	50	.5		
	HOLL	10	2344	2346	2356	S11	W24	4173	05	9.2	12	SN	C	1.8	3	C	60			
0210	YUNN	11	0043	0044	0045	S29	E27	4171	05	13.1	2	SN				31		.4		
0211	YUNN	11	0246E	0246U	0310	S12	W27	4173	05	9.1	240	SN		P	0246	157		1.8	F	
0212	CULG	11	0318	0321	0325	S10	E23	4172	05	12.9	7	SF				50		.5	F	
0213		11	03504	03599	0434	S11	W25	4173	05	9.3	44	SN	M	3.1		130		1.6	FIJ	
	CULG	11	0350	0359	0428	S12	W26	4173	05	9.2	38	1N			C	0359	200		2.2	JFI
	LEAR	11	0354	0408	0445	S11	W24	4173	05	9.3	51	SB	M	3.1	3	C	99		F	
	MANI	11	0411E	0411U	0428	S10	W25	4173	05	9.3	170	SN			1	V	90		1.0	

H - ALPHA SOLAR FLARES

57
May 83

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See	Type	Area Measurement		Remarks	
														Time (UT)	Apparent (10 ⁻⁶ Disk)		Corr (Sq Deg)
0214	LEAR	11	0450	0451	0459	S12	W27	4173	05 9.2	9	SF C 4.4	3	C		24		
0215		11	0759	0800	0824	S11	E27	4172	05 13.4	25	SF C 5.4				46		F
	LEAR	11	0759	0800	0824	S10	E24	4172	05 13.1	25	SF C 5.4	3	C		46		F
	KHAR	11	0829E		0835D	S12	E30	4172	05 13.6	60	SF		P				
0215	LEAR	11	0825	0826	0854	S11	W26	4173	05 9.4	29	SN		C		26		
		11	1019		1032	No Flare Patrol											
0217	KHAR	11	1033E		1049D	S16	E27	4172	05 13.5	160	SF		P				D
		11	1050		1100	No Flare Patrol											
		11	1138		1141	No Flare Patrol											
		11	1217		1220	No Flare Patrol											
0218	HOLL	11	1322	1329	1332D	S12	W30	4173	05 9.3	100	SB M 1.3	3	C		75		
0219	HTPR	11	1417E		1434D	S10	W27	4175	05 9.6	170	SF		C	1419	30	.3	E
0220	HTPR	11	1417E		1434D	S12	W34	4173	05 9.0	170	SF		C	1419	20	.2	E
0221		11	1419I	1423	1451D	S30	E24	4171	05 13.5	320	IB M 1.9				207	.8	BEFU
	HTPR	11	1419		1434D	S30	E27	4171	05 13.7	150	SF		C	1426	70	.8	E
	RAMY	11	1419	1423	1423D	S31	E22	4171	05 13.3	40	IB M 1.9	3	C		263		UF
	HOLL	11	1420	1423	1426D	S31	E22	4171	05 13.3	60	IB M 1.9	3	C		414		FE
	HTPR	11	1450E		1451D	S30	E27	4171	05 13.7	10	SB		C	1450	80	.9	BE
		11	1530		1533	No Flare Patrol											
0222	HTPR	11	1534E		1535D	S13	W30	4173	05 9.4	10	SF		C	1534	20	.2	E
		11	1536		1546	No Flare Patrol											
		11	1556		1610	No Flare Patrol											
0223	HTPR	11	1611E		1627	S12	W33	4173	05 9.2	160	SN		C	1614	80	1.0	E
0224	HTPR	11	1621	1623	1626	S10	W20	4175	05 10.2	5	SF		C	1623	20	.2	
0225	HTPR	11	1624		1644D	N08	E85	4174	05 18.0	200	SF		C	1632	20		
		11	1645		1906	No Flare Patrol											
0226	RAMY	11	1737	1745	1802	S10	E17	4172	05 13.0	25	SF		C		27		
0227	PALE	11	1907E	1919U	1928	S11	W36	4173	05 9.1	210	SF		C		61		F
0228	PALE	11	1935	1942	2031	S11	E16	4172	05 13.0	56	SN C 6.3	3	C		190		F
0229	PALE	11	2032	2032	2041	S12	W38	4173	05 9.0	9	SF		C		26		F
		11	2055		2104	No Flare Patrol											
0230	CULG	11	2157	2159	2210	S12	W36	4173	05 9.2	13	SF		C	2159	20	.2	
0231	CULG	11	2206	2207	2212	S27	E17	4171	05 13.2	6	SF		C	2207	60	.7	
0232		11	2210	2214	2229	N08	E75	4174	05 17.5	19	1N				120		EJ
	CULG	11	2210	2212U	2223D	N09	E77	4174	05 17.7	130	1N		P	2212	70		J
	VORO	11	2210	2214	2229	N08	E73	4174	05 17.4	19	1F		C	2214	170		EJ
0233	HOLL	11	2257E	2312	2336	S10	W40	4173	05 8.9	390	SN		C		79		
0234		11	2320*	2337*	2414	S28	E14	4171	05 13.1	54	SN C 5.9				162	1.8	DEFJK
	HOLL	11	2320	2338	2448	S28	E13	4171	05 13.0	88	IB C 5.9	3	C		345		FEK
	HOLL	11	2320	2412	2448	S28	E13	4171	05 13.0	88	SF	3	C		136		K
	MANI	11	2327	2337	2348	S28	E13	4171	05 13.0	21	1B	1	V		195	2.1	F
	VORO	11	2337	2338	2343	S28	E14	4171	05 13.1	6	1F		C	2338	242	2.8	EJ
	LEAR	11	2337E	2339U	2350	S28	E14	4171	05 13.1	130	SB C 5.9	3	C		158		F
	PEKG	12	0010	0014	0020	S27	E17	4171	05 13.3	10	SF		C	0014	29	.4	D
	LEAR	12	0011	0011	0025	S27	E17	4171	05 13.3	14	SF		C		27		

68
May 83

H - ALPHA SOLAR FLARES

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			Dur (Min)	Imp Opt	Imp Xray	Obs See	Time (UT)	Area Measurement		Remarks
						Region	Mo	Day						(10 ⁻⁶ Disk)	Corr (Sq Deg)	
0235		11	2337*	2342*	2452	S10	W39	4173	05	9.0	75	1N M 1.0		188	2.4	EFJKU
	HOLL	11	2337	2342	2506	S09	W39	4173	05	9.0	89	SF	3	37		K
	HOLL	11	2337	2438	2506	S09	W39	4173	05	9.0	89	1B	3	380		FEK
	LEAR	11	2353	2425	2457	S10	W38	4173	05	9.1	64	SB	3	98		FK
	LEAR	11	2353	2438	2457	S10	W38	4173	05	9.1	64	1B	3	254		K
	PEKG	12	0007	0014	0021	S09	W39	4173	05	9.1	14	SN		97	1.3	E
	PEKG	12	0020	0030	0045D	S09	W39	4173	05	9.1	250	1N		202	2.7	EKU
	PEKG	12	0020	0038	0045D	S10	W39	4173	05	9.1	250	1N M 1.0		176	2.4	E
	CULG	12	0036	0040	0048	S12	W38	4173	05	9.2	12	1B		260	3.2	J
0236	PEKG	12	0010	0014	0022	N06	E80	4174	05	18.0	12	SF		17		E
0237		12	00201	00225	0039	S09	W27	4175	05	10.0	19	SN C 5.5		68	.6	DEFJ
	PEKG	12	0020	0022	0035	S08	W28	4175	05	9.9	15	SF C 5.5		46	.5	F
	HOLL	12	0020	0026	0045	S08	W28	4175	05	9.9	25	SN C 5.5	3	76		E
	LEAR	12	0021	0023	0045	S09	W27	4175	05	10.0	24	SB C 5.5	3	89		F
	VORO	12	0021	0024	0034	S09	W28	4175	05	9.9	13	SN		99	1.1	DJ
	CULG	12	0021	0027	0035	S10	W27	4175	05	10.0	14	SN		30	.5	
0238	LEAR	12	0028	0030	0036	S29	E10	4171	05	12.8	8	SF	3	27		
0239		12	00366	00402	0050	N08	E83	4174	05	18.2	14	SN		54		A
	PEKG	12	0036	0040	0050	N08	E88	4174	05	18.6	14	SB		84		A
	HOLL	12	0042	0042	0049	N07	E78	4174	05	17.9	7	SF	3	25		
0240		12	01464	01507	0207	S13	W37	4173	05	9.3	21	SN C 8.2		104	1.5	EJ
	VORO	12	0146	0155	0205	S13	W38	4173	05	9.2	19	1F		215	2.8	EJ
	CULG	12	0147	0155	0159D	S15	W36	4173	05	9.3	12D	SN	P	80	1.0	
	PEKG	12	0148	0150	0210	S11	W38	4173	05	9.2	22	SF C 8.2		59	.8	E
	LEAR	12	0150	0157	0205	S12	W36	4173	05	9.4	15	SN C 8.2	3	64		
0241	LEAR	12	0151	0154	0156	N08	E70	4174	05	17.3	5	SF	3	11		
0242		12	0219*	0225*	0316	S30	E15	4171	05	13.3	57	2B M 5.6		668	8.1	EFHJ
	LEAR	12	0219	0225	0236	S30	E14	4171	05	13.2	17	SF	3	118		
	LEAR	12	0237	0256	0346	S30	E15	4171	05	13.3	69	3B M 5.6	3	1174		EH
	MANI	12	0238	0251	0324	S30	E15	4171	05	13.3	46	2B	1	810	9.8	
	VORO	12	0253	0256	0314D	S30	E17	4171	05	13.4	21D	2B		735	8.6	EHJ
	PEKG	12	0254E	0256	0319	S31	E15	4171	05	13.3	250	2B M 5.6		505	6.0	F
0243	LEAR	12	0223	0246	0311	S11	E12	4172	05	13.0	48	SF	3	60		
0244		12	02232	02234	0227	S10	W40	4173	05	9.1	4	SF		48	.8	DJ
	LEAR	12	0223	0223	0229	S10	W41	4173	05	9.0	6	SF	3	25		
	VORO	12	0223	0224	0225	S11	W40	4173	05	9.1	2	SN		90	1.2	DJ
	MANI	12	0225	0227	0234D	S10	W40	4173	05	9.1	9D	SF	1	30	.4	
0245		12	0240*	02542	0320	S10	W40	4173	05	9.1	40	1B		160	2.2	DEFJ
	MANI	12	0240	0255	0327	S10	W39	4173	05	9.2	47	1B	1	170	2.3	
	LEAR	12	0241	0256	0328	S10	W39	4173	05	9.2	47	SB	3	154		F
	PEKG	12	0250	0254	0322	S10	W40	4173	05	9.1	32	SN		126	1.7	E
	VORO	12	0252	0254	0304	S12	W41	4173	05	9.0	12	1N		188	2.5	DJ
0246	LEAR	12	0346	0402	0415	N08	E75	4174	05	17.8	29	SF	3	23		
0247		12	0422*	04331	0440	S10	W42	4173	05	9.0	18	SN C 2.7		66	.9	E
	LEAR	12	0422	0433	0442	S11	W42	4173	05	9.0	20	SN C 2.7	3	65		
	PEKG	12	0432	0434	0437	S09	W42	4173	05	9.0	5	SN		67	.9	E
0248	CULG	12	0453	0456	0503	S05	E03	4172	05	12.4	10	SB		100	1.0	V
0249	PEKG	12	0454	0456	0500	N07	E77	4174	05	18.0	6	SF		17		D
0250	PEKG	12	0456E	0457	0504	S29	E10	4171	05	13.0	8D	SN C 6.4		160	1.8	E
0251		12	05492	05543	0609	S09	W30	4175	05	10.0	20	SN C 3.5		76	.9	E
	CULG	12	0549	0554	0603	S10	W31	4175	05	9.9	14	SN		70	.8	
	PEKG	12	0551	0554	0603	S09	W32	4175	05	9.8	12	SF C 3.5		84	1.0	E
	LEAR	12	0552E	0557	0558D	S09	W30	4175	05	10.0	6D	SB C 3.5	3	84		
	MANI	12	0559E	0559U	0621	S09	W29	4175	05	10.1	22D	SN	1	65	.8	

H - ALPHA SOLAR FLARES

69
May 83

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF Region		OMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks		
						Lat	Cmd								Apparent (10-6 Disk)	Corr (Sq Deg)			
0252	TACH	12	0602	0602	0615	S32	E15	4171	05	13.4	13	IB		C	0602	177	2.1	BD	
0253	BUCA	12	0630	0636	0655	S11	W42	4173	05	9.1	25	SF		C	0636	107	1.5	E	
0254	LEAR	12	0712	0713	0725	S09	W31	4175	05	10.0	13	SN	C 2.6	3	C		47		
0255		12	07221	0724	0727	S10	W42	4173	05	9.1	5	SF				50	.7	E	
	ISTA	12	0722		0725	S11	W41	4173	05	9.2	3	SF							
	PEKG	12	0723	0724	0729	S10	W44	4173	05	9.0	6	SF		C	0724	50	.7	E	
0256		12	08333	08362	0850	S10	W42	4173	05	9.2	17	SF	C 2.9			139	1.4	D	
	ISTA	12	0833		0839	S11	W40	4173	05	9.3	6	SF							
	PEKG	12	0833	0836	0846	S09	W43	4173	05	9.1	13	SF	C 2.9	P	0836	42	.6	D	
	WEND	12	0834	0838	0842	S10	W44	4173	05	9.0	8	SF		C	0838	38	.5		
	LEAR	12	0834E	0838	0902D	S10	W42	4173	05	9.2	28D	IN	C 2.9	3	C	245			
	MANI	12	0836	0838	0915	S10	W43	4173	05	9.1	39	IN		1	V	230	3.2		
0257		12	08561	08581	0904	S09	W33	4175	05	9.9	8	SF	C 2.6			46	.4		
	WEND	12	0856	0858	0904	S10	W34	4175	05	9.8	8	SF		C	0858	25	.3		
	YUNN	12	0856	0859	0905	S08	W33	4175	05	9.9	9	SF		P		31	.4		
	LEAR	12	0857	0859	0902D	S08	W32	4175	05	10.0	5D	SN	C 2.6	3	C	83			
0258	WEND	12	1049	1114	1143	S11	E09	4172	05	13.1	54	SF		C	1114	81	.9		
0259	WEND	12	1156	1203	1212D	S11	E09	4172	05	13.2	16D	SF		C	1203	63	.7		
0260	RAMY	12	1234	1238	1249	S10	W32	4175	05	10.1	15	SN	C 7.3	3	C		43		
0261		12	1235	1247	1258	N08	E68	4174	05	17.6	23	SN				61			
	RAMY	12	1235	1247	1258	N08	E69	4174	05	17.7	23	SF		3	C	72			
	HOLL	12	1238E	1238U	1250D	N09	E67	4174	05	17.5	12D	SN		3	C	50			
0262	RAMY	12	1325	1331	1334	S34	E05	4171	05	12.9	9	SF		3	C		22		
0263		12	1333*	1337*	1449	S11	W43	4173	05	9.3	76	SB	M 2.2			154	5.1	FFK	
	RAMY	12	1333	1337	1411	S12	W44	4173	05	9.2	38	SB	M 2.2	3	C	93			
	HOLL	12	1334E	1340	1515	S12	W44	4173	05	9.2	101D	IB	M 2.2	3	C	195		FEK	
	HOLL	12	1334E	1500	1515	S12	W44	4173	05	9.2	101D	SN		3	C	29		K	
	ATHN	12	1343E	1345	1400D	S10	W38	4173	05	9.7	17D	IB		2	V	1345	382	5.1	
	RAMY	12	1416	1419	1436	S11	W44	4173	05	9.3	20	SN		3	C	74			
0264		12	15281	15311	1534	S07	W42	4173	05	9.5	6	SB	C 2.5			60			
	RAMY	12	1528	1531	1534	S08	W42	4173	05	9.5	6	SN	C 2.5	3	C	59			
	HOLL	12	1529	1532	1535	S06	W42	4173	05	9.5	6	SB	C 2.5	3	C	61			
0265	HOLL	12	1611	1612	1628	S08	E05	4172	05	13.0	17	SF		3	C		38		F
0266		12	16191	16211	1631	S08	W44	4173	05	9.4	12	SN	C 3.4			70		F	
	HOLL	12	1619	1621	1634	S08	W44	4173	05	9.4	15	SN	C 3.4	3	C	70		F	
	RAMY	12	1620	1622	1628	S09	W45	4173	05	9.3	8	SN	C 3.4	3	C	70			
0267		12	16336	1640	1704	N09	E74	4174	05	18.2	31	SB				48			
	HOLL	12	1633	1640	1704	N09	E75	4174	05	18.3	31	SB		3	C	60			
	RAMY	12	1639	1640	1704	N09	E72	4174	05	18.1	25	SB		3	C	37			
0268	HOLL	12	1639	1641	1656	S10	E06	4172	05	13.1	17	SF		3	C		32		
0269		12	16531	1654	1700	S08	W39	4175	05	9.8	7	SN				24			
	HOLL	12	1653	1654	1657	S09	W40	4175	05	9.7	4	SN		3	C	26			
	HOLL	12	1654	1654	1704	S08	W38	4175	05	9.8	10	SN		3	C	23			
0270	HOLL	12	1712	1717	1721	N07	E70	4174	05	18.0	9	SF		3	C		21		
0271		12	1720*	1721*	1735	S10	W47	4173	05	9.2	15	SN	C 2.4			25		FH	
	PALE	12	1720	1722	1742	S09	W48	4173	05	9.1	22	SN		3	C	25		F	
	RAMY	12	1721	1721	1724	S10	W46	4173	05	9.3	3	SN	C 2.4	3	C	18			
	HOLL	12	1721	1721	1732	S09	W48	4173	05	9.1	11	SB	C 2.4	3	C	29		H	
	HOLL	12	1736	1737	1743	S11	W46	4173	05	9.3	7	SN		3	C	29		H	

70
May 83

H - ALPHA SOLAR FLARES

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF Region	OMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0272		12	17471	17471	1752	S08	W38	4175	05	9.9	5	SB					34		
	HOLL	12	1747	1747	1752D	S07	W38	4175	05	9.9	50	SB	3	C			47		
	RAMY	12	1748	1748	1752	S09	W39	4175	05	9.8	1	SN	3	C			20		
0273	HOLL	12	1938	1938	1954	S11	E06	4172	05	13.3	16	SF	C 1.8	3	C		29		
0274	HOLL	12	2028	2036	2117	S10	E03	4172	05	13.1	49	SN		3	C		134		F
0275		12	2040	2045	2114	S07	W42	4175	05	9.7	34	1N	C 3.5				176		FH
	HOLL	12	2040	2045	2102	S07	W40	4175	05	9.9	22	SN		3	C		50		
	HOLL	12	2040	2045	2125	S07	W45	4175	05	9.5	45	1N	C 3.5	3	C		301		FH
0276		12	21005	2100*	2110	S31	E04	4171	05	13.2	10	SF					48		F
	HOLL	12	2100	2100	2105	S31	E03	4171	05	13.1	5	SF		3	C		26		
	HOLL	12	2105	2110	2115	S31	E05	4171	05	13.3	10	SF		3	C		70		F
0277	HOLL	12	2141	2142	2146	S31	E02	4171	05	13.1	5	SN	C 1.2	3	C		23		
		12	2207		2215	No Flare Patrol													
0278	HOLL	12	2221	2222	2317	S29	E03	4171	05	13.2	56	SN	C 1.7	3	C		46		F
0279	HOLL	12	2226	2228	2240	S10	E02	4172	05	13.1	14	SF		3	C		37		F
0280		13	0009*	00266	0034	S09	W52	4173	05	9.1	25	SF					63	.4	DF
	HOLL	13	0009	0026	0032	S09	W51	4173	05	9.2	23	SN		3	C		57		F
	PEKG	13	0027	0032	0037	S09	W53	4173	05	9.0	10	SF			C	0032	25	.4	D
	LEAR	13	0028E	0029	0040D	S10	W51	4173	05	9.2	12D	SF		2	C		106		
0281		13	00104	0015	0026	S10	E00	4172	05	13.0	16	SF					55	.5	EF
	PEKG	13	0010	0015	0021	S11	E00	4172	05	13.0	11	SF			C	0015	46	.5	E
	PALE	13	0014	0015	0023	S11	W01	4172	05	12.9	9	SF		3	C		31		
	HOLL	13	0014	0015	0025	S10	E01	4172	05	13.1	11	SF		3	C		52		F
	LEAR	13	0014	0015	0034	S10	W00	4172	05	13.0	20	SF		3	C		91		
0282		13	0057	0100	0112	S29	E02	4171	05	13.2	15	SN					36	.5	F
	HOLL	13	0057	0100	0109	S29	E01	4171	05	13.1	12	SF		3	C		26		F
	YUNN	13	0057	0100	0116	S29	E07	4171	05	13.3	19	SN			C		47	.5	
0283		13	0141	0143	0145	S10	W43	4175	05	9.8	4	SF					31	.6	E
	PALE	13	0138E	0141U	0145	S11	W43	4175	05	9.8	7D	SF		3	C		20		
	PEKG	13	0141	0143	0145	S09	W43	4175	05	9.8	4	SF			C	0143	42	.6	E
0284	LEAR	13	0246	0250	0306	S09	E20	4176	05	14.6	20	SF	C 1.2	3	C		63		
0285	LEAR	13	0338	0340	0349	S08	E19	4176	05	14.6	11	SF		3	C		23		
0286	ABST	13	0406	0410	0420	S10	W56	4173	05	9.0	14	1F			C	0410	131	2.4	E
0287	ABST	13	0408	0410	0416	S30	W02	4171	05	13.0	8	SF			C	0410	131	1.4	E
0288	ABST	13	0447	0452	0505	S10	E20	4176	05	14.7	18	SF			C	0452	131	1.3	E
0289	ABST	13	0458	0500	0510	S10	E01	4172	05	13.3	12	SF			C	0500	131	1.3	E
0290		13	0552	0555	0602	S12	W54	4173	05	9.2	10	1N					127	2.3	EH
	ABST	13	0552	0555	0602	S10	W56	4173	05	9.0	10	1F			C	0555	174	3.4	EH
	CULG	13	0632E	0637U	0637D	S13	W51	4173	05	9.4	5U	SN			P	0637	80	1.2	
0291		13	0630	06307	0655	S09	W03	4172	05	13.0	25	SF					147	1.6	F
	CULG	13	0627E	0631U	0634D	S09	W01	4172	05	13.2	7D	SN			P	0631	160	1.6	F
	LEAR	13	0629E	0630	0700	S11	W03	4172	05	13.0	31D	SF		3	C		50		F
	KANZ	13	0629E	0631	0655	S10	W02	4172	05	13.1	26D	SN		3					
	ATHN	13	0629E	0632	0649	S07	W07	4172	05	12.7	20D	SF		3	V	0632	64	.7	
	BUCA	13	0630	0637	0705	S08	W02	4172	05	13.1	35	1F			C	0637	322	3.3	
	PEKG	13	0636E	0636	0646	S10	W03	4172	05	13.0	10D	SF			P	0636	92	.9	F
0292		13	06301	06364	0649	S08	W53	4173	05	9.3	19	SB	C 6.2				135	2.3	E
	ATHN	13	0629E	0640	0648	S07	W55	4173	05	9.1	19D	SB		3	V	0640	80	1.4	
	KANZ	13	0630	0636	0655	S08	W52	4173	05	9.4	25	1N			C	0636	215	3.6	
	BUCA	13	0631	0636	0646	S08	W52	4173	05	9.4	15	SN		3					
	LEAR	13	0631	0637	0647	S08	W53	4173	05	9.3	16	SB	C 6.2	3	C		128		
	PEKG	13	0636E	0636	0646D	S08	W53	4173	05	9.3	10D	SB	C 6.2		P	0636	118	2.0	E

H - ALPHA SOLAR FLARES

71
May 83

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP Mo	Day	Dur (Min)	Imp Opt	X-ray	See	Obs Type	Time (UT)	Area Measurement		Remarks	
																	(10 ⁻⁶ Disk)	Corr (Sq Deg)		
0293		13	07151	07182	0723	S12	W53	4173	05	9.3	8	SF	C	1.9			21			
	KANZ	13	0715	0718	0723	S13	W50	4173	05	9.5	8	SF			3					
	LEAR	13	0716	0720	0723	S11	W56	4173	05	9.1	7	SF	C	1.9	3	C		21		
0294		13	07443	07467	0759	S08	E18	4176	05	14.7	15	SN	C	2.2			74	.8	E	
	LEAR	13	0744	0747	0800	S08	E17	4176	05	14.6	160	SN	C	2.2	3	C		93		
	BUCA	13	0745	0750	0800	S07	E18	4176	05	14.7	15	SN				C	0750	107	1.2	E
	PEKG	13	0746E	0746	0756	S08	E17	4176	05	14.6	100	SF	C	2.2		P	0746	25	.3	E
	KANZ	13	0747	0747	0758	S07	E18	4176	05	14.7	11	SN			3					
	ATHN	13	0749E	0753	0803	S09	E17	4176	05	14.6	140	SF			3	V	0753	64	.7	
	CATA	13	0750E	0750	0755	S09	E18	4176	05	14.7	50	S				P	0750	84	1.0	
0295	LEAR	13	0847	0850	0901	S30	W02	4171	05	13.2	14	SF			3	C		29		
0296		13	0910E	0918	0923	S14	W51	4173	05	9.5	130	SF					29	.4	D	
	KHAR	13	0910E		0917	S14	W52	4173	05	9.4	70	SF				P	0910	50	.7	D
	HTPR	13	0918E		0926	S14	W50	4173	05	9.6	80	SF				C	0919	20	.3	
	PEKG	13	0918E	0918	0920	S13	W52	4173	05	9.5	20	SN				P	0918	17	.3	D
0297		13	10182	10244	1032	S09	W54	4173	05	9.4	14	SN	C	3.4			130	2.2	H	
	KHAR	13	0943E		0948	S10	W58	4173	05	9.0	50	SF				V	0943			
	WEND	13	1018	1024	1030	S08	W54	4173	05	9.4	12	IN	C	3.4		C	1024	131	2.3	
	KHAR	13	1020E	1024	1031	S09	W56	4173	05	9.2	110	SN				P	1028	110	1.9	H
	CATA	13	1020	1025	1025	S08	W55	4173	05	9.3	50	1				P	1025	281	5.0	
	HTPR	13	1022E		1029	S08	W53	4173	05	9.4	30	SB				C	1025	80	1.3	
	ATHN	13	1025E	1028	1035	S10	W48	4173	05	9.8	100	SB			3	V	1028	48	.7	
0298		13	10562	10595	1108	S11	W05	4172	05	13.1	12	SF					50	.5		
	HTPR	13	1056	1059	1109	S11	W03	4172	05	13.2	13	SF				C	1059	60	.6	
	HTPR	13	1058	1104	1108	S11	W07	4172	05	12.9	10	SF				C	1104	40	.4	
0299		13	11086	1110*	1135	S09	W50	4175	05	9.7	27	SN					70	1.2	E	
	WEND	13	1108	1110	1120	S07	W52	4175	05	9.6	140	SN				C	1110	106	1.8	
	HTPR	13	1110	1112	1131	S10	W52	4175	05	9.5	21	SN				C	1112	30	.5	E
	ATHN	13	1114	1117	1133	S10	W46	4175	05	10.0	19	SN			3	V	1117	32	.5	
	CATA	13	1115E	1120	1140	S08	W50	4175	05	9.7	250	S				P	1120	112	1.8	
0300	HTPR	13	1134	1138	1155	S30	W04	4171	05	13.2	21	SF				C	1138	60	.7	E
0301		13	12379	1244*	1310	S30	W04	4171	05	13.2	33	SN					39	.5	DE	
	HTPR	13	1237	1244	1316	S30	W05	4171	05	13.1	39	SN				C	1244	60	.7	E
	KAND	13	1246	1252	1304	S29	W03	4171	05	13.3	18	SF				C		27	.3	D
	HOLL	13	1246E	1254	1310	S31	W03	4171	05	13.3	240	SN			3	C		30		
0302		13	14201	14214	1501	S10	W59	4173	05	9.2	41	SN	C	4.8			51	.9	EF	
	RAMY	13	1420	1421	1627	S10	W59	4173	05	9.2	1270	SB	C	4.8	3	C		56		
	HOLL	13	1420	1425	1502	S09	W55	4173	05	9.5	42	SN	C	4.8	3	C		58		
	HTPR	13	1421	1424	1500	S10	W63	4173	05	8.9	39	SN				C	1424	40	.9	E
0303	HOLL	13	1448	1453	1459	N07	E57	4174	05	17.9	11	SF			3	C		19		
0304	HOLL	13	1724	1725	1742	S08	W51	4175	05	9.9	18	SF			3	C		30		
0305	HOLL	13	1810	1811	1816	S07	W58	4173	05	9.4	6	SF			3	C		27		
0306	HOLL	13	1840	1841	1852	S07	W53	4175	05	9.8	12	SF	C	1.3	3	C		26		
0307		13	1840	1844*	1933	S10	W60	4173	05	9.3	53	SN	C	2.1			48		FK	
	HOLL	13	1840	1844	1933	S10	W60	4173	05	9.3	53	SN			3	C		32		K
	HOLL	13	1840	1905	1933	S10	W60	4173	05	9.3	53	SN	C	2.1	3	C		64		FK
0308	HOLL	13	1941	1947	2005	S06	W54	4175	05	9.8	24	SF			3	C		34		
0309	HOLL	13	2040	2040	2057	N07	E52	4174	05	17.7	17	SF			3	C		29		
0310	HOLL	13	2139	2140	2147	S10	W11	4172	05	13.1	8	SF			3	C		23		
0311	HOLL	13	2224	2226	2234	S09	W62	4173	05	9.3	100	SF			3	C		33		

H - ALPHA SOLAR FLARES

MAY 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
																	(10 ⁻⁶ Disk)	Apparent Corr (Sq Deg)	
0312		13	23336	23401	2358	S07	W57	4175	05	9.7	25	SN	C 1.1				46	1.5	DJ
	HOLL	13	2333	2340	2407	S06	W56	4175	05	9.8	34	SN		3	C		31		
	VORO	13	2338	2341	2350	S08	W57	4175	05	9.7	12	SN			C	2341	81	1.5	DJ
	HOLL	13	2339	2340		S08	W58	4175	05	9.6		SN	C 1.1	3	C		26		
0313		13	2356	24053	2428	N12	E60	4182	05	18.5	32	2F					218	4.6	FJ
	VORO	13	2356	2405	2428	N12	E60	4182	05	18.5	32	2F			C	2405	305	6.7	J
	CULG	14	0002E	0008	0028	N12	E59	4182	05	18.4	260	1F			P	0008	130	2.6	F
0314	HOLL	14	0015	0030	0038	S11	W63	4173	05	9.3	23	SF		3	C		23		F
0315	LEAR	14	0236	0251	0301	S08	W59	4175	05	9.7	25	SF		3	C		67		F
0316	LEAR	14	0307	0309	0318	S12	W63	4173	05	9.4	11	SN		3	C		36		
0317		14	0347*	0408*	0453	S11	W68	4173	05	9.0	66	1N	C 4.7				128	3.5	EFK
	MANI	14	0347	0408	0519	S11	W70	4173	05	8.9	92	1N		1	V		158	3.5	F
	LEAR	14	0347	0417	0519	S11	W67	4173	05	9.1	92	1N	C 4.7	3	C		176		F
	PURP	14	0403E	0409	0432	S13	W68	4173	05	9.0	290	1N			C	0409	83		
	YUNN	14	0410E	0415	0430	S10	W63	4173	05	9.2	200	1N			P		94		
	ABST	14	0419	0424	0446	S11	W70	4173	05	8.9	27	1N			C	0424	131		EK
0318	ABST	14	0451	0454	0504	S06	W63	4175	05	9.5	13	1F			C	0454	87	2.8	D
0319		14	06287	0629*	0642	S12	W74	4173	05	8.7	14	SF	C 2.0				24	2.0	
	LEAR	14	0628	0629	0641	S10	W71	4173	05	8.9	13	SF	C 2.0	3	C		15		
	HTPR	14	0628	0631	0647	S11	W76	4173	05	8.5	19	SF			C	0631	10		
	LEAR	14	0633	0634	0640	S13	W75	4173	05	8.6	7	SF		3	C				
	MANI	14	0634	0634	0641	S13	W75	4173	05	8.6	7	SF		1	V				
	ATHN	14	0635	0639	0643	S12	W76	4173	05	8.5	8	SF		3	V	0639	48	2.0	
0320		14	0630*	0657*	0820	S27	W21	4171	05	12.6	110	1N					259	2.6	EFHW
	HTPR	14	0630		0719D	S25	W21	4171	05	12.6	490	SN			C	0704	80	.9	
	LEAR	14	0633	0703	0911	S24	W22	4171	05	12.6	158	1N		3	C		260		F
	MANI	14	0633	0704	0743	S24	W22	4171	05	12.6	70	1N		1	V		260	3.1	F
	BUCA	14	0640	0725U	0800	S29	W22	4171	05	12.5	80	1N			C	0725	322	3.9	E
	HTPR	14	0641		0719D	S31	W19	4171	05	12.8	380	SN			C	0704	60	.7	
	PURP	14	0642	0650U	0714D	S26	W20	4171	05	12.7	320	SN			C	0650	103	1.2	
	CATA	14	0645	0725	0810D	S31	W19	4171	05	12.8	850	1			P	0725	225	2.8	
	CATA	14	0645	0725	0810D	S25	W23	4171	05	12.5	850	1			P	0725	337	4.1	
	ATHN	14	0651	0708	0844	S27	W20	4171	05	12.7	113	SN		3	V	0708	64	.8	
	ABST	14	0652	0657	0703D	S26	W23	4171	05	12.5	110	1N			P	0657	174	2.1	E
	MANI	14	0653	0707	0745	S27	W20	4171	05	12.7	52	1N		1	V		220	2.7	
	YUNN	14	0653	0720	0813	S26	W21	4171	05	12.6	80	2B			P		550	6.6	FW
	KANZ	14	0654E	0724	0816	S28	W21	4171	05	12.6	820	1N		3					
	HTPR	14	0703		0719D	S30	W24	4171	05	12.4	160	SN			C	0719	40	.5	
	MITK	14	0716E	0722	0729	S28	W20	4171	05	12.7	130	2N			C	0722	680	8.3	F
	HTPR	14	0724E		0738D	S30	W23	4171	05	12.5	140	SN			C	0734	40	.5	
	HTPR	14	0724E		0738D	S25	W21	4171	05	12.7	140	SN			C	0734	100	1.1	
	HTPR	14	0724E		0738D	S31	W19	4171	05	12.8	140	SN			C	0738	80	.9	
	MONT	14	0743E	0748	0838	S29	W20	4171	05	12.7	550	2B			C	0748	900		H
	KANZ	14	0754	0857	0925	S25	W23	4171	05	12.5	91	SF		3					
	KHAR	14	0801E	0802	0851D	S27	W22	4171	05	12.6	500	1F			P	0802	420	4.6	EH
0321		14	07249	07332	0745	S12	W71	4173	05	8.9	21	SB	M 1.8				106	3.6	DEF
	KANZ	14	0724	0735	0740	S12	W70	4173	05	9.0	16	SN		3					
	MANI	14	0725	0733	0751	S11	W70	4173	05	9.0	26	1B		1	V		142	3.1	
	LEAR	14	0725	0735	0752	S11	W70	4173	05	9.0	27	SB	M 1.8	3	C		107		F
	HTPR	14	0728		0738D	S12	W77	4173	05	8.5	100	SN			C	0735	60		E
	ISTA	14	0730E		0738	S13	W68	4173	05	9.2	80	SN							D
	YUNN	14	0730	0734	0743	S12	W73	4173	05	9.8	13	1B			P		79		
	ATHN	14	0730	0734	0748	S10	W68	4173	05	9.2	18	1B		3	V	0734	159	4.2	
	BUCA	14	0733	0734	0746	S12	W70	4173	05	9.0	13	SN			C	0734	86		E
0322		14	08352	0837*	0911	S11	W72	4173	05	8.9	36	SN	C 5.0				48		E
	LEAR	14	0835	0837	0907	S10	W71	4173	05	9.0	32	SN	C 5.0	3	C		27		
	KHAR	14	0836E	0841	0857D	S10	W73	4173	05	8.9	210	SN			P	0837			E
	MONT	14	0836	0905	0920	S12	W70	4173	05	9.1	44	SN			C	0905	70		E
	KANZ	14	0837	0837	0907	S11	W72	4173	05	8.9	30	SN		3					

H - ALPHA SOLAR FLARES

73
May 83

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Area Measurement		Remarks				
								USAF						Region	Mo		Day	(Min)	Opt	Xray
0323	CATA	14	0956	0950	1008	S10	W64	4173	05	9.6	12	SN			56	1.3	D			
		14	0945E	0950	1010	S10	W64	4173	05	9.6	250	S	P	0950	84	2.0				
	KHAR	14	0955E	0957	10030	S09	W64	4173	05	9.6	80	SN	P	0957			D			
	WEND	14	0956	0958	1006	S11	W64	4173	05	9.6	10	SN	C	0958	38	.9				
	YUNN	14	1001E	1001U	10050	S11	W65	4173	05	9.5	40	SN	P	1001	46	1.1	D			
0324		14	1044	1046	1048	S12	W71	4173	05	9.1	4	SN			31		D			
	WEND	14	1044	1046	1048	S11	W70	4173	05	9.2	4	SF	C	1046	31					
	KHAR	14	1046E	1046	10520	S12	W72	4173	05	9.0	60	SN	P				D			
0325	HOLL	14	1413	1414	1420	S10	W70	4173	05	9.3	7	SN C	3.2	3	C		38			
0326		14	1439	1439	1500	S10	W22	4172	05	12.9	21	SF				38		F		
	KANZ	14	1439	1439	1449	S10	W22	4172	05	12.9	10	SF		3				F		
	HOLL	14	1439	1440	1511	S10	W21	4172	05	13.0	32	SF		3	C		38		F	
0327	HOLL	14	1515	1532	1535	S10	W72	4173	05	9.2	20	SF		3	C		19		F	
0328	HOLL	14	1535	1620	1655	S11	W68	4173	05	9.5	80	SN C	5.1	3	C		78		F	
0329	HOLL	14	1606	1607	1609	S11	W24	4172	05	12.9	3	SF		3	C		27			
0330	HOLL	14	1613	1615	1644	S10	W18	4171	05	13.3	31	SF		3	C		122		F	
0331	HOLL	14	1615	1617	1627	N08	E45	4174	05	18.0	12	SF		3	C		25			
0332	HOLL	14	1620	1620	1630	S10	W24	4172	05	12.9	10	SN		3	C		39		F	
0333		14	1635	1635*	1659	S11	W25	4172	05	12.8	24	SF				44		XS		
	HOLL	14	1635	1635	1659	S11	W25	4172	05	12.8	24	SF		3	C		33		K	
	HOLL	14	1635	1648	1659	S11	W25	4172	05	12.8	24	SF		3	C		56		SK	
0334	PALE	14	1707	1708	1718	S08	W66	4175	05	9.8	11	SF		3	C		20			
0335		14	1806	1807	1817	S12	W72	4173	05	9.3	11	SB C	2.2			58				
	HOLL	14	1806	1807	1818	S11	W72	4173	05	9.3	12	SB C	2.2	3	C		63			
	PALE	14	1806	1808	1816	S14	W72	4173	05	9.3	10	SB		3	C		53			
0336		14	1917	1923*	1953	S11	W25	4172	05	12.9	36	SN C	2.4			91		FK		
	PALE	14	1917	1923	1944	S12	W25	4172	05	12.9	27	SN C	2.4	3	C		98		F	
	HOLL	14	1921	1923	1957	S11	W25	4172	05	12.9	36	SN C	2.4	3	C		106		FK	
	HOLL	14	1921	1944	1957	S11	W25	4172	05	12.9	36	SN		3	C		70		K	
		14	2139		2144	No Flare Patrol														
0337		15	0018	0018	0036	S26	E80	4179	05	21.2	18	SF C	1.5			134		AEFY		
	MANI	15	0018	0018	0030	S26	E78	4179	05	21.1	12	SF		1	V			F		
	LEAR	15	0019E	0019U	0029	S26	E78	4179	05	21.1	100	SF C	1.5	3	C			F		
	PEKG	15	0020E	0024	0040	S26	E84	4179	05	21.5	200	SN C	1.5		P	0024	134		EY	
	YUNN	15	0030E	0030U	0045	S24	E79	4179	05	21.1	150				P	0033			A	
0338	LEAR	15	0212	0212	0226	N10	E38	4174	05	17.9	14	SF		3	C		37			
0339		15	02173	02201	0234	S10	W30	4172	05	12.8	17	IN				170		3.7		
	YUNN	15	0217	0221	0237	S10	W31	4172	05	12.8	20	IN			C	308		3.7		
	LEAR	15	0220	0220	0231	S10	W30	4172	05	12.8	11	SF		3	C		33			
0340	YUNN	15	0237	0240	0254	N08	E41	4174	05	18.2	17	SN			C		31		.4	D
0341		15	03258	03351	0346	S10	W30	4172	05	12.9	21	SN C	2.1			150		2.1	EF	
	YUNN	15	0325	0335	0343	S08	W30	4172	05	12.9	18	IN			C	308		3.7	E	
	CULG	15	0328E	0333U	03330	S11	W31	4172	05	12.9	50	SN			P	0333	120		1.4	
	LEAR	15	0329	0336	0351	S11	W30	4172	05	12.9	22	SN C	2.1	3	C		73			F
	PEKG	15	0333	0336	0343	S10	W31	4172	05	12.8	10	SN C	2.1		C	0336	101		1.2	E
0342		15	0615*	0641*	0711	S11	W80	4173	05	9.2	56	SN M	2.0			63			EF	
	LEAR	15	0615	0641	0716	S12	W81	4173	05	9.1	61	SN M	2.0	3	C				F	
	KANZ	15	0638	0648	0717	S11	W83	4173	05	9.0	39	SN		3						
	MANI	15	0642	0642	0703	S10	W79	4173	05	9.3	21	IB		1	V					
	CATA	15	0645	0645	0720	S11	W78	4173	05	9.4	35	1			C	0645	84			
	PEKG	15	0647	0652	0659	S11	W82	4173	05	9.1	12	SF			C	0652	42			E

74
May 83

H - ALPHA SOLAR FLARES

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Area Measurement		Remarks		
								USAF Region						Mo	Day		(Min)	Opt
0343		15	06483	06494	0709	S11	W31	4172	05	12.9	21	SF			42	.5	F	
	KANZ	15	0648	0653	0712	S11	W32	4172	05	12.9	24	SF	3					
	MANI	15	0649	0649	0708	S11	W29	4172	05	13.1	19	SN	1	V		45	.5	F
	LEAR	15	0651	0652	0707	S11	W33	4172	05	12.8	16	SF	3	C		40		
0344	KANZ	15	0742	0742	0751	S28	E81	4179	05	21.6	9	SN	3					
0345		15	07483	07492	0810	S10	W33	4172	05	12.8	22	SF			45		F	
	LEAR	15	0748	0749	0809	S10	W33	4172	05	12.8	21	SF	3	C	45		F	
	KANZ	15	0751	0751	0811	S10	W33	4172	05	12.8	20	SF	3					
0346		15	0939*	0845*	0922	S12	W82	4173	05	9.2	43	1B X 2.3			210		ACEFHJK	
	LEAR	15	0839	0845	0909D	S11	W81	4173	05	9.3	30D 2B X 2.3	2	C				F	
	ISTA	15	0840E		0850	S13	W75	4173	05	9.7	10D 1B						EJ	
	ATHN	15	0840	0845	0938	S10	W78	4173	05	9.5	58 2B	3	V	0845	302		ACK	
	KANZ	15	0841		0946	S11	W85	4173	05	9.0	65 1N	3					E	
	PEKG	15	0845E	0850	0856	S10	W80	4173	05	9.3	11D SB X 2.3		P	0850	126			
	CATA	15	0845	0900	0945	S12	W80	4173	05	9.3	50 2		C	0900	281			
	KHAR	15	0850E	0851	0945D	S10	W83	4173	05	9.1	55D 1N		P	0855	130		H	
	LEAR	15	0852	0900	0902	S16	W91	4173	05	8.5	10 SF	3	C					
	ISTA	15	0911		0940	S13	W90	4173	05	8.6	29 1B						EJ	
0347	KANZ	15	0935	0939	0955	N10	E42	4182	05	18.5	20	SF	3					
0348		15	1553	15571	1606	S12	W80	4173	05	9.6	13	SN C 1.8			48		F	
	HOLL	15	1553	1557	1604	S11	W81	4173	05	9.6	11	SN C 1.8	3	C	48		F	
	KANZ	15	1553	1558	1607	S12	W80	4173	05	9.6	14	SN	3					
0349	HOLL	15	1608	1612	1622	S12	W80	4173	05	9.6	14	1N C 3.3	3	C	108		F	
0350	HOLL	15	1743	1753	1805	S12	W80	4173	05	9.7	22	SF C 2.0	3	C	19			
0351	PALE	15	1933	1933	1947	S11	W40	4172	05	12.8	14	SF	3	C	26			
0352	HOLL	15	2224	2225	2242	S10	W82	4173	05	9.8	18	SF C 2.0	3	C	30			
0353		15	22531	22551	2304	S10	W18	4176	05	14.6	11	SN C 1.9			64	.8	F	
	CULG	15	2253	2255	2303	S11	W18	4176	05	14.6	10	SF	C	2255	80	.8		
	HOLL	15	2254	2256	2304	S09	W17	4176	05	14.7	10	SN C 1.9	3	C	48		F	
0354	PEKG	15	2350	2355	2401	S09	W17	4176	05	14.7	11	SF		P	2355	34	.4	E
0355		16	0020*	0056*	0124	S11	W90	4173	05	9.2	64	SF			109		ADH	
	PEKG	16	0020	0110	0130	S06	W90	4173	05	9.3	70	SN		C	0110	84		A
	VORO	16	0054	0056	0110	S14	W90	4173	05	9.2	16	SF		C	0056	134		DH
	LEAR	16	0111	0122	0132	S12	W90	4173	05	9.3	21	SF	3	C				
0356		16	08023	08032	0811	S30	W40	4171	05	13.2	9	SF			42	.7		
	WEND	16	0802	0805	0811	S30	W40	4171	05	13.2	9	SF		C	0805	38	.6	
	LEAR	16	0803	0803	0812	S30	W39	4171	05	13.3	9	SF	3	C	33			
	CATA	16	0805	0805	0810	S31	W40	4171	05	13.2	5	S		C	0805	56	.8	
0357		16	0822	0823	0842	S10	W48	4172	05	12.7	20	SF			44	.9	E	
	KHAR	16	0818E		0842D	S11	W47	4172	05	12.8	24D	SF		P	0832	60	.9	E
	LEAR	16	0822	0823	0842	S10	W48	4172	05	12.7	20	SF	3	C	29			
0358	KHAR	16	0931E		0941D	S11	W47	4172	05	12.9	10D	SF		P			E	
0359	KHAR	16	0944E		0957D	S34	W42	4171	05	13.0	13D	SF		P	0947	30	.5	
0360	KHAR	16	0957E		1200D	S20	E64	4179	05	21.4	123D	SF		P			D	
0361	KHAR	16	1141E	1144	1151D	S30	W42	4171	05	13.2	10D	SF		P	1144	50	.8	E
0362		16	1405	1405	1415	S10	W90	4173	05	9.8	10	SN M 1.3						
	KANZ	16	1405	1405	1409	S12	W90	4173	05	9.8	4	SF	3					
	HOLL	16	1405E	1405U	1421	S09	W90	4173	05	9.8	16D	SB M 1.3	3	C				

H - ALPHA SOLAR FLARES

75
May 83

MAY 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 ⁻⁶ Disk)	Apparent (Sq Deg)	
0363	HOLL	16	1536	1539	1617	S32	W53	4171	05	12.4	41	SN	C 2.1	3	C		69		
0364		16	1629	1633*	1833	S29	W54	4171	05	12.4	124	SN	C 5.7				108		FKU
	HOLL	16	1629	1633	1833	S29	W54	4171	05	12.4	124	SN	C 5.7	3	C		123		UFK
	HOLL	16	1629	1719	1833	S29	W54	4171	05	12.4	124	SF		3	C		92		K
0365	HOLL	16	1708	1710	1717	S10	W27	4176	05	14.7	9	SF		3	C		37		
0366	HOLL	16	2154	2156	2215	S07	W31	4176	05	14.6	21	SF		3	C		36		F
0367	HOLL	16	2156	2158	2214	S28	W48	4171	05	13.2	18	SF		3	C		44		
0368		16	22461	22501	2302	S26	E50	4179	05	20.8	16	1B	C 1.3				189	2.4	E
	HOLL	16	2246	2251	2304	S27	E50	4179	05	20.8	18	1B	C 1.3	3	C		228		E
	CULG	16	2247	2250	2301	S24	E51	4179	05	20.9	14	1N			C	2250	150	2.4	
0369		17	05203	05235	0540	S10	W34	4176	05	14.7	20	SF	C 1.0				36	.4	
	LEAR	17	0520	0523	0545	S09	W35	4176	05	14.6	25	SF	C 1.0	3	C		33		
	CULG	17	0523	0528	0536	S10	W33	4176	05	14.7	13	SF			C	0528	40	.4	
0370	LEAR	17	0536	0547	0549	S10	W57	4172	05	12.9	13	SF		3	C		42		
0371		17	1214	1235	1245	S11	W64	4172	05	12.7	31	SF					38		
	KHAR	17	1201E		1205D	S10	W66	4172	05	12.5	4D	SF			P				
	RAMY	17	1214	1235	1245	S12	W61	4172	05	12.9	31	SF		3	C		38		
0372		17	1623	1627	1632	N16	E82	4183	05	23.9	9	SF					20		
	HOLL	17	1623	1627	1632	N15	E86	4183	05	24.2	9	SF		3	C		13		
	RAMY	17	1623	1627	1633	N18	E77	4183	05	23.5	10	SF		3	C		26		
0373		17	1636	16371	1644	S24	E44	4188A	05	21.1	8	SN					84		
	HOLL	17	1636	1637	1644	S25	E44	4188A	05	21.1	8	SN		3	C		76		
	RAMY	17	1636	1638	1644	S23	E43	4188A	05	21.0	8	SN		3	C		92		
0374		17	1729	17311	1741	N16	E82	4183A	05	23.9	12	SN					42		
	HOLL	17	1729	1731	1742	N15	E85	4183A	05	24.2	13	SN		3	C		40		
	RAMY	17	1729	1732	1740	N16	E79	4183A	05	23.7	11	SN		3	C		45		
0375	PALE	17	1817	1820	1822	S13	W65	4172	05	12.8	5	SF		3	C		19		
0376	HOLL	17	1903	1907	1915	N16	E82	4183A	05	24.0	12	SF		3	C		20		F
0377	HOLL	17	2115	2124	2128	N15	E76	4183	05	23.6	13	SF		3	C		36		F
0378		18	02062	02083	0218	S28	W61	4171	05	13.3	12	SF					33	.8	F
	CULG	18	0206	0208	0218	S30	W59	4171	05	13.4	12	SF			C	0208	40	.8	F
	LEAR	18	0208	0211	0217	S28	W62	4171	05	13.2	9	SF		3	C		28		F
	YUNN	18	0211E	0211U	0220	S26	W62	4171	05	13.3	9D	SN			P	0211	31	.7	
0379	PEKG	18	0300	0307	0320D	N16	E78	4183A	05	24.0	20D	SN			C	0307	147		AF
0380		18	0405	0420*	0525	N16	E76	4183A	05	23.9	80	SN					84		EK
	PEKG	18	0405	0420	0525	N16	E76	4183A	05	23.9	80	SN			C	0420	84		EK
	PEKG	18	0405	0459	0525	N16	E76	4183A	05	23.9	80	SN			C	0459	84		E
0381	PEKG	18	0453	0459	0507	S11	W48	4176	05	14.6	14	SF			C	0459	63	1.0	E
0382		18	05371	0544	0550	N16	E70	4183	05	23.5	13	1N	C 2.2				97		E
	PEKG	18	0537	0544	0550	N15	E72	4183	05	23.7	13	SN	C 2.2		C	0544	84		E
	CULG	18	0538	0544	0551	N18	E67	4183	05	23.3	13	1N			C	0544	110		
0383		18	0732*	0732*	0809	N18	E72	4183A	05	23.8	37	SF					50		E
	LEAR	18	0732	0732	0738	N17	E70	4183A	05	23.6	6	SF		3	C		44		
	KANZ	18	0733	0754	0812	N19	E75	4183A	05	24.0	39	SN		3					
	CATA	18	0745	0750	0800	N17	E73	4183A	05	23.9	15	S			C	0750	56		
	PEKG	18	0753	0758	0810	N17	E72	4183A	05	23.8	17	SN			C	0758	67		E
	LEAR	18	0754	0756	0806	N18	E70	4183A	05	23.6	12	SF		3	C		30		
	PEKG	18	0805	0822	0850	N17	E74	4183A	05	24.0	45	SF			C	0822	55		E

76
May 83

H - ALPHA SOLAR FLARES

MAY 1983

Grp #	Sta	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 ⁻⁶ Disk)	Corr (Sq Deg)	
0384	HTPR	18	0833	0833	0850	S26	E26	4179	05 20.4	17	SF			20	.2	EG
	HTPR	18	0833	0837	0855	S26	E26	4179	05 20.4	22	SF		0837	20	.2	E
	KANZ	18	0835	0835	0845	S27	E26	4179	05 20.4	10	SF	3				G
0385		18	0835*	09146	0931	N18	E68	4183	05 23.5	56	1N			110		HKL
	KANZ	18	0835	0920	1158D	N19	E68	4183	05 23.5	203D	2N	1				KH
	MONT	18	0902	0914	0931	N16	E67	4183	05 23.4	29	SN		0914	110		L
0386	HTPR	18	0923	0929	0943	S05	W27	4177	05 16.4	20	SF		0929	40	.4	
0387	HTPR	18	1023	1051	1058	N18	E69	4183	05 23.7	35	SN		1051	40	.9	
0388	KMAR	18	1039E	1041	1053D	N34	E74		05 24.3	14D	SF		1041			D
0389	RAMY	18	1059	1126	1127D	N15	E63	4183	05 23.2	28D	1N	3		160		
0390	ATHN	18	1153E	1153	1214	N17	E71	4183A	05 23.9	21D	1N	2	1153	111	3.4	
0391	HTPR	18	1219	1239	1252	N18	E68	4183	05 23.7	33	SN		1239	40	.9	
0392		18	1304*	1321*	1401	N18	E68	4183	05 23.7	57	1N C 1.4			134	1.3	BEFKL
	HOLL	18	1304	1321	1422	N17	E68	4183	05 23.7	78	1N	3		223		K
	HOLL	18	1304	1355	1422	N17	E68	4183	05 23.7	78	1B C 1.4	3		151		K
	HTPR	18	1305		1309D	N18	E68	4183	05 23.7	4D	SF		1309	20	.4	
	MONT	18	1311	1322	1332	N19	E70	4183	05 23.9	21	1B		1322	250		L
	RAMY	18	1312	1321	1333	N19	E69	4183	05 23.8	21	SN C 5.5	3		120		F
	KANZ	18	1320E		1320D	N19	E70	4183	05 23.9	21D	SB	3				
	HTPR	18	1326E		1329D	N18	E68	4183	05 23.7	3D	1N		1326	100	2.2	BE
RAMY	18	1353	1355	1418	N19	E66	4183	05 23.6	25	SN C 2.8	3		77			
0393	HOLL	18	1311	1316	1333	S27	E47	4181	05 22.2	22	SF	3		27		
0394		13	1427*	1428*	1519	N17	E68	4183	05 23.8	52	SN C 2.6			78		K
	HOLL	18	1427	1428	1435	N17	E70	4183	05 23.9	8	SF	3		33		
	HOLL	18	1437	1448	1457	N17	E69	4183	05 23.8	20	SB C 2.6	3		86		
	RAMY	18	1441	1448	1536	N18	E66	4183	05 23.6	55	SB C 2.6	3		119		K
	RAMY	18	1441	1532	1536	N18	E66	4183	05 23.6	55	SN C 2.3	3		47		K
	HOLL	18	1524	1533	1550	N16	E69	4183	05 23.9	26	SF C 2.3	3		108		
0395		18	1618*	1622*	1722	N16	E65	4183	05 23.6	64	SN C 1.7			72		EFK
	RAMY	18	1618	1622	1659	N17	E64	4183	05 23.5	41	SF	3		44		K
	RAMY	18	1618	1552	1659	N17	E64	4183	05 23.5	41	SN C 1.7	3		100		K
	HOLL	18	1621	1653	1659	N17	E69	4183	05 23.9	38	SN C 1.7	3		88		
	PALE	18	1700	1719	1730D	N19	E66	4183	05 23.7	30D	SB C 2.9	3		88		
	RAMY	18	1707	1718	1736	N16	E65	4183	05 23.6	29	SN C 2.9	3		84		F
	HOLL	18	1710	1719	1743	N14	E67	4183	05 23.8	33	SB C 2.9	3		76		E
	RAMY	18	1738	1739	1753	N13	E59	4183	05 23.2	15	SF	3		23		
0396	RAMY	18	1801	1804	1816	N17	E65	4183	05 23.7	15	SF	3		26		
0397		18	1809	1810	1824	S25	E44	4181	05 22.2	15	SN			47		F
	HOLL	18	1809	1810	182D	S26	E45	4181	05 22.2	11	SN	3		43		
	RAMY	18	1809	1810	1828	S24	E44	4181	05 22.1	19	SN	3		51		F
0398		18	1826*	1829*	1848	N16	E65	4183	05 23.7	22	SN C 3.0			71		FK
	RAMY	18	1826	1829	1935D	N16	E65	4183	05 23.7	69D	SN	3		72		K
	RAMY	18	1826	1851	1935D	N16	E65	4183	05 23.7	69D	SN C 3.0	3		124		K
	HOLL	18	1827	1829	1836	N14	E65	4183	05 23.7	9	SN	3		38		
	HOLL	18	1845	1854	1859	N17	E66	4183	05 23.8	14	SN C 3.0	3		49		F
0399	HOLL	18	1942	1945	1951	N16	E67	4183	05 23.9	9	SN	3		33		F
0400	HOLL	18	2248	2248	2258	S25	E25	4179	05 20.9	10	SN	3		26		
0401	LEAR	19	0029	0116	0140	N17	E64	4183	05 23.9	71	SF	3		54		
0402	LEAR	19	0153	0155	0249	N15	E55	4183	05 23.2	56	SF	3		81		F

H - ALPHA SOLAR FLARES

77
May 83

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP No	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Area Measurement			Remarks
																Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0403	YUNN	19	0251E	0251U	0251D	S09	W59	4176	05	14.7	56D	SN			P	0251	31	.6	
0404	ABST	19	0457	0501	0509	S08	W63	4176	05	14.5	12	SF			C	0501	87		D
0405		19	0544I	0546Z	0552	S24	E22	4188A	05	20.9	8	SF					60	1.1	DM
	ABST	19	0544	0546	0552	S23	E23	4188A	05	21.0	8	SF			C	0546	96	1.1	D
	LEAR	19	0545	0548	0553	S25	E21	4188A	05	20.9	8	SF		3	C		25		H
0406	HTPR	19	0555E		0645	S25	E37	4181	05	22.1	50D	SF			C	0634	20	.3	E
0407		19	0754I	0755A	0810	S08	W64	4176	05	14.5	16	1F	C 1.3				96	4.0	
	LEAR	19	0754	0759	0811	S07	W64	4176	05	14.5	17	SF	C 1.3	3	C		24		
	CATA	19	0755	0755	0810	S09	W64	4176	05	14.5	15	1			C	0755	169	4.0	
0408	KHAR	19	0821E	0822	0826D	S22	W61	4184	05	14.6	5D	SF			V	0822			H
0409	KHAR	19	0840E	0841	0854D	N02	E90		05	26.1	14D	SF			P	0841			D
		19	0932		0935	No Flare Patrol													
0410	HTPR	19	0936E		0945	N18	E54	4183	05	23.5	9D	SF			C	0940	30	.5	EH
0411	HTPR	19	1002	1016	1019	N16	E53	4183	05	23.4	17	SF			C	1016	30	.5	E
0412		19	1014	1017	1033	S26	E34	4181	05	22.1	19	SB					70	.9	E
	HTPR	19	1014	1017	1033	S25	E34	4181	05	22.1	19	SB			C	1017	40	.5	E
	KHAR	19	1020E		1028D	S26	E35	4181	05	22.1	8D	SN			P	1025	100	1.3	
0413		19	10556	1109*	1136	N17	E56	4183	05	23.7	41	SN	C 1.8				108	.6	EK
	RAMY	19	1055	1109	1136	N17	E57	4183	05	23.8	41	1N	C 1.8	3	C		150		Y
	RAMY	19	1055	1112	1136	N17	E57	4183	05	23.8	41	SN	C 1.8	3	C		133		K
	HTPR	19	1101	1130	1135	N16	E53	4183	05	23.5	34	SN			C	1130	40	.6	E
0414	KHAR	19	1125E	1127	1138D	N27	W49		05	15.6	13D	SF			V	1127			H
0415	RAMY	19	1144	1147	1241	N17	E57	4183	05	23.8	57	SN		3	C		79		
0416	RAMY	19	1247	1259	1302	N16	E53	4183	05	23.5	15	SF		3	C		85		
0417	RAMY	19	1307	1318	1337	N16	E59	4183	05	24.0	30	SN		3	C		90		
0418		19	15573	15591	1606	S25	E32	4181	05	22.1	9	SF					38	.3	
	HTPR	19	1557	1559	1606	S25	E32	4181	05	22.1	9	SF			C	1559	30	.3	
	HOLL	19	1559	1600	1607	S26	E32	4181	05	22.1	8	SN		3	C		45		
	KANZ	19	1600	1600	1606	S25	E33	4181	05	22.2	6	SF		3					
0419		19	16285	1633Z	1638	N18	E54	4183	05	23.8	10	SN					56	.8	E
	HTPR	19	1628	1633	1637	N18	E51	4183	05	23.6	9	SN			C	1633	50	.8	E
	HOLL	19	1633	1635	1639	N17	E56	4183	05	23.9	6	SN		3	C		61		
0420	RAMY	19	1849	1905	1926D	N15	E56	4183	05	24.0	37D	SN	C 1.3	3	C		28		F
0421		19	2054*	2101	2121	N17	E54	4183	05	24.0	27	SF	C 2.2				28		
	HOLL	19	2054	2101	2107	N17	E55	4183	05	24.0	13	SF		3	C		38		
	HOLL	19	2110	2110u	2135	N17	E54	4183	05	24.0	25	SF	C 2.2	2	C		18		
0422	HOLL	19	2139	2141	2153	N17	E52	4183	05	23.8	14	SN	C 2.4	2	C		134		F
0423		19	2317	2323*		N15	E54	4183	05	24.0		SN					29		FK
	HOLL	19	2317	2323		N15	E54	4183	05	24.0		SF		3	C		29		K
	HOLL	19	2317	2341		N15	E54	4183	05	24.0		SN		3	C		29		FK
0424		20	0024*	0037*	0107	N18	E51	4183	05	23.9	43	SB	C 4.5				97	1.4	DEF
	YUNN	20	0024	0037	0044	N18	E50	4183	05	23.8	20	SN			C		38	.7	D
	MANI	20	0024	0041	0051D	N17	E51	4183	05	23.9	27D	SB		1	V		47	.8	
	HOLL	20	0024	0047	0119	N17	E51	4183	05	23.9	55	SB	C 4.5	2	C		146		F
	PURP	20	0027	0103	0106D	N17	E53	4183	05	24.0	30	SB			P	0103	55	1.0	E
	MANI	20	0029	0043	0051D	N18	E49	4183	05	23.7	22D	SB		1	V		85	1.4	
	LEAR	20	0029	0047	0118	N19	E51	4183	05	23.9	49	SB	C 4.5	3	C		124		FE
	YUNN	20	0035	0047	0108	N18	E52	4183	05	24.0	33	1N			C		185	3.3	

78
May 83

H - ALPHA SOLAR FLARES

MAY 1983

Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Ont	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
															(10 ⁻⁶ Disk)	(Sq Deg)	
0425	YUNN	20 0110	0114	0124	S20	W65	4184	05 15.1	14	1N			P		123		
0426		20 0140	01402	0155	N18	E54	4183	05 24.2	15	SB					50	1.4	D
	LEAR	20 0140	0140	0155	N19	E54	4183	05 24.2	15	SN		3	C		23		
	PURP	20 0140	0142	0211D	N17	E55	4183	05 24.2	31D	SB			C	0142	76	1.4	D
0427	ABST	20 0404	0405	0407	N07	E43	4190A	05 23.4	3	SF			C	0405	87	1.3	DJV
0428		20 0407*	0411*	0432	N16	E48	4183	05 23.8	25	SF					86	1.8	DEJV
	ABST	20 0407	0411	0420	N16	E52	4183	05 24.1	13	1F			C	0411	131	2.3	EJ
	ABST	20 0427	0428	0430	N15	E45	4183	05 23.6	3	SF			C	0428	87	1.3	DJV
	LEAR	20 0432	0437	0447	N17	E46	4183	05 23.7	15	SF		3	C		39		
0429	ABST	20 0501	0503	0512	N15	E54	4183	05 24.3	11	1F			P	0503	131	2.4	DJ
0430		20 05139	0515*	0541	S20	E79	4185	05 26.2	28	1N	C 4.7				134		AGH
	TACH	20 0513	0515	0535	S20	E80	4185	05 26.3	22	2N			C	0515	221		A
	LEAR	20 0522	0527	0544	S20	E78	4185	05 26.2	22	SN	C 4.7	3	C				
	PURP	20 0528E	0528	0545	S21	E80	4185	05 26.4	17D	1B			C	0528	48		HG
0431		20 0525	05253	0542	N18	E48	4183	05 23.9	17	SN					38	.8	F
	LEAR	20 0525	0525	0530	N18	E48	4183	05 23.9	5	SN		3	C		28		F
	PURP	20 0528E	0528	0554	N18	E49	4183	05 23.9	26D	SN			C	0528	48	.8	
0432		20 0620*	0636*	0705	N16	E46	4183	05 23.7	45	SF					78	1.3	DEJV
	ATHN	20 0620	0636	0730	N14	E52	4183	05 24.2	70	1N		3	V	0636	127	2.2	
	ABST	20 0647	0648	0652	N17	E43	4183	05 23.5	5	SF			C	0648	87	1.3	DJV
	HTPR	20 0649	0651	0654	N16	E43	4183	05 23.5	5	SF			C	0651	20	.3	E
0433		20 0749*	08046	0817	N18	E44	4183	05 23.7	28	1N					126	2.4	E
	KANZ	20 0749	0809	0814	N19	E44	4183	05 23.7	25	1N		2					
	CATA	20 0800	0810	0825	N17	E45	4183	05 23.7	25	!			C	0810	169	2.6	
	MONT	20 0802E	0804	0811	N18	E44	4183	05 23.7	9D	SF			C	0804	50		E
	KHAR	20 0805E		0821D	N20	E43	4183	05 23.6	16D	1N			P	0805	160	2.3	E
0434	KHAR	20 0925E		0935D	N09	W33	4174	05 17.9	10D	SF			P				E
0435	KANZ	20 0929	0929	0939	N18	E41	4183	05 23.5	10	SF		1					
0436	KHAR	20 0958E	1005	1018D	N16	E48	4183	05 24.0	20D	SN			P	1005	80	1.2	D
0437	KHAR	20 1018E			N10	W31	4174	05 18.1		D SF			P				D
0438	KANZ	20 1038E		1038D	N18	E41	4183	05 23.6	822D	SN		2					
0439	KANZ	20 1119	1129	1134	S21	E80	4187	05 26.6	15	SN		1					
0440	KHAR	20 1138E		1140D	N17	E47	4183	05 24.0	2D	SF			P				
0441	HOLL	20 1412	1412	1422	N10	W34	4174	05 18.0	10	SF		3	C		18		
0442	HOLL	20 1437	1444	1505	N16	E46	4183	05 24.1	28	SF	C 1.5	3	C		50		
0443		20 1504	1509	1528	S20	E76	4185	05 26.4	24	1N	C 4.1				143		ABF
	HOLL	20 1504	1509	1528	S22	E79	4185	05 26.7	24	1F	C 4.1	3	C		143		F
	KANZ	20 1518E		1518D	S19	E73	4185	05 26.2	24D	SN		3					AB
0444	HOLL	20 1704E	1704U	1740	N14	E48	4183	05 24.3	36D	SB	C 3.7	3	C		100		E
0445	LEAR	21 0117	0119	0123	N18	E38	4183	05 23.9	6	SF		3	C		23		F
0446	LEAR	21 0140	0143	0159	N17	E39	4183	05 24.0	19	SF		3	C		18		
0447	LEAR	21 0335	0340	0351	N16	E40	4183	05 24.2	16	SF		3	C		39		
0448	ABST	21 0431	0441	0452	N13	W36	4182	05 18.5	21	SF			P	0441	79	1.1	DJ
0449	ABST	21 0448	0452	0513	N19	E30	4183	05 23.5	25	1N			P	0452	288	3.7	FJ

H - ALPHA SOLAR FLARES

79
May 83

MAY 1983

Grp #	Sta	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
																	(10 ⁻⁵ Disk)	(Sq Deg)	
0450	ABST	21	0513	0515	0527	N20	E37	4183	05	24.0	14	IN			C	0515	175	2.5	EJ
0451	YUNN	21	0745	0750	0905	N18	E33	4183	05	23.8	20	SN			C		46	.6	E
0452	YUNN	21	0753	0754	0801	S19	E63	4185	05	26.1	8	SN			C		23	.5	
0453	RAMY	21	1110	1113	1136	N19	E32	4183	05	23.9	26	SN	C 1.9	3	C		71		
0454		21	1340I	1340E	1414	N17	E32	4183	05	24.0	34	SN	C 2.2				80	1.4	EF
	RAMY	21	1340	1340	1401	N19	E31	4183	05	23.9	21	SN	C 2.2	3	C		43		F
	HOLL	21	1341	1345	1412	N17	E33	4183	05	24.1	31	SN	C 2.2	3	C		50		F
	ATHN	21	1346E	1346	1352D	N17	E34	4183	05	24.1	60	SN		1	V	1346	127	1.7	
	HTRP	21	1355E		1430	N16	E31	4183	05	23.9	35D	SF			C	1357	100	1.2	E
0455	HOLL	21	1659	1714	1731	S19	E71	4187	05	27.1	32	SF		3	C		23		F
0456	HOLL	21	1727	1729	1743	N18	E23	4183	05	23.5	16	SN	C 1.1	3	C		42		F
		21	1816		1819	No Flare Patrol													
		21	1829		1840	No Flare Patrol													
0457	HOLL	21	1947	1947	2002	N15	E31	4183	05	24.2	15	SF	C 1.2	3	C		47		F
0458	HOLL	21	1957	1958	2007	N11	W52	4174	05	17.9	10	SF	C 1.3	3	C		85		F
0459	HOLL	21	2032	2035	2051	S18	E56	4185	05	26.1	19	SN	C 1.1	3	C		96		
0460	HOLL	21	2128	2129	2139	N19	E25	4183	05	23.8	11	SN	C 1.7	3	C		99		F
0461	HOLL	21	2144	2153	2206	N14	E22	4183	05	23.5	22	SF		3	C		41		F
0462		22	0334	0338*	0427	N15	E24	4183	05	24.0	53	SN	C 3.7				204	2.9	EFK
	MITK	22	0334	0338	0409D	N16	E25	4183	05	24.0	35D	SN			C	0338			E
	PALE	22	0336E	0338	0411D	N15	E25	4183	05	24.0	35D	SN	C 3.7	3	C		162		FE
	LEAR	22	0336E	0340	0416	N16	E24	4183	05	24.0	40D	SN	C 3.7	2	C		160		F
	YUNN	22	0337E	0337U	0352	N15	E26	4183	05	24.1	15D	IB			P	0337	231	2.8	F
	ABST	22	0357E	0405	0514	N15	E22	4183	05	23.8	77D	IN			P	0405	262	3.0	FK
0463	YUNN	22	0517	0519	0535	N15	E16	4183	05	23.4	18	SN			C		15	.2	D
0464	YUNN	22	0603	0606	0622	S20	E63	4187	05	27.1	19	SN			C		46	1.1	
0465		22	0840E	0913	1040D	N18	E13	4183	05	23.3	120D	SN					105	1.2	EH
	KHAR	22	0840E		0852D	N18	E13	4183	05	23.3	12D	SF			P	0840	30	.3	H
	KHAR	22	0903E	0913	1040D	N19	E13	4183	05	23.4	97D	SN			P	0913	180	2.0	EH
0466	KHAR	22	0956E		1009D	S30	W16	4179	05	21.1	13D	SF			P				
0467		22	1220	1224	1252	N16	E22	4183	05	24.2	32	SB	C 3.6				122		F
	HOLL	22	1219E	1221U	1254	N16	E22	4183	05	24	35D	SB	C 3.6	2	C		89		F
	RAMY	22	1220	1224	1250	N16	E22	4183	05	24.2	30	SB	C 3.6	3	C		155		
0468	HOLL	22	1356	1356	1410	N19	E17	4183	05	23.9	14	SN		3	C		43		F
0469	RAMY	22	1437	1444	1540	S19	E50	4185	05	26.4	63	SF		3	C		25		
0470		22	1452*	1502*	1600	N16	E17	4183	05	23.9	68	SF	C 2.2				48		FK
	RAMY	22	1452	1502	1520	N17	E14	4183	05	23.7	28	SF	C 2.2	3	C		61		
	HOLL	22	1453	1534	1621	N16	E19	4183	05	24.1	88	SF		3	C		45		K
	HOLL	22	1453	1544	1621	N16	E19	4183	05	24.1	88	SF		3	C		58		FK
	RAMY	22	1542	1545	1556	N16	E17	4183	05	23.9	14	SF		3	C		27		
0471	HOLL	22	1508	1509	1519	S29	W18	4179	05	21.2	11	SF		3	C		20		
0472	HOLL	22	1610	1622	1629	S19	E57	4187	05	27.0	19	SN		3	C		26		F
0473	HOLL	22	1709	1711	1718	S20	E56	4187	05	27.0	9	SN		3	C		16		

80
May 83

H - ALPHA SOLAR FLARES

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF		OMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks		
						Region	Class								Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)			
0474	HOLL	22	1732	1732	1742	S19	E56	4187	05	27.0	10	SN	3	C		22				
0475	HOLL	22	1746	1747	1754	N17	E18	4183	05	24.1	8	SN	3	C		58			F	
0476		22	1805	1806*	1909	N17	E18	4183	05	24.1	63	SN				72			K	
	HOLL	22	1806	1806	1909	N17	E18	4183	05	24.1	63	SF	3	C		23			K	
	HOLL	22	1806	1823	1909	N17	E18	4183	05	24.1	63	SN	3	C		122			K	
0477		22	1814	18157	1911	S20	E55	4187	05	27.0	57	SN				18			K	
	HOLL	22	1814	1815	1911	S20	E55	4187	05	27.0	57	SN	3	C		20			K	
	HOLL	22	1814	1822	1911	S20	E55	4187	05	27.0	57	SN	3	C		17			K	
0478	HOLL	22	2004	2005	2015	S30	W21	4179	05	21.2	11	SF	3	C		26				
0479	HOLL	22	2033	2050	2107D	N17	E18	4183	05	24.2	34D	SF C	2.4	3	C		33			
0480	HOLL	22	2204	2210	2229	S19	E53	4187	05	27.0	25	SN	3	C		16				
0481		22	23191	23202	2344	N17	E16	4183	05	24.2	25	SN C	1.5			107	2.0		EFJ	
	VORO	22	2319	2320	2349	N17	E15	4183	05	24.1	30	SN		C	2320	179	2.0		EJ	
	HOLL	22	2320	2322	2338	N17	E16	4183	05	24.2	18	SN C	1.5	3	C	35			F	
0482	YUNN	23	0056	0100	0120	N10	E90	4191	05	29.8	24			C					A	
0483	VORO	23	0115	0116	0120	S18	E48	4187	05	26.7	5	SF		C	0116	90	1.4		D	
0484	YUNN	23	0133	0140	0152	N11	E90	4191	05	29.8	19			C					A	
0485		23	01377	0142*	0205	S16	E52	4187	05	27.0	28	SN				60	1.0		DFK	
	YUNN	23	0137	0142	0213	S14	E54	4187	05	27.1	36	SB		C		46	.8		F	
	YUNN	23	0137	0152	0213	S16	E54	4187	05	27.2	36	SB		C		62	1.1		K	
	VORO	23	0144	0144	0148	S18	E48	4187	05	26.7	4	SF		C	0144	72	1.1		D	
0486	YUNN	23	0202	0204	0220	S24	W12	4181	05	22.1	18	SN		C		92	1.0			
0487	ABST	23	0424E	0447	0456D	S19	E50	4187	05	27.0	32D	SF		P	0447	96	1.6		DJ	
0488	LEAR	23	0534E	0547U	0726	S20	E48	4187	05	26.9	112D	SF	3	C		78			F	
0489		23	0534E	0546U	0604	N18	E11	4183	05	24.1	30D	SN				44	.2		F	
	LEAR	23	0534E	0546U	0615	N16	E13	4183	05	24.2	41D	SF	3	C		74			F	
	YUNN	23	0546E	0546U	0554	N20	E09	4183	05	23.9	8D	SN		P	0546	15	.2			
0490		23	0736	0745	0820	S19	E48	4187	05	27.0	44	SN C	1.0			98	2.0		EFHL	
	YUNN	23	0736E	0736U	0741D	S19	E48	4187	05	27.0	50	1N		P	0736	154	2.5			
	LEAR	23	0736	0745	0820	S19	E48	4187	05	27.0	44	SN C	1.0	3	C	49			FH	
	KHAR	23	0810E		0849D	S19	E47	4187	05	26.9	39D	SF		P	0815	90	1.5		EL	
0491		23	0840	08411	0900D	N16	E09	4183	05	24.0	20D	SN C	2.4			105	1.2		EFH	
	YUNN	23	0840	0841U	0841D	N17	E11	4183	05	24.2	1D	SN		P	0841	154	1.7			
	LEAR	23	0840	0841	0842D	N15	E06	4183	05	23.8	2D	SN C	2.4	3	C	90			F	
	KHAR	23	0840E	0842	0900D	N16	E09	4183	05	24.0	20D	SN		P	0847	70	.8		EH	
0492	KHAR	23	0922E		0940D	N08	W75	4174	05	17.8	18D	SF		V	0922					
0493		23	1051E	1107	1129	N16	E08	4183	05	24.0	38D	SF				24			E	
	KHAR	23	1051E	1107	1121D	N17	E08	4183	05	24.0	30D	SF		P					E	
	RAMY	23	1110E	1110U	1129	N16	E09	4183	05	24.1	19D	SF	3	C		24				
0494	RAMY	23	1144	1145	1158	S08	W47	4188	05	20.0	14	SF	3	C		35				
0495		23	1147	1151*	1253	S18	E46	4187	05	27.0	66	SN				109	1.9		K	
	RAMY	23	1109E	1151	1311	S19	E46	4187	05	27.0	124D	1F		C		161			K	
	RAMY	23	1109E	1251	1313	S19	E46	4187	05	27.0	124D	SN		C		38			K	
	ATHN	23	1147	1151	1214	S17	E45	4187	05	26.9	27	SN	3	Y	1151	127	1.9			
0496	RAMY	23	1301	1302	1310	N07	W74	4174	05	18.0	9	SN C	1.3	3	C	61				

H - ALPHA SOLAR FLARES

81
May 83

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	OMP	Dur (Min)	Imp Opt	Xray	See	Obs Type	Area Measurement		Remarks		
								USAF Region							Mo	Day		Time (UT)	Apparent (10 ⁻⁶ Disk)
0497	RAMY	23	1323	1324	1331	N19	E04	4183	05 22.9	8	SN	C 1.2	3	C		26			
0498		23	13391	13391	1348	N19	E02	4183	05 23.7	9	SN	C 1.2				30		F	
	HOLL	23	1339	1339	1347	N19	E03	4183	05 23.8	8	SN	C 1.2	3	C		22		F	
	RAMY	23	1340	1340	1349	N19	E02	4183	05 23.7	9	SN	C 1.2	3	C		39			
0499		23	14152	14171	1428	N08	W76	4174	05 17.9	13	SN					56			
	HOLL	23	1415	1418	1431	N09	W76	4174	05 17.7	16	SN		3	C		70			
	RAMY	23	1417	1417	1425	N07	W76	4174	05 17.9	8	SN		3	C		42			
0500		23	15102	15123	1528	N08	W75	4174	05 18.0	18	SF					19			
	HOLL	23	1510	1512	1528	N09	W76	4174	05 17.9	18	SF		3	C		20			
	RAMY	23	1512	1515	1527	N07	W74	4174	05 18.1	15	SF		3	C		18			
0501	HOLL	23	1535	1545	1604	N09	W77	4174	05 17.9	29	SF		3	C		26			
		23	1634		1653	No Flare Patrol													
0502	HOLL	23	1710	1719	1747	N18	E03	4183	05 23.9	37	SF	C 1.2	3	C		85		F	
0503	HOLL	23	2053	2100	2159	S19	E41	4187	05 27.0	66	SF		3	C		39		F	
0504		24	0011*	0013*	0051	N19	W00	4183	05 24.0	40	SN	C 1.4				32			
	HOLL	24	0011	0013	0051	N19	E00	4183	05 24.0	40	SN	C 1.4	3	C		36			
	LEAR	24	0039	0045	0051	N19	W01	4183	05 23.9	12	SF		3	C		29			
0505		24	01241	01251	0144	N18	W08	4183	05 23.4	20	SF	C 1.0				27		.2	
	CULG	24	0124	0125	0127D	N18	W09	4183	05 23.4	30	SF			P	0125	20		.2	
	LEAR	24	0125	0126	0144	N19	W07	4183	05 23.5	19	SF	C 1.0	3	C		34			
0506	CULG	24	0435	0437U	0437D	S17	E25	4185	05 26.1	20	SF			P	0437	60		.7	
0507	HOLL	24	1516	1521	1537	S16	E26	4187	05 26.6	21	SF	C 1.0	3	C		42			
0508	HOLL	24	1520	1520	1529	N18	W06	4183	05 24.2	9	SF		3	C		26		F	
		24	1720		1750	No Flare Patrol													
		24	1844		1850	No Flare Patrol													
0509	HOLL	24	1928	1932	1941	S19	E29	4187	05 27.0	13	SF		3	C		25			
		24	1959		2108	No Flare Patrol													
0510	VORO	24	2342	2342	2348	S18	E12	4185	05 25.9	6	SN			C	2342	161		1.7	DI
0511		25	00415	00474	0102	S17	E27	4187	05 27.1	21	SF	C 1.2				99		1.1	DEFIJ
	VORO	25	0041	0047	0104	S19	E28	4187	05 27.2	23	IF			C	0047	206		2.5	EIJ
	YUNN	25	0044	0048	0100	S17	E27	4187	05 27.1	16	SN			C		92		1.1	D
	CULG	25	0046E	0046U	0054	S14	E27	4187	05 27.1	80	SF			P	0046	40		.4	
	LEAR	25	0046	0048	0105	S16	E27	4187	05 27.1	19	SF	C 1.2	3	C		126			F
	PURP	25	0051E	0051	0108	S20	E27	4187	05 27.1	170	SF			C	0051	32		.3	
0512		25	01251	0126	0138	N14	W21	4183	05 23.5	13	SN					28		.3	D
	YUNN	25	0125	0126	0136D	N14	W20	4183	05 23.5	110	SN			P		15		.2	D
	CULG	25	0126	0127U	0138	N14	W22	4183	05 23.4	12	SF			C	0127	40		.4	
0513	LEAR	25	0145	0147	0206	N15	W13	4183	05 24.1	21	SF		3	C		50			F
0514		25	03563	0400	0425	N18	W18	4183	05 23.8	29	IN	C 3.6				332		4.8	EFK
	LEAR	25	0356	0400	0422	N18	W17	4183	05 23.9	26	SN	C 3.6	3	C		161			F
	TACH	25	0359	0400	0428	N18	W18	4183	05 23.8	29	2F			C	0400	575		6.5	E
	ABST	25	0400E	0400	0425	N18	W20	4183	05 23.6	250	IN			P	0400	261		3.0	EX
0515	ABST	25	0400E	0400	0432	S18	E24	4187	05 27.0	320	SN			P	0400	174		2.0	EK
0516	ABST	25	0656	0703	0708D	N18	W20	4183	05 23.8	120	IF			P	0703	261		3.0	E
0517		25	07011	07032	0708	S19	E20	4187	05 26.8	7	SN					62		.7	DV
	KAND	25	0701	0705	0707	S20	E19	4187	05 26.7	6	SF			C		35		.4	D
	ABST	25	0702	0703	0708D	S18	E21	4187	05 26.9	60	SN			P	0703	87		1.0	DV
	ATHN	25	0704E	0704	0709	S19	E20	4187	05 26.8	50	SN		2	V	0704	64		.7	

82
May 83

H - ALPHA SOLAR FLARES

MAY 1983

Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	NOAA/USAF Region			OMP No	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
					Lat	Cmd	Region							Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0518		25 0723E	07242	0739	S20	E20	4187	05 26.8	16D	SN				52	.6	D	
	ATHN	25 0723E	0724	0739	S19	E20	4187	05 26.8	16D	SB	2	V	0724	80	.9		
	PURP	25 0726E	0726	0726D	S21	E20	4187	05 26.8	16D	SF		P	0726	24	.2	D	
0519	KAND	25 0604	0806	0808	S20	E19	4187	05 26.8	4	SF		C		21	.2	D	
0520		25 0839	0841	0850	S20	E23	4187	05 27.1	11	SN				37	.4	DEHK	
	KHAR	25 0831E	0841	0924D	S18	E21	4187	05 26.9	53D	SF		P	0841	50	.6	EHK	
	PURP	25 0839	0841	0850	S21	E25	4187	05 27.3	11	SB		C	0841	24	.2	D	
0521	KHAR	25 0911E	0914	0937D	N19	W20	4183	05 23.8	26D	SF		P	0914	50	.6	E	
0522	KHAR	25 0928E		0944D	S19	E11	4185	05 26.2	16D	SF		P	0934	20	.2	E	
0523	KHAR	25 1114E	1127	1137D	S18	E20	4187	05 27.0	23D	SN		P	1127	100	1.1	E	
0524		25 1158	11586	1211	N18	W21	4183	05 23.9	13	SN C	1.1			32	.4	E	
	KHAR	25 1154E	1158	1204D	N18	W22	4183	05 23.8	10C	SF		P	1158	30	.4	E	
	RAMY	25 1158	1204	1211	N17	W20	4183	05 24.0	13	SN C	1.1	3	C	34			
0525		25 1405*	1456*	1641	S18	E20	4187	05 27.1	156	1N C	2.4			177	1.2	BEFK	
	RAMY	25 1405	1456	1637D	S17	E19	4187	05 27.0	152D	1N C	2.4	3	C	302			
	HOLL	25 1423	1456	1641	S18	E20	4187	05 27.1	138	1N C	2.4	3	C	250		FK	
	HOLL	25 1423	1635	1641	S18	E20	4187	05 27.1	138	SN		3	C	36		K	
	HTPR	25 1510E		1519D	S18	E20	4187	05 27.1	90	SN		C	1512	120	1.2	BE	
		25 1522		1539	No Flare Patrol												
0526		25 1633	1642*	1726	N18	W22	4183	05 24.0	53	SF				66		K	
	HOLL	25 1633	1642	1726	N18	W22	4183	05 24.0	53	SF		3	C	59		K	
	HOLL	25 1633	1655	1726	N18	W22	4183	05 24.0	53	SF		3	C	74		K	
		25 1800		1822	No Flare Patrol												
		25 1840		1850	No Flare Patrol												
0527	HOLL	25 2011E	2013U	2024	N19	W21	4183	05 24.2	13D	SN C	1.1	3	C		29		F
		25 2047		2058	No Flare Patrol												
0528	HOLL	25 2059E	2059U	2109	N19	W22	4183	05 24.2	100	SF		2	C		20		F
		25 2114		2118	No Flare Patrol												
0529	HOLL	25 2119E	2119U	2128	S17	E21	4187	05 27.5	90	SF		2	C		22		
0530	PALE	25 2204E	2222U	2239D	S19	E14	4187	05 27.0	35D	SN C	1.9	3	C		44		
0531		25 2346	2355	2430	N10	E50	4191	05 29.7	44	1N C	2.2			144	1.9	EF	
	LEAR	25 2346	2355	2430	N09	E52	4191	05 29.9	44	1F C	2.2	2	C	164		F	
	YUNN	26 0010E	0014U	0030	N10	E48	4191	05 29.6	200	SN		P	0014	123	1.9	E	
0532	LEAR	26 0024	0025	0040	N17	W26	4183	05 24.0	16	SF		3	C		68		F
0533	LEAR	26 0117	0118	0123	N18	W30	4183	05 23.8	6	SF		3	C		58		
0534	ABST	26 0446	0448	0455	S05	E06	4198	05 26.6	9	SF		C	0448	175	1.8	D	
0535	ABST	26 0452	0457	0523D	S19	E12	4187	05 27.1	31D	SF		P	0457	96	1.1	DJ	
0536		26 0756	0757*	0806	N18	W32	4183	05 23.9	10	SF				26	.3	DF	
	LEAR	26 0756	0757	0806	N18	W34	4183	05 23.7	10	SF		3	C	26		F	
	KHAR	26 0810E	0823	0927D	N17	W31	4183	05 24.0	77D	SF		P	0823	25	.3	D	
0537	KAND	26 1210	1218	1236	N10	E40	4191	05 29.5	26	SF		C		21	.3	E	
0538		26 1247.1	1257	1322	N12	E40	4191	05 29.5	35	SF C	1.2			70	1.1		
	HOLL	26 1247	1249U	1318	N12	E40	4191	05 29.5	31	SF C	1.2	2	C	60			
	ATHN	26 1248	1257	1325	N12	E39	4191	05 29.5	37	SF		3	V	1257	80	1.1	

M - ALPHA SOLAR FLARES

83
May 83

MAY 1983

Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP Mo	Dur (Min)	Imp Opt	Xray	Obs Sea	Type	Time (UT)	Area Measurement		Remarks
															Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
		26 1659		1707			No Flare Patrol										
0539	HOLL	26 1719	1720	1729	S15	E05	4187	05	27.1	10	SF	3	C		49		
0540		26 1759	1800	1812	S11	W12	4193	05	25.8	13	SN				30		F
	RAMY	26 1759	1800	1807	S11	W12	4193	05	25.8	8	SF	3	C		25		F
	HOLL	26 1759	1800	1817	S11	W11	4195	05	25.9	18	SN	3	C		34		F
0541	HOLL	26 2011	2030	2047	S19	E02	4187	05	27.0	36	SF C 1.1	3	C		41		F
0542	LEAR	26 2346	2355	2411D	S11	E35	4189A	05	29.6	250	1F	2	C		164		F
0543	LEAR	27 0055	0059	0112	S10	W16	4193	05	25.8	17	SF	3	C		28		F
0544	LEAR	27 0837	0838	0849	S18	W03	4187	05	27.1	12	SF	3	C		34		
0545	ATHN	27 0912	0919	0943	S13	E31	4189A	05	29.7	31	SN	3	V	0919	127	1.6	
0546	HTRP	27 0915	0922	0956	N10	E30	4191	05	29.6	41	SF		C	0922	30	.3	E
0547	HTRP	27 1038	1049	1054	S18	W04	4187	05	27.1	16	SF		C	1049	30	.3	E
0548	HTRP	27 1108	1110	1115	S19	W05	4187	05	27.1	7	SF		C	1110	20	.2	
0549		27 1110	11178	1136	S10	E60	4196	06	1.0	26	SF				33	.7	
	HTRP	27 1110	1117	1136	S10	E59	4196	05	31.9	26	SF		C	1117	10	.2	
	CATA	27 1120E	1125	1135D	S09	E62	4196	06	1.1	150	S		P	1125	56	1.2	
0550		27 1431	14321	1440	S13	W40	4186	05	24.6	9	SF				41	.8	
	HOLL	27 1431	1432	1439	S12	W41	4186	05	24.5	8	SF	3	C		22		
	HTRP	27 1431	1433	1442	S14	W40	4186	05	24.6	11	SF		C	1433	60	.8	
0551		27 16464	1659*	1831	S10	W25	4193	05	25.8	105	SN				145	1.5	EFK
	HTRP	27 1646		1733D	S10	W26	4193	05	25.7	47D	SN		C	1700	140	1.5	E
	RAMY	27 1646	1748	1827	S11	W25	4193	05	25.8	101	IN	3	C		238		F
	HOLL	27 1650	1659	1833	S09	W25	4193	05	25.8	103	SN	3	C		75		K
	HOLL	27 1650	1747	1833	S09	W25	4193	05	25.8	103	SN	3	C		126		FK
0552	HOLL	27 1807	1908	1832	S11	E72	4196A	06	2.2	25	SF	3	C		16		F
0553	HOLL	27 1854	1857	1914	S10	E57	4196	06	1.1	20	SF	3	C		53		F
0554	HOLL	27 2248	2248	2307	N16	W02	4189	05	27.8	19	SF	3	C		48		F
0555	VORO	27 2336	2336	2345	S17	W44	4186	05	24.6	9	SN		C	2336	108	1.5	D
0556	CULG	28 0412	0416U	0418D	S09	E66	4196A	06	2.1	60	SF		P	0416	30	.5	
0557	CULG	28 0457	0458	0502	S13	W38	4192	05	25.3	5	SN		C	0458	20	.3	
0558	HTRP	28 0515	0518	0521	S04	W14	4195	05	27.2	6	SF		C	0518	30	.3	
0559		28 0521	05231	0540	S16	W17	4187	05	26.9	19	SF				35	.4	E
	CULG	28 0521	0523	0530	S16	W16	4187	05	27.0	9	SF		C	0523	40	.4	
	HTRP	28 0521	0524	0550	S16	W18	4187	05	26.8	29	SF		C	0524	30	.3	E
0560	HTRP	28 0539	0542	0546	S09	W37	4193	05	25.4	7	SF		C	0542	60	.7	E
0561	HTRP	28 0557	0559	0604	S15	W16	4187	05	27.0	7	SF		C	0559	20	.2	
0562		28 0713	0715	0722	S11	E63	4196A	06	2.0	9	SN				31	.7	D
	HTRP	28 0713	0715	0723	S11	E60	4196A	06	1.8	10	SN		C	0715	20	.4	
	YLRH	28 0714E	0714U	0716D	S12	E65	4196A	06	2.2	20	SN		P	0714	31	.7	D
	BUCA	28 0715E		0720	S11	E65	4196A	06	2.2	50	SN		C	0715	43	1.0	D
0563	CATA	28 0845	0910	0920	S12	E64	4196A	06	2.2	35	S		C	0910	56	1.3	
0564	HTRP	28 1239	1244	1250	S19	W20	4187	05	27.0	11	SF		C	1244	20	.2	

84
May 83

H - ALPHA SOLAR FLARES

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP Mo	Dur Day	(Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0565	HTPR	28	1540	1542	1547	S08	W43	4193	05	25.4	7	SF				C	1542	20	.3	E
0566	HTPR	28	1549	1555	1625	S13	W63	4190B	05	23.9	36	SF				C	1556	40	.9	E
0567	HTPR	28	1630	1632	1646	S09	W52	4186	05	24.8	16	SN				C	1632	40	.6	
		28	1719		2225	No Flare Patrol														
		28	2232		2259	No Flare Patrol														
0568		29	0049*	0118	0127	S10	E37	4196	05	31.8	38	SN	C 2.2					91	.8	
	CULG	29	0049	0049U	0054D	S09	E37	4196	05	31.8	50	SF			P	0049	30	.3		
	CULG	29	0101E	0117U	0121D	S09	E38	4196	05	31.9	200	SN			P	0117	110	1.4		
	LEAR	29	0116	0118	0127	S11	E37	4196	05	31.8	11	SN	C 2.2	3	C		133			
0569	CATA	29	0920	0930	0935D	S07	E90	4201	06	5.1	150	1			P	0930	68			
0570	RAMY	29	1115	1120	1130	S18	W40	4187	05	26.4	15	SF		3	C		28			
0571	RAMY	29	1136	1138	1144	S11	E47	4196A	06	2.0	8	SF		3	C		36			
0572	RAMY	29	1323	1323	1330	S10	E77	4201	06	4.3	7	SF		3	C		25			
0573		29	15122	15143	1533	S06	E90	4201	06	5.4	21	SN					27			
	KANZ	29	1512	1517	1533	S06	E90	4201	06	5.4	21	SN		3			27			
	RAMY	29	1514	1514	1540D	S07	E90	4201	06	5.4	260	SF		3	C		27			
0574		29	15382	1541	1551	S11	E44	4196A	06	2.0	13	SF					34		F	
	KANZ	29	1538	1541	1550	S11	E44	4196A	06	2.0	12	SF		3			34		F	
	HOLL	29	1540	1541	1552	S11	E43	4196A	06	1.9	12	SF		3	C		34		F	
0575	HOLL	29	1607	1615	1625	S09	E40	4196	06	1.7	18	SF		3	C		62		F	
0576		29	18401	1843	1848	S10	E86	4201	06	5.2	8	SF					11			
	HOLL	29	1840	1843	1845	S10	E90	4201	06	5.5	5	SF		3	C		10			
	RAMY	29	1841	1843	1850	S10	E83	4201	06	5.0	9	SF		3	C		12			
		29	2033		2034	No Flare Patrol														
0577	LEAR	30	0121	0121	0125	S11	E84	4201	06	5.4	4	SF		3	C					
0578		30	0255	0257	0300	S09	E82	4201	06	5.3	5	SN	C 1.2				30			
	CULG	30	0255	0257	0300	S07	E81	4201	06	5.2	5	SN			C	0257	30			
	LEAR	30	0255	0257	0301	S11	E84	4201	06	5.4	6	SF	C 1.2	3	C					
0579	LEAR	30	0310	0312	0323	S18	W48	4187	05	26.5	13	SF		3	C		22			
0580		30	0447	0437*	0502	S14	W88		05	23.5	15	1F					87		AD	
	YUNN	30	0424E	0437	0451D	S12	W90		05	23.4	27D				P				A	
	ABST	30	0447	0452	0502	S15	W85		05	23.8	15	1F			C	0452	87		AD	
0581	ABST	30	0530	0532	0534	S09	E85	4201	06	5.6	4	1N			C	0532	96		AD	
0582	ABST	30	0552	0554	0620	N17	W34	4189	05	27.7	28	SF			C	0554	105	1.4	DG	
0583	KANZ	30	0736	0741	0746	S10	E80	4201	06	5.3	10	SF		3						
0584	KANZ	30	0751	0806	0811	N12	W90	4183	05	23.5	20	SF		3						
0585		30	1044	1049*	1143	S09	E77	4201	06	5.2	59	SN	C 1.2				38	1.6	FK	
	KANZ	30	1044	1049	1059	S12	E79	4201	06	5.4	15	SN		3						
	RAMY	30	1044	1049	1157	S07	E77	4201	06	5.2	73	SN		3	C		40		K	
	RAMY	30	1044	1133	1157	S07	E77	4201	06	5.2	73	SN	C 1.2	3	C		27		FK	
	ATHN	30	1141E	1141	1158	S10	E74	4201	06	5.0	17D	SN		2	V	1141	48	1.6		
0586		30	1206	12094	1222	S06	E77	4201	06	5.3	16	SF					30			
	KANZ	30	1200E	1209	1221	S06	E77	4201	06	5.3	21D	SF		3						
	RAMY	30	1206	1213	1224	S06	E77	4201	06	5.3	18	SF		3	C		30			

H - ALPHA SOLAR FLARES

85
May 83

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP Mo	Dur Day	Dur (Min)	Imp Opt	X-ray	See	Obs Type	Area Measurement			Remarks
																Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0587	HOLL	30	1448	1451	1513	S12	E70	4201	06	4.9	25	SF	C	1.8	3	C	35		F
0588		30	1623	1630*	1730D	S11	E72	4201	06	5.1	67D	1F	C	5.0			99		F
	HOLL	30	1623	1630	1730D	S12	E73	4201	06	5.2	67D	SF	C	5.0	3	C	90		F
	RAMY	30	1624E	1702	1706D	S10	E70	4201	06	4.9	42D	1F			3	C	108		F
		30	2123		2128	No Flare Patrol													
0589	CULG	30	2223	2224	2226	S19	W56	4187	05	26.6	3	SF				C	2224	70	1.3
0590	LEAR	31	0252	0257	0302	S13	E18	4196	06	1.5	10	SF			3	C	29		F
0591		31	0317Z	0319*	0338	S11	E69	4201	06	5.3	21	SF	C	3.8			38		FK
	PALE	31	0317	0331	0353D	S09	E68	4201	06	5.2	36D	SF	C	3.8	3	C	48		
	LEAR	31	0319	0319	0335	S11	E67	4201	06	5.2	16	SF			3	C	15		FK
	LEAR	31	0319	0330	0335	S11	E67	4201	06	5.2	16	SF	C	3.8	3	C	28		K
	PURP	31	0334E	0334	0343	S12	E73	4201	06	5.6	9D	SN				C	0334	63	
0592	KANZ	31	0705	0705	0710	S08	E55	4201	06	4.4	5	SN			3				D
0593		31	0700S	0710S	0722	S19	W62	4187	05	26.6	22	SF	C	2.4			78		
	LEAR	31	0700	0713	0723	S16	W62	4187	05	26.6	23	SF	C	2.4	3	C	93		
	KANZ	31	0705	0710	0720	S20	W61	4187	05	26.6	15	SF			3				
	PURP	31	0713E	0713	0713D	S22	W64	4187	05	26.4	19D	SN				P	0713	63	
0594	KANZ	31	0710	0715	0725	S11	E17	4196	06	1.6	15	SF			3				
0595	KHAR	31	0756E	0757	0802D	S21	W62	4187	05	26.6	6D	SF				V	0800	40	D
0596		31	0759	0809S	0818	S10	E52	4201	06	4.2	19	SF							D
	KANZ	31	0759	0809	0818	S09	E53	4201	06	4.3	19	SF			2				
	KHAR	31	0811E	0812	0817D	S10	E52	4201	06	4.2	6D	SF				V	0812		D
0597		31	0916	0921	0936	S10	E52	4201	06	4.3	20	SF							D
	KANZ	31	0916	0921	0936	S09	E53	4201	06	4.4	20	SF			1				
	KHAR	31	0920E		0923D	S10	E52	4201	06	4.3	3D	SF				V	0921		D
0598		31	1000	1002Z	1006	S20	W64	4187	05	26.5	6	SN					70		HK
	KHAR	31	0944E	1004	1017D	S21	W65	4187	05	26.4	33D	SN				P	0947		K
	MONT	31	1000	1002	1006	S19	W64	4187	05	26.5	6	SN				C	1002	70	H
		31	1121		1128	No Flare Patrol													
0599	RAMY	31	1141	1141	1148	S11	E16	4196	06	1.7	7	SF			3	C	21		
0600	RAMY	31	1155	1201	1210	S09	E62	4201	06	5.1	15	SF			3	C	20		
0601	RAMY	31	1255	1302	1307	S12	E64	4201	06	5.3	12	SN	C	3.0	3	C	21		
0602		31	1336*	1350	1416	S10	E64	4201	06	5.4	40	SB	C	7.9			158		E
	HOLL	31	1336	1350U	1356D	S11	E63	420	06	5.3	20D	SB	C	7.9	1	C	125		E
	RAMY	31	1348	1350	1416	S10	E65	4201	06	5.4	28	1B	C	7.9	3	C	192		
	KANZ	31	1350	1350	1405D	S10	E64	4201	06	5.4	15D	SB			1				
0603	RAMY	31	1459	1505	1521	S12	E65	4201	06	5.5	22	SN	M	1.2	3	C	48		
0604	HOLL	31	1656	1656	1706	S10	E50	4201	06	4.5	10	SN			3	C	77		
0605	HOLL	31	1711	1730	1741	S11	E61	4201	06	5.3	30	SF			3	C	38		
0606		31	1758*	1805*	1959	S11	E62	4201	06	5.4	121	SB	C	9.0			128		FKU
	HOLL	31	1758	1805	1959	S11	E62	4201	06	5.4	121	SN			2	C	48		K
	HOLL	31	1758	1826	1959	S11	E62	4201	06	5.4	121	1B	C	9.0	2	C	195		UFK
	RAMY	31	1810	1815	1954D	S11	E62	4201	06	5.4	104D	SB			3	C	144		K
	RAMY	31	1810	1826	1954D	S11	E62	4201	06	5.4	104D	SB	C	9.0	3	C	126		K

86
May 83

H - ALPHA SOLAR FLARE

MAY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ Sun Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Sea	Obs Type	Area Measurement		Remarks	
															Time (UT)	Apparent (10 ⁻⁶ Disk)		Corr (Sq Deg)
0607	HOLL	31	2017	2019	2050	S11	E71	4201	06	6.2	22	SN	C	2.9	2	C	63	F
0608	HOLL	31	2045	2046	2050	S12	E60	4201	06	5.4	5	SN		3	C		30	
0609	HOLL	31	2100	2102	2108	S11	E60	4201	06	5.4	8	SF	C	2.1	2	C	26	

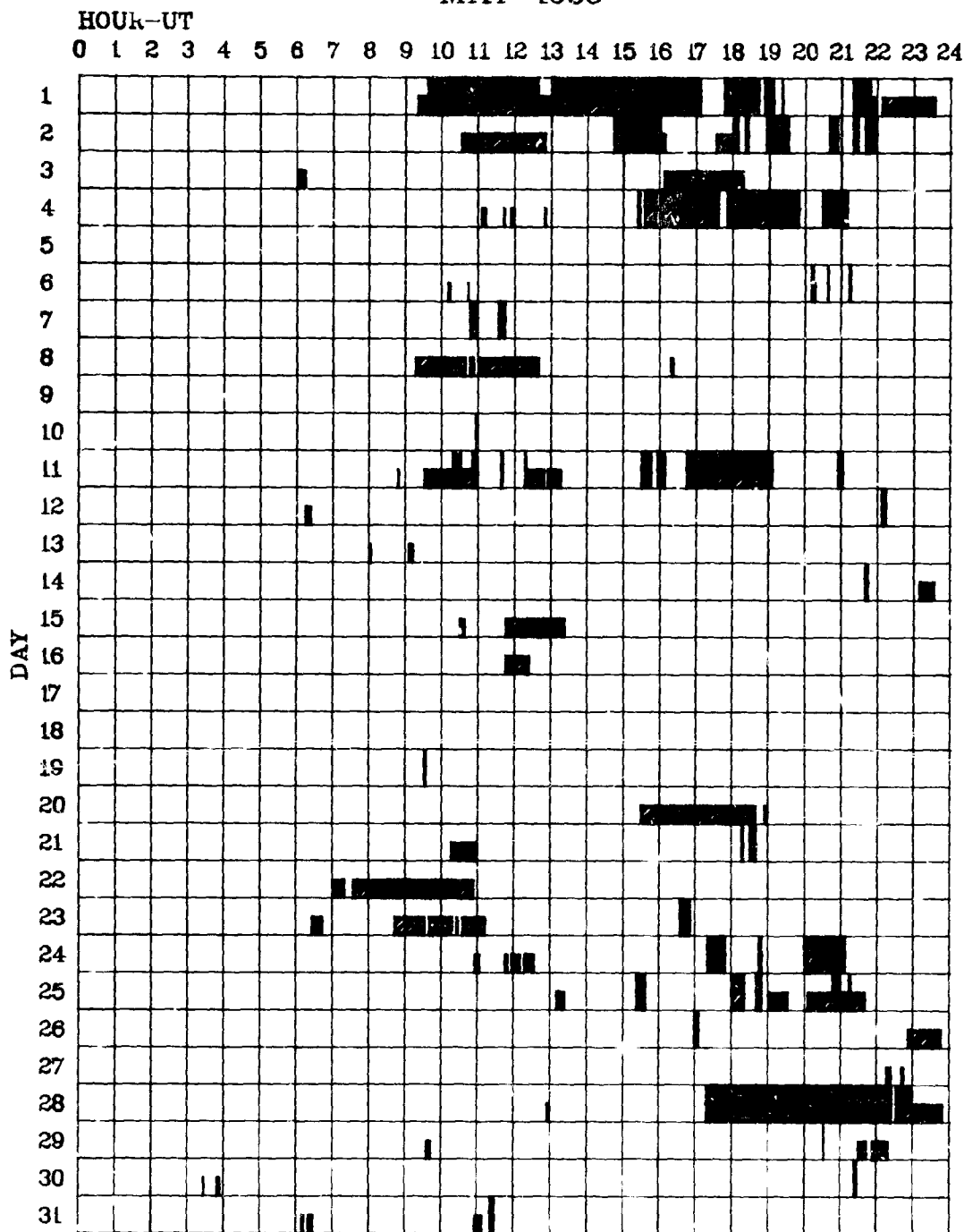
"Remarks":

- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>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.</p> | <p>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.</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

87
May 83

MAY 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 | Georgiana | Kanzelhoehe | Manila | Purple Mt. |
| Athens | Haute Provence | Kharkov | Mitaka | Ramey |
| Bucharest | Holloman | Kodaikanal | Monte Mario | Tashkent |
| Catania | Istanbul | Learmonth | Palenua | Voroshilov |
| Culgoora | Kandilli | Lvov | Peking | Wendelstein |
| | | | | 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	803*	490*	553*	769*	696*	753*	616*	545*	565*	749*
1983	332*	220*	337*	346*	609*							

* Preliminary