



U.S. DEPARTMENT OF COMMERCE

Robert A. Mosbacher, Secretary

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

John A. Knauss, Under Secretary for Oceans and Atmosphere

NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE

Thomas N. Pyke, Jr., Assistant Administrator

MARCH 1991 NUMBER 559 - Part II

Solar-Geophysical Data comprehensive reports

Data for September 1990

International Standard Serial Number: 0038-0911

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

NATIONAL GEOPHYSICAL DATA CENTER

Michael A. Chinnery, Director

Boulder, Colorado

Subscription information is on the inside back cover.

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

NUMBER 559

(Issued in Two Parts)

Editor: Helen E. Coffey

Chief: Joe H. Allen
Solar-Terrestrial Physics Division

Staff: Daniel C. Wilkinson
Carol Weathers
John A. McKinnon

C O N T E N T S

PART I (PROMPT REPORTS)

	Page
DETAILED INDEX FOR 1990-1991	2
DATA FOR FEBRUARY 1991	3- 47
DATA FOR JANUARY 1991.	49-150

PART II (COMPREHENSIVE REPORTS)

	Page
DETAILED INDEX FOR 1990-1991	2
DATA FOR SEPTEMBER 1990.	3-69

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

CODE	KIND OF OBSERVATION	JUL 90	AUG	SEP	OCT	NOV	DEC	JAN 91	FEB
A. SOLAR AND INTERPLANETARY EVENTS									
A.1	Sunspot Drawings	553A 64	554A 56	555A 60	556A 60	557A 72	558A 64	559A 58	
A.2aa	Internat. Provisional Sunspot Numbers	552A 29	553A 29	554A 27	555A 29	556A 27	557A 29	558A 29	559A 27
A.2c	American Sunspot Numbers	552A 29	553A 29	554A 27	555A 29	556A 27	557A 29	558A 29	559A 27
A.3a	Mt. Wilson Magnetograms	553A 64	554A 56	555A 60	556A 60	557A 72	558A 64	559A 58	
A.3b	Sunspot Mag Class and Regions	553A 95	554A 87	555A 90	556A 91	557A102	558A 95	559A 89	
A.3c	Kitt Peak Magnetograms	553A 64	554A 56	555A 60	556A 60	557A 72	558A 64	559A 58	
A.3d	Mean Solar Magnetic Field (Stanford)	552A 49	553A 53	554A 45	555A 49	556A 49	557A 53	558A 53	559A 47
A.3e	Stanford Magnetograms	553A 64	554A 56	555A 60	556A 60	557A 72	558A 64	559A 58	
A.4	H-alpha Filtergrams	553A 64	554A 56	555A 60	556A 60	557A 72	558A 64	559A 58	
A.6	H-alpha Synoptic Charts	553A 56	554A 48						
A.6b	Active Region Carte Synoptique (Paris)	Sep-Oct 89	in 550B 86;	Nov-Dec 89	in 555B 96				
A.6c	Stanford Solar Mag Field Synoptic Maps	553A 58	554A 50	555A 54	556A 54	557A 60	558A 58	559A 52	
A.6d	Kitt Peak " Mag Field Synoptic Maps	553A 57	554A 49	555A 53	556A 53	557A 58	558A 57	559A 51	
A.6e	Mass Ejections from the Sun	557B 67	558B 85	559B 53					
A.6f	Active Prominences and Filaments	557B 68	558B 86	559B 54					
A.6g	Sac Peak Coronal Line Synoptic Maps	553A 60	554A 52	555A 56	556A 56	557A 64	558A 60	559A 54	
A.7h	Coronal Line Emission (Sac Peak)	553A 64	554A 56	555A 60	556A 60	557A 72	558A 64	559A 58	
A.8aa	2800 MHz - Solar Flux (Ottawa)	552A 29	553A 29	554A 27	555A 29	556A 27	557A 29	558A 29	559A 27
A.8ac	2800 MHz - Adj. Solar Flux (Ottawa)	552A 29	553A 29	554A 27	555A 29	556A 27	557A 29	558A 29	559A 27
A.8g	Adjusted Daily Solar Fluxes (Palehua)	552A 29	553A 29	554A 27	555A 29	556A 27	557A 29	558A 29	559A 27
A.10a	Interferometric Chart (164 MHz) Nancy	552A 46	553A 49	554A 42	555A 45	---	---	---	---
A.10e	East-West Scans - 10 cm - Ottawa	552A 43	553A 47	554A 41	555A 44	556A 45	557A 48	558A47	559A 42
A.11g	Solar X-ray GOES (graphs/event table)	557B 58	558B 76	559B 45					
A.11k	Solar UV NOAA-9	May 86-Dec 87	in 541B178						
A.11l	Solar UV NIMBUS7	Nov 78-Oct 84	in 542B 82						
A.12e	Solar Particles (IMP H & J)	Jul 86-Aug 87	in 539B112;	Sep 87-Mar 88 & May-Nov 88	in 546B124				
A.13e	Solar Plasma (IMP H & J)	557B 57	558B 75	559B 44					
A.13f	Solar Wind (Pioneer 12)	Jan-Dec 89	in 549A148;	Jan-Oct 90	in 558A157				
A.16a	SMM Solar Irradiance	Feb 80-Oct 87	in 530B 64						
A.16b	NIMBUS Solar Irradiance	Nov 78-Jul 89	in 534B114						
A.16c	ERBS, NOAA-9&-10 Solar Irradiance	1984-88	in 538B101;	1989	in 551B 78				
A.17	Interplanetary Mag Field (Pioneer 12)	Jan-Jun 88	in 533A130;	Jul 88	in 536A152				
A.17c	Inferred Interplanetary Mag Field	1984-1988	data in 542A168;	1989	in 548A154				
C. SOLAR FLARE-ASSOCIATED EVENTS									
C.1a	H-alpha Flares	552A 32	553A 33	554A 31	555A 32	556A 30	557A 32	558A 32	559A 31
C.1ba	H-alpha Flare Groups	557B 4	558B 4	559B 4					
C.1d	Flare Patrol Observations	552A 42	553A 46	554A 40	555A 43	556A 44	557A 47	558A 46	559A 41
C.3	Radio Bursts Fixed Freq.	557B 26	558B 38	559B 25					
C.3	Radio Bursts Fixed Freq. Selected	557B 28	558B 40	559B 27					
C.3	Radio Bursts Fixed Freq. Selected	552A 47	553A 50	554A 43	555A 46	556A 46	557A 49	558A 48	559A 43
C.4d	Radio Bursts Spectral (Culgoora)	555A146	555A151				558A130	559A121	
C.4e	Radio Bursts Spectral (Weissenau)	554A162	554A128	555A126				559A121	
C.4f	Radio Bursts Spectral (Sagamore Hill)	553A129	554A128	555A126	556A123	557A135	558A130	559A121	
C.4i	Radio Bursts Spectral (Bleien)	553A129	554A128		556A123	557A135	558A130		
C.4k	Radio Bursts Spectral (Learmonth)	553A129	554A128	555A126	556A123	557A135	558A130	559A121	
C.4l	Radio Bursts Spectral (Palehua)	553A129	554A128	555A126	556A123	557A135	558A130	559A121	
C.4m	Radio Bursts Spectral (Ondrejov)	553A129	554A128		557A135	558A130	559A121		
C.4n	Radio Bursts Spectral (Potsdam)	554A162	554A128	555A126	556A123		558A130	559A121	
C.4o	Radio Bursts Spectral (San Vito)	553A129	554A128	555A126	556A123	557A135	558A130	559A121	
C.6	Sudden Ionospheric Disturbances	553A125	554A124	555A122	556A118	557A129	558A124	559A115	
D. GEOMAGNETIC & MAGNETOSPHERIC EVENTS									
D.1a	Geomagnetic Indices	554A175	555A157	556A148	556A139	557A150	558A150	559A145	
D.1ba	27-day Chart of Kp Indices	553A150	554A157	555A142	556A141	557A152	558A152	559A147	
D.1cb	Monthly Mean aa Indices	553A151	556A142	556A142	556A142	559A148	559A148	559A148	
D.1d	Principal Magnetic Storms	553A152	554A159	555A144	556A143	557A154	558A154	559A150	
D.1f	Sudden Commencements/Flare Effects	Jul 90	in 554A178						
D.1g	Equatorial Indices Dst	Jan-Aug 89	in 555A158;	Sep 89-May 90	in 557A163				
F. COSMIC RAYS									
F.1a	Cosmic Ray Neutron Cts (Deep River)	553A143	554A154	555A135	556A138	557A145	558A145	559A144	
F.1b	Cosmic Ray Neutron Cts (Climax)	554A171	554A154	555A135	556A138	557A145	558A145	559A144	
F.1h	Cosmic Ray Neutron Cts (Thule)	557A156	557A157	557A158	557A159	557A145			
F.1i	Cosmic Ray Neutron Cts (Kiel)	553A143	554A154	555A135	556A138	557A145	558A145	559A144	
F.1j	Cosmic Ray Neutron Cts (Tokyo)	553A143	554A154	555A135	556A138	557A145	558A145	559A144	
F.1l	Cosmic Ray Neutron Cts (Huancayo)	554A171	556A146	557A158	557A159				
H. MISCELLANEOUS									
H.60	IUWDS Alert Periods	552A 20	553A 20	554A19	555A 20	556A 19	557A 20	558A 20	559A 18

The entry "553A 64" under Jul 1990, for example, means that the sunspot drawings for Jul 1990 appear in SOLAR-GEOPHYSICAL DATA No. 553, Part I, and that they begin on page 64. "A" denotes Part I and "B", Part II. Blanks indicate data not yet received and dashes mark unavailable data.

C O N T E N T S

Comprehensive Reports DATA FOR SEPTEMBER 1990 Number 559 Part II

MEUDON CARTE SYNOPTIQUE (Unavailable at time of publication.)	Page
Active Regions and Filaments	
Synoptic Solar Maps	
SOLAR FLARES	
H-alpha Solar Flare Groups.	4-24
Intervals of No Flare Patrol Observation.	25
Number of Solar Flares August 1966-present.	26
SOLAR RADIO BURSTS AT FIXED FREQUENCIES.	27-43
INTERPLANETARY SOLAR PARTICLES AND PLASMA	
IMP 8 Solar Wind.	44
SOLAR X-RAY RADIATION FROM GOES SATELLITE Graphs	
Preliminary Event List.	45-49
Preliminary Daily Average Background.	50-51
Preliminary Daily Average Background.	52
MASS EJECTIONS FROM THE SUN.	53
ACTIVE PROMINENCES AND FILAMENTS	54-69
SOLAR IRRADIANCE (Data unavailable at time of publication.)	

SEPTEMBER 1990

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0001	YUNN	01	0112	0115	0130	N15	W27	6240	08	30.1	18	SN			C		63	0.7	
0002	YUNN	01	0135	0143	0211	N14	W25	6240	08	30.3	36	SN			C		79	0.9	
0003	YUNN	01	0207	0211	0211D	S12	E25	6238	09	3.0	40	SN			P		16	0.2	
0004	LEAR	01	0234	0234	0238	N13	W28	6233	08	30.1	4	SF		3	E		17		F
0005		01	0256	0314*	0410	N14	W30	6233	08	29.9	74	SN	C 4.9				76	1.2	FKTZ
	LEAR	01	0256	0314	0413	N14	W29	6233	08	30.0	77	SF			E		49		K
	LEAR	01	0256	0327	0413	N14	W29	6233	08	30.0	77	SF	C 4.9	3	E		45		F
	TACH	01	0300E		0406	N15	W31	6233	08	29.9	660	SB		3	C	0328	148	1.8	TZ
	YUNN	01	0300	0332	0410	N14	W29	6233	08	30.0	70	SN			C		63	0.7	F
0006		01	03137	0315*	0430	N14	W25	6240	08	30.3	77	SF					26		E
	MITK	01	0313	0315	0445	N13	W26	6240	08	30.3	92	SF			C	0315			E
	LEAR	01	0320	0342	0414	N15	W24	6240	08	30.4	54	SF		3	E		26		
0007		01	0629*	07063	0730	N13	W30	6233	08	30.1	61	SN	M 2.7				203	3.2	EF
	HTPR	01	0629	0707	0730	N13	W30	6233	08	30.1	61	SN			C	0707	140	1.6	
	LEAR	01	0658	0706	0731	N14	W31	6233	08	30.0	33	SN	M 2.7	3	E		60		F
	MITK	01	0701	0709	0757D	N13	W28	6233	08	30.3	560	1B			C	0709	410	4.8	E
0008		01	0631*	0707*	0757	N14	W27	6240	08	30.3	86	1N					172	3.1	CEFK
	YUNN	01	0631	0710	0800	N16	W27	6240	08	30.3	89	1N			C		393	4.6	F
	SVTO	01	0702E	0707U	0740D	N14	W27	6240	08	30.3	380	SN		3	E		28		F
	LEAR	01	0705	0707	0823	N15	W25	6240	08	30.5	78	SF		3	E		29		
	BUCA	01	0705	0710	0740	N14	W29	6240	08	30.2	35	1B			C	0710	215	2.5	E
	ISTA	01	0707	0709	0747	N13	W25	6240	08	30.5	40	1N							KE
	ISTA	01	0707	0710	0724	N14	W28	6240	08	30.3	17	1B							CE
	URUM	01	0805	0810	0830	N15	W27	6240	08	30.4	25	1N			C		193	2.2	E
0009	YUNN	01	0650	0654	0702	S25	W87	6230	08	25.6	12				C				
0010	ATHN	01	1006E	1006U	1017	N13	W33	6233	08	30.0	110	SB		3	V	1006	143	1.8	
0011	HOLL	01	1522	1527	1538	N14	W35	6233	08	30.1	16	SF		3	E		12		
0012	PALE	01	1916	1916	1922	S14	E67	6246	09	6.9	6	SF		3	E		13		
0013		01	1950*	1945*	2018	N14	W38	6233	08	30.0	28	SF					15		
	HOLL	01	1926E	1945	2026	N14	W38	6233	08	30.0	600	SF		3	E		16		
	RAMY	01	1950	2004	2022	N13	W37	6233	08	30.1	32	SF		3	E		13		
	PALE	01	2000	2005	2007	N14	W39	6233	08	30.0	7	SF		3	E		16		
				01 2111		2114	No Flare Patrol												
			01 2203		2205	No Flare Patrol													
0014	HOLL	01	2221	2225	2335	N13	W39	6233	08	30.1	74	SF	C 2.2	2	E		16		F
			01 2237		2244	No Flare Patrol													
0015	YUNN	02	0002	0021	0105	N13	W48	6233	08	29.5	63	SN			C		79	1.2	
0016	YUNN	02	0020	0142	0212D	S25	W87	6230	08	26.4	112D				P				AG
0017		02	0143	0144	0152	N14	W46	6233	08	29.7	9	1N	C 3.4				103	2.3	
	LEAR	02	0143	0144	0149	N14	W45	6233	08	29.8	6	SF	C 3.4	3	E		49		
	YUNN	02	0146E	0146U	0155	N13	W47	6233	08	29.6	90	1N			P	0146	157	2.3	
0018	YUNN	02	0305	0320	0350	S18	E01	6242	09	2.2	45	SN			P		157	1.8	E
0019		02	0600	0601	0613	N11	W46	6233	08	29.9	13	SN	C 1.5				35	0.7	
	LEAR	02	0600	0601	0614	N11	W46	6233	08	29.9	14	SF	C 1.5	3	E		23		
	YUNN	02	0601E	0601U	0612	N11	W46	6233	08	29.9	11D	SN			P	0601	47	0.7	

S O L A R F L A R E S

5
Sep 90

SEPTEMBER 1990

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)
0020		02	0713*	07235	0736	N12	W46	6233	08	29.9	23	SF			82	1.9	EF	
	SVTO	02	0713	0728	0754	N13	W47	6233	08	29.8	41	SF	3	E	47		F	
	LEAR	02	0720	0723	0734	N12	W44	6233	08	30.1	14	SF	3	E	45			
	YUNN	02	0721	0725	0729	N12	W52	6233	08	29.5	8	1F		C	204	3.3	E	
	ISTA	02	0723		0733	N12	W43	6233	08	30.2	10	1M					E	
	PURP	02	0723	0727	0731	N13	W45	6233	08	30.0	8	SN		C	0727	34	0.5	E
0021		02	08375	0845	0857	N16	W48	6233	08	29.8	20	SF			16	0.2	DEL	
	KHAR	02	0837	0845U	0909	N17	W50	6233	08	29.6	32	SF	2	V	0842		DL	
	ISTA	02	0842		0851	N15	W46	6233	08	30.0	9	1F					E	
	YUNN	02	0842	0845	0852	N16	W49	6233	08	29.7	10	SN		C	16	0.2		
0022		02	08414	0848	0852	N14	E20	6244	09	3.9	11	1N			16		F	
	ISTA	02	0841		0852	N13	E15	6244	09	3.5	11	1N					F	
	SVTO	02	0845	0848	0852	N14	E26	6244	09	4.3	7	SF	3	E	16			
0023	KHAR	02	0903		0910	S11	E04	6238	09	2.7	7	SF	1	V			DH	
0024	SVTO	02	1147	1200	1204	S13	E55	6246	09	6.6	17	SF	4	E	13			
0025		02	1211	1212	1224	N12	W46	6233	08	30.1	13	SF			14		FH	
	SVTO	02	1211	1212	1218	N12	W46	6233	08	30.1	7	SF	4	E	15		H	
	RAMY	02	1211	1212	1230	N13	W45	6233	08	30.2	19	SF	2	E	14		FH	
0026	HOLL	02	1449	1554U	1600D	S13	E03	6238	09	2.8	71D	SF	1	E	16		F	
0027		02	1626	16273	1636	S14	E03	6238	09	2.9	10	SF			20		F	
	HOLL	02	1626	1627	1637	S13	E03	6238	09	2.9	11	SF	4	E	26		F	
	RAMY	02	1626	1630	1635	S15	E03	6238	09	2.9	9	SF	3	E	15			
0028	RAMY	02	1634	1634	1640	N13	W52	6233	08	29.9	6	SF	3	E	26			
0029	PALE	02	1745	1748	1753	N12	W56	6233	08	29.6	8	SF C	1.9	3	E	24		
0030		02	1852	1853	1908	N10	W52	6233	08	30.0	16	SN C	2.0		32			
	PALE	02	1852	1853	1905	N10	W53	6233	08	29.9	13	SF C	2.0	3	E	29		
	HOLL	02	1852	1853	1912	N10	W52	6233	08	30.0	20	SN C	2.0	3	E	36		
0031	HOLL	02	1908	1921	1930	S13	E03	6238	09	3.0	22	SF	3	E	17		F	
		02	2010		2041	No Flare Patrol												
		02	2101		2218	No Flare Patrol												
		02	2225		2244	No Flare Patrol												
0032		03	02196	02198	0230	N14	W53	6233	08	30.2	11	SF C	3.5		62	1.1	EF	
	URUM	03	0219E	0219	0222	N13	W53	6233	08	30.2	3D	SN		C	80	1.4	E	
	LEAR	03	0219	0219	0232	N14	W53	6233	08	30.2	13	SF C	3.5	3	E	58		F
	URUM	03	0225	0227	0236	N14	W54	6233	08	30.1	11	SF		C	48	0.8	E	
0033	URUM	03	0245	0255	0305	N16	W64	6233	08	29.4	20	1N		C	96	2.2	E	
0034		03	0346	0347	0358	N11	W59	6233	08	29.8	12	SN			32	1.2	DF	
	LEAR	03	0346	0347	0352	N10	W57	6233	08	30.0	6	SF	3	E	26		F	
	TACH	03	0347E		0405	N13	W61	6233	08	29.6	18D	SB	3	C	0347	61	1.2	D
	PALE	03	0347E	0347	0355D	N09	W60	6233	08	29.7	8D	SF	3	E	10			
0035	LEAR	03	0559	0602	0609	N15	W64	6233	08	29.5	10	SF C	1.5	3	E	33		
0036		03	07151	0719	0728	S12	W05	6238	09	2.9	13	SN C	3.0		52		DEF	
	ISTA	03	0715		0727	S10	W06	6238	09	2.8	12	SN					D	
	LEAR	03	0716	0719	0729	S14	W04	6238	09	3.0	13	SN C	3.0	4	E	52		FE
0037		03	07341	0739	0753	N14	W57	6233	08	30.1	19	SN C	2.0		45	1.2	D	
	ISTA	03	0734		0751	N14	W57	6233	08	30.1	17	1N						
	URUM	03	0734	0739	0750	N14	W57	6233	08	30.1	16	SN		C	64	1.2	D	
	LEAR	03	0735	0739	0757	N14	W57	6233	08	30.1	22	SF C	2.0	3	E	26		
0038	SVTO	03	0843E	0843U	0857D	S15	E44	6246	09	6.7	14D	SF	3	E	23			

6
Sep 90

H α SOLAR FLARES

SEPTEMBER 1990

Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	CMD	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)		
0039		03 0943	09448	1016	N15	W59	6233	08	30.0	33	1N	M 2.2			142	3.5		
	LEAR	03 0943	0944	1004D	N14	W57	6233	08	30.2	21D	1F	M 2.2	2	E	121			
	SVTO	03 0943	0947	1033	N12	W57	6233	08	30.2	50	1B	M 2.2	3	E	129			
	ATHN	03 0945E	0952	0959	N18	W62	6233	08	29.8	14D	1N		2	V	0952	175	3.5	
0040	SVTO	03 1109	1112	1143	N12	W52	6233	08	30.6	34	SF		3	E		16		
0041	RAMY	03 1146E	1203	1204	N13	W54	6233	08	30.5	18D	SF		3	E		19		
0042		03 1339	1340	1351	N14	W58	6233	08	30.3	12	SF	C 2.4			36		F	
	RAMY	03 1339	1340	1351	N15	W57	6233	08	30.3	12	SF	C 2.4	3	E	46		F	
	HOLL	03 1340E	1340U	1405D	N13	W58	6233	08	30.3	25D	SF		2	E	25			
0043		03 15223	15252	1543	S14	W17	6237	09	2.3	21	SF				33		F	
	HOLL	03 1518E	1527	1603	S13	W17	6237	09	2.3	45D	SF		3	E	32		F	
	SVTO	03 1522	1526	1532	S15	W16	6237	09	2.4	10	SF		2	E	36			
	RAMY	03 1525	1525	1534	S14	W17	6237	09	2.3	9	SF		3	E	30			
0044	HOLL	03 1723	1726	1731	N13	W73	6233	08	29.3	8	SF		3	E		28		
0045	HOLL	03 1855	1858	1902	S13	W19	6238	09	2.3	7	SF		3	E		11		
		03 1929		1936	No Flare Patrol													
0046	HOLL	03 1947E	1948U	1952	N13	W68	6233	08	29.8	5D	SF	C 4.3	3	E		27		F
		03 1955		2230	No Flare Patrol													
0047	LEAR	04 0042	0045	0105	N15	W66	6233	08	30.1	23	SF	C 7.0	3	E		48		
0048	SVTO	04 0604	0608	0624	N13	E83	6252	09	10.5	20	SF		3	E		81		
0049		04 06565	06586	0712	N10	W77	6233	08	29.6	16	SF				43		D	
	SVTO	04 0656	0658	0713	N10	W74	6233	08	29.8	17	SF		3	E	34			
	ABST	04 0701	0704	0712	N10	W80	6233	08	29.4	11	SF			C	0704	52		D
0050		04 0741*	0759*	0846	N12	W71	6233	08	30.1	65	2N	C 9.2			192	4.2	EFK	
	SVTO	04 0741	0806	0859	N12	W67	6233	08	30.4	78	2B		3	E	286		F	
	SVTO	04 0741	0821	0859	N12	W67	6233	08	30.4	78	2N			E	190		K	
	LEAR	04 0750	0804	0845	N14	W79	6233	08	29.4	55	2F	C 9.2	3	E	262		F	
	ABST	04 0757	0759	0809D	N10	W69	6233	08	30.2	12D	SF			P	0759	96		E
	ATHN	04 0808E	0809U	0819	N12	W73	6233	08	29.9	11D	1F		2	V	0809	127	4.2	
0051	SVTO	04 0831	0838	0859	N13	E82	6252	09	10.5	28	SF		3	E		56		
0052	SVTO	04 0916	0917	0923	N12	W01	6244	09	4.3	7	SF		3	E		12		
0053	SVTO	04 0923	0924	0949	S13	E10	6241	09	5.1	26	SN		3	E		27		
0054	SVTO	04 0941	0941	0956	N13	E80	6252	09	10.4	15	SF		3	E		25		
0055	SVTO	04 1004	1004	1011	N11	E82	6252	09	10.6	7	SF		3	E		22		
0056	SVTO	04 1145	1148	1151	N15	E79	6252	09	10.5	6	SF		4	E		29		
0057	SVTO	04 1216	1216	1220	N15	E78	6252	09	10.4	4	SF		4	E		20		
0058		04 13103	13151	1324	N15	E78	6252	09	10.4	14	SF				26			
	SVTO	04 1310	1316	1326	N16	E78	6252	09	10.5	16	SF		4	E	33			
	RAMY	04 1313	1315	1322	N14	E78	6252	09	10.4	9	SF		3	E	18			
0059		04 1313*	13198	1328	N14	W72	6233	08	30.2	15	SF	C 3.3			26			
	RAMY	04 1313	1319	1325	N14	W71	6233	08	30.3	12	SF	C 3.3	3	E	21			
	RAMY	04 1326	1327	1330	N14	W73	6233	08	30.1	4	SF		3	E	30			
0060		04 1424*	1424*	1527	N14	W76	6233	08	29.9	63	1F	M 1.4			86			
	HOLL	04 1424	1424	1431	N16	W81	6233	08	29.5	7	SF		3	E	38			
	RAMY	04 1426	1442U	1538	N14	W73	6233	08	30.2	72	SF		3	E	62			
	SVTO	04 1435	1448	1611	N13	W75	6233	08	30.0	96	1F		4	E	120			
	HOLL	04 1437	1449	1528D	N14	W73	6233	08	30.2	51D	1N	M 1.4	3	E	125			

H α SOLAR FLARES

7
Sep 90

SEPTEMBER 1990

Grp #	Sta	Start Day	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)		
0061	SVTO	04	1602	1605	1611	S13 W25	6238	09	2.8	9	SF	3	E		18			
0062	RAMY	04	1612	1612	1625	N12 E75	6252	09	10.3	13	SF	3	E		39			
0063	HOLL	04	2102	2115	2158D	N13 W08	6244	09	4.3	56D	SF C	2.4	3	E		37	F	
0064	RAMY	04	2107	2107	2111	N13 E70	6252	09	10.2	4	SF	3	E		22			
		04	2234		2244	No Flare Patrol												
0065	LEAR	04	2347	2349	2415	S15 E21	6246	09	6.6	28	SF C	1.4	3	E		26	F	
0066		05	0142	0149	0212	N12 E53	6249	09	9.1	30	1N C	3.0			86	2.7		
	LEAR	05	0142	0149	0203	N13 E52	6249	09	9.0	21	SF C	3.0	3	E		15		
	YUNN	05	0148E	0148U	0221	N12 E54	6249	09	9.1	33D	1N		P	0148	157	2.7		
0067	TACH	05	0313	0315	0327	N15 W82	6233	08	30.0	14	SB		3	C	0315	51	ETZ	
0068		05	0357	0401*	0544	N14 W84	6233	08	29.9	107	1N M	2.7			119		FHTZ	
	TACH	05	0357	0430	0556	N15 W80	6233	08	30.2	119	1B		3	C	0430	194	TZ	
	PALE	05	0359E	0401	0430D	N14 W85	6233	08	29.8	31D	SF		3	E		62	F	
	LEAR	05	0426E	0440	0531	N14 W87	6233	08	29.7	65D	SF M	2.7	3	E		84		
	PURP	05	0438E	0445	0510D	N13 W86	6233	08	29.8	32D	1B		C	0445	136		H	
0069	URUM	05	0415	0428	0532	N23 W55		08	31.9	77	SN			C		80	1.4	A
0070	SVTO	05	0943	0951	0954	S11 W37	6238	09	2.6	11	SF		3	E		16		
0071		05	1330I	1337	1413	S14 W36	6238	09	2.8	43	SF C	3.0				75		F
	RAMY	05	1330	1337	1415	S13 W37	6238	09	2.8	45	SF C	3.0	3	E		57		F
	SVTO	05	1331	1337U	1411	S14 W36	6238	09	2.8	40	SF		3	E		93		F
0072	RAMY	05	1540	1541	1552	S15 E12	6246	09	6.6	12	SF C	3.1	3	E		31		
		05	1634		1641	No Flare Patrol												
		05	1646		1657	No Flare Patrol												
		05	1734		1748	No Flare Patrol												
		05	1820		1828	No Flare Patrol												
		05	1900		1919	No Flare Patrol												
0073	HOLL	05	1957E	1958U	2007	N14 W90	6233	08	30.1	10D	SF C	1.4	2	E		28		
0074	HOLL	05	1957E	1959U	2008	N01 E30	6247	09	8.1	11D	SF		2	E		15		
		05	2134		2205	No Flare Patrol												
0075	ISTA	06	0752		0802	N13 E60	6252	09	10.8	10	SF							
0076		06	08142	08152	0825	S14 W26	6241	09	4.4	11	SF				48	0.6	D	
	ISTA	06	0814		0825	S13 W24	6241	09	4.5	11	SF							
	KANZ	06	0815	0815	0827	S15 W26	6241	09	4.4	12	SF		V					
	URUM	06	0816	0817	0822	S15 W27	6241	09	4.3	6	SN		C		48	0.6	D	
0077		06	11307	11327	1151	S17 W61	6237	09	1.8	21	SF C	1.5			22		F	
	KANZ	06	1126E	1126U	1149D	S17 W60	6237	09	1.9	23D	SF		V					
	RAMY	06	1130	1132	1136	S17 W62	6237	09	1.8	6	SF C	1.5	3	E		21		
	RAMY	06	1137	1139	1206	S17 W62	6237	09	1.8	29	SF		3	E		24		F
0078		06	1535*	1537*	1653	S20 E70		09	12.0	78	SF				24		F	
	HOLL	06	1535	1537	1641	S20 E72		09	12.1	66	SF		3	E		27		F
	RAMY	06	1605	1605	1705	S19 E68		09	11.8	60	SF		3	E		22		F
0079	RAMY	06	1603	1603	1607	N17 E18	6249	09	8.0	4	SF		3	E		12		
0080	HOLL	06	1729	1737	1743	S14 W33	6241	09	4.2	14	SF		4	E		10		F
0081	HOLL	06	1755	1756	1803	S14 W33	6241	09	4.2	8	SF		3	E		23		F
0082	HOLL	06	1843	1844	1852	N14 E52	6252	09	10.7	9	SF		3	E		14		F

SEPTEMBER 1990

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Area Measurement			Remarks		
								USAF					Region	Mo	Day		Time (UT)	Apparent (10-6 Disk)
0083		06	1909E	1911*	2024	S14	W32	6241	09	4.4	75D	SN			31		FK	
	HOLL	06	1909E	1911	2024	S14	W33	6241	09	4.3	75D	SF	3	E	25		F	
	HOLL	06	1909E	1947	2024	S14	W33	6241	09	4.3	75D	SB		E	50		K	
	RAMY	06	1947E	1947U	1949D	S14	W30	6241	09	4.5	2D	SF	2	E	18		F	
0084	HOLL	06	1911E	1912U	1916	S13	W53	6238	09	2.8	5D	SF	3	E	21			
0085	HOLL	06	2052	2118	2125	S14	W33	6241	09	4.4	33	SF	3	E	16			
0086		07	0030	0032	0051	S18	W06	6246	09	6.6	21	SF			33		FU	
	PALE	07	0030	0032	0051	S16	W05	6246	09	6.6	21	SF	3	E	27		F	
	HOLL	07	0040E	0045U	0055D	S19	W06	6246	09	6.6	15D	SF	1	E	39		UF	
		07	0125		0128	No Flare Patrol												
0087		07	0512*	0529*	0628	S16	W38	6241	09	4.3	76	1N			184	3.2	EK	
	TACH	07	0512	0544	0615	S18	W32	6241	09	4.8	63	2B	3	C	0544	400	5.2	E
	PURP	07	0516E	0535U	0619	S14	W38	6241	09	4.3	63D	SN		C	0535	88	1.3	
	LEAR	07	0524	0529	0639	S15	W42	6241	09	4.0	75	1F		E	105			K
	LEAR	07	0524	0549	0639	S15	W42	6241	09	4.0	75	1F	3	E	142			
0088	LEAR	07	0753	0756	0805	S13	W38	6241	09	4.5	12	SF	3	E	18			
0089		07	1153	1201	1241	S15	W12	6246	09	6.6	48	1N C 3.0			108		FU	
	RAMY	07	1153	1201	1239	S15	W13	6246	09	6.5	46	SN	3	E	89		UF	
	SVTO	07	1153	1201	1243	S15	W11	6246	09	6.7	50	1F C 3.0	3	E	127		U	
0090		07	1356	13572	1410	S14	W39	6241	09	4.6	14	SF			24			
	SVTO	07	1356	1357	1412	S15	W39	6241	09	4.6	16	SF	3	E	25			
	HOLL	07	1356	1359	1409	S14	W39	6241	09	4.6	13	SF	3	E	23			
0091		07	1521	1522	1527	N20	E75	6254	09	13.4	6	SF B 9.6			45		H	
	RAMY	07	1521	1522	1526	N19	E73	6254	09	13.2	5	SF	3	E	30		H	
	HOLL	07	1521	1522	1528	N19	E76	6254	09	13.4	7	SF B 9.6	4	E	55			
	SVTO	07	1521	1522	1528	N21	E76	6254	09	13.5	7	SF	3	E	51			
0092	HOLL	07	1656	1658	1704D	N15	E21	6249	09	9.3	8D	SF	3	E	24			
0093	HOLL	07	1715	1743	1753	S14	W44	6241	09	4.4	38	SF	3	E	25			
0094		07	17444	17458	1806	S18	W14	6246	09	6.7	22	SF			16		F	
	HOLL	07	1744	1745	1806	S17	W14	6246	09	6.7	22	SF	4	E	21			
	PALE	07	1748	1753	1807	S18	W15	6246	09	6.6	19	SF	4	E	11		F	
0095	HOLL	07	1745	1747	1800	N18	E68	6254	09	12.9	15	SF	3	E	13			
		07	2018		2025	No Flare Patrol												
		07	2029		2039	No Flare Patrol												
		07	2043		2050	No Flare Patrol												
		07	2149		2242	No Flare Patrol												
0096		07	2308E	2308U	2331	N10	E40	6252	09	11.0	23D	SF			28			
	LEAR	07	2308E	2308U	2331	N09	E40	6252	09	11.0	23D	SF	2	E	30			
	PALE	07	2308E	2309U	2356D	N10	E40	6252	09	11.0	48D	SF	3	E	27			
0097	LEAR	07	2331	2332	2344	N18	E67	6254	09	13.1	13	SF	3	E	13			
0098		08	1046	1057	1132	S15	W52	6241	09	4.5	46	1F C 3.1			108			
	KANZ	08	1046	1057	1122D	S15	W51	6241	09	4.6	36D	1F		V				
	RAMY	08	1055E	1058U	1132	S15	W52	6241	09	4.5	37D	1F C 3.1	2	E	108			
0099		08	1136	1138	1150	N16	E58	6254	09	12.9	14	1N C 4.0			64	2.2	H	
	ATHN	08	1131E	1132U	1135D	N15	E60	6254	09	13.0	4D	1N	2	V	1132	111	2.2	
	RAMY	08	1136	1138	1150	N18	E57	6254	09	12.8	14	SF C 4.0	2	E	18		H	
0100		08	1418	1419	1424	N19	E57	6254	09	12.9	6	SF			26		H	
	SVTO	08	1418	1419	1423	N20	E58	6254	09	13.0	5	SF	3	E	30			
	RAMY	08	1418	1419	1425	N18	E56	6254	09	12.9	7	SF	3	E	22		H	

H α SOLAR FLARES

9
Sep 90

SEPTEMBER 1990

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/		Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
								USAF Region	CMP Mo Day						Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0101		08	17075	17134	1732	N18	E56	6254	09	13.0	25	SF				18		F	
	HOLL	08	1707	1713	1739	N18	E55	6254	09	12.9	32	SF	3	E		18		F	
	PALE	08	1712	1717	1724	N19	E58	6254	09	13.1	12	SF	3	E		17			
0102	PALE	08	1902	1903	1909	N18	E56	6254	09	13.0	7	SF C	1.0	3	E		28		
0103	HOLL	08	2031	2033	2038	N16	E54	6254	09	12.9	7	SF		3	E		26		H
0104		08	2209	2216	2339	N07	E47	6253	09	12.4	90	1N				104		FU	
	HOLL	08	2209	2216	2339	N06	E48	6253	09	12.5	90	1N	3	E		156		U	
	PALE	08	2230E		2301D	N08	E46	6253	09	12.4	31D	SF	3	E		53		F	
0105	HOLL	08	2215	2223	2238	N17	E53	6254	09	12.9	23	SF C	4.8	3	E		36		
0106	HOLL	08	2342	2343	2347	N17	E52	6254	09	12.9	5	SF		3	E		24		
0107	PALE	09	0352	0404	0411	S16	W63	6241	09	4.4	19	1F		3	E		114		
0108		09	0600	06034	0614	S14	W61	6241	09	4.6	14	SF				43		E	
	SVTO	09	0545E	0607	0617	S15	W59	6241	09	4.8	32D	SF	3	E		25			
	KANZ	09	0558E	0604	0619	S14	W61	6241	09	4.6	21D	SF		V					
	LEAR	09	0600	0603	0610	S14	W62	6241	09	4.6	10	SF	3	E		41			
	URUM	09	0600	0603	0611	S13	W62	6241	09	4.6	11	SN		C		64		E	
0109		09	06402	0642	0646	N20	W35	6255	09	6.6	6	SF				84	1.1	D	
	PEKG	09	0640	0642	0645	N20	W36	6255	09	6.5	5	SF		P	0642	84	1.1	D	
	KANZ	09	0642	0642	0646	N20	W34	6255	09	6.7	4	SF		V					
0110		09	08063	08067	0820	N12	W66	6244	09	4.4	14	SF				14			
	SVTO	09	0806	0806	0824	N11	W66	6244	09	4.4	18	SF	3	E		14			
	KANZ	09	0809	0813	0817	N13	W65	6244	09	4.4	8	SF		V					
0111		09	0828	08287	0837	N20	W36	6255	09	6.6	9	SF				20	0.3		
	KANZ	09	0828	0828	0836	N20	W35	6255	09	6.7	8	SF		V					
	SVTO	09	0829E	0830	0834	N19	W36	6255	09	6.6	5D	SF	2	E		16			
	YUNN	09	0829E	0835	0840	N20	W36	6255	09	6.6	11D	SN		P		24	0.3		
0112		09	11052	11062	1117	S15	W69	6241	09	4.2	12	SF				32			
	SVTO	09	1105	1108	1118	S16	W71	6241	09	4.1	13	SF	3	E		42			
	RAMY	09	1106	1106	1112	S15	W68	6241	09	4.3	6	SF	3	E		23			
	KANZ	09	1107	1107	1121	S14	W68	6241	09	4.3	14	SF		C					
0113		09	1327*	1327*	1342	S16	W70	6241	09	4.2	15	SF				14			
	SVTO	09	1327	1327	1337	S16	W72	6241	09	4.1	10	SF	3	E		16			
	SVTO	09	1342	1342	1347	S16	W68	6241	09	4.4	5	SF	3	E		13			
0114		09	1346*	1340*	1408	N05	W14	6247	09	8.5	22	SF				27		F	
	SVTO	09	1340E	1340	1407	N05	W17	6247	09	8.3	27D	SF	3	E		29		F	
	KANZ	09	1346	1346	1356	N07	W12	6247	09	8.7	10	SF		C					
	HOLL	09	1358	1407	1422	N04	W12	6247	09	8.7	24	SF	3	E		25		F	
0115	HOLL	09	1358	1359	1405	N20	W37	6255	09	6.7	7	SF	3	E		15		F	
0116	HOLL	09	1626	1655	1707	S14	W68	6241	09	4.5	41	SF	3	E		23		F	
0117	HOLL	09	2004	2009	2117	N05	W16	6247	09	8.6	73	SF	3	E		29		F	
0118	HOLL	09	2243	2245	2301	N07	E31	6253	09	12.3	18	SF	3	E		44			
0119	YUNN	10	0716E	0716U	0727	N15	E37	6254	09	13.1	11D	SN		P	0716	16	0.2	E	
0120	YUNN	10	0720	0741	0802	N14	E88	6263	09	16.9	42			C				AG	
0121	SVTO	10	1307	1308	1312	N19	W48	6255	09	6.9	5	SF C	1.2	3	E		22		
0122	HOLL	10	1750	1811	1822	S11	E56	6257	09	14.9	32	SF	3	E		17			
0123	HOLL	10	1752	1754	1807	S18	E47	6265	09	14.3	15	SF	3	E		18			

10
Sep 90

H α SOLAR FLARES

SEPTEMBER 1990

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	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)		
0124	LEAR	11	0018	0019	0028	S23	E34 6271A	09	13.6	10	SF	C	1.7	3	E	18			
0125		11	0225*	03041	0317D	N22	E88 6268	09	17.9	52D	SN					30		A	
	YUNN	11	0225	0305	0307D	N21	E87 6268	09	17.8	42D	SN			P		31		A	
	PALE	11	0303	0304	0317D	N23	E89 6268	09	18.0	14D	SF			3	E	28			
0126	TACH	11	0335	0338	0349	S11	E53 6257	09	15.1	14	1B			2	C	0338	117	2.1	D
0127	LEAR	11	0423E	0426	0445	N20	E93 6268	09	18.3	22D	1F			3	E		174		
0128		11	0446*	0512*	0651	N21	E90 6268	09	18.1	125	SN	C	5.2			72		AD	
	LEAR	11	0446	0512	0557	N20	E92 6268	09	18.2	71	SF	C	5.2	3	E		74		
	YUNN	11	0530E	0548U	0736	N22	E87 6268	09	17.9	126D	SN			P	0548	79		A	
	PEKG	11	0600	0630	0700	N21	E90 6268	09	18.1	60	1N			P	0630	63		D	
0129	YUNN	11	0548E	0548U	0618U	S16	E88 6267	09	17.9	30U	SN			P	0548	31		AG	
0130	SVTO	11	0819	0824	0828	N22	E88 6268	09	18.1	9	SF			2	E		33		
0131	SVTO	11	0953	0955	1001	N23	E89 6268	09	18.3	8	SF			3	E		19		
0132	SVTO	11	1008	1009	1016	N23	E87 6268	09	18.1	8	SF			3	E		13		
0133	SVTO	11	1011	1011	1016	S10	E57 6257	09	15.7	5	SF			3	E		18		
0134	HTPR	11	1121E	1152	1236D	N22	E85 6268	09	18.0	75D	SF			C	1152	50		A	
0135	HTPR	11	1248E	1509	1600D	N22	E85 6268	09	18.1	192D	SF			C	1509	40		A	
0136	PALE	11	1710	1717	1726	N23	E82 6268	09	18.0	16	SF			3	E		51		
0137	HOLL	11	1729	1729	1738	S12	E80 6267	09	17.7	9	SF			3	E		36		
0138	HOLL	11	1732	1734	1742	N08	W12 6252	09	10.8	10	SF			3	E		11		
0139	RAMY	11	1838	1839U	1859	N21	E80 6268	09	17.9	21	SF			3	E		48		
0140		11	1841	1842	1846	S19	E23 6262	09	13.5	5	SF					19			
	PALE	11	1841	1842	1844	S16	E21 6262	09	13.4	3	SF			3	E		11		
	RAMY	11	1841	1842	1845	S19	E23 6262	09	13.5	4	SF			3	E		12		
	HOLL	11	1844E	1844U	1849	S21	E24 6262	09	13.6	5D	SF			3	E		34		
0141	HOLL	11	2031	2033	2240D	N13	E67 6263	09	16.9	129D	SF			3	E		39		
0142	HOLL	11	2200	2201	2208	N16	E17 6254	09	13.2	8	SF			4	E		29		
0143	HOLL	11	2341E	2341U	2345	S13	E74 6267	09	17.6	4D	SF			2	E		18		
0144	HOLL	12	0037E	0038U	0041	S17	E16 6262	09	13.2	4D	SF			2	E		17		H
0145		12	00543	01032	0224	N05	W47 6247	09	8.5	90	2N	M	1.5			399	3.8	EFU	
	PEKG	12	0054	0103	0137	N05	W48 6247	09	8.4	43	3N			C	0105	925	14.0	EF	
	HOLL	12	0056E	0058U	0101D	N07	W45 6247	09	8.7	5D	SN			1	E		87		F
	PALE	12	0057	0113U	0233	N06	W45 6247	09	8.7	96	2N	M	1.5	3	E		474		UF
	YUNN	12	0100E	0105	0232	N07	W46 6247	09	8.6	92D	1N			P		189	2.8	F	
	LEAR	12	0102E	0102U	0229	N05	W46 6247	09	8.6	87D	2N			3	E		417		FE
	PURP	12	0102E	0102U	0245	N04	W50 6247	09	8.3	103D	2B			P	0102	340	5.5		
	MITK	12	0111E		0230	N03	W47 6247	09	8.5	79D	2N			C	0111	360	5.4	F	
0146	LEAR	12	0320	0325	0330	N21	E79 6268	09	18.2	10	SF			3	E		15		
0147		12	0404*	0415	0420	N18	E62 6257F	09	16.9	16	SF					60	2.0	D	
	PEKG	12	0404	0415	0420	N17	E64 6257F	09	17.0	16	SF			P	0415	84	2.0	D	
	PALE	12	0415	0415	0432D	N19	E59 6257F	09	16.7	17D	SF			3	E		35		
0148	HTPR	12	1128	1133	1205	S10	E40 6257	09	15.5	37	SF			C	1133	20	0.3		

SEPTEMBER 1990

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/			Dur (Min)	Imp Opt	Xray	Obs See	Area Measurement			Remarks	
						Lat	Cmd	Region					Mo	Day	Time (UT)		Apparent (10-6 Disk)
0149		12	1630*	1715*	1754	N06	W56	6247	09	8.5	84	SF			46		FK
	HOLL	12	1630	1718	1800	N06	W55	6247	09	8.6	90	1F	3	E	113		F
	RAMY	12	1710	1715	1755	N06	W56	6247	09	8.5	45	SF		E	21		K
	RAMY	12	1710	1736	1755	N06	W56	6247	09	8.5	45	SF	3	E	40		F
	PALE	12	1717	1735	1745	N06	W56	6247	09	8.5	28	SF	4	E	10		
0150		12	1848	1905*	2000	S29	E58	6266	09	17.3	72	SN C 6.6			77		EFK
	HOLL	12	1848	1905	2005	S29	E58	6266	09	17.3	77	1N C 6.6	4	E	144		FE
	HOLL	12	1848	1938	2005	S29	E58	6266	09	17.3	77	SB		E	22		K
	PALE	12	1910E	1917U	1949	S28	E58	6266	09	17.3	39D	SF	4	E	65		F
0151		12	2104	2107	2122	S28	E58	6266	09	17.4	18	SF			21		
	HOLL	12	2104	2107	2125	S28	E58	6266	09	17.4	21	SF	3	E	24		
	RAMY	12	2111E	2112U	2120	S28	E59	6266	09	17.5	9D	SF	2	E	18		
0152	HOLL	12	2230	2232	2242	S09	E33	6257	09	15.4	12	SF	3	E	20		
0153		12	2257E	2301Z	2322	N24	E14	6264A	09	14.0	25D	SF			50		F
	HOLL	12	2257E	2257U	2324	N24	E15	6264A	09	14.1	27D	SF	2	E	79		F
	LEAR	12	2259E	2301	2319	N22	E13	6264A	09	13.9	20D	SF	2	E	34		F
	PALE	12	2301E	2303	2323	N25	E15	6264A	09	14.1	22D	SF	3	E	38		
0154		12	2348*	2351*	2432	N13	E53	6263	09	17.0	44	SF C 1.7			42		F
	LEAR	12	2348	2351	2355	N09	E52	6263	09	16.9	7	SF	3	E	18		
	HOLL	12	2349	2351	2412	N13	E53	6263	09	17.0	23	SF	2	E	22		
	HOLL	13	0011	0027	0046	N15	E51	6263	09	16.9	35	SF	2	E	81		F
	LEAR	13	0014	0028	0104	N14	E53	6263	09	17.0	50	SF C 1.7	3	E	63		F
	PALE	13	0027	0029	0044	N13	E54	6263	09	17.1	17	SF	3	E	24		
0155	PALE	13	0138	0138	0148	S09	E33	6257	09	15.5	10	SF	3	E	11		
0156		13	0220I	0221I	0230	N11	E51	6263	09	16.9	10	SF C 2.4			36		F
	PALE	13	0220	0222	0228	N13	E51	6263	09	16.9	8	SF	3	E	20		
	LEAR	13	0221	0221	0232	N09	E51	6263	09	16.9	11	SF C 2.4	3	E	53		F
0157		13	0333Z	0336Z	0348	N13	E51	6263	09	17.0	15	SN C 1.3			111	3.0	CEF
	LEAR	13	0333	0336	0350	N13	E52	6263	09	17.1	17	SF	3	E	94		F
	TACH	13	0334	0340	0348	N13	E50	6263	09	16.9	14	1B	3	C	194	3.0	EC
	PALE	13	0335	0341	0346	N14	E50	6263	09	16.9	11	SF C 1.3	3	E	44		F
0158		13	0643I	0646Z	0700	N12	E50	6263	09	17.0	17	SF			42	0.9	F
	HTPR	13	0643	0646	0700	N12	E50	6263	09	17.0	17	SF		C	60	0.9	
	KANZ	13	0644	0647	0659	N12	E50	6263	09	17.0	15	SF		C			
	LEAR	13	0644	0648	0701	N12	E50	6263	09	17.0	17	SF	3	E	23		F
0159		13	0834I	0835I	0854	S10	E29	6257	09	15.5	20	SF			28		
	LEAR	13	0834	0836	0900	S10	E29	6257	09	15.5	26	SF	3	E	28		
	KANZ	13	0835	0835	0847	S09	E29	6257	09	15.5	12	SF		V			
0160	KANZ	13	1052	1052	1056	N02	W70	6247	09	8.2	4	SF		V			
0161		13	1405	1409I	1450	N14	E44	6263	09	16.9	45	1F C 1.8			130		F
	SVTO	13	1405	1409	1457	N14	E45	6263	09	17.0	52	1F	3	E	174		F
	RAMY	13	1405	1410	1447	N14	E44	6263	09	16.9	42	SF	3	E	89		F
	HOLL	13	1412E	1412U	1446	N14	E43	6263	09	16.8	34D	1F C 1.8	3	E	126		F
0162	RAMY	13	1443E	1445U	1505	S14	E77	6272	09	19.4	22D	SF	2	E	20		H
0163	HOLL	13	1450	1458	1502	S27	E48	6266	09	17.3	12	SF	3	E	10		
0164	HOLL	13	1547	1625	1637	S29	E49	6266	09	17.5	50	SF	3	E	18		
0165	HOLL	13	1623	1625	1632	N24	E57	6268	09	18.1	9	SF	3	E	29		
0166		13	1735I	1745*	1853	S28	E48	6266	09	17.5	78	SF C 2.6			61		F
	HOLL	13	1735	1806	1850	S29	E48	6266	09	17.5	75	SF C 2.6	3	E	70		F
	PALE	13	1736	1745	1856	S28	E49	6266	09	17.6	80	SF	3	E	52		
0167	HOLL	13	1929	1929	1939	N11	W22	6253	09	12.1	10	SF	3	E	12		F

12
Sep 90

Hq SOLAR FLARES

SEPTEMBER 1990

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Area Measurement			Remarks				
								USAF Region					Mo	Day	(Min)		Opt	Xray	See	Type
0168	HOLL	13	2152	2155	2206	N11	W23	6253	09	12.2	14	SF	3	E		12		F		
		13	2223		2231	No Flare Patrol														
0169		13	22399	2239*	2257	S10	E20	6257	09	15.4	18	SF	C	1.4		27		F		
	HOLL	13	2239	2239	2258	S10	E20	6257	09	15.4	19	SF	C	1.4	3	E	43		F	
	PALE	13	2248	2250	2256	S09	E21	6257	09	15.5	8	SF			3	E	11			
0170		13	2303*	23251	2345	S10	E20	6257	09	15.5	42	SF				47		F		
	LEAR	13	2303	2326	2350	S09	E21	6257	09	15.5	47	SF			3	E	56		F	
	HOLL	13	2322	2326	2347	S10	E19	6257	09	15.4	25	SF			3	E	60		F	
	PALE	13	2324	2325	2337	S10	E20	6257	09	15.5	13	SF			3	E	24			
0171		13	23523	2356*	2409	S30	E46	6266	09	17.6	17	SF				16		F		
	LEAR	13	2352	2407	2414	S30	E47	6266	09	17.7	22	SF			3	E	15			
	HOLL	13	2355	2356	2404	S29	E45	6266	09	17.5	9	SF			3	E	18		F	
0172		14	00533	00571	0118	S10	E18	6257	09	15.4	25	SF	C	1.6		74		F		
	LEAR	14	0053	0057	0125	S10	E18	6257	09	15.4	32	SF	C	1.6	3	E	89		F	
	PALE	14	0056	0058	0110	S09	E19	6257	09	15.5	14	SF	C	1.6	3	E	60		F	
0173		14	02206	02261	0247	S10	E18	6257	09	15.4	27	SF				34		F		
	LEAR	14	0220	0227	0256	S10	E17	6257	09	15.4	36	SF			3	E	43			
	PALE	14	0226	0226	0238	S10	E18	6257	09	15.4	12	SF			3	E	26		F	
0174	TACH	14	0400		0411D	S09	E13	6257	09	15.1	11D	SB			2	C	0411	143	1.6	D
0175		14	0410	04123	0446	S30	E44	6266	09	17.6	36	1N	M	1.3		185		4.0	EF	
	LEAR	14	0410	0412	0501	S29	E43	6266	09	17.5	51	1F	M	1.3	3	E	160		FE	
	PEKG	14	0410	0415	0432	S30	E45	6266	09	17.7	22	1N				P	0415	210	4.0	E
0176	LEAR	14	0532	0536	0542	S13	E49	6267	09	17.9	10	SF			3	E	23			
0177	LEAR	14	0535	0537	0544	N17	E71	6269	09	19.6	9	SF			3	E	22			
0178		14	0806	08091	0824	N14	E35	6263	09	17.0	18	SF				27				
	SVTO	14	0806	0809	0827	N13	E35	6263	09	17.0	21	SF			3	E	27			
	KANZ	14	0806	0810	0821	N14	E35	6263	09	17.0	15	SF				V				
0179		14	08073	08082	0826	S12	E18	6257	09	15.7	19	SF				22				
	SVTO	14	0807	0808	0824	S13	E18	6257	09	15.7	17	SF			3	E	22			
	KANZ	14	0810	0810	0827	S12	E18	6257	09	15.7	17	SF				V				
0180	HTPR	14	0915	0928	0940	S18	E85	6275	09	20.8	25	SF				C	0928	40		A
0181		14	09411	09441	0952	N14	E34	6263	09	17.0	11	SF				25				
	KANZ	14	0941	0944	0951	N14	E33	6263	09	16.9	10	SF				V				
	SVTO	14	0942	0945	0952	N13	E34	6263	09	17.0	10	SF			3	E	25			
0182	HTPR	14	0956	1000	1010	S18	E85	6275	09	20.9	14	1N				C	1000	60		A
0183		14	1006*	10191	1024	N23	E49	6268	09	18.2	18	SF				52		0.8		
	HTPR	14	1006	1019	1025	N23	E51	6268	09	18.3	19	SF				C	1019	50	0.8	
	SVTO	14	1006	1020	1026	N23	E48	6268	09	18.1	20	SF			4	E	53			
	KANZ	14	1016	1020	1022	N24	E48	6268	09	18.1	6	SF				V				
0184		14	11136	1123	1142	N18	E64	6269	09	19.3	29	SF	C	1.8		69				
	SVTO	14	1113	1123	1146	N18	E64	6269	09	19.3	33	SF	C	1.8	4	E	69			
	KANZ	14	1119	1123	1137	N18	E65	6269	09	19.4	18	SF				V				
0185		14	12552	12561	1312	S10	E12	6257	09	15.4	17	1F	C	3.1		140		EF		
	SVTO	14	1255	1257	1316	S10	E13	6257	09	15.5	21	1F	C	3.1	4	E	180			
	RAMY	14	1256	1256	1307	S10	E13	6257	09	15.5	11	1F			2	E	100		FE	
	KANZ	14	1257	1257	1313	S10	E11	6257	09	15.4	16	1F				V				
0186		14	13272	13292	1342	N09	E30	6263	09	16.8	15	1F				116		H		
	SVTO	14	1327	1331	1340	N08	E29	6263	09	16.7	13	1F			4	E	124			
	RAMY	14	1328	1331	1338	N10	E32	6263	09	17.0	10	1F			3	E	109		H	
	KANZ	14	1329	1329	1348	N08	E29	6263	09	16.7	19	1F				V				

14
Sep 90

H α SOLAR FLARES

SEPTEMBER 1990

Grp #	Sta	Start Day (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)			
0204	15	1835	1841	1912	S30	E22	6266	09 17.5	37	SF				29				
	HOLL	15	1835	1841	1912	S30	E23	6266	09 17.6	37	SF	3	E	40				
	PALE	15	1835E	1905U	1905D	S29	E22	6266	09 17.5	30D	SF	3	E	18				
	15	1922		1939	No Flare Patrol													
0205	15	2349	2347B	2406	S18	E10	6267	09 16.7	17	SF				86	1.0	DEIJ		
	VORO	15	2343E	2347	2406	S19	E07	6267	09 16.5	23D	SF	2	C	2347	81	0.9	EIJ	
	VORO	15	2349	2355	2406	S17	E14	6267	09 17.0	17	SF	2	C	2355	90	1.0	DIJ	
0206	PALE	16	0038	0040	0051	S12	W09	6257	09 15.3	13	SF C	1.3	4	E	43		F	
0207	VORO	16	0041	0045	0102	S13	E13	6267	09 17.0	21	SF		2	C	0045	72	0.8	DHIJ
0208	RAMY	16	1337	1338	1341	S12	W13	6257	09 15.6	4	SF		3	E	18			
0209	RAMY	16	1341	1342	1349	S15	E51	6272	09 20.4	8	SF		3	E	22			
0210	RAMY	16	1417	1424	1445	S11	W15	6257	09 15.5	28	1F C	2.4	3	E	100		F	
		16	1619		1635	No Flare Patrol												
0211	HOLL	16	1643	1645	1703	N15	E04	6263A	09 17.0	20	SF		3	E	67		F	
0212	16	1649	16551	1712	N10	W60	6253	09 12.2	23	1F C	1.5			113		F		
	PALE	16	1649	1655	1712	N10	W60	6253	09 12.2	23	SF C	1.5	3	E	50		F	
	HOLL	16	1649	1656	1712	N10	W61	6253	09 12.1	23	1F C	1.5	3	E	176		F	
0213	HOLL	16	1809	1814	1910	N10	W59	6253	09 12.3	61	SF C	2.1	3	E	45		F	
0214	16	1903	1907	1924	S12	E04	6267	09 17.1	21	SF				33		F		
	PALE	16	1903	1907	1936D	S11	E04	6267	09 17.1	33D	SF		3	E	26		F	
	HOLL	16	1904E	1904U	1924	S12	E03	6267	09 17.0	20D	SF		3	E	40			
0215	HOLL	16	2133	2136	2140D	S28	E04	6266	09 17.2	7D	SF		2	E	23			
		16	2141		2234	No Flare Patrol												
0216	17	0314	03152	0322	S14	E42	6272	09 20.3	8	SN C	2.1			62	1.2	DF		
	PEKG	17	0314	0315	0320	S14	E43	6272	09 20.4	6	SN		P	0315	84	1.2	D	
	LEAR	17	0314	0317	0323	S15	E42	6272	09 20.3	9	SF C	2.1	3	E	39		F	
0217	TACH	17	0337	0339	0400	S12	W02	6267	09 17.0	23	SB		2	C	0339	71	0.8	E
0218	17	05465	05504	0600	S14	E39	6272	09 20.2	14	1N M	1.0			136	1.9	DEFZ		
	TACH	17	0546	0550	0559	S13	E40	6272	09 20.2	13	SB		2	C	0550	46	0.7	D
	ATHN	17	0550E	0553	0558	S14	E35	6272	09 19.9	8D	1N		3	V	0553	191	2.6	
	LEAR	17	0550	0553	0601	S15	E41	6272	09 20.3	11	1N M	1.0	3	E	134		ZF	
	ABST	17	0551	0554	0603	S15	E40	6272	09 20.3	12	1N		C	0554	175	2.5	E	
0219	SVTO	17	0654	0754	0840	S22	E47	6275	09 20.9	106	SF C	4.1	4	E	82		F	
0220	17	0708*	07353	0759	S19	E49	6275	09 21.0	51	1N				108	2.2	EF		
	ISTA	17	0708	0735	0801	S18	E52	6275	09 21.2	53	1B						E	
	LEAR	17	0728	0738	0803	S17	E48	6275	09 20.9	35	SF		3	E	68		F	
	ABST	17	0730	0736	0752	S21	E47	6275	09 20.9	22	1N		C	0736	131	2.2	E	
	PEKG	17	0735E	0737	0740D	S19	E49	6275	09 21.0	5D	1B		P	0737	126	2.2	E	
0221	KANZ	17	1309	1309	1317	S11	W06	6267	09 17.1	8	SF		V					
0222	17	1333	13448	1414	S14	E34	6272	09 20.1	41	SB M	1.3			74		FHK		
	HOLL	17	1319E	1345	1423	S15	E30	6272	09 19.8	64D	SB M	1.3	3	E	52		FH	
	RAMY	17	1333	1344	1410	S14	E35	6272	09 20.2	37	1B		3	E	130		FH	
	KANZ	17	1333	1345	1412	S13	E37	6272	09 20.3	39	SN		V					
	RAMY	17	1333	1352	1410	S14	E35	6272	09 20.2	37	1B		E		81		K	
	SVTO	17	1353E	1354U	1421D	S15	E34	6272	09 20.1	28D	SB		2	E	31		H	
0223	HOLL	17	1500	1503	1539	S31	E00	6266	09 17.6	39	SF		3	E	19			

H α SOLAR FLARES

15
Sep 90

SEPTEMBER 1990

Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	NOAA/		Dur (Min)	Imp Opt	Xray	Obs See	Area Measurement			Remarks	
						USAF CMD Region	CHP Mo Day					Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0224		17 1504	1505	1512	S18 W64	6262	09 12.7	8	SF				28			
	RAMY	17 1504	1505	1512	S19 W68	6262	09 12.4	8	SF		3	E	29			
	HOLL	17 1505	1505	1512	S18 W61	6262	09 13.0	7	SF		3	E	26			
0225	HOLL	17 1527	1528	1537	S20 E48	6275	09 21.3	10	SF		3	E	13			
0226		17 1616	16286	1724	S27 W03	6266	09 17.4	68	SF C 1.6				50		FH	
	HOLL	17 1616	1628	1719	S27 W03	6266	09 17.4	63	SF		3	E	73		F	
	RAMY	17 1616	1634	1728	S27 W03	6266	09 17.4	72	SF C 1.6		3	E	44		FH	
	PALE	17 1701E	1701U	1739D	S27 W04	6266	09 17.4	38D	SF		4	E	33		F	
0227		17 1642	1643	1658	S16 E35	6272	09 20.3	16	SF C 1.6				17		FH	
	RAMY	17 1642	1643	1653	S16 E35	6272	09 20.3	11	SF C 1.6		3	E	16		FH	
	HOLL	17 1642	1643	1702	S16 E35	6272	09 20.3	20	SF C 1.6		3	E	18			
0228		17 1710	17136	1725	S17 W62	6262	09 13.0	15	SF				14			
	HOLL	17 1710	1719	1725	S17 W61	6262	09 13.1	15	SF		3	E	11			
	PALE	17 1711	1713	1739D	S17 W62	6262	09 13.0	28D	SF		4	E	18			
0229		17 1750	1751	1825	S14 E34	6272	09 20.3	35	SF				30		F	
	RAMY	17 1750	1751	1818	S15 E35	6272	09 20.4	28	SF		3	E	23			
	PALE	17 1751	1751	1825	S13 E36	6272	09 20.5	34	SF		4	E	35		F	
	HOLL	17 1751	1751	1831	S15 E31	6272	09 20.1	40	SF		4	E	33		F	
0230		17 1802*	1802*	1836	S18 W62	6262	09 13.0	34	SF				26		H	
	PALE	17 1800E	1802	1839	S18 W63	6262	09 12.9	39D	SF		4	E	25		H	
	HOLL	17 1802	1802	1816	S18 W62	6262	09 13.0	14	SF		3	E	18		H	
	HOLL	17 1825	1830	1854	S17 W61	6262	09 13.1	29	SF		3	E	34			
0231	PALE	17 1827	1828	1834	N17 E21	6269	09 19.4	7	SF		4	E	18			
0232		17 1845	18492	1934	S14 E33	6272	09 20.3	49	1B C 6.5				111		FH	
	RAMY	17 1845	1849	1923	S14 E33	6272	09 20.3	38	1B C 6.5		4	E	126		F	
	PALE	17 1846	1906U	1906D	S14 E35	6272	09 20.4	20D	SB		4	E	63		F	
	HOLL	17 1848E	1851	1944	S14 E31	6272	09 20.1	56D	1B		3	E	144		FH	
0233	HOLL	17 1857	1904	1937	S18 W62	6262	09 13.1	40	SF		3	E	25			
		17 2051		2054	No Flare Patrol											
0234	HOLL	17 2109	2111	2127	S30 W04	6266	09 17.6	18	SF C 1.3		3	E	28		F	
0235	HOLL	17 2137	2138	2144	N19 W14	6257F	09 16.8	7	SF		3	E	15			
0236	HOLL	17 2140	2156	2216	S15 E29	6272	09 20.1	36	1B M 5.3		4	E	218		FH	
0237	HOLL	17 2308	2310	2320	S15 E32	6272	09 20.4	12	SF		4	E	16			
0238		18 0252	02562	0324	S16 E36	6272	09 20.8	32	SN				56	1.2	DF	
	LEAR	18 0252	0258	0319	S16 E36	6272	09 20.8	27	SF		3	E	27		F	
	PEKG	18 0254	0256	0330	S16 E36	6272	09 20.8	36	SN		P	0256	84	1.2	D	
0239	TACH	18 0336	0340	0349	S12 W13	6267	09 17.2	13	SB		2	C	0340	128	1.4	F
0240	LEAR	18 0404	0404	0409	S26 E79	6278	09 24.3	5	SF		3	E	25			
0241		18 0735	0743	0802	S15 W05	6267	09 17.9	27	SF				54	0.7	EF	
	LEAR	18 0735	0743	0804	S15 W05	6267	09 17.9	29	SF		3	E	39		F	
	HTPR	18 0736E	0743	0805	S15 W08	6267	09 17.7	29D	SF		C	0743	70	0.7		
	ISTA	18 0743E		0757	S15 W02	6267	09 18.2	14D	SF						E	
0242		18 0804	08081	0820	S13 E26	6272	09 20.3	16	SF				23	0.4	E	
	HTPR	18 0804	0809	0820	S13 E23	6272	09 20.1	16	SF		C	0809	30	0.4		
	LEAR	18 0805	0808	0821	S14 E26	6272	09 20.3	16	SF		3	E	16			
	ISTA	18 0810		0819	S13 E29	6272	09 20.5	9	SN						E	
0243	HTPR	18 0910	0920	0925	S13 E23	6272	09 20.1	15	SF		C	0920	50	0.6		

16
Sep 90

H α SOLAR FLARES

SEPTEMBER 1990

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)	
0244		18	0937	0937	0948	S14 E24	6272	09 20.2	11	1N	C 6.6				122	1.8	H
	LEAR	18	0937	0937	0946	S14 E25	6272	09 20.3	9	1N	C 6.6	3	E		103		
	HTPR	18	0937	0938	0950	S13 E23	6272	09 20.1	13	SN			C	0938	140	1.8	H
0245	HTPR	18	1128	1131	1140	N12 W90	6252	09 11.7	12	SF			C	1131	20		A
0246		18	1202	1206	1208	S12 W42	6257	09 15.3	6	SF					29		F
	RAMY	18	1202	1206	1208	S12 W42	6257	09 15.3	6	SF		3	E		29		F
	KANZ	18	1204E		1204D	S13 W41	6257	09 15.4	6D	SF			C				
0247	HTPR	18	1224	1224	1240	S07 E57	6279	09 22.8	16	SF			C	1224	30	0.5	T
0248	HTPR	18	1255	1301	1315	S15 E42	6279	09 21.7	20	SF			C	1301	60	0.9	
0249		18	1324	1327	1335	S38 W71	62588	09 12.8	11	SF					43		
	SVTO	18	1323E	1327U	1333	S40 W74	62588	09 12.5	10D	SF		2	E		43		
	KANZ	18	1324	1327	1337	S36 W68	62588	09 13.1	13	SF			V				
0250		18	1346I	1347*	1412	S13 W43	6257	09 15.3	26	SF					33		FH
	HOLL	18	1340E	1340U	1438	S12 W44	6257	09 15.2	58D	SF		1	E		54		
	RAMY	18	1346	1348	1356	S13 W42	6257	09 15.4	10	SF		3	E		16		FH
	KANZ	18	1347	1347	1402	S14 W42	6257	09 15.4	15	SF			V				
	SVTO	18	1415E	1450	1450D	S12 W44	6257	09 15.3	35D	SF		2	E		29		
0251	SVTO	18	1405	1428	1450	S40 W75	62588	09 12.5	45	SF		3	E		50		
0252	HTPR	18	1455	1505	1520	N16 W21	6257F	09 17.0	25	SF			C	1505	20	0.2	H
0253		18	1551I	15597	1622	S12 W45	6257	09 15.3	31	SF	C 1.4				73	1.7	F
	HTPR	18	1551	1602	1620	S14 W43	6257	09 15.4	29	SF			C	1602	110	1.7	
	RAMY	18	1552	1606	1624	S11 W46	6257	09 15.2	32	SF		3	E		59		F
	HOLL	18	1559E	1559	1623	S12 W45	6257	09 15.3	24D	SF	C 1.4	2	E		51		F
0254	HTPR	18	1610	1615	1635	S18 W75	6262	09 13.0	25	SN			C	1615	40		
0255	HOLL	18	1623	1656	1703	S13 E21	6272	09 20.3	40	SF		3	E		40		
0256		18	16322	16391	1656	S27 W16	6266	09 17.4	24	SF	C 1.4				23	0.4	
	HTPR	18	1632		1641D	S28 W13	6266	09 17.7	9D	SF			C	1641	30	0.4	
	RAMY	18	1634	1640	1655	S27 W16	6266	09 17.4	21	SF		2	E		21		
	PALE	18	1636E	1639	1657	S26 W18	6266	09 17.3	21D	SF	C 1.4	3	E		18		
0257	HOLL	18	1650	1700	1710	S40 W76	62588	09 12.5	20	SF		3	E		30		
0258		18	1634*	16575	1703	S13 W46	6257	09 15.2	29	SF					45		F
	RAMY	18	1634	1657	1706	S13 W45	6257	09 15.3	32	SF		2	E		36		F
	PALE	18	1636E	1636U	1655	S13 W46	6257	09 15.2	19D	SF		3	E		53		F
	HOLL	18	1701	1702	1707	S12 W46	6257	09 15.2	6	SF		3	E		47		
0259		18	1827*	1827*	1844	S13 W46	6257	09 15.3	17	SF					18		FH
	PALE	18	1827	1827	1839	S14 W44	6257	09 15.4	12	SF		3	E		20		
	HOLL	18	1844	1846	1850	S12 W47	6257	09 15.2	6	SF		4	E		16		FH
0260	HOLL	18	1859	1903	1908	S37 W74	62588	09 12.8	9	SF		4	E		35		
			18	2101		2105	No Flare Patrol										
0261	HOLL	18	2108E	2111U	2125D	S37 W74	62588	09 12.9	17D	SF		1	E		14		
0262		18	2209E	2222	2244	S08 E46	6279	09 22.4	35D	SF	C 2.6				98	1.6	EFJ
	HOLL	18	2209E	2220U	2243	S08 E46	6279	09 22.4	34D	SF	C 2.6	2	E		45		F
	VORO	18	2217E	2222	2244	S08 E45	6279	09 22.3	27D	SF		2	C	2222	152	1.6	EJ
0263	YUNN	19	0155	0216	0238	S17 W88	6262	09 12.4	43	1N			P		47		AG
0264		19	0226	02293	0244	S07 E45	6279	09 22.5	18	SF	C 2.5				85	2.7	F
	PALE	19	0226	0229	0244	S06 E45	6279	09 22.5	18	SF	C 2.5	3	E		30		
	YUNN	19	0226	0232	0240	S07 E46	6279	09 22.5	14	1N			C		173	2.7	F
	LEAR	19	0227E	0232U	0247	S08 E44	6279	09 22.4	20D	SF		3	E		51		F

H α SOLAR FLARES

17
Sep 90

SEPTEMBER 1990

Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	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)	
0265	ABST	19 0533	0534	0540	N08 E90	6281	09 26.0	7	1F		C	0534	87		ADGV
0266	ABST	19 0603	0606	0612	N04 E90	6281	09 26.0	9	1N		C	0606	131		EG
0267	SVTO	19 0620	0659	0844	S06 E42	6279	09 22.4	144	SF	3	E		30		
0268		19 0855*	0906*	0938	N05 E90	6281	09 26.1	43	1N M 2.6				204		HK
	HTPR	19 0855	0906	0945	N05 E90	6281	09 26.1	50	1B		C				
	KANZ	19 0903	0915	0919D	N07 E90	6281	09 26.1	160	1F		V				
	SVTO	19 0905	0906	0936	N06 E90	6281	09 26.1	31	2N M 2.6	3	E		332		H
	SVTO	19 0905	0918	0936	N06 E90	6281	09 26.1	31	2B		E		193		K
	LEAR	19 0908E	0908U	0935	N03 E90	6281	09 26.1	27D	SF	1	E		87		
0269	HTPR	19 1005		1020	N05 E90	6281	09 26.1	15	SF		C				
0270	HTPR	19 1010	1015	1030	S27 E70	6278	09 24.9	20	1B		C	1015	120		
0271		19 13551	14003	1414	S11 W30	6267	09 17.3	19	SF C 2.3				60	1.4	H
	KANZ	19 1355	1401	1412	S12 W31	6267	09 17.2	17	SF		V				
	HTPR	19 1355	1403	1420	S10 W30	6267	09 17.3	25	SF		C	1403	120	1.4	H
	RAMY	19 1356	1400	1410	S11 W33	6267	09 17.1	14	SF C 2.3	3	E		20		
	HOLL	19 1404E	1404U	1418D	S12 W27	6267	09 17.5	14D	SF	2	E		40		
0272		19 16334	16352	1640	N04 E81	6281	09 25.7	7	SN C 3.9				33		
	HOLL	19 1633	1635	1639	N05 E83	6281	09 25.9	6	SN C 3.9	3	E		53		
	RAMY	19 1637	1637	1640	N04 E79	6281	09 25.6	3	SF	3	E		13		
0273		19 17072	17072	1719	N22 W20	6268	09 18.2	12	SF				20		F
	HOLL	19 1707	1707	1719	N22 W21	6268	09 18.1	12	SF	3	E		18		F
	PALE	19 1709	1709	1721D	N22 W19	6268	09 18.2	12D	SF	3	E		22		F
0274	RAMY	19 1752	1753	1757	N05 E76	6281	09 25.4	5	SF	3	E		22		
0275	HOLL	19 1835	1836	1841	S28 W28	6266	09 17.6	6	SF	3	E		11		
0276	HOLL	19 2050	2052	2101	N05 E81	6281	09 25.9	11	SF	3	E		16		
0277	HOLL	19 2054	2056	2107	S11 W35	6267	09 17.2	13	SF	3	E		23		
0278	HOLL	19 2128	2136	2142D	N05 E78	6281	09 25.7	14D	SF	3	E		39		
0279		19 2330*	2346	2403	N04 E80	6281	09 25.9	33	1F				88		DJ
	VORO	19 2330	2346	2425U	N05 E80	6281	09 26.0	55U	2N	2	C	2346	116		DJ
	LEAR	19 2341	2346	2403	N03 E78	6281	09 25.8	22	SF	3	E		99		
	PALE	19 2348E	2348U	2348D	N05 E81	6281	09 26.0	22D	SF	3	E		49		
0280	LEAR	20 0038	0043	0045	S17 E12	6272	09 20.9	7	SF	3	E		26		
0281		20 00474	0053	0102	N03 E82	6281	09 26.2	15	1N C 3.0				107		DGJ
	LEAR	20 0047	0053	0104	N02 E79	6281	09 25.9	17	1F C 3.0	3	E		127		
	VORO	20 0051		0056D	N05 E80	6281	09 26.0	5D	2N	2	C	0055	170		DJ
	YUNN	20 0052E	0055U	0100	N03 E86	6281	09 26.5	8D	SN		P	0055	24		G
0282		20 01271	01291	0139	S12 W38	6267	09 17.2	12	SF C 1.5				44	0.8	EF1J
	YUNN	20 0126E	0130	0140	S13 W39	6267	09 17.1	14D	SN		P		24	0.3	
	VORO	20 0127	0130	0143	S12 W38	6267	09 17.2	16	SF	2	C	0130	90	1.2	E1J
	LEAR	20 0128	0129	0134	S11 W37	6267	09 17.3	6	SF C 1.5	3	E		17		F
0283	LEAR	20 0209	0213	0219	N04 E77	6281	09 25.8	10	SF	3	E		40		
0284	YUNN	20 0307	0325	0340	N15 W44	6263	09 16.8	33	SN		C		16	0.2	
0285	TACH	20 0353	0355	0420	N25 W27	6268	09 18.1	27	SB	3	C	0355	112	1.4	F
0286		20 04182	04222	0519	N05 E76	6281	09 25.9	61	1N				77		D
	TACH	20 0418	0424	0445	N07 E76	6281	09 25.9	27	1N	3	C	0424	102		D
	LEAR	20 0420	0422	0553	N03 E75	6281	09 25.8	93	SF	3	E		52		
0287	YUNN	20 0500	0508	0524D	N05 E82	6281	09 26.3	24D	SN		P		47		

H α SOLAR FLARES

19
Sep 90

SEPTEMBER 1990

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CHD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0304	HOLL	20	2237	2239	2252	N14	W52	6263	09	17.0	15	SF		3	E		11		F	
0305	PALE	20	2348E	2348U	2348D	S05	E81		09	27.0	15D	SF		3	E		49			
0306		21	00297	00382	0054	S26	W50	6266	09	17.1	25	SN	C 1.4				46	1.0	F	
	LEAR	21	0029	0038	0057	S26	W50	6266	09	17.1	28	SF	C 1.4	3	E		45		F	
	YUNN	21	0036	0040	0050	S27	W51	6266	09	17.0	14	SN			C		47	1.0		
0307	PEKG	21	0253	0255	0304	S13	W52	6267	09	17.2	11	SN			C	0255	42	0.7	D	
0308		21	0302	03054	0316	N13	W60	6263	09	16.6	14	SN					44	0.8	E	
	PEKG	21	0302	0305	0316	N12	W60	6263	09	16.6	14	SN			C	0305	63	1.2	E	
	YUNN	21	0304E	0309	0316	N14	W60	6263	09	16.6	12D	SN			P		24	0.5		
0309	YUNN	21	0316	0319	0328	S12	W52	6267	09	17.2	12	SF			C		24	0.4		
0310	PEKG	21	0405	0412	0423	N12	W61	6263	09	16.6	18	SN			P	0412	84	1.6	E	
0311	ABST	21	0528	0530	0536	N11	W61	6263	09	16.6	8	SF			C	0530	70	1.5	E	
0312	ISTA	21	0717		0722	N11	E65	6280	09	26.2	5	SF							D	
0313	ISTA	21	0825		0838	N11	E65	6280	09	26.2	13	1N							U	
0314	KHAR	21	0827	0829	0840	N14	E54	6280	09	25.4	13	SF		2	V	0829			DL	
0315	KHAR	21	0905U		0911	S26	E40	6278	09	24.5	6U	SF		2	V	0906			EL	
0316		21	09183	09203	0929	S24	W53	6266	09	17.3	11	SF					90		D	
	HTPR	21	0918	0920	0930	S25	W52	6266	09	17.3	12	SF			C	0920	90			
	KHAR	21	0921	0923	0928	S22	W54	6266	09	17.2	7	SF		2	V	0923			D	
0317	SVTO	21	0948	0948	0956	S17	W10	6272	09	20.6	8	SF		3	E		20			
0318	KHAR	21	0949	0951	0956	S12	W22	6272	09	19.7	7	SF		2	V	0951			D	
0319	HTPR	21	1040	1045	1100	S15	W50	6267	09	17.6	20	SN			C	1045	80	1.6		
0320	HTPR	21	1055	1103	1115	N12	W60	6263	09	16.9	20	SF			C	1103	100	1.9		
0321		21	12514	12561	1308	N13	E60	6280	09	26.1	17	SN	C 2.1				68	1.8		
	HTPR	21	1251	1257	1310	N13	E60	6280	09	26.1	19	SB			C	1257	90	1.8		
	RAMY	21	1255	1256	1307	N13	E59	6280	09	26.0	12	SF	C 2.1	3	E		47			
0322	HOLL	21	1439	1439	1444	S15	W15	6272	09	20.5	5	SF		3	E		12			
0323	HOLL	21	1500	1502	1507	N04	E60	6281	09	26.1	7	SF		3	E		12			
0324	RAMY	21	1701	1702	1711	N13	E56	6280	09	25.9	10	SF	C 1.4	3	E		28			
0325	HOLL	21	1858	1858	1907	S11	W59	6267	09	17.3	9	SF		3	E		12			
		21	2052		2106	No Flare Patrol														
0326	HOLL	21	2107E	2110U	2144	S12	W56	6267	09	17.7	37D	SF		2	E		27		F	
		21	2125		2131	No Flare Patrol														
0327	HOLL	21	2159	2208	2223D	S09	E07	6279	09	22.4	24D	SF		3	E		34			
0328	VORO	21	2326	2329	2350	S28	W57	6266	09	17.5	24	SF		2	C	2329	72	1.5	DIJ	
0329	VORO	21	2344	2348	2400	N07	E55	6281	09	26.1	16	SF		2	C	2348	54	0.9	DIJ	
0330		22	0301*	0321*	0425	S27	W60	6266	09	17.4	84	1N	M 1.1				113	2.6	EF	
	YUNN	22	0301	0321	0422	S28	W63	6266	09	17.2	81	SF			C		63			
	PALE	22	0306	0319U	0319D	S28	W57	6266	09	17.7	13D	SF	M 1.1	3	E		88		F	
	LEAR	22	0328E	0334	0357	S27	W60	6266	09	17.5	29D	1F		2	E		199			
	TACH	22	0334		0455	S26	W58	6266	09	17.6	81	1B		2	C	0340	102	2.6	E	

20
Sep 90

H α SOLAR FLARES

SEPTEMBER 1990

Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
													Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0331		22 0748		0806	S07 E88	6283	09 28.9	18	SN							DT	
	HTPR	22 0657E		0820	S08 E90	6283	09 29.0	83D	N			C				T	
	ISTA	22 0748		0752	S06 E85	6283	09 28.7	4	SN							D	
0332		22 0834I	0835	0838	N14 E48	6280	09 26.0	4	SF					39		E	
	ISTA	22 0834		0836	N13 E48	6280	09 26.0	2	SF							E	
	SVTO	22 0835	0835	0839	N14 E48	6280	09 26.0	4	SF		3	E		39			
0333		22 1521	1521I	1526	N14 E44	6280	09 26.0	5	SN					34	0.7		
	RAMY	22 1521	1521	1525	N14 E44	6280	09 26.0	4	SF		3	E		17			
	HTPR	22 1521	1522	1528	N15 E45	6280	09 26.0	7	SN			C	1522	50	0.7		
0334	PALE	22 1836	1842	1854	N13 W75	6263	09 17.1	18	SF		3	E		43			
0335	PALE	22 1942	1944	1950	N14 W75	6263	09 17.1	8	SF		3	E		34			
0336	PALE	22 2013	2015	2018	S14 W66	6267	09 17.8	5	SF		3	E		17			
0337	LEAR	22 2216E	2243U	2310	N14 W75	6263	09 17.2	54D	SF		3	E		80			
0338	PALE	23 0027	0029	0102D	S26 W66	6266	09 17.9	35D	SF	C 3.6	3	E		53		F	
0339	LEAR	23 0134	0135	0142	N15 E37	6280	09 25.9	8	SF		3	E		32		F	
0340	LEAR	23 0443	0445	0453	N13 W84	6263	09 16.8	10	SF		3	E		68			
0341		23 05499	05529	0617	N14 W86	6263	09 16.7	28	1N					108		ADGTVV	
	LEAR	23 0549	0556	0622	N13 W84	6263	09 16.9	33	SF		3	E		97			
	MITK	23 0552	0552	0606D	N14 W90	6263	09 16.4	14D	1F			C	0552	100			
	TACH	23 0553	0601	0616	N10 W82	6263	09 17.1	23	1B		2	C	0601	148		TY	
	ABST	23 0558	0559	0612	N18 W90	6263	09 16.4	14	1F			C	0559	87		ADGV	
0342	ISTA	23 0605E		0620	N13 E35	6280	09 25.9	15D	SF							D	
0343	ISTA	23 0728	0730	0733	S11 W07	6279	09 22.8	5	SN								
0344	ISTA	23 0847E	0848	0854	N13 E35	6280	09 26.0	7D	SB							D	
		23 1327		1333	No Flare Patrol												
		23 1620		1645	No Flare Patrol												
		23 1736		1747	No Flare Patrol												
		23 1800		1820	No Flare Patrol												
		23 2155		2201	No Flare Patrol												
0345	VORO	24 0004	0007	0014	N20 W68	6269	09 18.8	10	SF		2	C	0007	63	1.4	DJ	
0346	LEAR	24 0126	0127	0135	S07 E64	6283	09 28.8	9	SF	C 2.8	3	E		27			
0347		24 0130	0133	0144	N16 E24	6280	09 25.9	14	SF					46	0.9	EIJ	
	VORO	24 0130	0133	0144	N15 E23	6280	09 25.8	14	SF		2	C	0133	81	0.9	EIJ	
	PALE	24 0132E	0135U	0144D	N16 E25	6280	09 26.0	12D	SF		3	E		12			
0348		24 0628I	06293	0638	N14 E21	6280	09 25.8	10	SN	C 4.4				79	1.2	DEF	
	TACH	24 0628	0629	0643	N13 E22	6280	09 25.9	15	SB		2	C	0629	122	1.4	E	
	LEAR	24 0628	0630	0635	N14 E20	6280	09 25.8	7	SF	C 4.4	3	E		27		F	
	ABST	24 0629	0632	0636	N14 E21	6280	09 25.8	7	SF			C	0632	87	1.0	D	
0349		24 08085	08132	0838	S13 W46	6272	09 20.9	30	1N	C 2.9				139	2.1	F	
	ISTA	24 0808	0813	0837	S12 W45	6272	09 20.9	29	2B							F	
	ATHN	24 0811	0815	0822	S10 W46	6272	09 20.9	11	SN		3	V	0815	191	2.1		
	LEAR	24 0813	0814	0844	S14 W48	6272	09 20.7	31	1F	C 2.9	3	E		102		F	
	SVTO	24 0817E	0821U	0850	S15 W45	6272	09 20.9	33D	1F		2	E		123			
0350		24 0908	0908I	0925	N14 E26	6280	09 26.3	17	SF					29		F	
	LEAR	24 0908	0908	0928	N13 E26	6280	09 26.3	20	SF		3	E		33		F	
	SVTO	24 0908	0909	0922	N15 E25	6280	09 26.3	14	SF		3	E		25			
0351	SVTO	24 1316	1332	1347	S14 W52	6272	09 20.6	31	SF		3	E		31		F	

HA SOLAR FLARES

21
Sep 90

SEPTEMBER 1990

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CND	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)	
0352	24	13434	13528	1421	N16 E18	6280	09 25.9	38	1F C 4.2				109		FH	
	SVTO	24	1343	1400	1422	N15 E17	6280	09 25.8	39	1F	3	E	113		FH	
	RAMY	24	1347	1352	1420	N16 E18	6280	09 25.9	33	1F C 4.2	3	E	105		FH	
0353	24	18464	18539	1927	N17 E16	6280	09 26.0	41	1N C 4.7				110		EFHK	
	RAMY	24	1846	1853	1928	N16 E16	6280	09 26.0	42	1F C 4.7	3	E	109		FH	
	HOLL	24	1850	1853	1940D	N17 E15	6280	09 25.9	50D	1N C 4.7	3	E	172		FH	
	PALE	24	1850	1855	1926	N17 E16	6280	09 26.0	36	SN		E	100		K	
	PALE	24	1850	1902	1926	N17 E16	6280	09 26.0	36	SF	4	E	58		FE	
0354	24	18581	18585	1915	S06 W30	6279	09 22.5	17	SF				16		F	
	PALE	24	1858	1858	1917	S05 W31	6279	09 22.5	19	SF	4	E	14		F	
	RAMY	24	1859	1903	1913	S07 W29	6279	09 22.6	14	SF	3	E	19		F	
0355	24	19492	19504	2000	N14 W13	6286	09 23.8	11	SF				14		F	
	RAMY	24	1949	1950	2002	N14 W13	6286	09 23.8	13	SF	2	E	12			
	HOLL	24	1951	1954	1958	N14 W13	6286	09 23.8	7	SF	3	E	16		F	
0356	24	2026	2030	2058	N15 E14	6280	09 25.9	32	SF				27		F	
	HOLL	24	2026	2030	2053	N16 E13	6280	09 25.8	27	SF	3	E	39		F	
	RAMY	24	2030E	2031U	2103	N14 E14	6280	09 25.9	33D	SF	2	E	23			
	PALE	24	2045E	2045U	2050D	N15 E14	6280	09 25.9	5D	SF	3	E	19			
0357	24	2215	2219	2251	N14 E12	6280	09 25.8	36	1N C 3.8				136	1.7	EFHIJ	
	HOLL	24	2215	2219	2248	N14 E13	6280	09 25.9	33	1N C 3.8	3	E	112		F	
	VORO	24	2233E		2254	N15 E11	6280	09 25.8	21D	SN	2	C	2234	161	1.7	EHIJ
0358	HOLL	24	2321	2323	2332	S07 E51	6283	09 28.8	11	SF	3	E	10			
0359	HOLL	24	2352	2354	2422	S07 E51	6283	09 28.8	30	SF	3	E	14			
0360	25	0210*	0211*	0241	N15 E11	6280	09 25.9	31	1N M 1.7				174	2.3	EFKU	
	LEAR	25	0210	0211	0214	N13 E16	6280	09 26.3	4	SF	3	E	17			
	YUNN	25	0217E	0228	0246D	N17 E10	6280	09 25.8	29D	1N		P	283	3.0	F	
	LEAR	25	0221	0224	0252	N15 E09	6280	09 25.8	31	2B		E	220		K	
	PURP	25	0221	0227U	0238	N15 E13	6280	09 26.1	17	SB		C	0227	88	1.1	E
	LEAR	25	0221	0228	0252	N15 E09	6280	09 25.8	31	1B M 1.7	3	E	181		F	
	URUM	25	0226E	0226	0251	N14 E10	6280	09 25.8	25D	1N		C	257	2.7	U	
0361	LEAR	25	0234	0236	0244	S11 W62	6272	09 20.4	10	SF	3	E	18			
0362	LEAR	25	0502	0504	0518	N11 E11	6280	09 26.0	16	SF C 1.3	3	E	25		F	
0363	25	07265	07306	0743	N14 E08	6280	09 25.9	17	SF				30	0.4	E	
	SVTO	25	0726	0730	0742	N15 E08	6280	09 25.9	16	SF	3	E	19			
	LEAR	25	0729	0730	0737	N14 E07	6280	09 25.8	8	SF	3	E	17			
	ISTA	25	0731	0736	0745	N14 E10	6280	09 26.1	14	SN						E
	YUNN	25	0733E	0733U	0740	N15 E08	6280	09 25.9	7D	SN		P	0733	47	0.5	
	HTRP	25	0733E	0736	0750	N14 E09	6280	09 26.0	17D	SF		C	0736	35	0.3	
0364	25	09014	0905*	0926	N14 E06	6280	09 25.8	25	SN C 2.9				83	1.1	ENK	
	LEAR	25	0901	0905	0935	N13 E06	6280	09 25.8	34	SF C 2.9	3	E	63			
	LEAR	25	0901	0930	0935	N13 E06	6280	09 25.8	34	SB		E	55		K	
	KHAR	25	0902		0920	N15 E07	6280	09 25.9	18	SF	2	P	0911	150	1.5	EH
	URUM	25	0905	0910	0916	N13 E07	6280	09 25.9	11	SN		C	64	0.7	E	
0365	25	1035	1036*	1111	N16 E06	6280	09 25.9	36	1N C 5.3				253	6.6	EFHK	
	KHAR	25	1035U	1036	1100D	N15 E06	6280	09 25.9	25U	2N	2	P	1040	600	6.6	EH
	RAMY	25	1035E	1037	1110	N15 E08	6280	09 26.0	35D	SF C 5.3	2	E	87		FH	
	SVTO	25	1035	1037	1112	N16 E06	6280	09 25.9	37	1N C 5.3	3	E	196		FH	
	SVTO	25	1035	1046	1112	N16 E06	6280	09 25.9	37	1N		E	129		K	
0366	HURB	25	1140	1140	1152	N14 E04	6280	09 25.8	12	SN					D	
0367	25	14253	1429	1447	N12 E04	6280	09 25.9	22	SF C 1.5				23		F	
	HOLL	25	1425	1429	1437	N13 E04	6280	09 25.9	12	SF C 1.5	3	E	26		F	
	SVTO	25	1425	1429	1511	N12 E04	6280	09 25.9	46	SF C 1.5	3	E	29		F	
	RAMY	25	1428	1429	1433	N12 E04	6280	09 25.9	5	SF	3	E	14		F	

22
Sep 90

H α SOLAR FLARES

SEPTEMBER 1990

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CNP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0368		25	1427	1427.3	1450	S08	E44	6283	09	28.9	23	SF					37		F
	RAMY	25	1427	1427	1437	S09	E43	6283	09	28.8	10	SF	3	E			52		F
	HOLL	25	1427	1427	1438	S09	E44	6283	09	28.9	11	SF	3	E			30		F
	SVTO	25	1427	1430	1516	S07	E44	6283	09	28.9	49	SF	3	E			30		F
0369	HOLL	25	1534	1537	1552	S05	E42	6283	09	28.8	18	SF		E			20		F
0370	HOLL	25	1539	1539	1546	N14	E03	6280	09	25.9	7	SF		E			19		F
		25	1616		1709	No Flare Patrol													
0371	HOLL	25	1625	1644	1646	S04	E40	6283	09	28.7	21	SF		E			65		
0372	HOLL	25	1702	1708	1714	S16	W66	6272	09	20.7	12	SF		E			23		
0373	HOLL	25	1803	1806	1815	N13	E03	6280	09	26.0	12	SF		E			12		
		25	1937		2034	No Flare Patrol													
		25	2051		2056	No Flare Patrol													
		25	2104		2118	No Flare Patrol													
		25	2126		2226	No Flare Patrol													
0374	HOLL	25	2242	2243	2246	S11	W71	6272	09	20.6	4	SF		E			45		F
0375	HOLL	25	2259	2303	2314	N15	W01	6280	09	25.9	15	SF		E			23		F
0376	ISTA	26	0605	0608	0715	S08	W52	6279	09	22.3	70	2F							FK
0377		26	0622	0625	0623	S04	E32	6283	09	28.6	1	SN							DE
	ISTA	26	0614E		0616	S04	E33	6283	09	28.7	2D	SN							D
	ISTA	26	0622	0625	0630	S04	E31	6283	09	28.6	8	SN							E
0378	HTPR	26	0955	1005	1022D	S08	W55	6279	09	22.3	27D	SF			C	1005	120	1.9	
0379	RAMY	26	1215	1219	1234	S06	W56	6279	09	22.3	19	SF		E			23		F
0380	HOLL	26	1320E	1320U	1417D	S05	E29	6283	09	28.7	57D	SF		E			16		
0381	RAMY	26	1325	1329	1420	S17	W83	6272	09	20.2	55	SF	C 7.8	E			19		F
0382		26	1407E	1430	1456	S08	W57	6279	09	22.3	49D	1N C 4.2					96		F
	HOLL	26	1407E	1430	1505	S08	W55	6279	09	22.5	58D	1F	3	E			136		F
	RAMY	26	1418E	1430	1447	S07	W59	6279	09	22.2	29D	SN C 4.2	3	E			57		F
0383	HOLL	26	1507	1512	1523	N15	W06	6280	09	26.2	16	SF		E			20		
0384		26	15508	16021	1617	S08	W58	6279	09	22.3	27	SF	C 3.3				72	1.9	F
	HTPR	26	1550	1603	1620	S08	W57	6279	09	22.4	30	SF			C	1603	120	1.9	
	RAMY	26	1558	1602	1614	S07	W59	6279	09	22.2	16	SF	C 3.3	E			23		F
0385	HOLL	26	1751E	1752U	1800D	S07	W56	6279	09	22.5	9D	SF		E			20		F
0386		26	19471	19472	2000	S09	E27	6283	09	28.8	13	SF	B 7.7				28		F
	PALE	26	1947	1947	2000	S08	E28	6283	09	28.9	13	SF	B 7.7	E			29		F
	RAMY	26	1948	1948	2000	S10	E26	6283	09	28.8	12	SF		E			23		F
	HOLL	26	1948	1949	2000	S08	E27	6283	09	28.8	12	SF		E			31		F
		27	0046		0100	No Flare Patrol													
0387	LEAR	27	0427	0435	0446	S17	W88	6272	09	20.5	19	SF		E			39		
0388	ISTA	27	0811		0825	S06	E21	6283	09	28.9	14	SF							D
0389	LEAR	27	0844	0846	0854	N12	W15	6280	09	26.2	10	SF	C 1.1	E			71		
0390	HTPR	27	1246	1250	1253	S25	W32	6278	09	25.0	7	SF			C	1250	90	1.4	
0391	PALE	27	1746	1747	1803	S09	W72	6279	09	22.3	17	SF		E			20		

H α SOLAR FLARES

23
Sep 90

SEPTEMBER 1990

Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USA Region	CMP Mo	Dur Day	Imp (Min)	Opt Xray	Imp See	Obs Type	Time (UT)	Area Measurement		Remarks	
															Apparent (10-6 Disk)	Corr (Sq Deg)		
0392	HOLL	27	1755	1805	S04	E09	6283	09	28.4	18	SF	3	E		14			
0393	HOLL	27	1758	1800	S24	W46	6278	09	24.2	7	SF	3	E		27			
0394		27	1837	1839	S23	W43	6278	09	24.5	16	SF B 9.2				56		F	
	HOLL	27	1837	1839	S21	W44	6278	09	24.4	19	SF B 9.2	3	E		77		F	
	PALE	27	1839	1839	S25	W42	6278	09	24.5	11	SF	3	E		34			
0395	HOLL	27	1931	1932	S24	W51	6278	09	23.9	10	SF	3	E		21			
0396	PALE	27	2018	2021	S08	E13	6283	09	28.8	20D	SF	3	E		14			
0397		27	2047	2050	S06	E08	6283	09	28.5	10	SF B 5.5				14		F	
	HOLL	27	2047	2050	S05	E08	6283	09	28.5	10	SF B 5.5	3	E		16			
	RAMY	27	2047	2050	S06	E08	6283	09	28.5	10	SF B 5.5	3	E		13		F	
		27	2206	2217	No Flare Patrol													
0398		28	0154	0155	S04	E07	6283	09	28.6	14	SN C 1.5				66		F	
	LEAR	28	0154	0155	S04	E06	6283	09	28.5	14	SN C 1.5	3	E		95		F	
	PALE	28	0156E	0156U	0211D	S04	E08	6283	09	28.7	15D	SF	3	E		38		F
0399	HTPR	28	0935	0945	N14	W21	6280	09	26.8	40	SF		C	0945	150	1.7	E	
0400		28	1224	1225*	S28	W54	6278	09	24.3	16	SF				25	0.5		
	SVTO	28	1224	1231	S30	W56	6278	09	24.1	18	SF	3	E		22			
	RAMY	28	1224	1236	S27	W53	6278	09	24.4	15	SF	3	E		27			
	HTPR	28	1225	1225	S28	W53	6278	09	24.4	15	SF		C	1225	25	0.5		
0401		28	1409	1411	S15	W31	6287	09	26.2	10	SF C 1.4				22	0.4		
	SVTO	28	1409	1411	S16	W31	6287	09	26.2	11	SF C 1.4	3	E		18			
	RAMY	28	1410	1411	S14	W31	6287	09	26.2	7	SF C 1.4	3	E		14			
	HTPR	28	1410	1411	S15	W28	6287	09	26.5	10	SF		C	1411	30	0.4		
	KANZ	28	1411	1411	S15	W32	6287	09	26.2	7	SF		V					
	HOLL	28	1412E	1413U	S15	W31	6287	09	26.2	10D	SF	3	E		24			
0402	RAMY	28	1652	1653	S09	E00	6283	09	28.7	7	SF	3	E		13			
0403	HOLL	28	1658	1658	N07	W38	6281	09	25.9	11	SF	3	E		12			
		28	2201	2224	No Flare Patrol													
0404	LEAR	29	0044	0044	N14	W69	6290	09	23.8	8	SF	3	E		28			
0405	LEAR	29	0210	0224	S17	E66	6292	10	4.1	56	SF	3	E		41			
0406		29	0405	0406	S14	W40	6287	09	26.1	15	SF C 9.4				58		F	
	PALE	29	0405	0406	0408D	S15	W42	6287	09	26.0	3D	SF	1	E		57		F
	LEAR	29	0406	0408	0420	S14	W38	6287	09	26.3	14	SF C 9.4	3	E		58		
0407		29	0540	0543	S10	W05	6283	09	28.9	10	SN				68	1.6	D	
	TACH	29	0540	0551	S07	E04	6283	09	29.5	11	SB	2	C	0540	150	1.6	D	
	LEAR	29	0542	0543	S11	W10	6283	09	28.5	3	SF	3	E		23			
	SVTO	29	0543	0543	S11	W08	6283	09	28.6	12	SF	2	E		31			
0408	LEAR	29	0749	0751	S17	E66	6292	10	4.3	14	SF	3	E		29			
0409		29	0823	0824	S12	E11	6285	09	30.2	11	SF				30	0.3		
	HTPR	29	0823	0824	S12	E10	6285	09	30.1	10	SF		C	0824	30	0.3		
	KANZ	29	0825	0825	S12	E12	6285	09	30.2	11	SF		V					
0410		29	1001	1002	S10	W12	6283	09	28.5	5	SF				19			
	SVTO	29	1001	1002	S11	W11	6283	09	28.6	5	SF	3	E		19			
	KANZ	29	1002	1002	S09	W12	6283	09	28.5	4	SF		V					
0411		29	1033	1036	S09	W13	6283	09	28.5	20	SN C 2.9				112	1.6	F	
	HTPR	29	1033	1037	S08	W14	6283	09	28.4	12	SN		C	1037	150	1.6	F	
	KANZ	29	1036	1036	S09	W12	6283	09	28.5	35	SN		V					
	SVTO	29	1036	1037	S11	W12	6283	09	28.5	7	SN C 2.9	3	E		73		F	

24
Sep 90

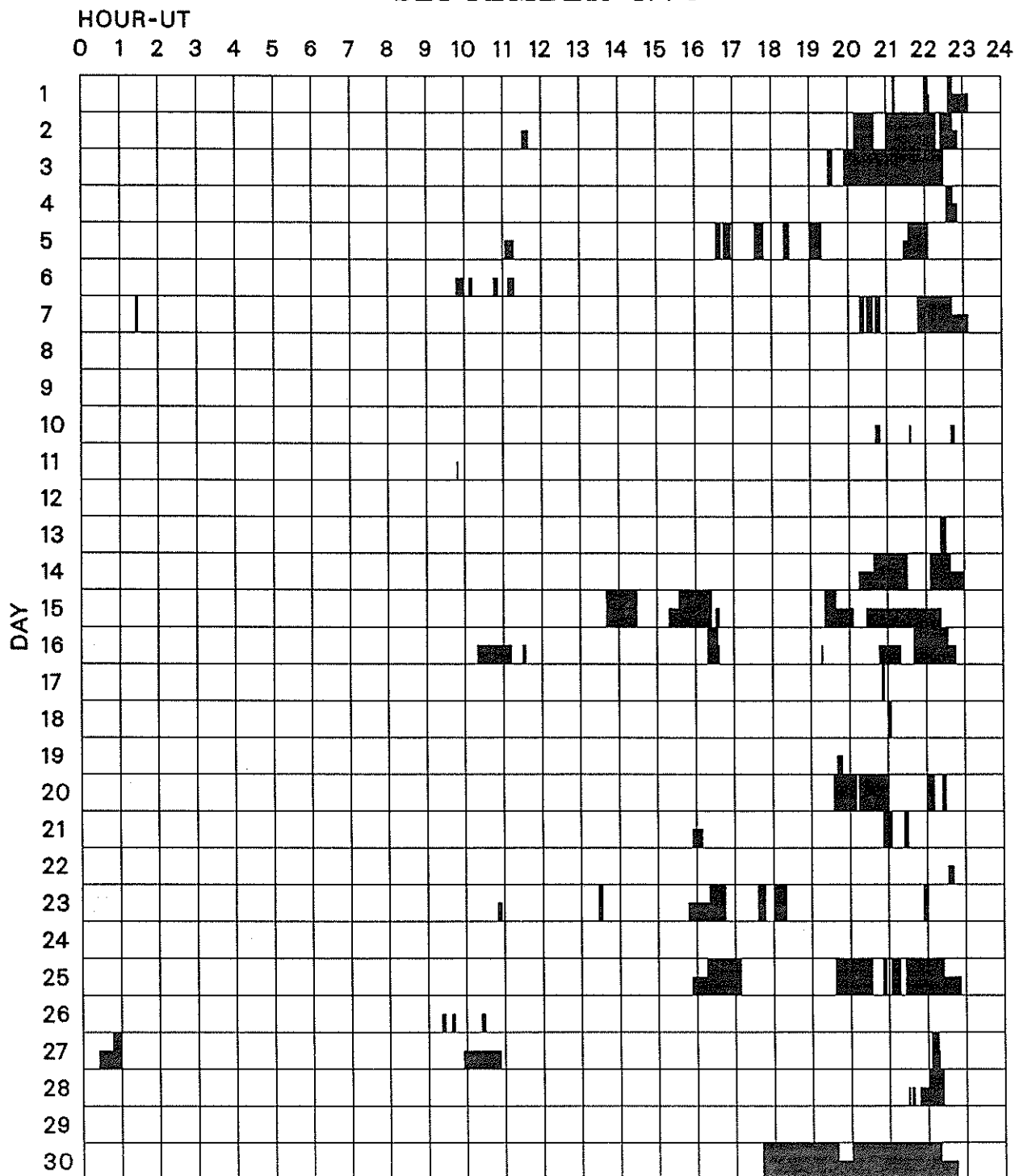
H α SOLAR FLARES

SEPTEMBER 1990

Grp #	Sta	Start Day	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)		
0412	SVTO	29	1521	1525	N12	W74	6290	09 24.1	28	SF		3	E		24			
0413	HOLL	29	1539	1542	S16	W45	6287	09 26.2	8	SF		2	E		40		FH	
0414	HOLL	29	1555	1555U	1604D	S08	W10	6283	09 28.9	90	SF		E		14			
0415	RAMY	29	1612	1613	1728	S11	W16	6283	09 28.5	76	SF		E		14		F	
0416	PALE	29	1959	2003	2008	S08	W11	6283	09 29.0	9	SF		E		12			
0417	RAMY	29	2021	2021	2028	S09	W14	6283	09 28.8	7	SF		E		18		F	
0418	LEAR	29	2257	2313	2338	S10	W20	6283	09 28.4	41	SF	C 1.7	E		27		F	
0419	LEAR	29	2345	2348	2351	N15	W79	6290	09 24.0	6	SF		E		35			
0420	LEAR	30	0023	0111	0222	S05	E23	6294	10 1.7	119	SF		E		80			
0421	LEAR	30	0530	0533	0540	S05	E20	6294	10 1.7	10	SF		E		23		F	
0422	ISTA	30	0647		0652	S03	W25	6283	09 28.4	5	SF						E	
0423		30	0652*		0714	S04	E20	6294	10 1.8	22	1N						DF	
	ISTA	30	0652		0708	S05	E20	6294	10 1.8	16	1F						F	
	ISTA	30	0716		0720	S04	E19	6294	10 1.7	4	SN						D	
0424		30	0737*	0742*	0820	S09	W23	6283	09 28.6	43	SN	C 9.2			72	1.3	EF	
	LEAR	30	0737	0744	0810	S11	W28	6283	09 28.2	33	SF		E		66		F	
	ISTA	30	0737	0745	0803	S09	W24	6283	09 28.5	26	1B						F	
	SVTO	30	0737	0746	0824	S10	W23	6283	09 28.6	47	SN	C 9.2	E		80		FE	
	KANZ	30	0738	0742	0814	S10	W25	6283	09 28.4	36	SN		V					
	BUCA	30	0739	0743	0820	S09	W25	6283	09 28.4	41	SN		C	0743	107	1.3	E	
	KANZ	30	0822	0822	0826	S07	W20	6283	09 28.8	4	SF		V					
	SVTO	30	0824	0825	0841	S07	W20	6283	09 28.8	17	SF		E		34			
0425	SVTO	30	0913	0913	0923	S11	W21	6283	09 28.8	10	SF		E		19			
0426	SVTO	30	0929	0931	0942	S07	W20	6283	09 28.9	13	SF		E		14			
0427	SVTO	30	1014	1014	1022	S18	W54	6287	09 26.3	8	SF		E		12			
0428	RAMY	30	1118	1118	1123	S15	W57	6287	09 26.1	5	SF		E		15			
0429	KANZ	30	1227	1227	1234	S36	E62		10 5.5	7	SF		V					
0430	RAMY	30	1413	1423	1427	S08	E18	6294	10 1.9	14	SF		E		21			
0431		30	14372	14392	1456	S06	E17	6294	10 1.9	19	SF				18		H	
	RAMY	30	1437	1439	1456	S08	E18	6294	10 1.9	19	SF		E		18		H	
	SVTO	30	1439	1441	1456	S04	E16	6294	10 1.8	17	SF		E		19			
0432	RAMY	30	1457	1457	1510	S08	E17	6294	10 1.9	13	SF		E		21			
0433	RAMY	30	1511	1527	1532	S08	E16	6294	10 1.8	21	SF		E		17			
0434		30	1522	15221	1528	S18	W59	6287	09 26.1	6	SF				14			
	RAMY	30	1522	1522	1528	S18	W58	6287	09 26.2	6	SF		E		12			
	SVTO	30	1522	1523	1529	S17	W60	6287	09 26.1	7	SF		E		16			
0435	RAMY	30	1545	1545	1551	S08	E17	6294	10 1.9	6	SF		E		12			
		30	1741		1939	No Flare Patrol												
		30	2002		2220	No Flare Patrol												
0436	LEAR	30	2337	2337	2349	N15	W64	6280	09 26.1	12	SF		E		20			

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

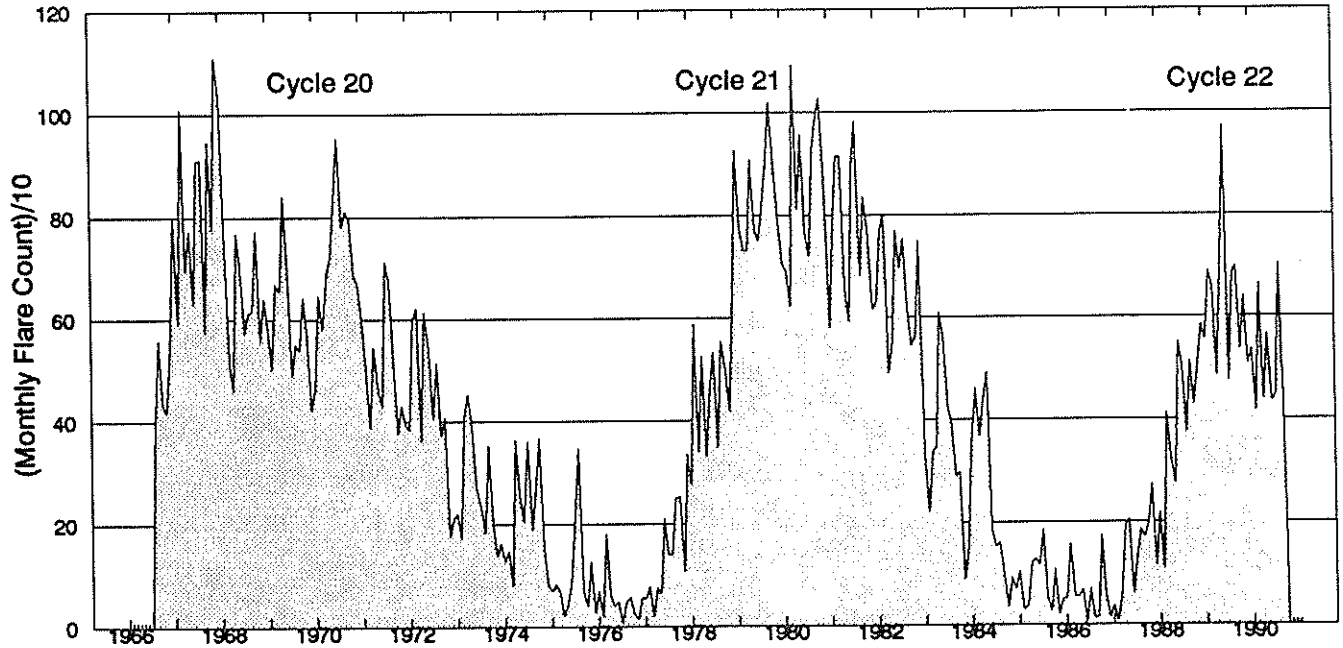
SEPTEMBER 1990



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

- | | | | | |
|----------------|-------------|-----------|------------|------------|
| Abastumani | Holloman | Kharkov | Peking | Tashkent |
| Athens | Hurbanovo | Learmonth | Purple Mt. | Urumqi |
| Bucharest | Istanbul | Mitaka | Ramey | Voroshilov |
| Haute Provence | Kanzelhoehe | Palehua | San Vito | Yunnan |

Monthly Counts of Grouped Solar Flares*



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1966	--	--	--	--	--	--	--	391	558	432	417	543	2341
1967	796	589	1009	694	771	629	907	911	573	946	775	1109	9709
1968	1037	773	519	460	768	697	573	611	616	772	556	640	8022
1969	581	504	669	655	839	694	489	551	540	643	566	422	7153
1970	466	646	578	688	722	836	954	780	811	797	687	667	8632
1971	598	505	387	546	461	430	713	673	518	375	431	394	6031
1972	384	599	621	361	614	541	404	515	371	408	175	210	5203
1973	221	171	410	453	388	270	232	182	353	201	136	163	3180
1974	127	148	79	364	255	204	360	187	270	366	153	81	2594
1975	68	82	69	19	42	85	196	346	68	38	127	25	1165
1976	69	18	180	60	38	48	6	47	57	23	13	55	614
1977	54	77	18	76	64	210	140	140	250	252	107	336	1724
1978	274	588	338	526	330	460	533	346	554	499	418	648	5514
1979	926	781	731	731	907	772	750	821	901	1018	888	786	10012
1980	703	689	621	1092	811	956	763	720	924	988	1027	838	10132
1981	578	782	914	915	658	592	893	982	680	836	773	615	9218
1982	631	766	803	490	553	769	696	753	615	544	564	748	7932
1983	332	220	337	346	609	561	427	389	289	298	88	152	4048
1984	353	461	366	440	492	185	151	161	95	36	92	69	2901
1985	104	29	38	119	129	116	185	53	25	108	19	50	975
1986	51	158	54	56	68	3	71	12	14	174	56	13	730
1987	36	7	52	192	205	61	132	185	172	198	273	114	1627
1988	217	109	413	328	274	551	502	375	513	429	508	584	4803
1989	689	539	658	485	686	971	473	684	699	535	640	507	7566
1990	536	415	664	439	565	433	447	703	436	--	--	--	4638

*Monthly totals for the last 6 months may change significantly, as more sites submit their reports. The term "grouped" means that observations of the same event by different stations have been lumped together and counted as one.

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

27
Sep 90

SEPTEMBER 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m ² Hz)	Mean		
01	100	GORK	44 NS	0333.0E		417.00		5.0		
	204	IZMI	43 NS	0600.0		360.0	15.0			
	127	TORN	44 NS	0800.0E		420.00		1.0		V=0,DISTURBED
	200	HIRA	43 NS	2300.0	0356.0	600.00	15.0	5.0		MR
	35000	NOBE	1 S	0255.8	0256.2	1.0	82.0			O,80GHz:0
	17000	NOBE	1 S	0255.8	0256.2	2.0	82.0			L
	15400	LEAR	8 S	0256.0E	0256.0	1.00	72.0			QL=2 ST=2 TYP=3
	15400	PALE	8 S	0256.0E	0256.0	U	54.0			QL=4 ST=2 TYP=3
	9100	GORK	23 GRF	0618.0	0718.0	252.00	16.0			
	9100	GORK	1 S	0621.2	0621.5	2.0	5.0			
	245	LEAR	8 S	0623.0E	0623.0	1.00	110.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0623.0E	0623.0	U	95.0			QL=2 ST=2 TYP=3
	260	ONDR	41 F	0630.0E	0812.5	570.00	83.0			
	15000	KISV	2 S/F	0635.0	0636.7	3.9	38.0			
	9100	GORK	1 S	0636.0	0636.8	3.0	10.0			
	17000	NOBE	1 S	0636.3	0636.8	1.0	25.0			L,80,35GHz:0
	2850	CRIM	25 R	0651.1	0740.0		15.0			
	3013	IZMI	22 GRF	0651.7	0706.6	62.5	15.0	9.0		
	2950	GORK	21 GRF	0652.4	0740.0	218.60	13.0			
	9300	KISV	23 GRF	0700.7	0704.7	14.0	29.0			
	9100	GORK	46 C	0701.1	0706.2		63.0			
	9100	GORK	46 C	0701.1	0704.8	16.9	22.0			
	9500	POTS	23 GRF	0703.0	0708.0	21.0	21.0			
	15000	KISV	23 GRF	0703.8	0710.9	15.3	38.0			
	4995	LEAR	4 S/F	0704.0E	0706.0	5.00	29.0			QL=2 ST=3 TYP=3
	8800	LEAR	4 S/F	0704.0E	0706.0	5.00	66.0			QL=2 ST=3 TYP=3
	9500	POTS	4 S/F	0704.0	0706.0	3.5	67.0			
	3000	POTS	4 S/F	0704.0	0706.6	6.0	22.0			
	2695	LEAR	8 S	0705.0E	0706.0	2.00	24.0			QL=2 ST=3 TYP=3
	15400	LEAR	8 S	0705.0E	0706.0	2.00	48.0			QL=2 ST=3 TYP=3
	9300	KISV	4 S/F	0705.3	0706.2	2.1	59.0			
	15000	KISV	4 S/F	0705.4	0706.3	3.2	52.0			
	2950	GORK	2 S/F	0705.6	0706.6	2.6	13.0			
	2850	CRIM	3 S	0705.8	0706.3	4.0	22.0	7.0		
	1470	POTS	2 S/F	0706.0	0706.0	1.5	4.0			
	204	IZMI	42 SER	0810.0	0821.5	12.0	43.0			
	204	IZMI	41 F	1151.5	1151.7	1.0	39.0			
	536	ONDR	3 S	1423.2	1423.6	1.0	19.0			
	9400	HUAN	20 GRF	1641.3	1734.9	78.3	8.5	4.6		
	9400	HUAN	2 S/F	1855.2	1857.2	7.1	5.1	2.3		
9400	HUAN	2 S/F	2200.4	2204.0	5.9	15.3	5.9			
9400	HUAN	4 S/F	2215.6	2220.9	7.8	32.3	8.7			
17000	NOBE	2 S/F	2220.2	2220.8	2.0	29.0			L,80,35GHz:0	
02	245	PALE	44 NS	0203.0E	0205.0	87.00	58.0			QL=4 ST=2 TYP=1
	245	LEAR	44 NS	0244.0E	0244.0	153.00	72.0			QL=2 ST=2 TYP=1
	100	GORK	44 NS	0336.0E		114.00		5.0		
	200	GORK	44 NS	0336.0E		414.00		5.0		
	204	IZMI	43 NS	0600.0		360.0	20.0			
	127	TORN	44 NS	0900.0E		300.00		1.0		V=0,DISTURBED
	245	LEAR	8 S	0026.0E	0027.0	1.00	56.0			QL=2 ST=2 TYP=3
	200	HIRA	46 C	0040.5	0040.9	1.0	84.0			SR
	245	LEAR	8 S	0147.0E	0148.0	2.00	200.0			QL=4 ST=3 TYP=3
	245	PALE	8 S	0148.0E	0148.0	U	160.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0158.0E	0158.0	1.00	66.0			QL=4 ST=2 TYP=3
	100	HIRA	42 SER	0607.9		11.9	1000.00			
	204	IZMI	41 F	0645.3	0646.0	3.5	76.0			
	260	ONDR	41 F	0700.0E	1234.2	540.00	73.0			
	204	IZMI	5 S	0716.5	0716.7	0.8	103.0	80.0		
	9300	KISV	2 S/F	1113.4	1114.4	2.0	6.0			
	15000	KISV	2 S/F	1113.4	1114.4	2.2	21.0			
	2800	OTTA	3 S	1452.3	1453.2	2.2	9.5	2.0		
	2800	OTTA	3 S	1455.0	1455.8	2.0	16.0	3.0		
	9400	HUAN	1 S	1459.2	1502.5	5.8	2.7	1.5		
	9400	HUAN	1 S	1641.6	1645.0	7.0	3.6	1.5		
	9400	HUAN	1 S	1704.0	1708.8	9.3	2.7	1.6		
9400	HUAN	1 S	1822.3	1825.8	6.4	4.5	1.4			
9400	HUAN	1 S	1850.7	1852.0	4.9	18.1	4.9			
2800	OTTA	3 S	1851.0	1852.1	5.8	39.6	8.0			

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

SEPTEMBER 1990

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks	
02	200 HIRA	41 F	2046.0	2122.0	132.0	73.0			MR	
	9400 HUAN	1 S	2053.0	2057.0	7.3	4.5	2.3			
	245 PALE	8 S	2200.0E	2200.0	U	52.0			QL=4 ST=2 TYP=3	
03	500 HIRA	41 F	0142.4	0143.4	2.0	24.0			0	
	4995 LEAR	8 S	0218.0E	0218.0	U	16.0			QL=2 ST=2 TYP=3	
	2695 LEAR	8 S	0218.0E	0218.0	U	17.0			QL=2 ST=2 TYP=3	
	15400 LEAR	8 S	0218.0E	0218.0	1.0D	52.0			QL=2 ST=2 TYP=3	
	17000 NOBE	1 S	0218.2	0218.6	1.0	67.0			0	
	35000 NOBE	1 S	0218.2	0218.6	1.0	54.0			80GHz:0	
	650 GORK	2 S/F	0346.0	0346.4	1.2	2.0				
	950 GORK	1 S	0346.2	0346.4	1.0	3.0				
	950 GORK	1 S	0538.2	0538.3	0.3	9.0				
	650 GORK	1 S	0538.2	0538.4	0.4	3.0				
	650 GORK	4 S/F	0546.7	0546.9	0.5	23.0				
	950 GORK	1 S	0546.8	0547.0	0.4	4.0				
	610 LEAR	8 S	0548.0E	0548.0	2.0D	130.0				QL=2 ST=2 TYP=3
	1415 LEAR	8 S	0634.0E	0634.0	U	58.0				QL=2 ST=2 TYP=3
	260 ONDR	41 F	0700.0E	0839.4	540.0D	34.0				
	500 HIRA	4 S/F	0712.5	0712.7	1.2	17.0				WR
	950 GORK	1 S	0715.4	0716.6	3.4	6.0				
	1470 POTS	1 S	0715.6	0716.5	1.7	3.0				
	650 GORK	1 S	0715.6	0716.6	3.3	5.0				
	9300 KISV	22 GRF	0716.0	0733.0	32.4	10.0				
	9500 POTS	20 GRF	0717.0	0718.7	13.0	6.0				
	9100 GORK	22 GRF	0730.9	0733.0	26.1	5.0				
	15000 KISV	21 GRF	0731.5	0733.0	25.6	14.0				
	15400 LEAR	8 S	0834.0E	0834.0	U	72.0				QL=2 ST=2 TYP=3
	536 ONDR	41 F	0838.0	0929.8	76.0	141.0				
	410 LEAR	8 S	0928.0E	0928.0	U	52.0				QL=2 ST=2 TYP=3
	610 LEAR	8 S	0928.0E	0929.0	1.0D	81.0				QL=2 ST=2 TYP=3
	9300 KISV	23 GRF	0940.9	0952.0	43.1	24.0				
	8800 SVTO	4 S/F	0942.0E	0944.0	9.0D	220.0				QL=4 ST=2 TYP=3
	15400 SVTO	4 S/F	0942.0E	0944.0	9.0D	310.0				QL=4 ST=2 TYP=3
	9500 POTS	29 PBI	0942.0	0944.3	18.0	202.0				
	9300 KISV	4 S/F	0942.2	0943.9U	8.0	110.0D				
15000 KISV	4 S/F	0942.7	0944.0U	7.0	127.0D					
2950 GORK	4 S/F	0942.9	0944.1	2.7	52.0					
8800 LEAR	8 S	0943.0E	0944.0	2.0D	130.0				QL=2 ST=2 TYP=3	
2695 LEAR	8 S	0943.0E	0944.0	2.0D	40.0				QL=2 ST=2 TYP=3	
4995 LEAR	8 S	0943.0E	0944.0	2.0D	66.0				QL=2 ST=2 TYP=3	
2695 SVTO	8 S	0943.0E	0944.0	2.0D	51.0				QL=4 ST=2 TYP=3	
4995 SVTO	8 S	0943.0E	0944.0	2.0D	100.0				QL=4 ST=2 TYP=3	
3000 POTS	29 PBI	0943.0	0944.2	18.0	46.0					
1470 POTS	29 PBI	0943.8	0945.0	16.0	13.0					
2950 GORK	29 PBI	0945.6	0945.6	33.0	11.0					
2850 CRIM	8 S	0952.8	0954.1	2.0	69.0	23.0				
2850 CRIM	29 PBI	0952.8	0954.8		25.0					
536 ONDR	42 SER	1126.0	1234.5	70.0	115.0					
410 SVTO	8 S	1234.0E	1234.0	1.0D	420.0				QL=2 ST=2 TYP=3	
9400 HUAN	22 GRF	1312.1	1340.2	59.7	11.4	5.2				
2800 OTTA	20 GRF	1902.0	1918.5	85.0	8.4	4.0				
9400 HUAN	20 GRF	1940.5	2002.0	56.7	5.7	3.4				
15400 LEAR	8 S	2354.0E	2354.0	U	75.0				QL=2 ST=3 TYP=3	
04	15400 LEAR	4 S/F	0043.0E	0046.0	3.0D	180.0			QL=2 ST=2 TYP=5	
	17000 NOBE	2 S/F	0043.2	0044.1	10.0	38.0			L,80,35GHz:0	
	650 GORK	22 GRF	0538.0	0540.2	7.5	6.0				
	500 HIRA	42 SER	0538.3	0540.2	7.5	14.0			0	
	200 HIRA	45 C	0539.3	0539.7	1.1	140.0			0	
	200 GORK	4 S/F	0539.9	0540.8	1.7	85.0				
	260 ONDR	42 SER	0700.0	0828.3	540.0	164.0				
	9300 KISV	45 C	0739.9	0741.4	9.8	13.0				
	9300 KISV	45 C	0739.9	0740.6		12.0				
	2950 GORK	21 GRF	0739.9	0803.6	275.1D	10.0				
	9500 POTS	4 S/F	0740.0	0741.5	5.0	19.0				
	3000 POTS	40 F	0740.0	0741.6	3.0	17.0				
	9100 GORK	22 GRF	0740.2	0758.5	271.8D	27.0				
15000 KISV	2 S/F	0740.3	0741.5	3.0	7.0					

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

29
Sep 90

SEPTEMBER 1990

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)		
04	2950	GORK	2 S/F	0741.3	0741.6	0.6	13.0			
	3013	IZMI	7 C	0750.5	0801.5	13.8	11.0	6.0		
	9300	KISV	45 C	0755.7	0801.0		13.0			
	9300	KISV	23 GRF	0755.7	0818.2	40.3	11.0			
	9300	KISV	45 C	0755.7	0758.4	10.3	15.0			
	9500	POTS	20 GRF	0756.0	0801.0	8.0	14.0			
	3000	POTS	20 GRF	0756.0	0801.1	8.0	20.0			
	1470	POTS	40 F	0756.0	0801.4	17.0	19.0			
	2950	GORK	2 S/F	0757.9	0801.6	5.7	11.0			
	650	GORK	2 S/F	0759.1	0800.5	5.9	9.0			
	950	GORK	2 S/F	0759.2	0801.5	4.3	12.0			
	245	LEAR	8 S	0829.0E	0830.0	1.00	62.0			QL=2 ST=2 TYP=3
	204	IZMI	5 S	0829.8	0830.2	1.0	61.0	35.0		
	245	SVTO	8 S	0830.0E	0830.0	U	56.0			QL=4 ST=2 TYP=3
	950	GORK	4 S/F	0946.6	0946.9	1.1	17.0			
	650	GORK	2 S/F	0946.8	0947.5	1.1	5.0			
	234	POTS	8 S	1040.3	1040.4	0.2	450.0			
	204	IZMI	42 SER	1055.0	1106.0	14.0	55.0			
	650	GORK	1 S	1102.8	1103.0	1.0	1.0			
	650	GORK	2 S/F	1104.7	1106.0	2.7	4.0			
	9400	HUAN	1 S	1251.7	1254.9	7.5	16.2	5.4		
	536	ONDR	42 SER	1306.0	1329.5	27.0	67.0			
	3000	POTS	1 S	1310.0	1310.7	2.0	5.0			
	9400	HUAN	1 S	1327.8	1330.0	5.4	10.1	3.1		
	3000	POTS	1 S	1329.0	1330.0	2.5	5.0			
	9500	POTS	3 S	1329.0	1330.0	2.5	12.0			
	1470	POTS	1 S	1329.0	1330.0	2.5	3.0			
	9500	POTS	40 F	1432.5	1437.0	28.0	69.0			
	9400	HUAN	4 S/F	1432.6	1436.8	10.6	58.6	30.6		
	3000	POTS	40 F	1433.0	1435.2	13.0	76.0			
	2800	OTTA	4 S/F	1433.0	1435.3	10.3	181.4	36.0		
	1470	POTS	40 F	1433.0	1440.8	27.0	12.0			
	15400	SGMR	4 S/F	1434.0E	1437.0	8.00	75.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1434.0E	1435.0	7.00	190.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1434.0E	1437.0	7.00	52.0			QL=4 ST=2 TYP=5
	8800	SVTO	4 S/F	1434.0E	1437.0	7.00	55.0			QL=4 ST=2 TYP=5
	15400	SVTO	4 S/F	1434.0E	1437.0	7.00	63.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1434.0E	1435.0	6.00	160.0			QL=4 ST=2 TYP=5
	9400	HUAN	29 PBI	1443.2	1443.2	81.9	11.1	5.0		
	2800	OTTA	29 PBI	1443.3	1610.2	285.0	8.6	4.0		
2800	OTTA	4 S/F	1445.2	1445.4	2.0	25.2	5.0			
9400	HUAN	20 GRF	1803.2	1837.6	63.3	8.1	6.6			
2800	OTTA	4 S/F	1803.9	1805.4	3.7	8.9	2.0			
2800	OTTA	20 GRF	2050.0	2116.0	94.0	3.6	1.0			
05	245	LEAR	8 S	0147.0E	0147.0	U	150.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0147.0E	0147.0	1.00	120.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0400.5	0400.7	1.0	62.0			0
	2950	GORK	23 GRF	0403.0	0444.8	76.9	13.0			
	650	GORK	2 S/F	0412.8	0415.5	4.6	4.0			
	2850	CRIM	42 SER	0420.0	0448.0		18.0			
	2850	CRIM	42 SER	0420.0	0430.0	40.0	11.0			
	500	HIRA	27 RF	0420.0	0450.0	100.0	5.0	3.0		0
	2850	CRIM	42 SER	0420.0	0442.4		22.0	7.0		
	950	GORK	23 GRF	0420.2	0434.3	37.6	13.0			
	650	GORK	22 GRF	0420.6	0442.2	41.4	11.0			
	950	GORK	46 C	0428.8	0429.1	2.7	15.0			
	950	GORK	46 C	0428.8	0430.8		19.0			
	2950	GORK	2 S/F	0429.0	0430.0	1.5	7.0			
	9100	GORK	20 GRF	0434.4	0442.5	30.9	11.0			
	2950	GORK	2 S/F	0438.9	0442.3	4.8	13.0			
	2950	GORK	45 C	0447.2	0448.0	5.4	11.0			
	2950	GORK	45 C	0447.2	0449.9		11.0			
	245	SVTO	4 S/F	0458.0E	0501.0	8.00	190.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0500.0E	0501.0	1.00	180.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0500.0E	0501.0	1.00	45.0			QL=2 ST=2 TYP=3
	410	SVTO	4 S/F	0500.0E	0500.0	4.00	81.0			QL=4 ST=2 TYP=3
	260	ONDR	42 SER	0700.0	1245.0	540.0	269.0			
100	GORK	4 S/F	0800.0	0804.6	6.8	30.0				

30
Sep 90

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

SEPTEMBER 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
05	100	GORK	46 C	0813.2	0815.5	3.0	330.0			
	100	GORK	46 C	0813.2	0815.8		500.0			
	33	UPIC	8 S	1037.0	1037.2	0.6				
	234	POTS	41 F	1242.7	1245.1	3.0	450.0			
	113	POTS	41 F	1242.8	1245.1	3.3	50.0			
	40	POTS	41 F	1242.9	1245.1	3.2	1700.0			
	245	SVTO	8 S	1244.0E	1245.0	1.00	410.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1245.0E	1245.0	U	260.0			QL=4 ST=2 TYP=3
	33	UPIC	3 S	1245.0	1245.1	0.5				
	2800	OTTA	20 GRF	1322.5	1335.0	66.0	4.9	2.0		
	245	PALE	8 S	1957.0E	1957.0	2.00	230.0			QL=4 ST=2 TYP=3
500	HIRA	46 C	2300.5	2304.0	5.5	28.0			0	
06	204	I2MI	43 NS	0600.0		360.0	10.0			
	2950	GORK	45 C	0525.6	0527.8		49.0			
	2950	GORK	45 C	0525.6	0526.8	3.5	67.0			
	2950	GORK	29 PBI	0529.1	0529.1	63.9	14.0			
	260	ONDR	42 SER	0700.0		540.0				
	245	SVTO	8 S	1026.0E	1026.0	1.00	360.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1032.0E	1032.0	1.00	400.0			QL=4 ST=2 TYP=3
	204	I2MI	41 F	1137.0	1137.5	1.0	12.0			
	2800	OTTA	20 GRF	1535.0	1614.0	85.0	5.1	2.0		
	2800	OTTA	20 GRF	1912.0	1953.5	92.0	3.2	1.0		
	2800	OTTA	42 SER	2106.0	2108.5	10.2	12.9	3.0		
	2800	OTTA	42 SER	2106.0	2142.5	42.7				
	500	HIRA	46 C	2114.9	2126.3		8.0			0
	500	HIRA	46 C	2114.9	2140.6	30.5	17.0	4.0		0
	2800	OTTA	42 SER	2120.5	2121.3	2.1	13.7	3.0		
	200	HIRA	46 C	2123.1	2140.3	34.0	98.0	11.0		0
	200	HIRA	46 C	2123.1	2124.8		12.0			0
	2800	OTTA	42 SER	2123.7	2123.9	1.5	15.9	3.0		
	100	HIRA	46 C	2127.0	2135.3	9.2	145.0			
	2800	OTTA	42 SER	2127.5	2130.5	6.7	5.6	2.0		
410	SGMR	8 S	2134.0E	2134.0	1.00	79.0			QL=2 ST=2 TYP=3	
245	SGMR	8 S	2136.0E	2136.0	U	80.0			QL=2 ST=2 TYP=3	
245	SGMR	8 S	2139.0E	2141.0	2.00	72.0			QL=2 ST=2 TYP=3	
2800	OTTA	42 SER	2140.8	2142.6	7.9	12.4	3.0			
07	410	SVTO	44 NS	0537.0E	0539.0	29.00	89.0			QL=4 ST=2 TYP=1
	245	SVTO	44 NS	0537.0E	0539.0	29.00	340.0			QL=4 ST=2 TYP=1
	2840	PEKG	45 C	0521.0	0526.7	13.0	81.7			
	100	GORK	46 C	0524.0	0548.1		130.0			
	100	GORK	46 C	0524.0	0526.5	36.0	1550.0			
	100	HIRA	48 C	0525.1		33.7	1000.00	130.00		
	9300	KISV	23 GRF	0525.2	0548.3	57.8	17.0			
	200	HIRA	46 C	0525.4	0554.8		140.0			MR
	200	HIRA	46 C	0525.4	0540.9	74.5	160.0	25.0		MR
	650	GORK	4 S/F	0525.5	0526.3	1.5	50.0			
	500	HIRA	46 C	0525.5	0526.5		54.0			WR
	500	HIRA	46 C	0525.5	0549.8	42.5	102.0	17.0		MR
	9300	KISV	2 S/F	0525.6	0528.2	7.6	16.0			
	200	GORK	46 C	0525.7	0527.3	31.3	140.0			
	200	GORK	46 C	0525.7	0541.7		90.0			
	2850	CRIM	25 R	0525.8	0700.0		18.0			
	2850	CRIM	45 C	0525.8	0527.5		55.0			
	950	GORK	3 S	0525.8	0526.6	1.2	8.0			
	2850	CRIM	45 C	0525.8	0526.8	5.2	79.0	28.0		
	410	LEAR	8 S	0526.0E	0526.0	1.00	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0526.0E	0526.0	2.00	35.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0526.0E	0526.0	1.00	52.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0526.0E	0526.0	3.00	75.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0526.0E	0528.0	2.00	15.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0526.0E	0526.0	1.00	17.0			QL=4 ST=2 TYP=3
410	SVTO	8 S	0526.0E	0526.0	1.00	59.0			QL=4 ST=2 TYP=3	
2695	SVTO	8 S	0526.0E	0526.0	2.00	68.0			QL=4 ST=2 TYP=3	
9100	GORK	45 C	0526.1	0527.0	6.9	13.0				
9100	GORK	45 C	0526.1	0528.0		14.0				
650	GORK	30 PBI	0527.0	0527.0	40.7	5.0				
950	GORK	30 PBI	0527.0	0527.0	42.00	4.0				

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

31
Sep 90

SEPTEMBER 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
07	600	HUMN	41 F	0535.0	0543.0	40.0	24.0			
	9100	GORK	20 GRF	0536.0	0548.0	33.0	9.0			
	650	GORK	46 C	0536.5	0547.5		18.0			
	650	GORK	46 C	0536.5	0600.7		20.0			
	650	GORK	46 C	0536.5	0543.9	29.0	60.0			
	245	LEAR	4 S/F	0537.0E	0539.0	8.0D	380.0			QL=4 ST=2 TYP=3
	950	GORK	46 C	0537.9	0600.0		5.0			
	950	GORK	46 C	0537.9	0547.1		19.0			
	950	GORK	46 C	0537.9	0543.2	25.9	10.0			
	610	LEAR	4 S/F	0538.0E	0543.0	6.0D	51.0			QL=4 ST=2 TYP=5
	410	LEAR	4 S/F	0538.0E	0539.0	27.0D	84.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0543.0E	0544.0	1.0D	14.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0559.0E	0600.0		13.0			QL=4 ST=2 TYP=3
	260	ONDR	41 F	1034.0		125.0				
	100	GORK	47 GB	1043.9	1047.0	15.0	3200.0			
	113	POTS	4 S/F	1045.5	1047.7	4.5	400.0			
	40	POTS	4 S/F	1045.6	1047.6	4.4	14000.0			
	950	GORK	46 C	1151.3	1152.3	8.7D	6.0			
	950	GORK	46 C	1151.3	1155.8		7.0			
	650	GORK	46 C	1152.0	1152.4	8.0D	4.0			
	650	GORK	46 C	1152.0	1154.8		14.0			
	650	GORK	46 C	1152.0	1155.9		10.0			
	1470	POTS	42 SER	1152.0	1159.9	15.0	8.0			
	536	ONDR	41 F	1153.0	1155.4	15.0	22.0			
	245	PALE	4 S/F	1932.0E	1934.0	3.0D	74.0			QL=4 ST=2 TYP=3
	200	HIRA	46 C	2216.0	2220.6	6.6	37.0			0
	200	HIRA	27 RF	2226.7	2243.5	41.0	10.0			0
	100	HIRA	27 RF	2236.0	2256.8	43.0	60.0	17.0		
	2695	PENT	3 S	2250.8	2256.4	10.1	22.7	6.0		
	2695	PENT	3 S	2305.1	2305.9	3.1	19.8	5.0		
08	245	LEAR	8 S	0300.0E	0300.0	1.0D	71.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0300.0E	0300.0		18.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0300.0E	0300.0	1.0D	67.0			QL=4 ST=2 TYP=3
	200	HIRA	42 SER	0300.0	0307.3	9.2	93.0			0
	260	ONDR	41 F	0700.0	1137.1	540.0	245.0			
	234	POTS	45 C	1032.0	1136.7	67.0	650.0			
	536	ONDR	45 C	1033.8	1052.5	65.0	120.0			
	204	IZMI	25 R	1035.0	1053.0	37.0	25.0			
	113	POTS	45 C	1042.0	1134.5	73.0	125.0			
	127	TORN	27 RF	1044.0U	1052.3	29.0U	30.0	15.0		
	2850	CRIM	7 C	1044.0	1053.8	26.0	13.0			
	2850	CRIM	7 C	1044.0	1100.9		20.0	7.0		
	808	ONDR	41 F	1046.4	1049.0	8.0	61.0			
	600	HUMN	4 S/F	1048.0	1049.5	8.0	84.0	19.0		
	610	SGMR	4 S/F	1049.0E	1049.0	4.0D	170.0			QL=4 ST=2 TYP=3
	1470	POTS	22 GRF	1050.0	1100.7	25.0	18.0			
	410	SGMR	4 S/F	1051.0E	1051.0	3.0D	95.0			QL=4 ST=2 TYP=3
	30	POTS	42 SER	1102.0U	1135.1	35.0U	2000.0U			
	245	SVTO	4 S/F	1106.0E	1110.0	774.0D	190.0			QL=4 ST=3 TYP=5
	410	SVTO	4 S/F	1107.0E	1110.0	773.0D	110.0			QL=4 ST=3 TYP=5
	245	SGMR	4 S/F	1109.0E	1110.0	4.0D	160.0			QL=4 ST=2 TYP=3
	204	IZMI	45 C	1109.0	1110.4	6.0	123.0			
	410	SGMR	4 S/F	1110.0E	1110.0	3.0D	82.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	1133.0	1134.0	7.0	170.0			
	245	SGMR	4 S/F	1134.0E	1136.0	3.0D	460.0			QL=4 ST=2 TYP=5
	245	SVTO	4 S/F	1134.0E	1136.0	4.0D	400.0			QL=2 ST=2 TYP=5
	127	TORN	46 C	1134.4	1134.8	7.0	260.0	30.0		
	33	UPIC	8 S	1134.6	1134.7	0.5				
	410	SGMR	8 S	1136.0E	1136.0		67.0			QL=4 ST=3 TYP=3
	33	UPIC	8 S	1136.2	1137.0	1.5				
2800	OTTA	20 GRF	1457.0	1459.0	15.5	5.7	2.0			
9400	HUAN	22 GRF	1618.4	1643.8	72.1	6.5	2.1			
9400	HUAN	2 S/F	1954.3	1957.2	8.2	3.3	2.9			
9400	HUAN	2 S/F	2016.1	2019.0	8.6	4.1	1.8			
2800	OTTA	22 GRF	2201.0	2215.5	80.0	20.4	4.0			
09	500	HIRA	41 F	0016.5	0018.5	26.5	6.0			0
	500	HIRA	46 C	0043.5	0059.0	34.0	52.0	7.0		0

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

SEPTEMBER 1990

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 ⁻²² W/m ² Hz)	Mean		
09	204 IZMI	8 S	0623.0	0623.1	0.2	123.0	100.0		
	500 HIRA	4 S/F	0638.2	0639.5	3.0	13.0			0
	260 ONDR	41 F	0700.0	0814.7	540.0	245.0			
	260 ONDR	41 F	0700.0	0814.7	540.0	85.0			
	200 GORK	4 S/F	0735.7	0737.7	5.2	30.0			
	100 GORK	4 S/F	0739.2	0740.2	2.6	35.0			
	650 GORK	40 F	0825.7	0845.3		4.0			
	650 GORK	40 F	0825.7	0830.8	21.8	3.0			
	950 GORK	40 F	0825.9	0830.9	8.1	2.0			
	204 IZMI	5 S	0830.5	0831.1	0.8	15.0	7.0		
	950 GORK	40 F	0844.1	0845.3	5.6	3.0			
	15400 LEAR	8 S	0938.0E	0938.0	1.0D	74.0			QL=4 ST=2 TYP=3
	410 SVTO	20 GRF	1249.0E	1300.0	15.0D	61.0			QL=4 ST=2 TYP=2
	410 SVTO	8 S	1307.0E	1307.0	U	26.0			QL=4 ST=2 TYP=3
	9400 HUAN	22 GRF	1522.5	1534.8	45.5	4.0	1.6		
	245 SGMR	8 S	1620.0E	1620.0	U	160.0			QL=2 ST=2 TYP=3
	9400 HUAN	20 GRF	1942.2	2007.0	45.8	6.0	4.5		
9400 HUAN	2 S/F	2151.8	2158.6	14.3	8.0	5.5			
15400 LEAR	8 S	2320.0E	2321.0	1.0D	160.0			QL=4 ST=2 TYP=3	
10	260 ONDR	41 F	0700.0	1337.0	540.0	58.0			
	9300 KISV	45 C	0835.5	0836.1	2.7	8.0			
	9300 KISV	45 C	0835.5	0837.1		8.0			
	536 ONDR	42 SER	1338.5	1338.9	7.0	41.0			
	9400 HUAN	1 S	1643.7	1646.3	5.4	4.1	1.9		
	15400 SGMR	49 GB	1951.0E	1951.0	249.0D	540.0			QL=2 ST=1 TYP=6
11	245 LEAR	8 S	0625.0E	0626.0	2.0D	180.0			QL=4 ST=2 TYP=3
	245 SVTO	8 S	0625.0E	0626.0	1.0D	170.0			QL=4 ST=2 TYP=3
	260 ONDR	41 F	0700.0	1059.7	480.0	25.0			
	536 ONDR	3 S	0800.9	0801.2	0.7	14.0			
	410 LEAR	8 S	0921.0E	0921.0	2.0D	58.0			QL=4 ST=2 TYP=3
	410 SVTO	8 S	0921.0E	0921.0	U	78.0			QL=2 ST=2 TYP=3
	536 ONDR	41 F	1246.3	1246.5	3.0	26.0			
	536 ONDR	8 S	1433.4	1433.7	1.2	95.0			
	9400 HUAN	20 GRF	1436.0	1445.6	21.1	3.8	1.2		
	9400 HUAN	20 GRF	1805.2	1821.0	36.1	7.5	1.7		
	9400 HUAN	1 S	1851.0	1856.0	12.0	4.7	2.1		
12	2840 PEKG	28 PRE	0036.0	0052.5	17.0	11.1			
	2840 PEKG	45 C	0053.0	0059.7	21.0D	116.2			
	500 HIRA	4 S/F	0054.5	0100.3	9.0	6.0			0
	2695 LEAR	4 S/F	0055.0E	0100.0	9.0D	81.0			QL=4 ST=2 TYP=5
	2695 PALE	4 S/F	0056.0E	0100.0	5.0D	73.0			QL=4 ST=2 TYP=5
	4995 LEAR	4 S/F	0058.0E	0100.0	6.0D	50.0			QL=4 ST=2 TYP=3
	4995 PALE	8 S	0100.0E	0100.0	1.0D	50.0			QL=4 ST=2 TYP=3
	2950 GORK	21 GRF	0359.1	0831.4	480.9D	11.0			
	260 ONDR	41 F	0700.0	0953.2	480.0	44.0			
	204 IZMI	41 F	0735.0	0738.0	3.5	31.0			
	2950 GORK	2 S/F	0744.4	0746.3	2.8	4.0			
	234 POTS	41 F	0950.8	0953.2	4.8	150.0			
	245 LEAR	8 S	0952.0E	0953.0	1.0D	240.0			QL=4 ST=2 TYP=3
	204 IZMI	41 F	0952.0	0953.5	3.5	90.0			
	127 TORN	42 SER	1028.3	1028.6	9.0	100.0			DISTURBED
	204 IZMI	42 SER	1029.0	1039.5	17.0	55.0			
	204 IZMI	42 SER	1059.0	1059.5	6.0	35.0			
	536 ONDR	8 S	1340.0	1340.8	0.8	167.0			
	33 UPIC	4 S/F	1345.3	1345.4	0.8				
	2800 OTTA	3 S	1858.2	1901.5	6.3	25.8	7.0		
2800 OTTA	3 S	1904.5	1906.1	3.9	9.7	3.0			
245 SGMR	8 S	1905.0E	1905.0	U	53.0			QL=4 ST=2 TYP=3	
2800 OTTA	29 PBI	1908.4	1913.3	31.4	4.3	2.0			
13	204 IZMI	43 NS	0600.0		360.0	20.0			
	245 SVTO	44 NS	0628.0E	0632.0	1052.0D	84.0			QL=4 ST=1 TYP=1
	260 ONDR	44 NS	0700.0E	1016.1	275.0D	41.0			
	430 KRAK	NS	0713.0E		350.0D				
	234 POTS	43 NS	0743.5	0904.0	337.0	40.0			
	127 TORN	43 NS	0827.0		300.0		9.0		V=1

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

33
Sep 90

SEPTEMBER 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
13	113	POTS	43 NS	0843.0	0912.0	247.0	22.0			
	245	SGMR	44 NS	2210.0E	2210.0	26.0D	90.0			QL=4 ST=2 TYP=1
	500	HIRA	27 RF	0226.0	0240.0	47.5	6.0	2.0		0
	245	LEAR	4 S/F	0352.0E	0354.0	3.0D	54.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0457.0E	0457.0	U	58.0			QL=4 ST=3 TYP=3
	245	LEAR	8 S	0741.0E	0741.0	2.0D	87.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0755.0E	0756.0	2.0D	61.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0806.0E	0806.0	1.0D	100.0			QL=4 ST=2 TYP=3
	3013	IZMI	1 S	0836.3	0836.8	1.3	3.0	2.0		
	2950	GORK	21 GRF	0836.4	1030.0	203.6D	7.0			
	204	IZMI	25 R	0847.0		25.0	25.0			
	950	GORK	2 S/F	0931.1	0931.8	1.7	4.0			
	3000	POTS	3 S	1027.0	1027.6	1.5	19.0			
	950	GORK	3 S	1027.2	1027.6	0.8	16.0			
	3013	IZMI	3 S	1027.2	1027.6	1.0	15.0	8.0		
	2950	GORK	3 S	1027.3	1027.7	0.8	20.0			
	2850	CRIM	8 S	1027.4	1027.7	0.7	29.0	8.0		
	260	ONDR	41 F	1135.0	1318.3	205.0	76.0			
	9400	HUAN	20 GRF	1302.8	1321.6	36.4	8.7	1.8		
	536	ONDR	42 SER	1306.0	1329.0	81.0	51.0			
	9400	HUAN	22 GRF	1414.5	1432.1	34.5	5.4	4.1		
	245	SGMR	8 S	2019.0E	2020.0	1.0D	90.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	2020.0E	2020.0	U	66.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2033.0E	2033.0	1.0D	74.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2033.0E	2033.0	1.0D	100.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	2200.0E	2200.0	U	160.0			QL=4 ST=2 TYP=3
245	SGMR	8 S	2200.0E	2200.0	U	170.0			QL=4 ST=2 TYP=3	
200	HIRA	8 S	2200.0	2200.3	0.7	150.0			0	
245	PALE	8 S	2204.0E	2204.0	U	270.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2204.0E	2204.0	U	340.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2209.0E	2210.0	1.0D	88.0			QL=4 ST=2 TYP=3	
14	430	KRAK	NS	0700.0E		369.0D				
	4995	PALE	8 S	0056.0E	0056.0	U	57.0			QL=4 ST=2 TYP=3
	2840	PEKG	45 C	0401.0	0415.2	20.0	23.7			
	9100	GORK	46 C	0408.0	0412.0	11.9	30.0			
	9100	GORK	46 C	0408.0	0415.4		37.0			
	2950	GORK	46 C	0409.0	0412.2	13.2	23.0			
	2950	GORK	46 C	0409.0	0915.4		32.0			
	950	GORK	46 C	0409.3	0412.3	13.5	18.0			
	950	GORK	46 C	0409.3	0418.4		10.0			
	950	GORK	46 C	0409.3	0415.6		16.0			
	500	HIRA	46 C	0410.0	0413.0	10.3	40.0	11.0		0
	650	GORK	46 C	0410.3	0413.1		34.0			
	650	GORK	46 C	0410.3	0415.3		17.0			
	650	GORK	46 C	0410.3	0411.5	10.4	30.0			
	200	HIRA	46 C	0410.4	0414.5	11.9	140.0	21.0		WL
	100	HIRA	48 C	0413.7	0414.9	12.5	3800.0	790.0		WL
	9100	GORK	29 PBI	0419.9	0419.9	70.1	12.0			
	245	LEAR	8 S	0448.0E	0448.0	1.0D	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0524.0E	0524.0	U	60.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0524.0E	0524.0	U	53.0			QL=4 ST=2 TYP=3
	650	GORK	4 S/F	0537.8	0538.1	0.9	42.0			
	950	GORK	4 S/F	0538.0	0538.1	0.8	35.0			
	650	GORK	4 S/F	0541.7	0542.0	0.6	25.0			
	950	GORK	4 S/F	0541.7	0542.0	0.4	14.0			
	245	LEAR	8 S	0648.0E	0648.0	1.0D	67.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0648.0E	0648.0	U	67.0			QL=4 ST=2 TYP=3
204	IZMI	5 S	0648.0	0648.5	0.7	180.0	100.0			
260	ONDR	41 F	0700.0E	1326.9	480.0D	242.0				
2850	CRIM	25 R	0802.0	0846.0		10.0				
204	IZMI	42 SER	0818.0	0849.0	38.0	130.0				
245	LEAR	8 S	0830.0E	0831.0	2.0D	74.0			QL=4 ST=2 TYP=3	
245	LEAR	8 S	0843.0E	0843.0	2.0D	120.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	0843.0E	0843.0	1.0D	130.0			QL=4 ST=2 TYP=3	
245	LEAR	8 S	0854.0E	0855.0	1.0D	55.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	0855.0E	0855.0	U	54.0			QL=4 ST=2 TYP=3	
950	GORK	4 S/F	0932.1	0932.5	0.6	12.0				
3000	POTS	3 S	0955.0	0955.8	1.5	14.0				

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

SEPTEMBER 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean (2 Hz)	Int	Remarks
14	2950	GORK	46 C	0955.1	0956.0	6.3	12.0			
	2950	GORK	46 C	0955.1	0959.8		10.0			
	2850	CRIM	7 C	0955.2	0959.8		8.7			
	2850	CRIM	7 C	0955.2	0955.9	6.0	13.6	5.0		
	3013	IZMI	41 F	0955.5	0959.7	7.8	12.0			
	3013	IZMI	1 S	1103.3	1104.2	1.5	3.0	2.0		
	2850	CRIM	1 S	1103.8	1104.1	1.1	5.0	2.0		
	30	POTS	4 S/F	1126.8	1127.3	1.6	4000.00			
	234	POTS	8 S	1126.8	1126.9	0.8	100.0			
	113	POTS	4 S/F	1126.9	1127.4	1.5	200.0			
	245	SVTO	8 S	1127.0E	1127.0	U	90.0			QL=2 ST=2 TYP=3
	33	UPIC	42 SER	1127.0	1127.1	249.7				
	204	IZMI	5 S	1127.4	1127.6	1.0	270.0	180.0		
	2850	CRIM	2 S/F	1254.6	1255.0	1.2	19.2	6.0		
	9400	HUAN	3 S	1254.6	1255.4	4.3	83.3	22.2		
	2800	OTTA	4 S/F	1254.7	1255.3	2.5	13.2	2.0		
	8800	SVTO	8 S	1255.0E	1255.0	2.00	77.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1255.0E	1255.0	1.00	73.0			QL=4 ST=2 TYP=3
	9500	POTS	4 S/F	1255.0	1255.1	1.5	56.0			
	3000	POTS	4 S/F	1255.0	1255.4	1.5	16.0			
	1470	POTS	21 GRF	1325.0	1358.0	80.0	22.0			
	9500	POTS	20 GRF	1325.0	1404.0	95.0	42.0			
	3000	POTS	21 GRF	1325.0	1404.0U	80.0	33.0			
	234	POTS	45 C	1325.0	1328.6	65.0U	800.0			
	2800	OTTA	22 GRF	1326.0	1419.0	270.0	42.1	16.0		
	245	SGMR	49 GB	1326.0E	1328.0	4.00	580.0			QL=2 ST=2 TYP=6
	536	ONDR	42 SER	1326.0	1417.2	60.0	158.0			
	113	POTS	45 C	1326.3	1328.6	66.8	1100.0			
	33	UPIC	48 C	1326.5		5.0				
	127	TORN	46 C	1326.5	1328.6	4.0	1400.0	260.0		
	30	POTS	4 S/F	1326.6	1327.5U	4.8	4000.00			
	610	SGMR	8 S	1328.0E	1328.0	U	81.0			QL=4 ST=2 TYP=3
	9400	HUAN	23 GRF	1328.2	1359.2U	41.0	48.8	28.1		
	9400	HUAN	1 S	1402.2	1404.6	3.9	8.6	4.7		
	600	HUMN	41 F	1525.5	1528.0	10.0	25.0			
	610	SGMR	8 S	1526.0E	1528.0	2.00	89.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1526.0E	1526.0	1.00	60.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1703.0E	1703.0	U	170.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1703.0E	1703.0	U	180.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1909.0E	1909.0	U	52.0			QL=4 ST=2 TYP=3
	2800	OTTA	20 GRF	2000.0	2008.5	290.0	39.8	11.0		
	9400	HUAN	22 GRF	2000.9	2012.1	76.7	26.5	12.2		
	410	PALE	4 S/F	2006.0E	2009.0	6.00	51.0			QL=4 ST=2 TYP=5
	2695	PALE	4 S/F	2006.0E	2008.0	4.00	40.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	2006.0E	2008.0	4.00	42.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	2006.0E	2010.0	6.00	90.0			QL=4 ST=2 TYP=5
	245	PALE	8 S	2007.0E	2007.0	2.00	70.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2007.0E	2009.0	4.00	32.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2007.0E	2009.0	6.00	33.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2007.0E	2007.0	2.00	76.0			QL=2 ST=2 TYP=3
	8800	SGMR	4 S/F	2007.0E	2009.0	5.00	34.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	2007.0E	2009.0	5.00	38.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	2007.0E	2008.0	3.00	37.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2007.0E	2008.0	3.00	40.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2011.0E	2012.0	1.00	48.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2012.0E	2012.0	1.00	51.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	2013.0E	2015.0	2.00	33.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	2016.0E	2020.0	6.00	180.0			QL=4 ST=2 TYP=5
	245	SGMR	4 S/F	2016.0E	2020.0	7.00	180.0			QL=2 ST=2 TYP=5
	610	PALE	4 S/F	2042.0E	2042.0	7.00	92.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2042.0E	2042.0	U	120.0			QL=4 ST=3 TYP=3
	410	PALE	4 S/F	2052.0E	2056.0	6.00	60.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2055.0E	2056.0	2.00	93.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2118.0E	2118.0	U	55.0			QL=2 ST=2 TYP=3
	9400	HUAN	22 GRF	2201.2	2211.1	15.2	7.0	4.0		
	100	HIRA	8 S	2211.9		1.0	1000.00			
	245	PALE	49 GB	2212.0E	2212.0	U	650.0			QL=4 ST=2 TYP=6
	245	SGMR	8 S	2212.0E	2212.0	U	730.0			QL=2 ST=2 TYP=3
	200	HIRA	8 S	2212.1	2212.3	0.7	1600.0			0

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

35
Sep 90

SEPTEMBER 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m ² Hz)	Mean		
15	2840	PEKG	45 C	0426.0	0428.2	8.0	30.9			
	200	HIRA	48 C	0427.7	0428.1	2.2	10000.0	1600.0	0	
	2850	CRIM	3 S	0427.8	0428.2	2.2	28.4	7.0		
	950	GORK	46 C	0427.9	0429.0		27.0			
	950	GORK	46 C	0427.9	0428.4	2.1	20.0			
	1415	LEAR	8 S	0428.0E	0428.0	1.0D	50.0			QL=4 ST=3 TYP=3
	610	LEAR	8 S	0428.0E	0429.0	1.0D	26.0			QL=4 ST=3 TYP=3
	410	LEAR	8 S	0428.0E	0428.0	1.0D	320.0			QL=4 ST=3 TYP=3
	245	LEAR	49 GB	0428.0E	0428.0	3.0D	15000.0			QL=4 ST=3 TYP=6
	500	HIRA	46 C	0428.0	0428.6	2.6	24.0			WR
	650	GORK	4 S/F	0428.0	0428.9	2.0	25.0			
	2950	GORK	46 C	0428.2	0429.0		17.0			
	2950	GORK	46 C	0428.2	0428.4	3.4	18.0			
	245	LEAR	8 S	0438.0E	0438.0	U	78.0			QL=4 ST=2 TYP=3
	2950	GORK	21 GRF	0706.0	0754.2	159.0	15.0			
	2850	CRIM	24 R	0742.0	0747.0		22.7			
	3013	IZMI	7 C	0748.7	0751.5	11.5	35.0	17.0		
	2950	GORK	4 S/F	0748.9	0751.5	5.1	28.0			
	4995	LEAR	4 S/F	0749.0E	0749.0	4.0D	61.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0749.0E	0751.0	3.0D	42.0			QL=4 ST=2 TYP=3
	9500	POTS	20 GRF	0749.0	0818.0	76.0	19.0			
	1470	POTS	3 S	0749.0	0751.5	9.0	12.0			
	3000	POTS	4 S/F	0749.0	0751.5	11.0	34.0			
	9100	GORK	20 GRF	0749.3	0918.0	106.7	18.0			
	1415	LEAR	8 S	0751.0E	0751.0	U	11.0			QL=4 ST=2 TYP=3
	33	UPIC	42 SER	0812.4		475.6				
	204	IZMI	42 SER	0835.7	0837.3	2.0	43.0			
9400	HUAN	20 GRF	1951.3	2014.2	40.7	8.9	3.0			
16	610	LEAR	4 S/F	0116.0E	0122.0	7.0D	140.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0121.0E	0122.0	2.0D	120.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0553.0E	0553.0	1.0D	94.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0553.0E	0553.0	1.0D	94.0			QL=4 ST=2 TYP=3
	260	ONDR	41 F	0700.0	0854.7	480.0	66.0			
	234	POTS	41 F	0852.4	0854.7	3.3	220.0			
	30	POTS	41 F	0852.5	0855.2	3.7	400.0U			
	33	UPIC	42 SER	0852.5	1001.5	375.0				
	204	IZMI	42 SER	0852.5	0852.8	4.3	350.0			
	113	POTS	41 F	0852.6	0855.2	3.5	130.0			
	245	LEAR	8 S	0853.0E	0854.0	2.0D	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0854.0E	0854.0	1.0D	130.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0947.0E	0947.0	U	100.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0950.0	0958.4	12.0	200.0			
	113	POTS	4 S/F	0957.2	0958.9	2.8	200.0			
	234	POTS	4 S/F	0957.3	0958.3	2.2	100.0			
	245	LEAR	8 S	0958.0E	0958.0	1.0D	51.0			QL=4 ST=3 TYP=3
	30	POTS	41 F	0958.4	1000.5	3.5	4000.0D			
	2800	OTTA	20 GRF	1415.0	1420.5	37.0	7.4	3.0		
	9400	HUAN	20 GRF	1418.8	1426.3	23.7	5.4	1.8		
	536	ONDR	41 F	1430.0	1433.6	5.3	29.0			
	9400	HUAN	2 S/F	1537.8	1540.6	9.3	3.6	1.0		
	2800	OTTA	22 GRF	1643.0	1644.5	35.0	8.1	3.0		
	2800	OTTA	20 GRF	1816.0	1850.0	94.0	4.3	2.0		
	610	PALE	8 S	1900.0E	1901.0	1.0D	310.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1900.0E	1901.0	1.0D	430.0			QL=4 ST=2 TYP=3
	2800	OTTA	4 S/F	1900.8	1901.4	3.1	12.0	2.0		
410	PALE	8 S	1901.0E	1901.0	1.0D	71.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1901.0E	1901.0	1.0D	120.0			QL=4 ST=2 TYP=3	
17	2840	PEKG	5 S	0308.0	0317.3	20.0	9.2			
	100	HIRA	42 SER	0311.9		5.9	1000.0D			
	245	LEAR	8 S	0312.0E	0312.0	1.0D	160.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0312.0E	0312.0	1.0D	82.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0312.0E	0313.0	1.0D	120.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0312.0E	0313.0	1.0D	210.0			QL=4 ST=2 TYP=3
	500	HIRA	42 SER	0312.5	0314.5	4.0	158.0			0
	245	PALE	8 S	0315.0E	0315.0	U	350.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0315.0E	0315.0	U	52.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0316.0E	0317.0	1.0D	200.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

SEPTEMBER 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean (W/m ² Hz)	Int	Remarks
17	610	LEAR	8 S	0317.0E	0317.0	U	230.0			QL=4 ST=2 TYP=3
	2950	GORK	2 S/F	0338.6	0341.7	4.7	18.0			
	650	GORK	46 C	0338.7	0340.6	3.6	70.0			
	650	GORK	46 C	0338.7	0341.7		70.00			
	610	LEAR	4 S/F	0340.0E	0341.0	4.00	140.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0340.0E	0341.0	2.00	120.0			QL=4 ST=2 TYP=3
	950	GORK	46 C	0340.2	0342.0		60.0			
	950	GORK	46 C	0340.2	0341.6	3.1	105.0			
	410	LEAR	8 S	0341.0E	0341.0	U	160.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0341.0E	0341.0	1.00	250.0			QL=4 ST=2 TYP=3
	9100	GORK	2 S/F	0341.4	0341.9	1.7	16.0			
	1415	LEAR	8 S	0351.0E	0351.0	1.00	170.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0351.0E	0351.0	1.00	200.0			QL=4 ST=2 TYP=3
	2850	CRIM	21 GRF	0538.9	0549.6	20.4	10.0	3.0		
	2840	PEKG	45 C	0546.0	0550.9	11.0	28.4			
	2950	GORK	21 GRF	0546.1	0554.3	11.3	5.0			
	610	LEAR	49 GB	0547.0E	0550.0	7.00	2100.0			QL=4 ST=2 TYP=6
	500	HIRA	41 F	0547.0	0550.0	10.0	430.0			SL
	650	GORK	46 C	0549.4	0553.0		75.00			
	650	GORK	46 C	0549.4	0551.7		75.00			
	650	GORK	46 C	0549.4	0550.7	5.5	75.00			
	33	UPIC	41 F	0549.5	0553.1	181.5				
	9100	GORK	46 C	0549.6	0553.1		26.0			
	9100	GORK	46 C	0549.6	0551.7	5.2	22.0			
	2950	GORK	46 C	0549.7	0553.0		20.0			
	950	GORK	46 C	0549.7	0553.0		25.0			
	2950	GORK	46 C	0549.7	0550.7	4.0	18.0			
	950	GORK	46 C	0549.7	0550.7	6.7	45.0			
	950	GORK	46 C	0549.7	0551.7		25.0			
	9300	KISV	45 C	0549.8	0553.1	5.2	24.0			
	9300	KISV	45 C	0549.8	0551.8		23.0			
	1415	LEAR	4 S/F	0550.0E	0553.0	3.00	100.0			QL=4 ST=2 TYP=5
	2695	LEAR	8 S	0550.0E	0550.0	1.00	19.0			QL=4 ST=2 TYP=3
	610	SVTO	49 GB	0550.0E	0550.0	1.00	1700.0			QL=4 ST=3 TYP=6
	100	HIRA	41 F	0550.1	0552.1	5.3	970.0			
	2850	CRIM	42 SER	0550.1	0552.2		29.0	10.0		
	2850	CRIM	42 SER	0550.1	0551.7		20.0			
	2850	CRIM	42 SER	0550.1	0550.9	3.5	24.0			
	15000	KISV	45 C	0550.6	0553.2	6.6	14.0			
	15000	KISV	45 C	0550.6	0551.8		11.0			
	8800	LEAR	8 S	0551.0E	0553.0	2.00	15.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0551.0E	0554.0	3.00	5000.0			QL=4 ST=2 TYP=7
	245	SVTO	49 GB	0551.0E	0554.0	3.00	2000.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	0552.0E	0554.0	2.00	410.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0553.0E	0553.0	U	120.0			QL=4 ST=3 TYP=3
260	ONDR	41 F	0700.0	1120.9	480.0	98.0				
2950	GORK	20 GRF	0715.3	0746.5	284.7	11.0				
9300	KISV	20 GRF	0726.9	0749.2	50.6	10.0				
245	SVTO	8 S	1131.0E	1132.0	1.00	190.0			QL=4 ST=2 TYP=3	
536	ONDR	42 SER	1323.0	1340.6	30.0	120.0				
600	HUMN	2 S/F	1329.0	1329.3	1.0	24.0	5.0			
808	ONDR	41 F	1333.4	1343.9	16.0	185.0				
15400	SGMR	4 S/F	1338.0E	1343.0	7.00	230.0			QL=4 ST=3 TYP=3	
245	SGMR	4 S/F	1339.0E	1344.0	6.00	97.0			QL=2 ST=3 TYP=3	
1415	SGMR	4 S/F	1339.0E	1343.0	6.00	200.0			QL=4 ST=3 TYP=3	
2695	SGMR	4 S/F	1339.0E	1343.0	6.00	130.0			QL=4 ST=3 TYP=3	
4995	SGMR	4 S/F	1339.0E	1343.0	6.00	190.0			QL=4 ST=3 TYP=3	
600	HUMN	2 S/F	1339.5	1340.5	1.0	116.0	58.0			
610	SGMR	49 GB	1340.0E	1343.0	5.00	650.0			QL=2 ST=3 TYP=6	
410	SGMR	4 S/F	1340.0E	1343.0	5.00	20.0			QL=2 ST=3 TYP=3	
8800	SGMR	4 S/F	1340.0E	1343.0	5.00	190.0			QL=4 ST=3 TYP=3	
9500	POTS	4 S/F	1340.0	1343.7	19.0	192.0				
9400	HUAN	4 S/F	1340.2	1343.5	7.8	210.0	31.3			
2800	OTTA	3 S	1340.7	1343.7	10.5	139.0	28.0			
600	HUMN	2 S/F	1341.7	1343.2	6.0	229.0	28.0			
1470	POTS	4 S/F	1342.5	1343.5	13.0	161.0				
2695	SVTO	8 S	1343.0E	1343.0	1.00	140.0			QL=4 ST=2 TYP=3	
4995	SVTO	8 S	1343.0E	1343.0	1.00	230.0			QL=4 ST=2 TYP=3	
610	SVTO	49 GB	1343.0E	1344.0	1.00	750.0			QL=2 ST=2 TYP=6	

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

37
Sep 90

SEPTEMBER 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean		
17	8800	SVTO	8 S	1343.0E	1343.0	1.00	240.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1343.0E	1343.0	1.00	230.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1343.0E	1343.0	617.00	210.0			QL=4 ST=1 TYP=3
	3000	POTS	3 S	1343.0	1343.6	7.0	112.0			
	234	POTS	42 SER	1343.1	1350.1	7.5	300.0			
	113	POTS	42 SER	1343.1	1343.2	7.5	100.0			
	40	POTS	4 S/F	1343.2	1343.3	1.2	550.0			
	245	SVTO	8 S	1350.0E	1350.0	U	310.0			QL=4 ST=2 TYP=3
	9400	HUAN	1 S	1611.6	1615.8	7.6	4.7	1.4		
	9400	HUAN	1 S	1748.5	1750.7	6.7	9.4	6.8		
	9400	HUAN	4 S/F	1845.1	1847.6	12.9	94.4	26.3		
	8800	PALE	8 S	1846.0E	1847.0	1.00	70.0			QL=4 ST=2 TYP=3
	2800	OTTA	3 S	1846.5	1847.9	6.8	27.3	6.0		
	4995	SGMR	8 S	1847.0E	1847.0	1.00	58.0			QL=4 ST=2 TYP=3
	500	HIRA	46 C	2152.5	2153.5	7.5	2300.0	145.0		WL
	200	HIRA	48 C	2152.5	2152.8	1.6	52000.0			WL
	2800	OTTA	3 S	2152.8	2154.1	6.5	503.0	100.0		
	100	HIRA	46 C	2153.0	2153.0	1.5	1000.00			
	8800	PALE	49 GB	2153.0E	2153.0	1.00	800.0			QL=4 ST=2 TYP=6
	15400	PALE	49 GB	2153.0E	2153.0	1.00	880.0			QL=4 ST=2 TYP=6
	2695	PALE	49 GB	2153.0E	2153.0	2.00	530.0			QL=4 ST=2 TYP=6
	245	PALE	49 GB	2153.0E	2153.0	1.00	6000.0			QL=4 ST=2 TYP=6
	410	PALE	49 GB	2153.0E	2153.0	1.00	23000.0			QL=4 ST=2 TYP=6
	610	PALE	49 GB	2153.0E	2153.0	3.00	1800.0			QL=4 ST=2 TYP=6
	4995	PALE	8 S	2153.0E	2153.0	1.00	500.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	2153.0E	2154.0	3.00	450.0			QL=4 ST=2 TYP=3
	410	SGMR	49 GB	2153.0E	2153.0	2.00	24000.0			QL=4 ST=2 TYP=6
	610	SGMR	49 GB	2153.0E	2153.0	2.00	1800.0			QL=4 ST=2 TYP=6
	4995	SGMR	49 GB	2153.0E	2153.0	1.00	510.0			QL=4 ST=3 TYP=6
	8800	SGMR	49 GB	2153.0E	2153.0	1.00	800.0			QL=4 ST=2 TYP=6
	2695	SGMR	49 GB	2153.0E	2153.0	2.00	540.0			QL=4 ST=2 TYP=6
	1415	SGMR	8 S	2153.0E	2154.0	2.00	380.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	2153.0E	2153.0	127.00	5700.0			QL=2 ST=3 TYP=6
	15400	SGMR	49 GB	2153.0E	2153.0	127.00	830.0			QL=4 ST=2 TYP=6
	17000	NOBE	4 S/F	2153.0	2153.7	4.0	713.0			R
35000	NOBE	2 S/F	2153.0	2153.7	1.4	267.0			R,80GHz:NO OBS	
18	4995	SVTO	4 S/F	0136.0E	0937.0	482.00	430.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0336.0	0337.6	6.0	27.9			
	260	ONDR	41 F	0700.0		480.0				
	3013	IZMI	3 S	0935.5	0937.2	6.0	70.0			
	245	LEAR	49 GB	0936.0E	0938.0	3.00	2500.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0936.0E	0938.0	2.00	2100.0			QL=4 ST=2 TYP=6
	4995	SVTO	8 S	0936.0E	0937.0	2.00	430.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	0936.0E	0938.0	2.00	6800.0			QL=4 ST=2 TYP=6
	2695	LEAR	4 S/F	0936.0E	0937.0	864.00	240.0			QL=4 ST=1 TYP=3
	9100	GORK	4 S/F	0936.0	0937.3	9.0	800.0			
	600	HUMN	3 S	0936.0	0936.8	8.0	107.0	7.0		
	2950	GORK	4 S/F	0936.2	0937.3	8.8	250.0			
	9500	POTS	3 S	0936.5	0937.4	8.5	504.0			
	430	KRAK	4 S/F	0936.5	0936.7U	4.50	80.0	30.00		
	650	GORK	4 S/F	0936.6	0937.3	2.4	136.0			
	950	GORK	4 S/F	0936.6	0937.3	2.4	128.0			
	9300	KISV	4 S/F	0936.6	0937.4U	8.4	111.00			
	234	POTS	41 F	0936.7	0937.0	3.3	8200.0			
	15000	KISV	4 S/F	0936.7	0937.4	8.3	306.00			
	1470	POTS	3 S	0936.7	0937.5	8.3	159.0			
	113	POTS	42 SER	0936.7	0941.8	13.3	1700.0			
	30	POTS	42 SER	0936.7	0941.9	8.7U	3600.0U			
	3000	POTS	3 S	0936.8	0937.3	9.7	182.0			
	810	KRAK	2 S/F	0936.8	0937.5	1.7	63.0	28.0		
	8800	SVTO	49 GB	0937.0E	0937.0	2.00	610.0			QL=4 ST=2 TYP=6
	15400	SVTO	8 S	0937.0E	0937.0	2.00	500.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0937.0E	0937.0	1.00	200.0			QL=4 ST=2 TYP=3
1415	SVTO	8 S	0937.0E	0937.0	1.00	190.0			QL=4 ST=2 TYP=3	
610	SVTO	8 S	0937.0E	0937.0	U	130.0			QL=2 ST=2 TYP=3	
610	LEAR	4 S/F	0937.0E	0937.0	863.00	110.0			QL=4 ST=1 TYP=3	
204	IZMI	42 SER	0937.0	0937.2	4.5	20000.0				
536	ONDR	41 F	0937.0	0937.3	55.0	188.0				

38
Sep 90

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

SEPTEMBER 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
18	808	ONDR	6 S	0937.2	0937.9	2.0	59.0			
	2850	CRIM	3 S	0937.5	0938.0	6.0	267.0	89.0		
	950	GORK	29 PBI	0939.0	0939.0	8.3	10.0			
	410	SVTO	8 S	0954.0E	0954.0	U	300.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	1032.2	1032.3	0.7	60.0			
	204	IZMI	5 S	1130.3	1130.4	0.2	20.0	10.0		
	536	ONDR	42 SER	1421.0	1421.2	19.5	128.0			
19	260	ONDR	41 F	0700.0	0751.8	480.0	133.0			
	9300	KISV	2 S/F	0727.4	0727.6	1.8	13.0			
	950	GORK	4 S/F	0742.6	0742.8	0.6	17.0			
	650	GORK	2 S/F	0742.8	0742.8	0.5	8.0			
	810	KRAK	42 SER	0902.8	0903.0	4.8	68.0			
	1415	SVTO	8 S	0903.0E	0903.0	1.00	55.0			QL=4 ST=2 TYP=3
	2850	CRIM	45 C	0903.0	0907.1		19.7			
	9300	KISV	46 C	0903.0	0906.1		19.0			
	9300	KISV	46 C	0903.0	0904.1	10.5	28.0			
	9100	GORK	2 S/F	0903.0	0904.2	6.0	27.0			
	2950	GORK	46 C	0903.0	0907.3		15.0			
	9300	KISV	46 C	0903.0	0908.4		12.0			
	1470	POTS	40 F	0903.0	0903.4	7.0	47.0			
	2850	CRIM	45 C	0903.0	0904.5	7.0	23.5	8.0		
	3000	POTS	40 F	0903.0	0904.5	7.0	22.0			
	2950	GORK	46 C	0903.0	0904.6	9.2	17.0			
	950	GORK	46 C	0903.1	0906.3		40.0			
	950	GORK	46 C	0903.1	0904.4	6.6	18.0			
	650	GORK	2 S/F	0903.1	0904.7	6.2	8.0			
	410	LEAR	8 S	0911.0E	0911.0	U	150.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0911.0E	0911.0	U	170.0			QL=4 ST=2 TYP=3
	2950	GORK	20 GRF	0929.7	1010.8	102.3	5.0			
	204	IZMI	42 SER	0933.0	0934.7	4.0	18.0			
9400	HUAN	22 GRF	1314.0	1327.4	35.4	3.7	1.7			
9400	HUAN	22 GRF	1544.0	1625.0	75.8	7.4	3.0			
9400	HUAN	22 GRF	1810.5	1829.0	39.0	6.5	4.3			
245	PALE	8 S	1904.0E	1905.0	2.00	54.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1904.0E	1905.0	1.00	61.0			QL=2 ST=2 TYP=3	
9400	HUAN	1 S	1913.8	1916.0	6.6	5.6	3.9			
410	PALE	8 S	1930.0E	1931.0	2.00	63.0			QL=4 ST=2 TYP=3	
20	204	IZMI	43 NS	0600.0		360.0	10.0			
	2840	PEKG	45 C	0114.0	0129.4	20.0	13.4			
	2950	GORK	22 GRF	0353.1	0354.1	18.9	9.0			
	204	IZMI	41 F	0600.0	0603.0	3.3	44.0			
	204	IZMI	41 F	0656.9	0658.3	2.5	55.0			
	260	ONDR	41 F	0700.0	1329.5	420.0	34.0			
	204	IZMI	41 F	0745.2	0750.0	10.5	62.0			
	113	POTS	4 S/F	0748.6	0749.7	2.4	120.0			
	245	SVTO	8 S	0830.0E	0831.0	1.00	52.0			QL=4 ST=2 TYP=3
	536	ONDR	42 SER	1058.0	1058.8	3.0	3.0			
	536	ONDR	8 S	1441.5	1441.8	0.5	8.0			
	2800	OTTA	3 S	1521.1	1521.8	3.1	11.1	2.0		
	410	SGMR	8 S	1754.0E	1754.0	U	63.0			QL=4 ST=2 TYP=3
	2800	OTTA	20 GRF	1824.0	1852.0	188.0	11.1	5.0		
	245	PALE	8 S	2323.0E	2324.0	1.00	50.0			QL=4 ST=2 TYP=3
	21	245	PALE	8 S	0117.0E	0117.0	U	160.0		
2950		GORK	20 GRF	0454.2	0456.3	23.7	4.0			
260		ONDR	41 F	0700.0	1059.8	480.0	43.0			
204		IZMI	5 S	1059.0	1100.0	1.8	58.0	30.0		
430		KRAK	2 S/F	1250.6	1250.6	0.6	50.0	11.0		
610		SGMR	8 S	1255.0E	1255.0	U	200.0			QL=4 ST=2 TYP=3
2850		CRIM	1 S	1255.1	1255.4	1.1	9.0	3.0		
536		ONDR	8 S	1255.1	1255.7	1.5	114.0			
536		ONDR	8 S	1338.2	1338.7	1.0	101.0			
9400	HUAN	20 GRF	1539.0	1555.0	67.6	8.4	5.1			
22	500	HIRA	41 F	0233.4	0238.0	7.0	5.0			0
	500	HIRA	46 C	0250.0	0306.7	53.0	37.0	6.0		WL
	2695	LEAR	4 S/F	0302.0E	0306.0	9.00	59.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

39
Sep 90

SEPTEMBER 1990

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 ⁻²² W/m ² Hz)	Mean		
22	410 LEAR	4 S/F	0302.0E	0310.0	9.00	51.0			QL=4 ST=2 TYP=5
	4995 LEAR	4 S/F	0302.0E	0306.0	8.00	62.0			QL=4 ST=2 TYP=3
	610 LEAR	4 S/F	0302.0E	0305.0	12.00	47.0			QL=4 ST=2 TYP=3
	200 HIRA	46 C	0302.9	0309.9	20.5	46.0			0
	8800 LEAR	4 S/F	0303.0E	0305.0	5.00	39.0			QL=4 ST=2 TYP=3
	245 LEAR	4 S/F	0304.0E	0306.0	9.00	94.0			QL=4 ST=2 TYP=3
	1415 LEAR	4 S/F	0304.0E	0306.0	4.00	19.0			QL=2 ST=2 TYP=3
	410 PALE	20 GRF	0304.0E	0310.0	7.00	57.0			QL=4 ST=2 TYP=2
	4995 PALE	4 S/F	0304.0E	0306.0	4.00	57.0			QL=4 ST=2 TYP=3
	610 PALE	4 S/F	0304.0E	0305.0	4.00	40.0			QL=4 ST=2 TYP=3
	245 PALE	4 S/F	0305.0E	0307.0	6.00	76.0			QL=4 ST=2 TYP=3
	2695 PALE	8 S	0305.0E	0306.0	2.00	44.0			QL=4 ST=2 TYP=3
	9100 GORK	2 S/F	0513.7	0514.0	0.7	13.0			
	260 ONDR	41 F	0700.0	1023.1	480.0	39.0			
	650 GORK	4 S/F	0833.2	0834.1	2.8	15.0			
	2950 GORK	1 S	0833.7	0834.1	1.0	4.0			
	950 GORK	1 S	0833.8	0834.1	1.1	3.0			
	600 HUMN	27 RF	1407.8	1424.5	69.0	7.0	3.0		
	245 SGMR	8 S	1508.0E	1508.0	U	55.0			QL=4 ST=2 TYP=3
	9400 HUAN	2 S/F	1646.3	1648.8	11.3	3.6	2.2		
	2800 OTTA	3 S	1920.9	1921.5	6.0	22.6	5.0		
	23	127 TORN	43 NS	1018.0	1043.1	40.0	80.0	5.0	
2840 PEKG		45 C	0134.0	0134.9	1.0	15.9			
260 ONDR		41 F	0700.0	1312.2	480.0	121.0			
410 LEAR		8 S	0838.0E	0838.0	U	61.0			QL=4 ST=2 TYP=3
410 SVTO		8 S	0838.0E	0838.0	U	90.0			QL=4 ST=2 TYP=3
650 GORK		2 S/F	0838.1	0838.2	0.7	8.0			
950 GORK		4 S/F	0838.1	0838.3	1.2	11.0			
245 SVTO		8 S	1010.0E	1010.0	U	65.0			QL=4 ST=2 TYP=3
2800 OTTA		3 S	1306.1	1308.8	11.1	21.3	4.0		
113 POTS		41 F	1306.4	1312.3U	18.9	3500.00			
1470 POTS		4 S/F	1306.5	1308.0	12.0	19.0			
3000 POTS		4 S/F	1306.5	1308.6	6.0	21.0			
9400 HUAN		3 S	1306.7	1308.8	5.9	30.2	15.2		
234 POTS		4 S/F	1306.7	1313.9	10.5	700.0			
245 SGMR		4 S/F	1307.0E	1309.0	6.00	340.0			QL=2 ST=2 TYP=5
245 SVTO		4 S/F	1307.0E	1309.0	6.00	330.0			QL=4 ST=3 TYP=5
9500 POTS		4 S/F	1307.0	1309.0	28.0	32.0			
127 TORN		49 GB	1307.0	1313.0U	13.0	4200.00	390.0		
30 POTS		4 S/F	1307.4	1308.9	2.6U	400.0U			
536 ONDR		41 F	1307.8	1308.4	6.0	23.0			
9400 HUAN		29 PBI	1312.6	1312.6	25.6	6.6	1.5		
245 SGMR		8 S	1316.0E	1316.0	1.00	56.0			QL=2 ST=2 TYP=3
536 ONDR		8 S	1409.3	1410.3	1.4	315.0			
9400 HUAN		20 GRF	1555.7	1620.5	54.2	5.7	3.6		
9400 HUAN		1 S	1958.3	2003.5	9.7	3.8	2.6		
9400 HUAN		1 S	2026.1	2030.8	7.9	5.7	2.4		
200 HIRA		46 C	2230.4	2241.3		25.0			0
200 HIRA		46 C	2230.4	2230.8	31.7	73.0	8.0		0
100 HIRA	42 SER	2230.6	2231.0	22.4	2100.0			0	
24	245 LEAR	8 S	0121.0E	0121.0	U	57.0			QL=4 ST=2 TYP=3
	100 GORK	47 GB	0428.0	0434.7	14.0	12500.0			
	100 HIRA	42 SER	0430.5	0434.5	5.0	3200.0			0
	200 HIRA	8 S	0434.3	0434.3	0.8	120.0			0
	650 GORK	2 S/F	0626.1	0628.6	4.3	5.0			
	2950 GORK	1 S	0628.2	0628.6	3.4	5.0			
	3013 IZMI	2 S/F	0628.3	0628.4	5.5	3.0			
	950 GORK	1 S	0628.3	0628.6	2.3	1.0			
	204 IZMI	42 SER	0633.0	0639.0	15.0	35.0			
	260 ONDR	41 F	0700.0		480.0				
	9300 KISV	2 S/F	0746.7	0747.0	1.8	8.0			
	204 IZMI	7 C	0757.8	0757.9	0.5	35.0			
	2950 GORK	1 S	0811.5	0812.7	4.4	2.0			
	430 KRAK	8 S	0859.3	0859.5	0.4	11.0			
	100 GORK	4 S/F	0902.2	0905.6	6.8	170.0			
	200 GORK	4 S/F	0902.3	0904.7	6.2	15.0			
204 IZMI	41 F	0904.0	0905.0	3.0	20.0				

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

SEPTEMBER 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m ² Hz)			
24	33	UPIC	46 C	0904.5	0905.4	3.1				
	430	KRAK	8 S	0904.7	0905.2	1.0	15.0			
	2950	GORK	1 S	0906.6	0908.7	6.7	6.0			
	2850	CRIM	1 S	0907.0	0908.6	2.8	7.6	2.0		
	3013	IZMI	1 S	0907.0	0908.6	4.0	5.0	3.0		
	536	ONDR	45 C	1054.6	1056.7	3.5	46.0			
	430	KRAK	8 S	1108.8	1108.9	0.2	17.0			
	127	TORN	49 GB	1152.9	1153.3	11.0	1300.0	70.0		
	430	KRAK	4 S/F	1154.0	1155.6	2.5	110.0	20.0		
	234	POTS	4 S/F	1154.4	1156.2	3.6	800.0			
	200	GORK	4 S/F	1154.7	1156.7	3.4	350.0			
	950	GORK	4 S/F	1154.7	1155.9	3.0	9.0			
	100	GORK	46 C	1154.8	1155.5	14.2E	680.0			
	100	GORK	46 C	1154.8	1156.7		1250.0			
	100	GORK	46 C	1154.8	1203.8		730.0			
	113	POTS	41 F	1154.9	1157.2	23.1	250.0			
	30	POTS	4 S/F	1154.9	1156.2U	3.8	4000.0D			
	33	UPIC	48 C	1155.0		3.6				
	245	SGMR	8 S	1155.0E	1156.0	2.0D	270.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1155.0E	1156.0	2.0D	280.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1155.0E	1157.0	2.0D	63.0			QL=4 ST=2 TYP=3
	650	GORK	4 S/F	1155.2	1155.8	2.2	17.0			
	410	SGMR	8 S	1156.0E	1156.0	1.0D	86.0			QL=4 ST=2 TYP=3
	536	ONDR	41 F	1317.5	1318.2	9.0	56.0			
9400	HUAN	20 GRF	1324.0	1354.8	75.5	8.0	3.6			
2800	OTTA	20 GRF	1812.5	1851.0	90.0	6.4	2.0			
9400	HUAN	22 GRF	1846.3	1904.0U	52.9	6.0	2.4			
245	SGMR	8 S	1921.0E	1921.0	U	50.0			QL=4 ST=2 TYP=3	
25	17000	NOBE	20 GRF	0220.0	0228.1	17.0	40.0			L, 80, 35GHz:0
	2695	LEAR	4 S/F	0222.0E	0227.0	6.0D	34.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0222.0E	0227.0	7.0D	76.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0222.0E	0228.0	7.0D	46.0			QL=4 ST=2 TYP=3
	2840	PEKG	45 C	0222.0	0227.5	8.0	57.1			
	500	HIRA	42 SER	0222.5	0227.6	26.0	91.0			0
	15400	LEAR	4 S/F	0224.0E	0228.0	4.0D	33.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0227.0E	0227.0	1.0D	190.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0227.0E	0228.0	1.0D	17.0			QL=2 ST=2 TYP=3
	4995	PALE	8 S	0227.0E	0227.0	2.0D	70.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0227.0E	0227.0	1.0D	320.0			QL=4 ST=2 TYP=3
	100	GORK	4 S/F	0414.6	0415.1	1.0	30.0			
	200	GORK	4 S/F	0414.8	0415.1	0.7	25.0			
	2950	GORK	20 GRF	0501.7	0510.4	72.8	6.0			
	245	LEAR	8 S	0530.0E	0531.0	1.0D	92.0			QL=4 ST=3 TYP=3
	245	SVTO	8 S	0530.0E	0531.0	1.0D	110.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0530.4	0530.5	0.9	110.0			0
	200	GORK	4 S/F	0530.5	0531.0	1.4	30.0			
	100	GORK	4 S/F	0530.8	0531.0	0.9	30.0			
	260	ONDR	41 F	0700.0	1133.9	480.0	82.0			
	204	IZMI	5 S	0834.3	0834.7	1.0	45.0	20.0		
	3000	POTS	29 PBI	0901.0	0904.5	59.0U	16.0U			
	9100	GORK	23 GRF	0901.8U	0904.5	181.2D	10.0			
	9500	POTS	29 PBI	0902.0	0904.5	58.0	11.0			
	2850	CRIM	1 S	0902.0	0903.8	7.0	15.5	3.0		
	2950	GORK	22 GRF	0902.1	0904.6	35.9	13.0			
	950	GORK	4 S/F	1034.2	1036.7	4.8	80.0			
	650	GORK	4 S/F	1034.4	1035.8	4.8	10.0			
	600	HUMN	1 S	1034.4	1034.9	5.0	9.0	3.0		
	204	IZMI	7 C	1034.5	1035.7	16.0	70.0			
	2950	GORK	4 S/F	1034.7	1035.8	2.0	71.0			
	4995	SVTO	8 S	1035.0E	1035.0	1.0D	70.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1035.0E	1035.0	1.0D	76.0			QL=4 ST=2 TYP=3
	3000	POTS	4 S/F	1035.0U	1035.7	2.5U	53.0			
2850	CRIM	3 S	1035.0	1035.8	3.0	110.4	33.0			
9300	KISV	23 GRF	1035.1	1040.0	17.8	14.0				
15000	KISV	21 GRF	1035.2	1036.0	11.9	26.0				
808	ONDR	41 F	1035.3	1036.1	3.0	31.0				
536	ONDR	41 F	1035.5	1044.6	10.0	38.0				
9100	GORK	2 S/F	1035.5	1035.9	2.0	46.0				

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

41
Sep 90

SEPTEMBER 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
25	9300	KISV	4 S/F	1035.6	1036.0	2.0	52.0			
	810	KRAK	8 S	1035.7	1036.0	0.5	16.0			
	430	KRAK	42 SER	1035.8	1037.1	1.8	15.0			
	2950	GORK	29 PBI	1036.7	1036.7	27.7	20.0			
	2950	GORK	1 S	1147.5	1148.8	3.5	2.0			
	33	UPIC	45 C	1221.0	1221.1	1.3				
	536	ONDR	8 S	1317.4	1317.6	0.7	63.0			
	2800	OTTA	20 GRF	1423.0	1427.5	50.0	8.5	4.0		
	33	UPIC	3 S	1507.3	1507.5	0.5				
	9400	HUAN	1 S	1529.0	1533.0	13.2	8.8	2.6		
	245	SVTO	4 S/F	1601.0E	1603.0	7.0D	72.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1602.0E	1603.0	1.0D	69.0			QL=4 ST=2 TYP=3
9400	HUAN	20 GRF	1853.5	1930.0	53.6	5.9	1.6			
245	LEAR	8 S	2242.0E	2242.0	1.0D	480.0			QL=4 ST=2 TYP=3	
26	430	KRAK	8 S	0705.0	0705.2	0.3	12.0			
	260	ONDR	41 F	0730.0	1007.8	450.0	81.0			
	204	IZMI	5 S	0953.5	0954.3	1.0	19.0	10.0		
	2950	GORK	20 GRF	1002.9	1004.7	13.8	4.0			
	536	ONDR	41 F	1007.5	1008.0	10.0	12.0			
	245	SGMR	4 S/F	1125.0E	1126.0	8.0D	160.0			QL=4 ST=2 TYP=3
	9500	POTS	20 GRF	1220.0	1345.0	145.0D	22.0			
	2800	OTTA	20 GRF	1225.0	1337.5	260.0	16.7	8.0		
	1470	POTS	20 GRF	1230.0	1330.0	105.0	7.0			
	3000	POTS	20 GRF	1230.0	1329.0	135.0D	13.0			
	9400	HUAN	20 GRF	1307.0	1343.6	76.8	7.0	4.3		
	245	SVTO	49 GB	1436.0E	1438.0	4.0D	1700.0			QL=4 ST=2 TYP=6
	9400	HUAN	2 S/F	1555.2	1600.1	10.4	6.2	3.4		
	245	SGMR	8 S	2129.0E	2130.0	1.0D	230.0			QL=2 ST=2 TYP=3
245	PALE	8 S	2130.0E	2130.0	U	190.0			QL=4 ST=2 TYP=3	
27	100	GORK	43 NS	1000.0		125.0E		5.0		
	2950	GORK	2 S/F	0842.3	0843.0	2.6	4.0			
	430	KRAK	8 S	0910.6	0910.8	0.4	8.0			
	204	IZMI	8 S	0939.5	0939.5	0.5	100.0			
	9100	GORK	1 S	1124.0	1124.8	1.9	10.0			
	410	SVTO	8 S	1149.0E	1150.0	1.0D	390.0			QL=2 ST=2 TYP=3
	113	POTS	4 S/F	1410.3	1411.4	3.7	900.0			
	40	POTS	4 S/F	1410.3	1411.9	4.7U	4000.0			
	33	UPIC	4 S/F	1411.9	1412.2	0.7				
	245	SGMR	8 S	1528.0E	1528.0	1.0D	430.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1528.0E	1528.0	1.0D	360.0			QL=4 ST=2 TYP=3
	33	UPIC	4 S/F	1528.5	1529.1	1.5				
	245	SGMR	8 S	1708.0E	1708.0	U	85.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1814.0E	1814.0	U	180.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1814.0E	1814.0	U	180.0			QL=4 ST=2 TYP=3
	9400	HUAN	22 GRF	1941.7	2017.2	67.0	14.8	8.0		
	500	HIRA	41 F	2041.0	2042.0	1.0	154.0			WL
	410	PALE	8 S	2041.0E	2041.0	1.0D	190.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	2041.0E	2041.0	1.0D	1700.0			QL=4 ST=2 TYP=6
	245	SGMR	49 GB	2041.0E	2041.0	1.0D	1600.0			QL=4 ST=2 TYP=6
410	SGMR	8 S	2041.0E	2041.0	1.0D	200.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2046.0E	2046.0	U	140.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2151.0E	2151.0	1.0D	110.0			QL=4 ST=3 TYP=3	
245	SGMR	8 S	2205.0E	2205.0	U	160.0			QL=4 ST=2 TYP=3	
28	2840	PEKG	3 S	0152.0	0154.0	3.0	69.5			
	2695	LEAR	8 S	0153.0E	0154.0	1.0D	60.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0153.0E	0153.0	1.0D	37.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0153.0E	0154.0	1.0D	17.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0153.0E	0154.0	1.0D	44.0			QL=2 ST=2 TYP=3
	4995	PALE	8 S	0153.0E	0153.0	1.0D	39.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0153.0E	0154.0	1.0D	45.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	0153.0E	0154.0	1.0D	59.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0903.0	0903.5	1.0	16.0			
	3000	POTS	20 GRF	0922.0	0942.0	58.0	8.0			
	1470	POTS	22 GRF	0935.0	0939.5	45.0	6.0			
	2950	GORK	20 GRF	1012.8	1029.1	21.1	4.0			
	260	ONDR	42 SER	1046.4	1047.6	13.0				

42
Sep 90

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

SEPTEMBER 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
28	536	ONDR	3 S	1217.1	1217.4	0.7	17.0			
	9400	HUAN	1 S	1329.2	1332.4	10.2	2.7	1.9		
	9400	HUAN	2 S/F	1406.8	1409.5	11.2	9.8	2.8		
	1415	SGMR	4 S/F	1408.0E	1409.0	3.0D	170.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1408.0E	1409.0	5.0D	120.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1408.0E	1409.0	5.0D	130.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	1408.0E	1409.0	5.0D	120.0			QL=2 ST=3 TYP=3
	9500	POTS	3 S	1408.5	1409.7	3.5	16.0			
	1470	POTS	4 S/F	1408.5	1409.8	5.0	154.0			
	536	ONDR	41 F	1408.9	1409.2	5.5	53.0			
	808	ONDR	41 F	1409.0	1410.0	6.0	104.0			
	410	SGMR	8 S	1409.0E	1409.0	1.0D	52.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1409.0E	1409.0	1.0D	180.0			QL=4 ST=2 TYP=3
3000	POTS	3 S	1409.0	1409.7	2.5	13.0				
29	2840	PEKG	45 C	0404.0	0406.5	6.0	52.7			
	950	GORK	4 S/F	0404.1	0406.3	4.9	70.0			
	9100	GORK	4 S/F	0404.2	0406.5	4.8	45.0			
	2950	GORK	4 S/F	0404.3	0406.5	4.4	40.0			
	650	GORK	46 C	0404.5	0406.3	4.5	34.0			
	650	GORK	46 C	0404.5	0407.4		43.0			
	17000	NOBE	2 S/F	0404.9	0405.8	3.0	43.0			R, 80, 35GHz:0
	8800	LEAR	8 S	0405.0E	0406.0	1.0D	34.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0405.0E	0405.0	1.0D	64.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0405.0E	0406.0	1.0D	33.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0405.0E	0406.0	2.0D	160.0			QL=2 ST=3 TYP=3
	4995	LEAR	8 S	0405.0E	0405.0	2.0D	31.0			QL=4 ST=2 TYP=3
	500	HIRA	46 C	0405.7	0406.4	3.8	31.0	9.0		0
	610	LEAR	8 S	0406.0E	0408.0	2.0D	52.0			QL=4 ST=2 TYP=3
	2850	CRIM	45 C	0735.0	0741.0		242.0			
	2850	CRIM	45 C	0735.0	0738.1	35.0	137.0	80.0		
	430	KRAK	42 SER	0907.7	0910.5	16.0	15.0			
	9300	KISV	45 C	1033.4	1037.0		11.0			
	9300	KISV	45 C	1033.4	1036.2	9.2	18.0			
	3013	IZMI	7 C	1035.2	1036.2	4.5	14.0			
	2850	CRIM	3 S	1035.5	1036.2	2.0	22.0	7.0		
	536	ONDR	42 SER	1035.6	1036.1	3.0	267.0			
	810	KRAK	8 S	1036.8	1037.0	0.4	50.0			
430	KRAK	8 S	1104.8	1105.0	0.5	42.0				
536	ONDR	8 S	1336.0	1336.8	1.0	312.0				
9400	HUAN	22 GRF	2113.0	2142.7	38.1	10.3	4.7			
2695	PENT	3 S	2252.2	2254.8	9.8	19.9	4.0			
30	127	TORN	43 NS	0732.0	0753.0	300.0	60.0	3.0		V=1
	410	LEAR	8 S	0424.0E	0424.0	1.0D	100.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0640.1	0640.5	0.5	35.0			
	204	IZMI	45 C	0725.5	0744.5	30.0	180.0			
	2950	GORK	21 GRF	0726.6	0749.5	70.5	21.0			
	260	ONDR	41 F	0730.0	1104.9	450.0	109.0			
	200	GORK	41 F	0732.5	0733.1	23.1	160.0			
	200	GORK	41 F	0732.5	0754.5		19.0			
	9300	KISV	4 S/F	0733.7	0740.6	7.3	65.0			
	650	GORK	23 GRF	0734.5	0753.7	26.2	6.0			
	950	GORK	23 GRF	0734.7	0753.0	22.8	4.0			
	3000	POTS	45 C	0735.0	0740.4	40.0	215.0			
	3013	IZMI	45 C	0735.0	0740.8	30.0	180.0			
	1470	POTS	45 C	0735.0	0740.8	40.0	70.0			
	9300	KISV	23 GRF	0735.2	0737.8	29.6	33.0			
	2950	GORK	45 C	0735.4	0740.6		216.0			
	2950	GORK	45 C	0735.4	0737.6	9.8	100.0			
	100	GORK	41 F	0735.7	0737.4	20.2	115.0			
	100	GORK	41 F	0735.7	0753.6		30.0			
	1415	LEAR	4 S/F	0736.0E	0740.0	6.0D	56.0			QL=2 ST=2 TYP=3
	245	LEAR	4 S/F	0736.0E	0737.0	7.0D	70.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	0736.0E	0740.0	7.0D	190.0			QL=4 ST=2 TYP=5
	1415	SVTO	4 S/F	0736.0E	0740.0	6.0D	63.0			QL=4 ST=2 TYP=5
4995	SVTO	4 S/F	0736.0E	0740.0	8.0D	180.0			QL=4 ST=2 TYP=5	
2695	LEAR	4 S/F	0736.0E	0740.0	14.0D	200.0			QL=4 ST=2 TYP=5	
4995	LEAR	4 S/F	0736.0E	0740.0	11.0D	180.0			QL=4 ST=2 TYP=5	

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

43
Sep 90

SEPTEMBER 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
30	9500	POTS	4 S/F	0736.0	0740.5	39.0	73.0			
	950	GORK	46 C	0736.6	0737.6	5.9	9.0			
	950	GORK	46 C	0736.6	0740.6		10.0			
	9100	GORK	46 C	0736.6	0740.7		85.0			
	9100	GORK	46 C	0736.6	0737.7	11.4	27.0			
	650	GORK	46 C	0736.7	0737.5	5.6	12.0			
	650	GORK	46 C	0736.7	0740.8		10.0			
	15000	KISV	21 GRF	0736.8	0740.6	30.4	45.0			
	410	LEAR	4 S/F	0737.0E	0737.0	4.0D	25.0	QL=4 ST=2 TYP=3		
	610	LEAR	8 S	0737.0E	0737.0	1.0D	16.0	QL=4 ST=2 TYP=3		
	245	SVTO	8 S	0737.0E	0737.0	U	69.0	QL=4 ST=2 TYP=3		
	410	SVTO	8 S	0737.0E	0737.0	U	27.0	QL=4 ST=2 TYP=3		
	15400	LEAR	4 S/F	0737.0E	0739.0	10.0D	46.0	QL=4 ST=2 TYP=3		
	8800	SVTO	4 S/F	0737.0E	0740.0	21.0D	99.0	QL=4 ST=2 TYP=3		
	15400	SVTO	4 S/F	0740.0E	0740.0	3.0D	43.0	QL=4 ST=2 TYP=3		
	9100	GORK	29 PBI	0748.0	0754.0	30.0	17.0			
	2950	GORK	2 S/F	0750.2	0754.5	7.1	14.0			
	650	GORK	1 S	0820.5	0820.8	0.7	4.0			
	2950	GORK	1 S	0821.5	0822.1	1.3	4.0			
	808	ONDR	4 S/F	1003.6	1004.4	2.5	26.0			
	430	KRAK	42 SER	1049.0	1050.3	2.5	83.0D			
	204	IZMI	7 C	1050.0	1050.5	1.0	75.0			
	536	ONDR	42 SER	1050.5	1050.6	16.0	24.0			
	245	SGMR	8 S	1103.0E	1104.0	1.0D	200.0	QL=4 ST=2 TYP=3		
	245	SVTO	8 S	1103.0E	1104.0	1.0D	200.0	QL=4 ST=2 TYP=3		
	234	POTS	4 S/F	1103.2	1104.2	1.8	100.0			
	204	IZMI	45 C	1103.2	1104.3	5.0	280.0			
	113	POTS	4 S/F	1103.5	1104.0	2.0	400.0			
	40	POTS	4 S/F	1103.5	1104.1	3.2	15000.0			
	3000	POTS	1 S	1103.7	1104.2	1.3	6.0			
1470	POTS	3 S	1103.8	1104.2	3.2	33.0				
127	TORN	8 S	1103.9	1104.2	1.0	700.0	340.0			
33	UPIC	46 C	1104.0	1104.4U	2.1					
9400	HUAN	2 S/F	1122.4	1127.5	8.8	4.9	1.7			
245	SGMR	8 S	1304.0E	1304.0	1.0D	160.0	QL=4 ST=2 TYP=3			
245	SVTO	8 S	1304.0E	1304.0	1.0D	170.0	QL=4 ST=2 TYP=3			
536	ONDR	42 SER	1340.1	1346.0	6.0	219.0				
245	SGMR	8 S	1510.0E	1510.0	U	50.0	QL=4 ST=2 TYP=3			
245	SGMR	49 GB	1521.0E	1521.0	1.0D	6500.0	QL=4 ST=2 TYP=6			
410	SVTO	8 S	1521.0E	1522.0	1.0D	44.0	QL=4 ST=2 TYP=3			
245	SVTO	49 GB	1521.0E	1522.0	1.0D	6700.0	QL=4 ST=2 TYP=6			
410	PALE	8 S	2001.0E	2001.0	U	490.0	QL=4 ST=2 TYP=3			
610	SGMR	8 S	2001.0E	2001.0	1.0D	130.0	QL=4 ST=2 TYP=3			
410	SGMR	49 GB	2001.0E	2001.0	U	570.0	QL=4 ST=2 TYP=6			

Reports are received routinely from the following observatories:

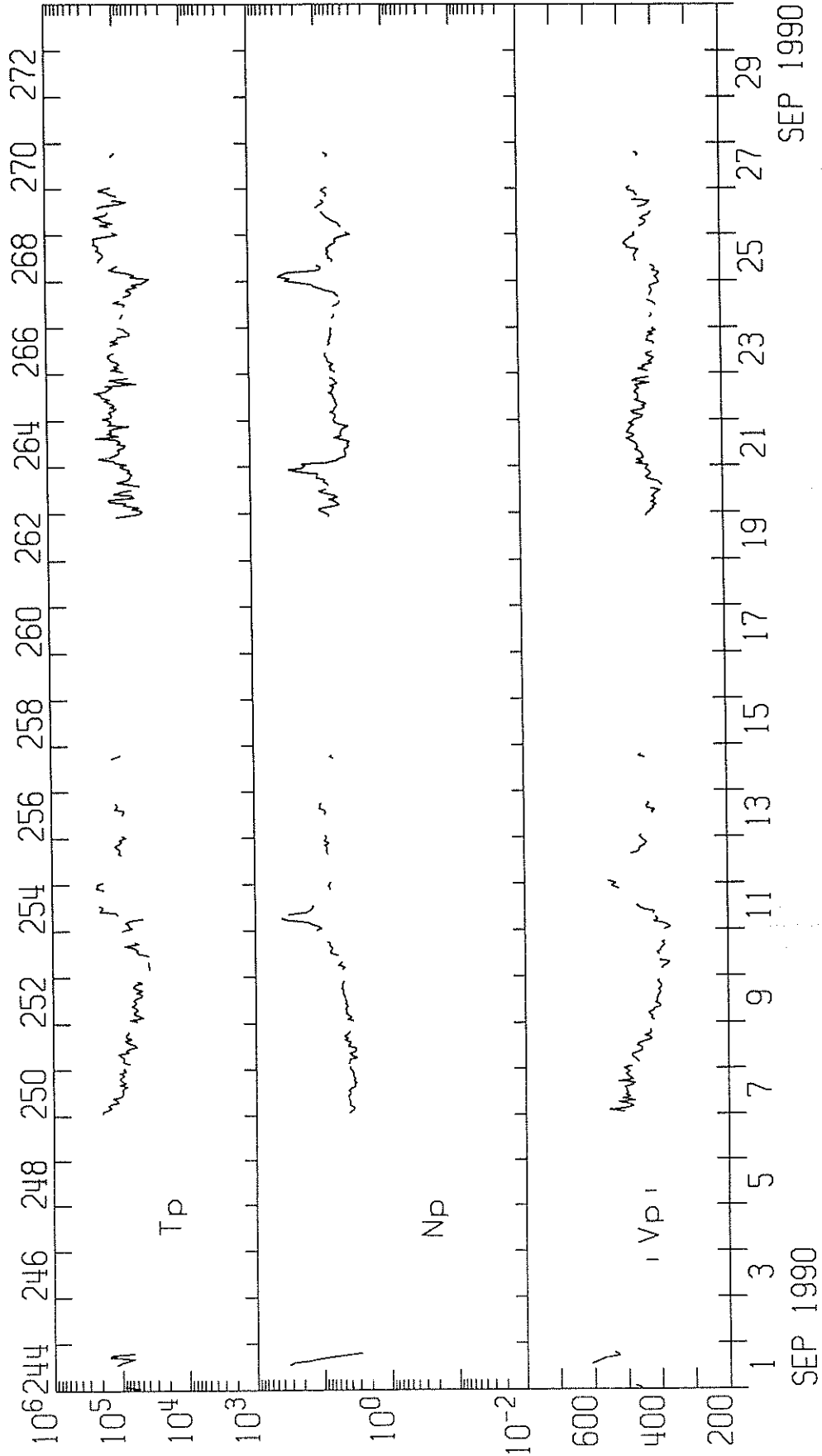
BERN = Berne	IZMI = IZMIRAN	ONDR = Ondrejov	SVTO = San Vito
CRIM = Crimea	KISK = Kislovodsk	OTTA = Ottawa	SYDN = Sydney
GORK = Gorky	KRAK = Krakow	PALE = Palehua	TORN = Torun
HIRA = Hiraiso	LEAR = Learmonth	PENT = Penticton	TRST = Trieste
HUAN = Huancaayo	NOBE = Nobeyama	POTS = Potsdam	TYKW = Toyokawa
HUMN = Humain		SGMR = Sagamore Hill	UPIC = Upice

Explanation of Type Code:

1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm in Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 3F	28 Precursor	41 Group of Bursts	47 Great Burst
6 Minor	23 Simple 3AF	29 Post Burst Increase	42 Series of Bursts	48 Major
1A Simple 1A	3A Simple 2A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F
21A Simple 3A GRF	2A Simple 1AF	40 Rise Only	16A Fall A	27AF Rise and Fall AF
		40F Rise Only F	260 Fall Only	31A Post Burst Decrease A
		4P Post Rise	26F Fall F	32A Absorption A

IMP 8 SOLAR WIND PLASMA
SEPTEMBER 1990

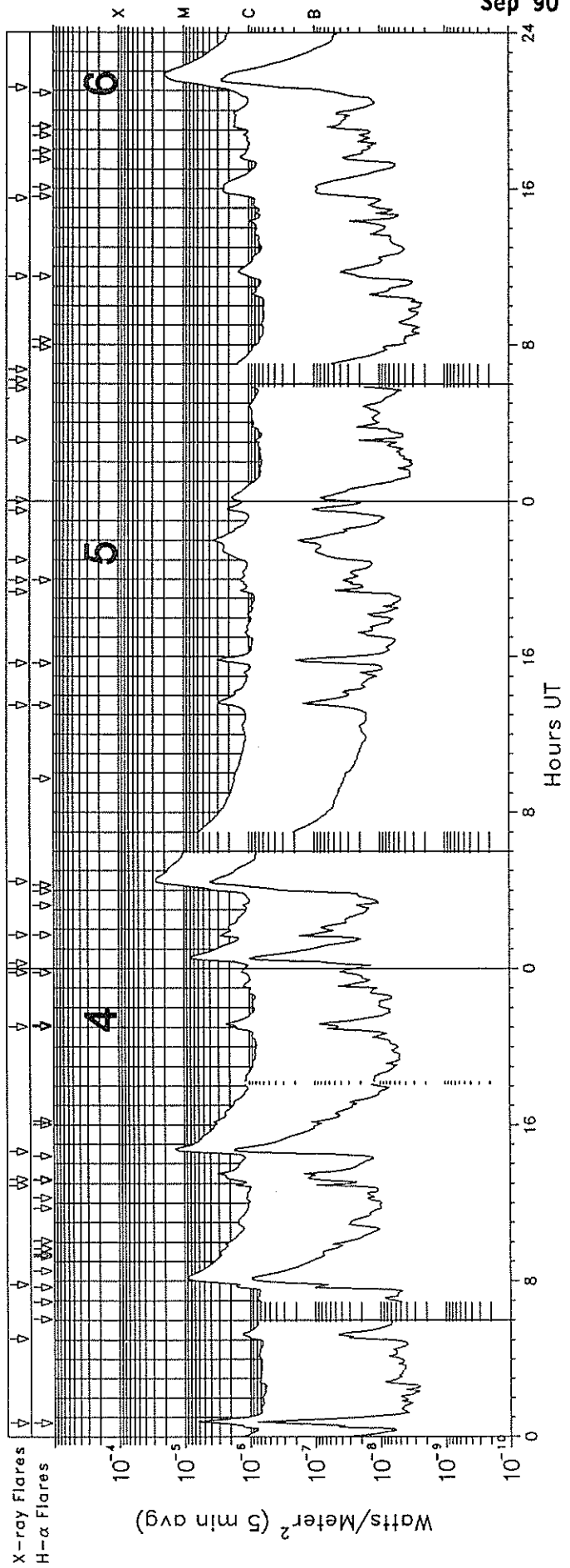
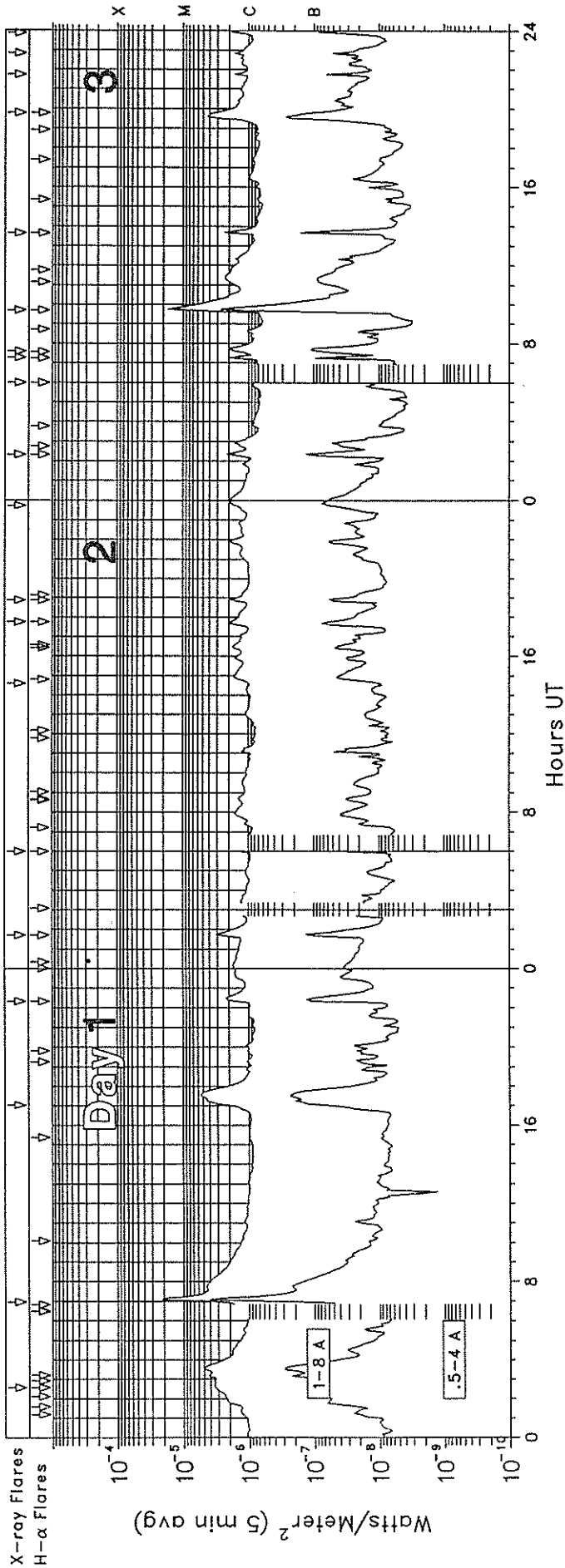
MIT/CSR IMP 8 PLASMA PARAMETERS



SEP 1990
IMP 8
MIT
PRELIMINARY ONE-HOUR AVERAGES

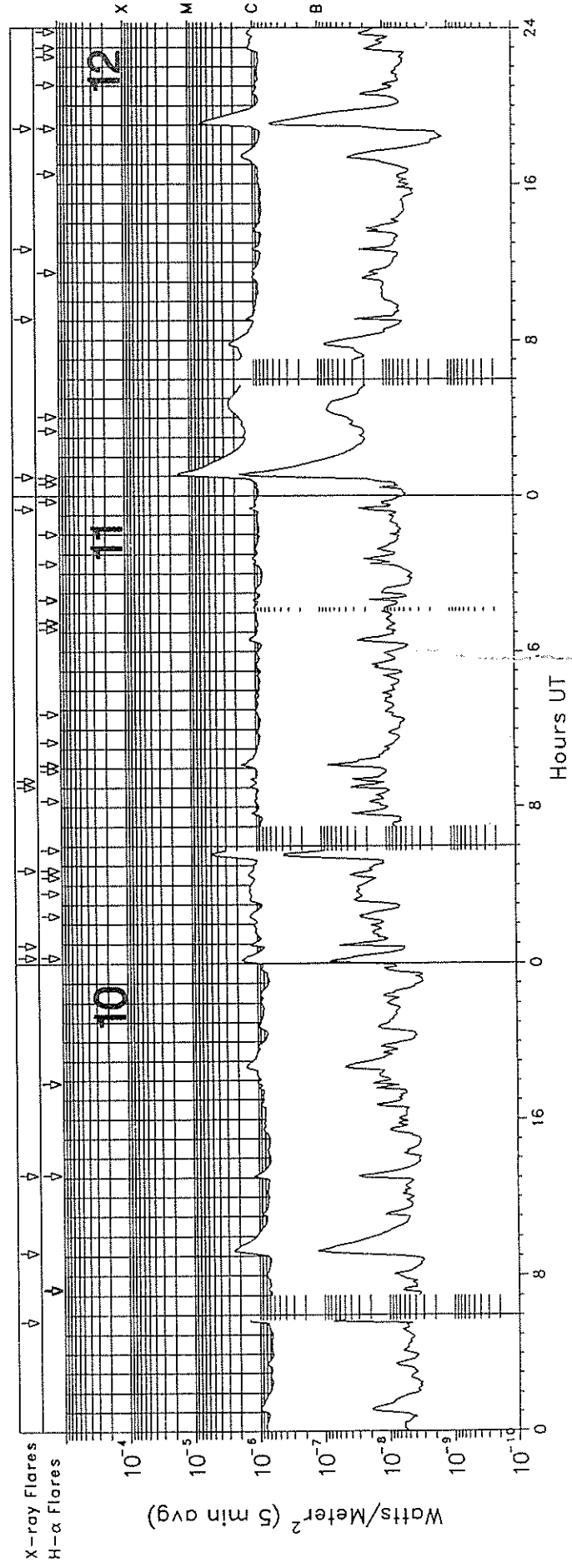
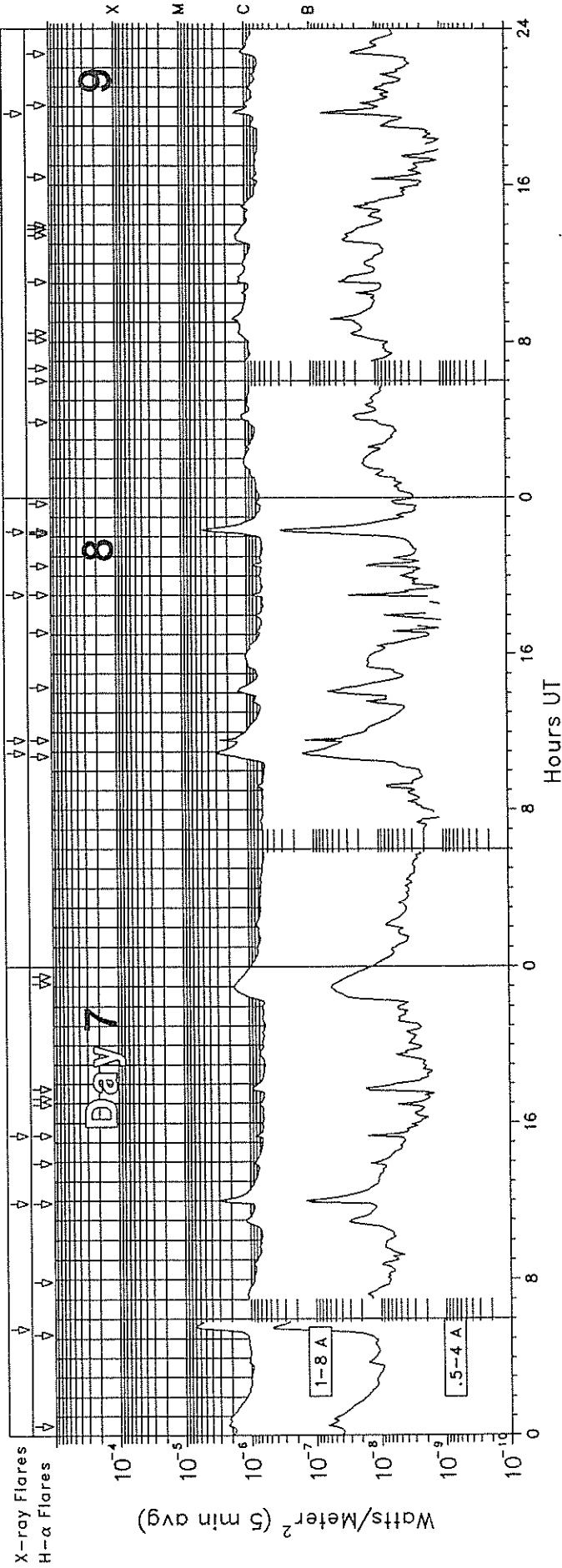
GOES-7 X-RAY DETECTOR

September 1990



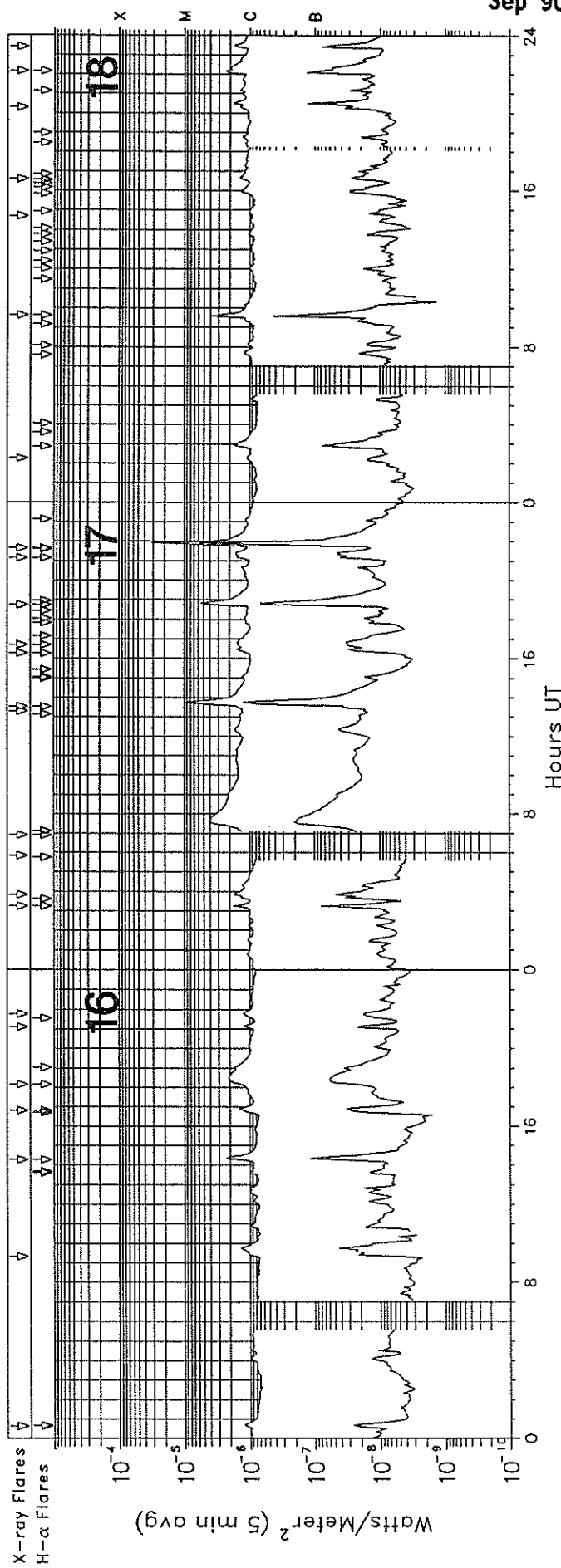
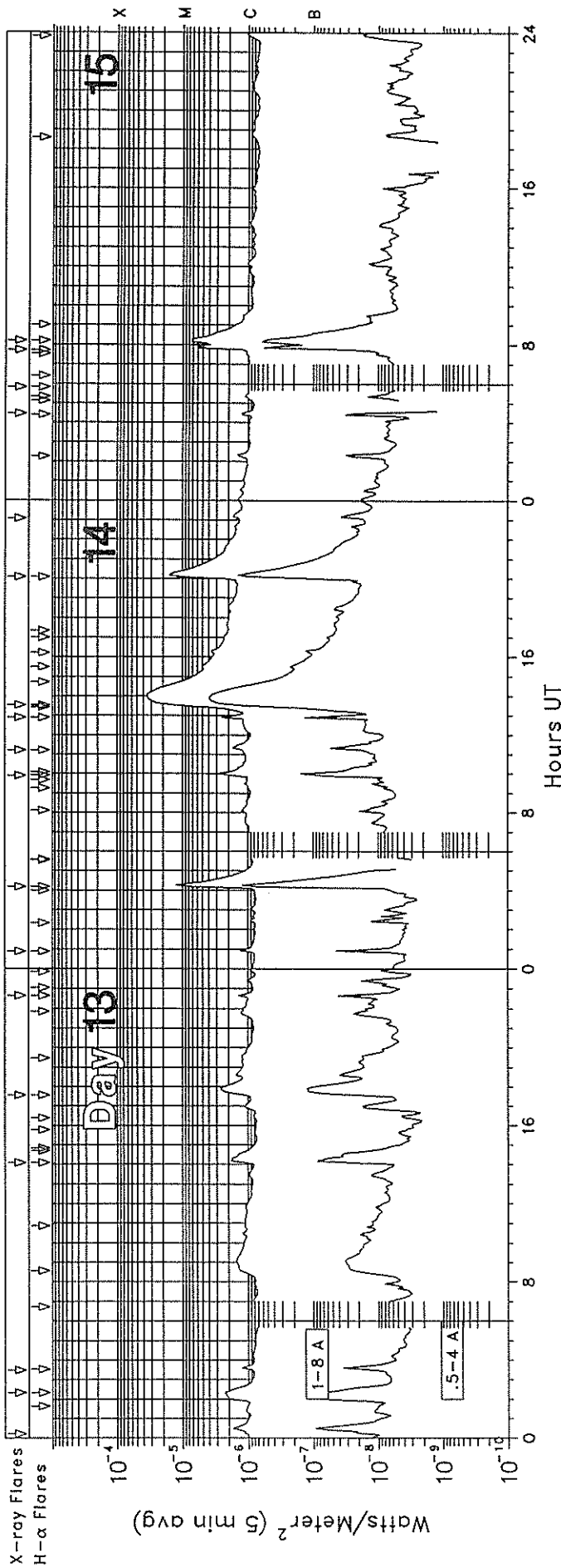
GOES-7 X-RAY DETECTOR

September 1990

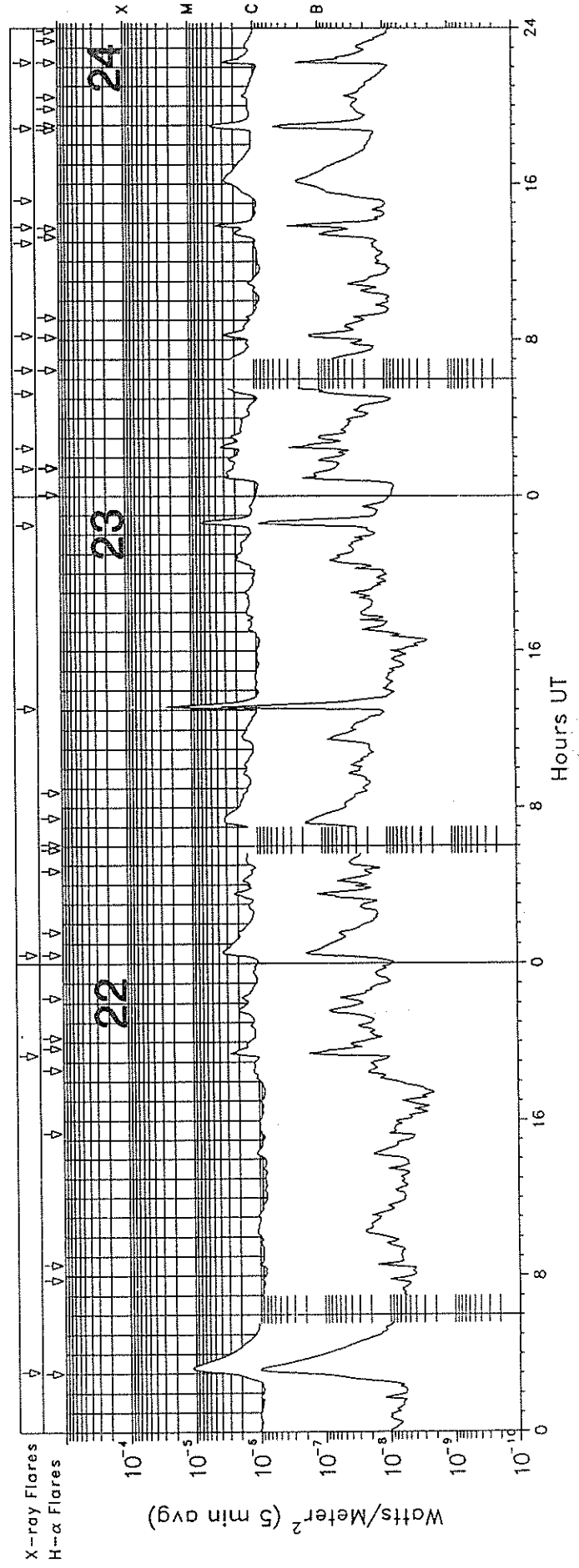
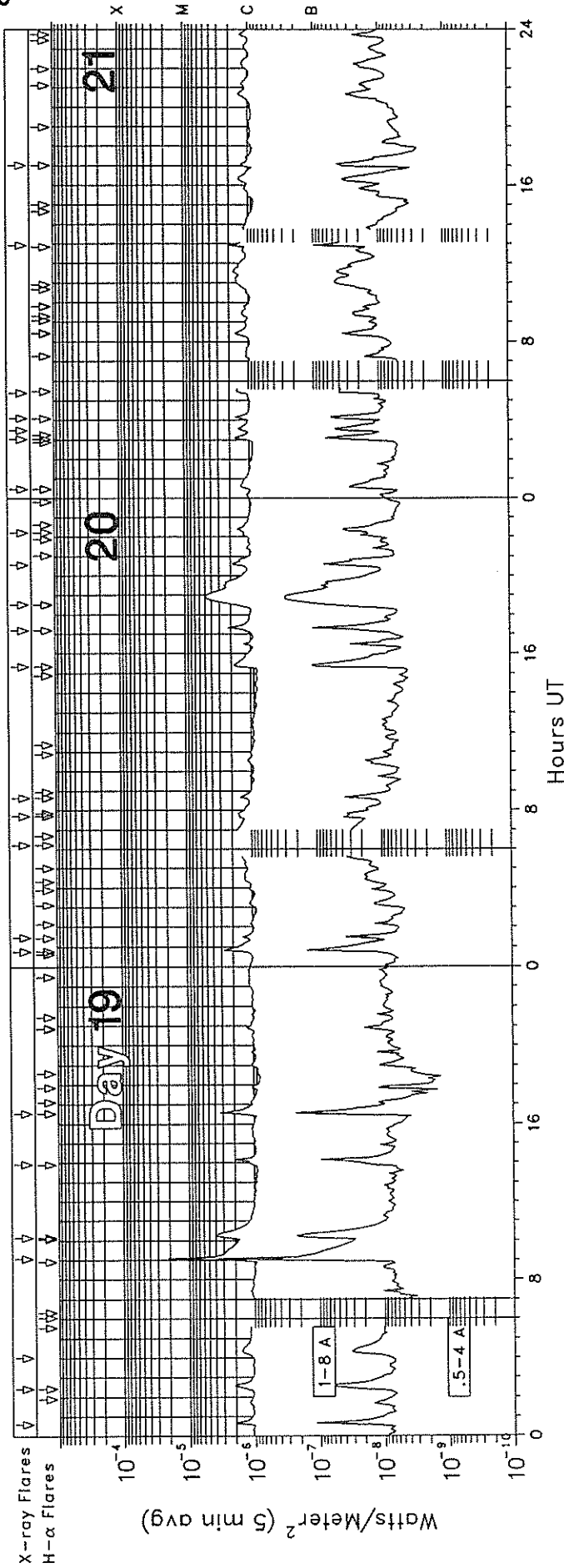


GOES-7 X-RAY DETECTOR

September 1990

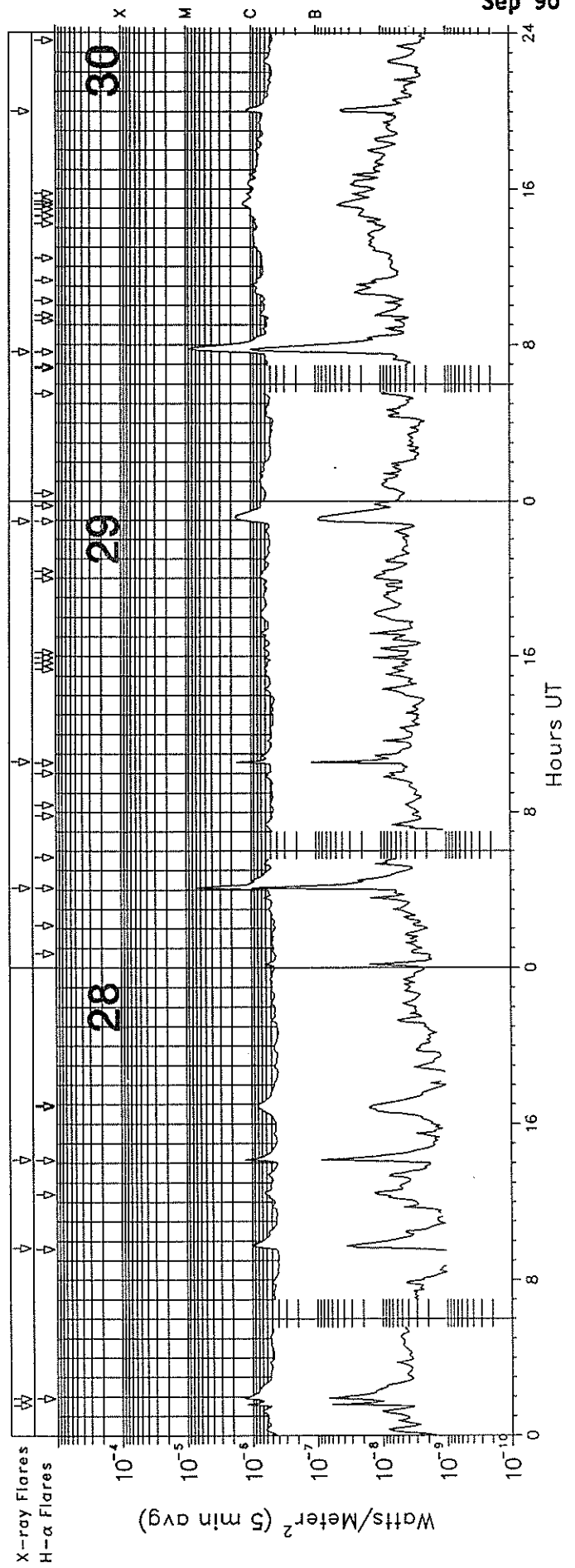
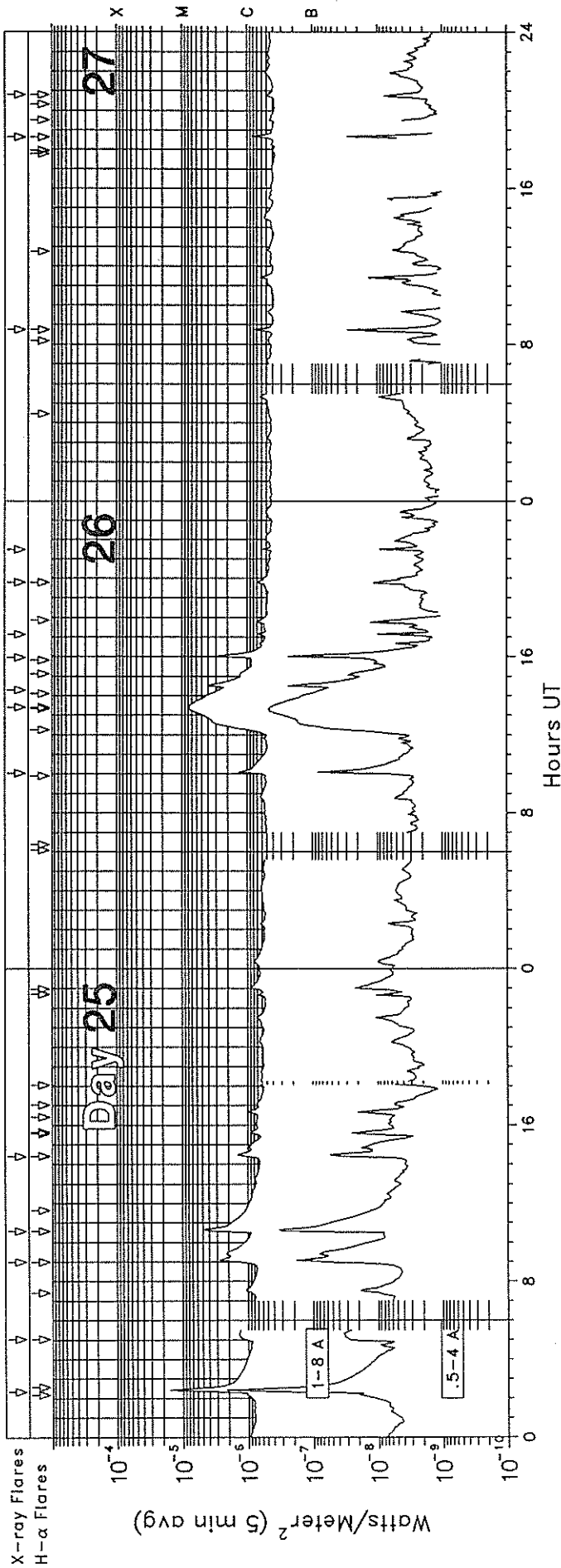


GOES-7 X-RAY DETECTOR September 1990



GOES-7 X-RAY DETECTOR

September 1990



GOES SOLAR X-RAY FLARES
 Preliminary Listing

51
 Sep 90

September 1990

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
19	1009	1019	1029				C3.9	
19	1356E	1400	1410D	S11	W33	SF	C2.3	6267
19	1633E	1635	1639D	N05	E83	SN	C3.9	6281
20	0047E	0053	0104D	N02	E79	1F	C3.0	6281
20	0128E	0129	0134D	S11	W37	SF	C1.5	6267
20	0612E	0622	0644D	N06	E79	1F	C7.0	6281
20	0742E	0744	0750D	N13	W48	SF	C1.8	6263
20	0838E	0840	0859D	S21	E15	SN	C1.5	6275
20	1521E	1523	1536D	N03	E80	SN	C2.1	6281
20	1711E	1719	1746D	N12	W53	SF	C2.5	6263
20	1832E	1901	2121	S28	W39	SN	C4.9	6266
20	2033	2038	2045				C1.9	
20	2214E	2214	2236D	N13	W55	SF	C1.6	6263
21	0029E	0038	0057D	S26	W50	SF	C1.4	6266
21	0302	0308	0314				C1.8	
21	0329	0336	0341				C1.5	
21	0406	0410	0417				C1.7	
21	0524E		0531D	N12	W58	SF	C1.6	6263
21	1255E	1256	1307D	N13	E59	SF	C2.1	6280
21	1701E	1702	1711D	N13	E56	SF	C1.4	6280
22	0306E	0319	0357D	S27	W60	1F	M1.1	6266
22	1920	1927	1941				C2.9	
23	0027E	0029	0102	S26	W66	SF	C3.6	6266
23	1305	1313	1322				M2.7	
23	2230	2240	2247				C7.1	
24	0126E	0127	0135D	S07	E64	SF	C2.8	6283
24	0228	0233	0244				C3.5	
24	0516	0535	0553				C2.8	
24	0628E	0630	0635D	N14	E20	SF	C4.4	6280
24	0813E	0814	0844D	S14	W48	1F	C2.9	6272

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
24	1257E	1344	1353D	S13	W49	SF	C1.9	6272
24	1347E	1352	1420D	N16	E18	1F	C4.2	6280
24	1508	1615	1719				C2.8	
24	1850E	1853	1940	N17	E15	1N	C4.7	6280
24	2215E	2219	2248D	N14	E13	1N	C3.8	6280
25	0221E	0228	0252D	N15	E09	1B	M1.7	6280
25	0502E	0504	0518D	N11	E11	SF	C1.3	6280
25	0901E	0905	0935D	N13	E06	SF	C2.9	6280
25	1035E	1037	1112D	N16	E06	1N	C5.3	6280
25	1425E	1429	1437D	N13	E04	SF	C1.5	6280
26	1003	1008	1013				C1.5	
26	1325E	1329	1420D	S17	W83	SF	C7.8	6272
26	1418	1430	1447D	S07	W59	SN	C4.2	6279
26	1558E	1602	1614D	S07	W59	SF	C3.3	6279
26	1708	1711	1713				B7.6	
26	1947E	1947	2000D	S08	E28	SF	B7.7	6283
26	2128	2131	2134				B6.3	
27	0844E	0846	0854D	N12	W15	SF	C1.1	6280
27	1837E	1839	1856D	S21	W44	SF	B9.2	6278
27	2047E	2050	2057D	S06	E08	SF	B5.5	6283
28	0133	0138	0141				C1.7	
28	0154E	0155	0208D	S04	E06	SN	C1.5	6283
28	0939	0948	1001				C1.0	
28	1410E	1411	1417D	S14	W31	SF	C1.4	6287
29	0406E	0408	0420D	S14	W38	SF	C9.4	6287
29	1036E	1037	1043D	S11	W12	SN	C2.9	6283
29	2257E	2313	2338D	S10	W20	SF	C1.7	6283
30	0737E	0746	0824D	S13	W23	SN	C9.2	6283
30	2000	2004	2010				C1.4	

Preliminary GOES Satellite Data
Daily Average X-ray Background
Oct 1989 - Sep 1990

Day	1989			1990								
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	C1.3	C1.2	C1.6	C1.4	B9.5	C1.1	B7.4	B3.1	B3.1	C1.2	C1.3	B8.7
2	C1.5	C1.4	C1.2	C1.1	B7.8	C1.1	B5.2	B4.2	B3.7	C1.4	C1.2	B8.6
3	C1.6	C1.2	C1.1	C1.1	B8.9	C1.0	B7.8	B2.8	B3.6	C1.2	B7.8	B6.6
4	C1.6	C1.3	C1.5	C1.1	B7.8	B9.1	B6.9	B2.7	B3.8	C1.1	B7.1	B7.3
5	C1.3	C1.3	C1.1	C1.0	B7.7	B7.0	B6.1	B4.4	B4.8	C1.1	B6.9	C1.0
6	C1.2	C1.7	C1.0	C1.0	C1.1	B7.5	B5.4	B5.7	B8.5	C1.0	B7.0	B6.0
7	C1.2	C1.9	C1.5	---	B7.5	B7.4	B4.6	B7.7	C1.2	C1.1	B7.0	B6.6
8	C1.0	C2.5	C1.4	B7.3	B6.1	B6.7	B4.6	B9.8	C1.0	C1.1	B9.6	B5.9
9	C1.3	C2.9	C1.2	B6.2	B5.7	B5.4	B4.8	C1.0	B9.1	C1.1	B7.8	B6.5
10	C1.0	C2.3	B8.9	B6.9	B5.2	B5.9	B6.1	C1.4	C1.3	B9.7	B7.9	B6.9
11	C1.0	C1.7	B8.1	B7.3	B4.6	B8.5	C1.0	C1.5	C1.0	B7.9	B7.2	B8.7
12	---	C1.7	B7.2	B7.5	B4.3	B5.8	C1.2	---	C1.1	B6.0	B7.9	B7.5
13	C2.7	C1.5	B7.3	B7.5	B4.0	B7.1	---	C1.5	C1.0	B7.8	B8.2	B7.6
14	C1.4	C1.8	B7.4	B6.7	B4.1	B8.8	C1.6	C1.3	B8.0	B4.6	B6.3	C1.0
15	C1.4	C2.2	B6.3	B9.5	B4.2	C1.0	C1.6	C1.9	B8.5	B4.3	B6.6	B7.9
16	C1.1	C1.7	B6.2	C1.0	B4.0	C1.2	C1.3	C1.4	B6.9	B4.6	B9.4	B7.4
17	C1.2	C1.6	B6.8	C1.1	B5.9	B9.3	C1.2	C1.4	B5.9	B6.2	C1.2	B9.3
18	C2.0	C1.6	B8.8	C1.2	B8.2	C1.3	C1.7	C1.6	B4.9	B9.5	C1.7	B8.5
19	C3.2	C1.8	C1.1	C1.6	C1.2	C1.6	C1.3	C2.4	B4.8	B4.7	C1.6	B9.3
20	C1.7	C1.4	B9.6	C1.9	C1.1	C1.1	C1.6	C1.8	B5.2	B4.7	C1.9	B8.1
21	C1.6	C1.5	C1.2	C1.9	C1.2	C1.3	C1.4	C1.6	B5.0	B5.8	C2.0	B9.0
22	---	C1.6	C1.5	C1.8	C1.0	C1.9	C1.1	C1.4	B4.6	B6.2	C2.0	B7.9
23	C2.4	C1.3	C1.2	C1.4	C1.1	C1.4	C1.1	C1.6	B4.2	B7.2	C2.2	B9.5
24	C1.8	C1.1	C1.4	C1.5	C1.0	C1.4	C1.0	C1.3	B5.8	B7.3	C2.1	B8.9
25	---	C1.2	C2.2	C1.2	B9.8	C1.1	C1.1	C1.5	B6.0	C1.0	C1.5	B6.9
26	C1.1	C1.3	C2.7	C1.4	B9.5	C1.7	C1.3	C1.4	B5.2	B9.5	C1.8	B4.8
27	C1.4	C1.3	C2.7	C1.0	C1.2	C1.6	C1.0	B6.8	B9.4	B7.0	C1.7	B4.0
28	C1.3	C1.1	C2.6	C1.0	C1.6	C1.8	B5.7	B6.4	C1.3	B7.3	C2.2	B4.1
29	C1.4	C1.2	C2.7	C1.2		C1.3	B3.8	B4.7	C1.3	B6.6	C1.5	B4.5
30	C1.4	C1.8	C2.5	C1.1		C1.2	B3.4	B5.5	C1.1	C1.0	C1.5	B4.8
31	C1.6		C1.8	C1.0		C1.0		B4.5		B9.4	C1.0	

MASS EJECTIONS FROM THE SUN

53
Sep 90

SEPTEMBER 1990

Site	Mo	Day	Observed UT			Location		Freq or Wavelength	Kind of Event	
			Start	Max	End	RA°	R/Ro			
KHAR	Sep	02	0903	E	0925	D	165	0.03	H-alpha	S
LEAR	Sep	07	0533.0		0542.0				Meter	II
SVTO	Sep	07	0534.0		0543.0				Meter	II
LEAR	Sep	07	0542.0		0600.0				Meter	IV
SGMR	Sep	08	1101.0		1112.0				Meter	II
SVTO	Sep	08	1102.0		1109.0				Meter	II
POTS	Sep	08	1102.1		1113.6				40-170 MHz	II Continuum
WEIS	Sep	08	1102.3		1108.9				50- 30 MHz	II Herringbone
POTS	Sep	08	1134.6		1145.9				40-170 MHz	IV?
LEAR	Sep	14	0413.0		0430.0				Meter	II
WEIS	Sep	14	1339.8		1351.2				60- 30 MHz	II Herringbone
SGMR	Sep	14	1340.0		1354.0				Meter	II
POTS	Sep	14	1340.0		1419.3				40- 90 MHz	II
SVTO	Sep	14	1347.0		1352.0				Meter	II
WEIS	Sep	14	1410.7		1412.6				50- 36 MHz	II
SGMR	Sep	14	2008.0		2022.0				Meter	II
PALE	Sep	14	2010.0		2018.0				Meter	II
POTS	Sep	17	0652.8		0654.3				40- 60 MHz	II?
ABST	Sep	19	0520	E 0534	U 0554	D	045	1.00	H-alpha	SP
KHAR	Sep	21	0806	E	0834	D	075	0.83	H-alpha	S
KHAR	Sep	21	0906	E	0935	D	133	0.79	H-alpha	S
ABST	Sep	23	0536	E 0605	U 0614	D	287	1.00	H-alpha	SP
ONDR	Sep	23	1209.9		1313.6				Meter	II
POTS	Sep	23	1307.1		1325				40-170 MHz	IV, II Harmonic
WEIS	Sep	23	1309.0		1316.8				260- 36 MHz	II Herringbone
SGMR	Sep	23	1313.0		1330.0				Meter	II
WEIS	Sep	23	1329.3		1330.4				40- 36 MHz	II
LEAR	Sep	23	2239.0		2251.0				Meter	II
PALE	Sep	23	2244.0		2256.0				Meter	II
POTS	Sep	24	0916.0		0917.9				40 -70 MHz	II?
POTS	Sep	24	1201.2		1208.0				50-150 MHz	II Harmonic
KHAR	Sep	25	0854	E 0915	U 0955	D	030	0.72	H-alpha	SP
KHAR	Sep	25	1036	E 1037	U 1050	D	036	0.20	H-alpha	S
KHAR	Sep	25	1043	E 1052	U 1100	D	046	0.23	H-alpha	S
ONDR	Sep	26	1323.1		1323.2				Decimeter	II
WEIS	Sep	26	1437.1		1439.0				340-200 MHz	II
POTS	Sep	26	1437.1		1444.6				100-170 MHz	II
ABST	Sep	28	0456	E 0635	U 0802	D	110	1.00	H-alpha	Q
KHAR	Sep	28	0705	E	0950	D	110-120	1.00-1.20	H-alpha	Q
KHAR	Sep	28	0705	E	0954	D	330	1.00-1.40	H-alpha	Q
ONDR	Sep	29	1035.0		1037.1				Decimeter; meter	II
POTS	Sep	30	0734.6		0755.0				40 -90 MHz	IV, II
SVTO	Sep	30	0736.0		0742.0				Meter	IV
SVTO	Sep	30	0746.0		0759.0				Meter	II
LEAR	Sep	30	0746.0		0801.0				Meter	II

ACTIVE PROMINENCES AND FILAMENTS

SEPTEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue	Red	Obs Type	NOAA/ USAF Sta Reg#	Remarks
										Shift (.1 A)	Shift (.1 A)			
01	ADF	0030E	1006D	N12	W34	08	29.5	1	05	9	9	E	LEAR 6233	
01	AFS	0212E	1006D	S16	E10	09	1.8		03	9	9	E	LEAR 6237	
01	AFS	0216E	1006D	S13	E23	09	2.8		02	9	9	E	LEAR 6238	
01	APR	0216E	1006D	S29	W86	08	25.4	1		9	9	E	LEAR 6227	
01	ADF	0220E	1006D	S15	E29	09	3.3	1	06	9	9	E	LEAR 6245	
01	BSL	0655	0705	S23	W90	08	25.4	1				P	BUCA	
01	SDF	0735E	2245D	N10	E56	09	5.5		30	0	0	E	LEAR	
01	ADF	0740E	1641D	N13	W37	08	29.6	2	10	9	9	E	SVTO 6233	
01	SSB	1130		S34	W39	09	4.2			0	0	E	RAMY	151 W56
01	ADF	1130E	1649D	S26	W74	08	26.8	1	05	9	9	E	RAMY 6230	
01	ADF	1130E	2213D	N12	W34	08	30.0	1	09	9	9	E	RAMY 6233	
01	SDF	1258E	1309D	N26	E33	09	4.1		14	0	0	E	RAMY	
01	SDF	1331E	1405D	N24	E44	09	5.0		15	0	0	E	HOLL	
01	ADF	1350E	2352D	N12	W38	08	29.8	1	06	9	9	E	HOLL 6233	
01	ASR	1354E	1952D	S23	W82	08	26.4			9	9	E	RAMY 6227	
01	APR	1511E	1947D	S27	W90	08	25.7	2		9	9	E	HOLL 6227	
01	DSD	1530E	1956D	S11	E13	09	2.6		02	9	9	E	HOLL 6238	
01	SSB	1545		S34	W42	09	4.4			0	0	E	HOLL	180 W88
01	SDF	1641E	0912D	N12	E38	09	4.5		09	0	0	E	SVTO	
01	APR	1649E	1953D	S26	W90	08	25.8	2		9	9	E	RAMY 6230	
01	APR	1655E	1949D	S25	W90	08	25.8			9	9	E	PALE 6227	
01	ADF	1718E	0429D	N13	W41	08	29.7		07	9	9	E	PALE 6233	
01	AFS	1718E	0429D	S13	E17	09	3.0		03	9	9	E	PALE 6238	
01	ADF	1718E	0429D	S14	E22	09	3.4		05	9	9	E	PALE 6245	
01	ASR	1720E	1947D	S27	W90	08	25.8			9	9	E	HOLL 6227	Flare Associated
01	SDF	1857E	1756D	N07	E60	09	6.3		18	0	0	E	PALE	
01	ADF	2340E	1002D	N12	W47	08	29.5	1	05	9	9	E	LEAR 6233	
02	APR	0113E	0235D	S25	W90	08	26.2	1		9	9	E	LEAR 6227	Flare Associated
02	AFS	0114E	1002D	S14	E11	09	2.9		03	9	9	E	LEAR 6238	
02	ADF	0116E	1002D	S09	E10	09	2.8	1	04	9	9	E	LEAR 6238	
02	ASR	0359E	1002D	S27	W90	08	26.2			9	9	E	LEAR 6227	
02	ASR	0638E	1325D	S08	W90	08	26.6			9	9	E	SVTO 6228	
02	ASR	0639E	1559D	S30	W90	08	26.3			9	9	E	SVTO 6230	
02	AFS	0641E	1559D	S13	E09	09	2.9		03	9	9	E	SVTO 6238	
02	AFS	0642E	1559D	N11	E27	09	4.3		02	7	7	E	SVTO 6244	
02	ADF	0846E	0934D	N22	E18	09	3.7	1				V	KHAR	
02	ADF	0846E	0945D	N27	E52	09	6.4	1				V	KHAR	
02	ADF	0848E	0945D	N15	W70	08	28.2	1				V	KHAR	
02	DSD	0903E	0925D	S12	E03	09	2.6	1				V	KHAR	
02	DSD	1020E	1035	N10	W58	08	29.2		07	9	9	E	SVTO 6233	
02	SSB	1100		S43	W11	08	29.6			0	0	E	RAMY	131 W49
02	AFS	1100E	1744D	N11	W50	08	29.8		03	9	9	E	RAMY 6233	
02	AFS	1100E	1744D	N12	E25	09	4.3		03	9	9	E	RAMY 6244	
02	ADF	1100E	1744D	N23	E21	09	4.1	1	13	9	9	E	RAMY 6239	
02	AFS	1100E	1744D	S14	E06	09	2.9		02	8	7	E	RAMY 6238	
02	ASR	1100E	1744D	S28	W78	08	27.5			9	9	E	RAMY 6230	
02	DSD	1211	1506D	N13	W45	08	30.2		04	9	9	E	RAMY 6233	Flare Associated
02	DSD	1211	1230	N10	W60	08	29.1		12	9	9	E	SVTO 6233	Flare Associated
02	AFS	1211E	1559D	N10	W52	08	29.7		02	9	9	E	SVTO 6233	
02	DSD	1238E	1506D	N11	W57	08	29.3		03	9	9	E	RAMY 6233	
02	SDF	1243E	1440D	N38	E46	09	6.2		17	0	0	E	RAMY	
02	SDF	1310E	1323D	S07	W01	09	2.5	1	06	0	0	E	SVTO 6238	
02	AFS	1324E	1559D	S13	E53	09	6.5		02	9	9	E	SVTO 6246	
02	AFS	1358E	0101D	N11	W54	08	29.6		02	9	9	E	HOLL 6233	
02	APR	1430E	1559D	S19	E90	09	9.5	1		9	9	E	SVTO	
02	EPL	1442	1503	S19	E90	09	9.5			9	9	E	SVTO	
02	EPL	1451E	1537D	S18	E90	09	9.5			9	8	E	HOLL	
02	EPL	1453E	1744D	S19	E90	09	9.5			9	9	E	RAMY	
02	SDF	1500E	1420D	S33	W18	09	1.2		23	0	0	E	HOLL	
02	SDF	1500E	1420D	S33	W18	09	1.2		23	0	0	E	HOLL	
02	AFS	1516E	0101D	S13	E51	09	6.5		02	9	9	E	HOLL 6246	
02	ASR	1520E	0101D	S28	W90	08	26.7			9	9	E	HOLL 6230	
02	DSD	1525E	1821D	N10	W48	08	30.1		04	9	9	E	HOLL 6233	
02	AFS	1530E	0101D	S12	E03	09	2.9		02	8	8	E	HOLL 6238	
02	AFS	1535E	0101D	S12	E26	09	4.6		02	9	9	E	HOLL 6241	
02	DSD	1618E	1744D	N11	W59	08	29.3		02	9	9	E	RAMY 6233	
02	APR	1620E	0101D	S22	E90	09	9.6	1		9	9	E	HOLL	
02	AFS	1621E	1744D	N01	E83	09	8.9		02	9	9	E	RAMY 6247	
02	AFS	1623E	1744D	S15	E54	09	6.8		02	9	9	E	RAMY 6246	

ACTIVE PROMINENCES AND FILAMENTS

55
Sep 90

SEPTEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
02	AFS	1624E	1744D	S13	E27	09	4.7		02	9	9	E	RAMY	6241	
02	SSB	1630		454	W15	08	29.7			0	0	E	HOLL		129 W50
02	ASR	1721E	0418D	S62	W90	08	25.8			9	9	E	PALE		
02	DSD	1736E	0418D	N14	W60	08	29.3		04	9	9	E	PALE	6233	
02	DSD	1736E	0418D	S13	E01	09	2.8		02	9	9	E	PALE	6238	
02	AFS	1736E	0418D	S14	E54	09	6.8		02	9	9	E	PALE	6246	
02	SDF	1756E	1820D	N25	E31	09	5.1		16	0	0	E	PALE		
02	DSD	1817E	0101D	S12	W02	09	2.6		03	9	9	E	HOLL	6238	
02	ADF	2325E	0815D	N06	W57	08	29.8	1	08	9	9	E	LEAR	6233	
03	ASR	0125E	0840D	S30	W90	08	27.1			9	9	E	LEAR	6230	
03	AFS	0247E	1004D	S15	E46	09	6.6		02	9	9	E	LEAR	6246	
03	ASR	0515	1004D	S15	E90	09	10.0			9	9	E	LEAR		
03	ASR	0550E	1615D	S27	W90	08	27.3			9	9	E	SVTO	6230	
03	AFS	0551E	1615D	S13	E45	09	6.6		02	9	9	E	SVTO	6246	
03	DSD	0638E	1615D	N12	W55	08	30.2		02	9	9	E	SVTO	6233	
03	AFS	0638E	1615D	N13	W63	08	29.6		03	9	9	E	SVTO	6233	
03	AFS	0926E	1615D	N02	E67	09	8.4		02	9	9	E	SVTO	6247	
03	AFS	1120E	1615D	S08	E17	09	4.7		02	9	9	E	SVTO		
03	DSD	1125E	1203	N12	W71	08	29.2		05	9	9	E	SVTO	6233	
03	AFS	1150E	1615D	S13	E15	09	4.6		02	9	9	E	SVTO	6241	
03	AFS	1157E	1713D	S13	W08	09	2.9		02	9	9	E	RAMY	6238	
03	AFS	1158E	1713D	S07	W18	09	2.1		02	9	9	E	RAMY		
03	DSD	1159E	1713D	N13	W72	08	29.2		04	9	9	E	RAMY	6233	
03	AFS	1200E	1713D	N15	W67	08	29.5		03	9	9	E	RAMY	6233	
03	ADF	1201E	1713D	N17	W54	08	30.5	1	11	9	9	E	RAMY	6233	
03	APR	1313E	1420D	N14	E90	09	10.3	3		9	9	E	RAMY		
03	ADF	1330E	2241D	S16	E39	09	6.5	1	06	9	9	E	HOLL	6246	
03	AFS	1330E	2259D	S14	E39	09	6.5		02	8	8	E	HOLL	6246	
03	ADF	1330E	2259D	S17	E46	09	7.0	1	24	9	9	E	HOLL		
03	DSD	1340E	1907D	S14	W14	09	2.5		04	9	9	E	HOLL	6238	
03	SSB	1505		453	W26	08	30.6			0	0	E	HOLL		138 W71
03	AFS	2328E	1000D	N17	E53	09	8.0		02	9	9	E	LEAR		
03	AFS	2330E	1000D	S15	E35	09	6.6		02	9	8	E	LEAR	6246	
04	DSD	0225E	1000D	S11	W21	09	2.5		04	9	9	E	LEAR	6238	
04	ASR	0228E	1000D	N11	E88	09	10.7			9	9	E	LEAR		
04	AFS	0547E	1700D	N14	W73	08	29.8		02	9	9	E	SVTO	6233	
04	AFS	0549E	1700D	S11	W21	09	2.7		02	9	9	E	SVTO	6238	
04	AFS	0621E	1700D	S13	E32	09	6.7		01	8	8	E	SVTO	6246	
04	ADF	0629E	1700D	N10	E56	09	8.5	1	05	9	9	E	SVTO	6247	
04	ASR	0635E	0948D	N12	W90	08	28.6			9	9	E	SVTO	6233	
04	ASR	0650E	1000D	N14	W90	08	28.6			5	5	E	LEAR	6033	
04	BSD	0744E	1110D	N13	W81	08	29.3		08	9	9	E	SVTO	6233	
04	DSD	0805E	0855D	N13	W68	08	30.3		08	9	9	E	SVTO	6233	Flare Associated
04	ADF	0830E	1700D	N13	E00	09	4.3	1	04	9	9	E	SVTO	6244	
04	DSD	1040E	2016D	N12	W03	09	4.2		04	9	9	E	RAMY	6244	
04	ASR	1042E	2138D	N15	W85	08	29.1			9	9	E	RAMY	6233	
04	AFS	1043E	2138D	N16	W80	08	29.5		02	9	9	E	RAMY	6233	
04	ADF	1046E	2138D	S07	W23	09	2.7	1	07	9	9	E	RAMY	6238	
04	BSD	1131	1700D	N14	W80	08	29.5		03	9	9	E	SVTO	6233	
04	ASR	1319E	2207D	N13	W79	08	29.7			9	9	E	HOLL	6233	
04	ADF	1326E	2207D	S11	W28	09	2.4	1	06	9	9	E	HOLL	6238	
04	DSD	1328E	2014D	N13	E79	09	10.5		06	9	9	E	RAMY		
04	DSD	1330E	2207D	N15	E78	09	10.5		05	9	9	E	HOLL		
04	ADF	1332E	1507D	S14	E32	09	7.0	1	07	9	9	E	HOLL	6246	
04	SDF	1700E	0625D	N01	E46	09	8.1		06	0	0	E	SVTO		
04	SSB	1730		428	W16	09	2.6			0	0	E	PALE		
04	ASR	1730E	0430D	N10	W90	08	29.1			9	9	E	PALE	6233	
04	AFS	1730E	0430D	N18	E42	09	7.9		02	9	9	E	PALE	6251	
04	ADF	1730E	0430D	S03	W25	09	2.9	1	13	9	9	E	PALE	6238	
04	ADF	1730E	2018D	N16	E74	09	10.3		07	9	9	E	PALE	6249	
04	ADF	2025E	0430D	N13	W07	09	4.3		05	9	9	E	PALE	6244	
04	DSD	2025E	0430D	N16	E80	09	10.9		02	9	9	E	PALE	6252	
04	ASR	2325E	0955D	N15	W90	08	29.3			9	9	E	LEAR	6233	
04	AFS	2355E	0955D	S10	W35	09	2.4		04	9	9	E	LEAR	6238	
05	AFS	0250E	0955D	N13	W11	09	4.3		03	9	9	E	LEAR	6244	
05	LPS	0615E	0800D	N15	W90	08	29.5	1				P	BUCA		
05	ASR	0620E	1550D	N11	W90	08	29.6			9	9	E	SVTO	6233	Flare Associated

ACTIVE PROMINENCES AND FILAMENTS

SEPTEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP		Imp	Extent	Blue	Red	Obs Type	NOAA/ USAF Reg#	Remarks
						Mo	Day			Shift (.1 A)	Shift (.1 A)			
05	ADF	0621E	1550D	N21	W22	09	3.6	2	10	9	9	E	SVTO	
05	SSB	0625		395	W00	08	29.3			0	0	E	SVTO	
05	ADF	1039E	1750D	S16	W05	09	5.1	1	08	9	9	E	RAMY 6241	
05	DSD	1040E	1740D	N15	E65	09	10.4		04	9	9	E	RAMY 6252	
05	AFS	1040E	1805D	N12	E69	09	10.6		02	9	9	E	RAMY 6252	
05	ADF	1043E	1819D	N14	E59	09	9.9	1	13	9	9	E	RAMY 6249	
05	ADF	1048E	1430D	N10	E42	09	8.6	1	07	9	9	E	RAMY 6247	
05	DSD	1053E	1309D	S15	E16	09	6.7		03	7	7	E	RAMY 6246	
05	AFS	1053E	1431D	S13	E14	09	6.5		03	9	9	E	RAMY 6246	
05	AFS	1056E	1310D	N10	W17	09	4.2		02	9	9	E	RAMY 6244	
05	DSD	1059E	1516D	S14	W10	09	4.7		03	9	9	E	RAMY 6241	
05	AFS	1059E	1800D	S13	W12	09	4.5		02	9	9	E	RAMY 6241	
05	SSB	1116		428	W25	09	3.3			0	0	E	RAMY	456 W53
05	AFS	1829E	0358D	S15	W40	09	2.7		02	9	9	E	PALE 6238	
05	ADF	1830E	0358D	N18	E62	09	10.5		04	9	9	E	PALE 6252	
05	ASR	1832E	0358D	N15	W90	08	30.0			9	9	E	PALE 6233	
05	ADF	1834E	0358D	N12	E41	09	8.9		05	9	9	E	PALE 6249	
05	ADF	1836E	2110D	N03	E32	09	8.2		03	9	9	E	PALE 6247	
05	ADF	1840E	0358D	N20	W29	09	3.5		08	9	9	E	PALE 6239	
05	DSD	1920E	2133D	S12	W43	09	2.6		02	9	9	E	HOLL 6238	
05	ADF	1920E	2133D	S15	W44	09	2.5		06	9	9	E	HOLL 6238	
05	ASR	1924E	2133D	N14	W90	08	30.1			9	9	E	HOLL 6233	
05	ASR	1940E	0358D	N13	W90	08	30.1			9	9	E	PALE 6233	
05	DSD	2100E	0358D	S14	W15	09	4.7		02	9	9	E	PALE 6241	
05	ADF	2110E	0358D	N11	E34	09	8.4		08	9	9	E	PALE 6247	
05	AFS	2115E	2133D	N14	E46	09	9.4		02	9	9	E	HOLL 6249	
05	AFS	2135E	2136D	N15	E44	09	9.2		02	9	9	E	PALE 6249	
05	APR	2304	0038D	S29	W90	08	30.0	1				C	VORO	
05	ADF	2329	0038D	S32	W05	09	5.6	1				C	VORO	
05	APR	2344	0038D	N45	W90	08	29.6	1				C	VORO	
06	ASR	0025E	1000D	N15	W90	08	30.3			9	9	E	LEAR 6233	
06	DSD	0029E	0545D	S12	W35	09	3.4		02	6	9	E	LEAR 6238	
06	AFS	0035E	1000D	N14	E45	09	9.4		02	9	9	E	LEAR 6249	
06	DSD	0052E	0545D	N12	W26	09	4.1		02	8	8	E	LEAR 6244	
06	AFS	0550E	1633D	N17	E39	09	9.2		02	9	9	E	SVTO 6249	
06	AFS	0550E	1633D	S14	W44	09	2.9		03	9	9	E	SVTO 6238	
06	SSB	0551		394	W02	08	30.3			0	0	E	SVTO	
06	ADF	0630E	1633D	N12	E30	09	8.5	1	08	9	9	E	SVTO 6247	
06	ADF	0632E	1633D	N23	W34	09	3.6	2	13	9	9	E	SVTO 6239	
06	APR	0635E	1633D	N13	W90	08	30.6	2		9	9	E	SVTO 6233	
06	ASR	0900E	1515D	N15	W90	08	30.7			9	9	E	SVTO 6233	
06	ADF	1041E	1949D	N18	E51	09	10.3	1	11	8	8	E	RAMY 6252	
06	ADF	1044E	1318D	S08	W52	09	2.5	1	08	9	9	E	RAMY 6250	
06	ADF	1053E	1407D	S20	E02	09	6.6	1	09	8	8	E	RAMY 6246	
06	ADF	1113E	1403D	N06	E71	09	11.8	1	09	9	9	E	RAMY	
06	SSB	1116		394	W05	08	30.5			0	0	E	RAMY	427 W38 449 W60
06	AFS	1216E	1633D	S15	W28	09	4.4		03	9	9	E	SVTO 6241	
06	DSD	1233E	1633D	N09	W46	09	3.1		06	9	9	E	SVTO 6239	
06	DSD	1319E	1436D	N10	E25	09	8.4		03	9	9	E	RAMY 6247	
06	SDF	1334E	1214D	S32	E25	09	8.5	3	26	0	0	E	RAMY	
06	AFS	1428E	0055D	S15	W28	09	4.5		04	9	9	E	HOLL 6241	
06	SDF	1437E	1327D	S32	E23	09	8.4		13	0	0	E	HOLL	
06	SSB	1445		396	W08	08	30.5			0	0	E	HOLL	425 W37 460 W72
06	DSD	1500E	1520	S18	W30	09	4.3		03	9	9	E	HOLL 6241	
06	DSD	1520E	0055D	S14	W29	09	4.4		03	9	9	E	HOLL 6241	
06	ADF	1527	1755D	S16	W31	09	4.3	2	04	9	9	E	HOLL 6241	
06	BSD	1550E	1615D	S21	E71	09	12.1		20	9	9	E	HOLL	Flare Associated
06	ASR	1636E	0055D	S17	E75	09	12.4			9	9	E	HOLL	
06	APR	1713E	0412D	S26	W90	08	30.8	1		9	9	E	PALE 6237	
06	ADF	1735E	0055D	N08	W49	09	3.0	2	05	9	9	E	HOLL	
06	AFS	1735E	0055D	N10	W47	09	3.2		01	9	9	E	HOLL	
06	DSD	1738E	0412D	N07	W50	09	3.0		05	9	9	E	PALE 6239	
06	AFS	1738E	0412D	N09	W50	09	3.0		03	9	9	E	PALE 6239	
06	ADF	1738E	0412D	N18	E34	09	9.3		05	9	7	E	PALE 6249	
06	DSD	1738E	0412D	S15	W32	09	4.3		05	9	9	E	PALE 6241	
06	DSD	1738E	0412D	S15	W57	09	2.4		02	9	9	E	PALE 6238	
06	DSD	1738E	0412D	S16	W03	09	6.5		02	9	9	E	PALE 6246	
06	ADF	1738E	0412D	S19	E66	09	11.8		04	9	9	E	PALE	
06	DSD	1738E	0412D	S19	W33	09	4.2		05	9	9	E	PALE 6241	

ACTIVE PROMINENCES AND FILAMENTS

57
Sep 90

SEPTEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CHP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
06	APR	1739E	0055D	N15	W90	08 31.0			9	9	E	HOLL	6233	
06	ADF	1755E	0055D	S13	W30	09 4.5	2	09	9	9	E	HOLL	6241	
06	SSB	1857		396	W13	08 30.6			0	0	E	PALE		
06	SSB	1857		414	W19	09 5.7			0	0	E	PALE		436 W03
06	SDF	1949E	1100D	S19	W03	09 6.6		21	0	0	E	RAMY		
06	EPL	2135E	2330D	S48	E90	09 14.5			6	7	E	HOLL		
06	ADF	2244	2304D	N25	W24	09 5.1	1				C	VORO		
06	APR	2304	0012	S20	W90	08 31.1	1				C	VORO		
07	SDF	0406E	0815D	N18	W22	09 5.5		30	0	0	E	LEAR		
07	SDF	0406E	0815D	N28	W06	09 6.7		40	0	0	E	LEAR		
07	SDF	0412E	1710D	S19	W07	09 6.6		27	0	0	E	PALE		
07	DSD	0537E	1005D	S14	W37	09 4.4		01	9	9	E	LEAR	6245	Bright Emission 1/3
07	ADF	0815E	1645D	N17	E26	09 9.3	1	02	9	9	E	SVTO	6249	
07	ADF	0819E	1052D	N18	E07	09 7.9	1	04	9	7	E	SVTO	6251	
07	DSD	0828E	1645D	S15	W38	09 4.5		03	9	9	E	SVTO	6241	
07	DSD	0841E	1005D	S40	W14	09 6.2		02	9	9	E	LEAR	6241	
07	AFS	1042E	1645D	S15	W54	09 3.3		01	9	9	E	SVTO	6245	
07	AFS	1042E	1645D	S16	W37	09 4.6		02	9	9	E	SVTO	6241	
07	ADF	1048E	1715D	N16	E38	09 10.3	1	13	9	9	E	RAMY	6252	
07	ADF	1048E	1759D	S12	W13	09 6.5	1	07	9	9	E	RAMY	6246	
07	AFS	1048E	1759D	S15	W42	09 4.3		02	9	9	E	RAMY	6241	
07	DSD	1048E	1759D	S16	W39	09 4.5		03	9	9	E	RAMY	6241	
07	ADF	1056E	1645D	S16	W11	09 6.6	1	06	9	9	E	SVTO	6246	
07	SSB	1208		376	W00	09 1.8			0	0	E	RAMY		397 W21 426 W50
07	DSD	1312E	1904D	S14	W38	09 4.7		03	9	9	E	HOLL	6241	
07	DSD	1413E	1904D	N19	E29	09 9.8		06	9	7	E	HOLL	6249	
07	DSD	1434E	1618D	N08	W59	09 3.2		04	9	9	E	HOLL		
07	ADF	1434E	1904D	S15	W39	09 4.6	2	05	9	9	E	HOLL	6241	
07	AFS	1439E	1442D	N08	W59	09 3.2		03	9	9	E	HOLL		
07	ADF	1446E	1904D	N11	E13	09 8.6	2	13	9	9	E	HOLL	6247	
07	APR	1624E	1904D	S11	W90	08 31.9	2		7	7	E	HOLL	6237	
07	SDF	1645E	0806D	N30	W23	09 5.9		35	0	0	E	SVTO		
07	SDF	1645E	0806D	S28	W04	09 7.4		23	0	0	E	SVTO		
07	SDF	1759E	1054D	N30	W20	09 6.2		27	0	0	E	RAMY		
07	AFS	1815E	0428D	N16	E19	09 9.2		03	9	9	E	PALE	6249	
07	DSD	1815E	0428D	N20	E69	09 13.0		03	9	9	E	PALE	6254	
07	ADF	1815E	0428D	S14	W42	09 4.6		07	9	9	E	PALE	6241	
07	SSB	1824		376	W04	09 2.1			0	0	E	PALE		397 W25 416 W54
07	APR	2145E	0428D	S30	W90	08 31.8	1		9	8	E	PALE		
07	APR	2356E	0012D	N47	W90	08 31.5	1				C	VORO		
08	ADF	0320E	1003D	S11	W47	09 4.6		04	9	9	E	LEAR	6241	
08	ADF	0740E	1530D	S17	W52	09 4.4	1	08	9	9	E	SVTO	6241	
08	ADF	0910E	0912D	S16	W54	09 4.3	1				V	KHAR		
08	ADF	0943E	1005D	N13	E30	09 10.7	1				V	KHAR		
08	ADF	0946E	0956D	S16	W50	09 4.6	1				V	KHAR		
08	ADF	1018E	1027D	S07	E36	09 11.1	1				V	KHAR		
08	ADF	1130E	1544D	N26	E65	09 13.5	1	07	9	9	E	RAMY	6254	
08	DSD	1130E	1544D	S16	W52	09 4.5		03	9	9	E	RAMY	6241	
08	ASR	1130E	1544D	S18	W90	09 1.6			9	9	E	RAMY	6237	
08	DSD	1136	1400D	N19	E61	09 13.1		04	9	9	E	RAMY	6254	Flare Associated
08	DSD	1419	1544D	N18	E56	09 12.9		03	9	9	E	RAMY	6254	Flare Associated
08	ADF	1433E	1544D	S19	E54	09 12.7	1	10	9	9	E	RAMY		
08	ADF	1438E	1544D	N10	E55	09 12.7	1	14	9	9	E	RAMY	6253	
08	ASR	1555E	0101D	S20	W82	09 2.4			7	4	E	HOLL	6242	
08	AFS	1612E	0101D	N12	W58	09 4.3		02	8	9	E	HOLL	6244	
08	APR	1625E	0101D	S32	W81	09 2.3			7	6	E	HOLL		
08	SSB	1735		426	W67	09 6.4			0	0	E	PALE		398 W39 376 W17
08	DSD	1735E	0419D	N02	W04	09 8.4		02	9	9	E	PALE	6247	
08	ADF	1735E	0419D	N11	W04	09 8.4		08	9	9	E	PALE	6247	
08	AFS	1735E	0419D	N21	W27	09 6.7		02	9	9	E	PALE		
08	SSB	1800		373	W14	09 3.2			0	0	E	HOLL		397 W38 424 W65
08	ASR	1850E	0419D	S09	E90	09 15.5			9	9	E	PALE		
08	DSD	1952E	0101D	N17	E55	09 13.0		07	9	9	E	HOLL	6254	Flare Associated
09	AFS	0255E	1003D	N20	W31	09 6.7		04	7	5	E	LEAR	6255	
09	AFS	0608E	1545D	S20	E58	09 13.7		02	9	9	E	SVTO		
09	AFS	0608E	1650D	N19	W32	09 6.8		02	9	9	E	SVTO	6255	
09	ASR	0610E	1003D	S10	E90	09 16.0			9	9	E	LEAR		

ACTIVE PROMINENCES AND FILAMENTS

SEPTEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
09	SDF	0810E	2320D	S22	W02	09 9.2		12	0	0	E	LEAR		
09	ADF	1043E	1728D	N12	W11	09 8.6	1	12	9	9	E	RAMY 6247		
09	ADF	1053E	1544D	S11	W06	09 9.0	1	04	9	9	E	RAMY 6256		
09	EPL	1056E	1122D	S23	W90	09 2.5	2		9	9	E	RAMY 6245		
09	EPL	1058E	1134D	S25	W90	09 2.5	2		9	9	E	SVTO		
09	ASR	1112E	1215D	N08	E90	09 16.2			8	7	E	RAMY		
09	SSB	1116		367	W17	09 4.4			0	0	E	RAMY		397 W47 424 W74
09	ASR	1118E	1345D	N10	E90	09 16.2			9	9	E	SVTO		
09	ASR	1129E	1401D	S06	E90	09 16.2			9	9	E	SVTO		
09	ASR	1132E	1238D	S18	W90	09 2.6			8	8	E	RAMY 6238		
09	ADF	1205E	1650D	N12	W11	09 8.7	1	09	9	9	E	SVTO 6247		
09	ASR	1238E	1340D	S13	W90	09 2.7			9	9	E	RAMY 6238		
09	EPL	1313E	1335D	S17	W90	09 2.7	2		9	9	E	SVTO 6238		
09	ADF	1510E	1852D	N11	E45	09 13.0		10	9	9	E	HOLL 6253		
09	ASR	1514E	0100D	N15	E90	09 16.4			9	9	E	HOLL		
09	ASR	1515E	1728D	S12	W90	09 2.8			9	9	E	RAMY 6238		
09	MDP	1527E	1755D	N13	E90	09 16.4			9	9	E	HOLL		
09	ADF	1540E	1554D	S28	E36	09 12.5		07	9	9	E	HOLL		
09	AFS	1615E	0100D	N21	W38	09 6.8		01	9	9	E	HOLL 6255		
09	ADF	1744E	0100D	N13	W15	09 8.6	1	12	9	9	E	HOLL 6247		
09	ADF	1755E	0100D	S11	E78	09 15.6	1	04	9	9	E	HOLL 6257		
09	DSD	1810E	0425D	N16	E48	09 13.4		03	9	9	E	PALE 6254		
09	DSD	1855E	0100D	N21	W38	09 6.9		03	9	9	E	HOLL 6255		
09	SSB	2115		376	W32	09 3.9			0	0	E	PALE		398 W54
09	ADF	2115E	0425D	N12	W19	09 8.4	1	07	9	9	E	PALE 6247		
09	ASR	2115E	0425D	N15	E90	09 16.7			9	9	E	PALE		
09	ASR	2125E	0100D	S16	W90	09 3.1			9	9	E	HOLL 6241		
09	AFS	2125E	0425D	N36	W37	09 6.9		02	9	9	E	PALE		
09	AFS	2310E	0425D	N21	W43	09 6.7		02	8	8	E	PALE 6255		
09	AFS	2325E	0425D	S11	W69	09 4.8		02	9	9	E	PALE		
09	AFS	2325E	0425D	S15	W77	09 4.1		02	9	9	E	PALE 6241		
09	AFS	2330E	1006D	N21	W42	09 6.7		02	9	9	E	LEAR 6255		
10	ADF	0216E	1006D	N06	W20	09 8.6		05	9	9	E	LEAR 6247		
10	AFS	0219E	1006D	S09	W69	09 4.9		02	9	9	E	LEAR		
10	ASR	0526E	1006D	N13	E90	09 17.0			9	9	E	LEAR		
10	AFS	0550E	1006D	N16	E36	09 13.0		02	9	9	E	LEAR 6254		
10	ADF	0606E	1543D	N11	W23	09 8.5	1	09	9	9	E	SVTO 6247		
10	AFS	0611E	1205D	S17	W80	09 4.2		02	9	9	E	SVTO 6241		
10	AFS	0611E	1543D	N20	W44	09 6.9		02	9	9	E	SVTO 6255		
10	AFS	0717E	1205D	N34	W42	09 6.9		02	8	7	E	SVTO		
10	AFS	0729E	1543D	S09	E66	09 15.3		02	9	9	E	SVTO 6257		
10	ADF	0739E	1543D	S17	E29	09 12.5	1	06	9	9	E	SVTO		
10	APR	0750E	0912D	N16	E90	09 17.1	1		9	9	E	SVTO		
10	ADF	0805E	1543D	S17	E56	09 14.6	1	11	9	9	E	SVTO		
10	EPL	0912E	0929D	N17	E90	09 17.2	2		9	9	E	SVTO		
10	EPL	0914E	0919	N13	E90	09 17.2			9	9	E	LEAR		
10	ASR	1003E	1543D	N17	E90	09 17.2			9	9	E	SVTO		
10	ASR	1028E	1205D	S16	W90	09 3.6			9	9	E	SVTO 6241		
10	ASR	1038E	1543D	N14	E89	09 17.2			9	9	E	RAMY		
10	ADF	1041E	1839D	N02	W25	09 8.6	1	10	9	9	E	RAMY 6247		
10	AFS	1043E	1543D	N35	W41	09 7.2		02	9	9	E	RAMY		
10	AFS	1045E	1839D	N22	W45	09 7.0		02	9	9	E	RAMY 6255		
10	AFS	1047E	1808D	S08	W71	09 5.1		02	9	9	E	RAMY		
10	ASR	1049E	1350D	S14	W81	09 4.3			8	8	E	RAMY 6241		
10	SSB	1053		368	W31	09 5.1			0	0	E	RAMY		398 W61
10	APR	1055E	1839D	N13	W90	09 3.7	1		9	9	E	RAMY 6239		
10	AFS	1058E	1839D	S08	E65	09 15.3		03	9	9	E	RAMY 6257		
10	ASR	1132E	1543D	S11	E90	09 17.2			9	9	E	SVTO		
10	ASR	1235E	1543D	N17	E90	09 17.4			9	9	E	SVTO 6241		
10	SDF	1329E	2050D	S18	E28	09 12.7		07	0	0	E	HOLL		
10	DSD	1345E	1543D	N04	W31	09 8.2		04	9	9	E	RAMY 6247		
10	ASR	1508E	1705D	S20	W90	09 3.7			9	9	E	RAMY 6241		
10	EPL	1535E	1602D	S21	W87	09 4.0			6	9	E	HOLL 6241		
10	AFS	1547E	2239D	N23	W53	09 6.6		01	9	9	E	HOLL 6255		
10	ASR	1615E	2239D	S14	W88	09 4.0	2		9	9	E	HOLL		
10	ASR	1615E	2239D	S21	W87	09 4.0	2		8	9	E	HOLL 6241		
10	ASR	1715E	0259D	N10	W90	09 3.9			9	9	E	PALE 6239		
10	APR	1715E	0348D	S19	E90	09 17.6			9	9	E	PALE		
10	ASR	1723E	2239D	S16	E90	09 17.5			9	9	E	HOLL		

ACTIVE PROMINENCES AND FILAMENTS

59
Sep 90

SEPTEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue	Red	Obs	NOAA/ USAF	Remarks
										Shift (.1 A)	Shift (.1 A)			
10	ADF	1756E	0415D	N06	W30	09	8.5	1	07	9	9	E	PALE 6247	
10	ADF	1756E	0415D	N13	W03	09	10.5		09	9	9	E	PALE 6252	
10	ADF	1756E	0415D	N19	W15	09	9.6	1	13	9	8	E	PALE 6249	
10	AFS	1756E	0415D	N20	W51	09	6.8		03	9	9	E	PALE 6255	
10	DSD	1756E	0415D	S15	E66	09	15.7		06	9	9	E	PALE 6257	
10	DSD	1756E	0415D	S17	E50	09	14.5		09	9	9	E	PALE	
10	ADF	1756E	0415D	S18	E20	09	12.3	1	03	9	8	E	PALE	
10	SSB	1814		365	W33	09	5.6			0	0	E	PALE	400 W67
10	MDP	2110E	2202D	N21	E90	09	17.8			9	9	E	HOLL	
10	ASR	2202E	2239D	N21	E90	09	17.8			9	9	E	HOLL	
10	APR	2246	0112D	N58	E90	09	18.8	1				C	VORO	
10	APR	2254	0112D	N21	E90	09	17.8	1				C	VORO	
10	ASR	2320E	1003D	N20	E90	09	17.8			9	9	E	LEAR	
10	ASR	2321E	1003D	S11	E90	09	17.7			9	9	E	LEAR	
10	ASR	2322E	1003D	S14	W90	09	4.2			9	9	E	LEAR 6260	
11	BSL	0046	0110D	S12	E90	09	17.8	1				C	VORO	
11	BSL	0047	0110D	S16	E90	09	17.8	1				C	VORO	
11	ADF	0230E	1003D	N10	E15	09	12.2	2	09	9	9	E	LEAR 6253	
11	AFS	0233E	1003D	S10	W59	09	6.7		04	9	9	E	LEAR 6257	
11	SDF	0415E	2111D	S16	E45	09	14.6		08	0	0	E	PALE	
11	ASR	0611E	1033D	N22	E90	09	18.2			9	9	E	SVTO	
11	AFS	0657E	1033D	S08	E58	09	15.6		03	9	9	E	SVTO 6257	
11	ADF	0707E	1033D	N08	W37	09	8.5	1	07	8	8	E	SVTO 6247	
11	AFS	0958E	1033D	S15	E41	09	14.5		01	9	9	E	SVTO	
11	ADF	1030E	1345D	N20	E75	09	17.2	1	05	9	9	E	RAMY	
11	DSD	1030E	1345D	N22	E80	09	17.6		04	9	9	E	RAMY	
11	ASR	1030E	1914D	N19	E88	09	18.1			9	9	E	RAMY 6268	
11	AFS	1036E	1408D	S18	E40	09	14.5		02	8	8	E	RAMY	
11	ASR	1037E	1410D	S12	E88	09	18.1			9	9	E	RAMY	
11	ADF	1040E	1914D	N28	E43	09	14.8	1	10	9	9	E	RAMY	
11	ADF	1048E	1534D	S22	E27	09	13.5	1	07	9	9	E	RAMY 6262	
11	AFS	1054E	1351D	S09	E50	09	15.2		03	9	9	E	RAMY 6257	
11	ADF	1310E	0101D	N13	W40	09	8.5	1	11	9	9	E	HOLL 6247	
11	ASR	1314E	0036D	S11	E88	09	18.2			9	9	E	HOLL	
11	ASR	1359	1528D	S20	W90	09	4.7			9	9	E	RAMY 6241	
11	ASR	1405E	2150D	N21	W90	09	4.7			9	9	E	HOLL 6246	
11	ASR	1442E	0036D	N22	E79	09	17.7			9	9	E	HOLL	
11	AFS	1442E	2225D	S32	E30	09	14.0		01	8	8	E	HOLL	
11	SSB	1508		325	W04	09	9.8			0	0	E	RAMY	347 W26 376 W55
11	ASR	1700E	0140D	S11	E88	09	18.3			9	8	E	PALE	
11	APR	1700E	2040D	S08	W90	09	5.0			9	9	E	PALE 6260	
11	AFS	1740E	2125D	S31	E30	09	14.1		01	9	9	E	PALE 6264	
11	SSB	1745		375	W55	09	5.3			0	0	E	PALE	
11	ASR	1802E	0142D	N24	E79	09	17.8			9	9	E	PALE 6268	
11	DSD	1810E	0142D	N24	E79	09	17.9		01	9	9	E	PALE 6268	
11	DSD	1832E	0130D	S17	E37	09	14.6		02	9	9	E	PALE 6265	
11	AFS	2225E	0040D	S18	E33	09	14.4		02	9	9	E	HOLL 6265	
11	AFS	2228E	0130D	S17	E33	09	14.4		02	9	9	E	PALE 6265	
11	ADF	2250E	0432D	N18	W31	09	9.6		04	9	9	E	PALE 6249	
11	AFS	2320E	1004D	N12	E68	09	17.1		02	9	9	E	LEAR 6263	
11	AFS	2331E	1004D	N21	E87	09	18.6		02	9	9	E	LEAR 6268	
12	SSB	0015		320	W04	09	10.5			0	0	E	HOLL	372 W56
12	DSD	0015E	0101D	N22	E73	09	17.6		03	9	9	E	HOLL 6268	
12	ASR	0020E	0101D	N18	E90	09	18.9			8	8	E	HOLL	
12	DSD	0045E	0101D	S17	E15	09	13.2		03	9	9	E	HOLL 6262	Flare Associated
12	DSD	0125E	0432D	N05	W46	09	8.6		05	9	9	E	PALE 6247	Flare Associated
12	ADF	0538E	1610D	N01	W49	09	8.6	1	12	9	9	E	SVTO 6247	
12	SSB	0550		364	W51	09	6.8			0	0	E	SVTO	
12	DSD	1029E	1402D	N20	E65	09	17.4		03	9	9	E	RAMY 6268	
12	AFS	1029E	2126D	N22	E68	09	17.7		02	9	9	E	RAMY 6268	
12	AFS	1033E	1410D	S18	E26	09	14.4		02	7	7	E	RAMY 6265	
12	AFS	1036E	1412D	S31	E21	09	14.1		02	9	9	E	RAMY 6264	
12	AFS	1038E	1650D	N12	E57	09	16.7		02	9	9	E	RAMY 6263	
12	ADF	1038E	2126D	N19	E57	09	16.8	1	06	9	9	E	RAMY 6263	
12	ADF	1056E	1538D	N10	E05	09	12.8	1	15	9	9	E	RAMY 6252	
12	SSB	1358		308	W01	09	12.0			0	0	E	RAMY	325 W16 345 W36
12	DSD	1408E	2126D	S30	E65	09	17.7		03	9	9	E	RAMY 6266	
12	DSD	1447E	1645D	N22	E70	09	18.0		13	9	9	E	HOLL 6268	

ACTIVE PROMINENCES AND FILAMENTS

SEPTEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP No	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
12	DSD	1449E	2126D	N22	E72	09	18.1		09	9	9	E	RAMY	6268	
12	ADF	1452E	0107D	N12	E55	09	16.8	2	06	9	9	E	HOLL	6263	
12	ADF	1610E	2126D	S26	E59	09	17.2	1	15	9	9	E	RAMY	6266	
12	SDF	1610E	0541D	N19	E30	09	15.0		06	0	0	E	SVTO		
12	SSB	1715		307	W00	09	12.2			0	0	E	PALE		327 W21 369 W62
12	ADF	1715E	0422D	N08	W56	09	8.5		08	9	9	E	PALE	6247	
12	ADF	1715E	0422D	N09	W26	09	10.8		07	9	9	E	PALE	6252	
12	DSD	1715E	0422D	N15	E51	09	16.6		03	9	9	E	PALE	6263	
12	DSD	1715E	0422D	S11	E61	09	17.3		03	9	9	E	PALE	6267	
12	ADF	1715E	0422D	S15	E35	09	15.4	1	08	9	9	E	PALE	6266	
12	AFS	1715E	0422D	S17	E23	09	14.5		02	8	8	E	PALE	6265	
12	SSB	1746		308	W01	09	12.1			0	0	E	HOLL		347 W40
12	ADF	1913E	0039D	N03	W56	09	8.6	2	11	9	9	E	HOLL	6247	
12	ADF	1924E	2240D	N37	W66	09	7.5	1	05	9	9	E	HOLL	6261	
12	ASR	2040E	0040D	N22	E90	09	19.8			7	7	E	HOLL	6269	
12	ADF	2333E	1007D	S10	E34	09	15.5	1	05	9	9	E	LEAR	6257	
13	SDF	0020E	0030D	N40	E23	09	14.9		22	0	0	E	LEAR		
13	SDF	0020E	0030D	S05	W29	09	10.8		05	0	0	E	LEAR		
13	SDF	0020E	0030D	S21	E21	09	14.6		06	0	0	E	LEAR		
13	AFS	0042E	0107D	N11	W11	09	12.2		02	9	9	E	HOLL	6253	
13	ASR	0150E	1007D	N18	E90	09	19.9			9	9	E	LEAR	6269	
13	AFS	0555E	1007D	N11	E49	09	16.9		02	9	9	E	LEAR	6263	
13	ADF	0630E	1650D	N13	W34	09	10.7	1	05	9	9	E	SVTO	6252	
13	ADF	0632E	1000D	S19	W14	09	12.2	1	05	6	7	E	SVTO		
13	DSD	0635E	0912D	S12	E54	09	17.3		06	9	9	E	SVTO	6267	
13	ASR	0829E	1007D	S15	E90	09	20.2			9	9	E	LEAR		
13	AFS	0833E	1007D	S10	E26	09	15.3		02	9	9	E	LEAR	6257	
13	ADF	1100E	1620D	N27	E61	09	18.2	1	08	9	9	E	RAMY	6268	
13	DSD	1100E	1620D	S28	E52	09	17.5		03	9	9	E	RAMY	6266	
13	ADF	1100E	1712D	S02	E21	09	15.0	1	13	9	9	E	RAMY	6257	
13	AFS	1100E	1712D	S09	E24	09	15.2		02	9	9	E	RAMY	6257	
13	SSB	1638		351	W57	09	9.2			0	0	E	HOLL		
13	APR	1640E	2114D	S13	E90	09	20.5	1		9	9	E	HOLL		
13	BSD	1646	1715	N05	W73	09	8.2		04	9	9	E	HOLL	6247	
13	AFS	1712E	0054D	N11	W21	09	12.1		02	7	7	E	HOLL	6253	
13	DSD	1715	2040D	N05	W73	09	8.2		05	9	9	E	HOLL	6247	
13	DSD	1720E	1912D	S10	E20	09	15.2		02	9	9	E	HOLL	6257	
13	ADF	1905E	0054D	N13	W42	09	10.6	1	02	9	9	E	HOLL	6252	
13	ASR	2154E	2325D	N01	W84	09	7.6			9	9	E	HOLL	6247	
13	AFS	2335E	0824D	S29	E59	09	18.6		03	9	9	E	LEAR	6266	
13	SDF	2341E	1505D	W42	E06	09	14.5		06	0	0	E	HOLL		
14	SSB	0255		307	W19	09	13.6			0	0	E	PALE		362 W74
14	SDF	0424E	2140D	N05	E30	09	16.4		10	0	0	E	PALE		
14	ASR	0720E	1643D	S17	E90	09	21.1			9	9	E	SVTO		
14	AFS	0721E	1643D	N10	W28	09	12.2		03	9	9	E	SVTO	6253	
14	ADF	0722E	1643D	N11	E35	09	16.9	1	16	9	9	E	SVTO	6263	
14	ADF	0723E	1643D	N21	E37	09	17.1	1	09	9	9	E	SVTO	6263	
14	ADF	0724E	1643D	S12	E19	09	15.7	1	11	9	9	E	SVTO	6257	
14	APR	0858E	1643D	S27	W86	09	7.7	1		9	9	E	SVTO		
14	ADF	1233E	1718D	N19	E36	09	17.3	1	14	9	9	E	RAMY	6263	
14	DSD	1239E	1636D	N10	E76	09	20.2		07	9	9	E	RAMY	6247	
14	DSD	1258E	1605D	S12	E48	09	18.1		03	9	9	E	RAMY	6267	
14	BSL	1328	1404	S20	E90	09	21.4			9	9	E	SVTO		Flare Associated
14	DSD	1331	1613D	N08	E30	09	16.8		04	9	9	E	RAMY	6263	Flare Associated
14	BSL	1332E	1405	S18	E90	09	21.4			9	9	E	HOLL		
14	LPS	1359	1643D	S18	E90	09	21.4			9	9	E	SVTO		Flare Associated
14	LPS	1403E	1723D	S14	E90	09	21.4			9	9	E	HOLL		
14	SSB	1432		289	W07	09	21.3			0	0	E	RAMY		318 W36 360 W78
14	DSD	1445E	1636D	S15	E76	09	20.4		03	9	9	E	RAMY	6272	Flare Associated
14	DSD	1449	1504D	S13	E78	09	20.5		04	9	9	E	SVTO		Flare Associated
14	DSD	1450E	1723D	S14	E74	09	20.2		06	9	9	E	HOLL		Flare Associated
14	ADF	1450E	1723D	S15	E75	09	20.3	1	04	9	9	E	HOLL		
14	DSD	1532E	1605D	S13	E36	09	17.4		03	9	9	E	RAMY	6267	
14	DSD	1551E	1710D	N13	W56	09	10.4		04	9	9	E	HOLL	6252	
14	DSD	1626E	1710D	N16	W20	09	13.2		07	9	9	E	HOLL	6262	Flare Associated
14	SDF	1643E	0630D	N14	E33	09	17.2		07	0	0	E	SVTO	6263	
14	DSD	1659E	1857D	N11	W52	09	10.8		03	9	9	E	PALE	6252	
14	DSD	1706E	0309D	S11	W42	09	11.5		04	9	9	E	PALE	6267	

ACTIVE PROMINENCES AND FILAMENTS

61
Sep 90

SEPTEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
14	AFS	1710E	0241D	N11	W34	09 12.1		03	9	9	E	PALE 6253		
14	DSD	1714E	1920D	N17	W20	09 13.2		02	9	9	E	PALE 6262		
14	SSB	1718		351	W71	09 10.1			0	0	E	PALE		
14	SSB	1719		351	W71	09 10.1			0	0	E	PALE		
14	ADF	1745E	0251D	N21	E33	09 17.3	1	05	9	9	E	PALE 6263		
14	SDF	1745E	0251D	N21	E33	09 17.3		09	0	0	E	PALE 6263		
14	DSD	2350E	1004D	N20	E65	09 20.0		02	9	9	E	LEAR 6269		
14	ASR	2350E	1004D	S15	E90	09 21.8			9	9	E	LEAR 6272		
15	APR	0119	0149D	N12	E90	09 21.8	1				C	VORO		
15	APR	0119	0149D	S18	W90	09 8.2	1				C	VORO		
15	ASR	0148E	1004D	N05	W90	09 8.3			9	9	E	LEAR 6247		
15	DSD	0208E	0415D	N24	E41	09 18.2		02	9	9	E	PALE 6268		
15	AFS	0241E	0415D	N08	E40	09 18.1		01	9	9	E	PALE 6253		
15	AFS	0300E	0415D	S26	E31	09 17.5		02	9	9	E	PALE 6262		
15	AFS	0308E	0415D	S10	E38	09 18.0		02	9	9	E	PALE 6267		
15	AFS	0313E	0415D	N19	E55	09 19.3		02	9	9	E	PALE 6269		
15	ASR	0449E	1004D	S24	E85	09 21.8			9	9	E	LEAR		
15	DSD	0600E	0614	S12	E68	09 20.4		09	9	9	E	SVTO 6272	Flare Associated	
15	DSD	0604E	1004D	S13	E69	09 20.4		03	9	9	E	LEAR 6272		
15	ASR	0610E	1215D	S24	E87	09 22.0			9	9	E	SVTO		
15	AFS	0610E	1518D	N09	W42	09 12.1		03	9	9	E	SVTO 6253		
15	ADF	0610E	1518D	N15	E32	09 17.7	1	06	9	9	E	SVTO		
15	AFS	0610E	1518D	N23	E37	09 18.1		02	9	9	E	SVTO 6268		
15	ADF	0610E	1518D	S14	E67	09 20.3	1	08	9	9	E	SVTO 6272		
15	ADF	1116E	1656D	S14	W07	09 14.9	1	04	9	9	E	RAMY 6257		
15	SSB	1145		308	W38	09 14.8			0	0	E	RAMY		
15	ADF	1443E	0006D	S29	E25	09 17.6	1	03	9	9	E	HOLL 6266		
15	ADF	1500E	0029D	S18	E57	09 20.0	1	10	9	9	E	HOLL 6272		
15	ASR	1514E	1753D	N08	W90	09 8.9			9	9	E	HOLL 6247		
15	DSD	1704E	0354D	S27	E25	09 17.6		02	9	9	E	PALE 6266		
15	AFS	1805E	0354D	N23	E33	09 18.3		03	9	9	E	PALE 6268		
15	DSD	2115E	0354D	S14	E18	09 17.2		03	9	9	E	PALE 6267		
15	AFS	2115E	0354D	S14	E25	09 17.8		03	9	9	E	PALE 6267		
15	DSD	2145E	0354D	N11	E16	09 17.1		03	9	9	E	PALE 6263		
15	SSB	2153		279	W14	09 21.9			0	0	E	HOLL	308 W43	
15	APR	2232	0200D	S13	W90	09 9.1	1				C	VORO		
15	ADF	2315E	0245D	N15	E14	09 17.0	2	04	9	9	E	LEAR 6263		
15	BSL	2320	2332D	N07	W90	09 9.2	1				C	VORO		
15	APR	2332	0200D	N16	E90	09 22.8	1				C	VORO		
16	BSL	0021	0050D	N87	E90	09 24.4	1				C	VORO		
16	SDF	0030E	0245D	N17	E08	09 16.6	3	10	0	0	E	LEAR 6263		
16	BSD	0725	0800	S21	W47	09 12.7					P	BUCA		
16	ADF	1047E	2037D	N15	E09	09 17.1	1	14	9	9	E	RAMY 6263		
16	ADF	1054E	1819D	S18	E43	09 19.7	1	12	9	9	E	RAMY 6272		
16	ADF	1055E	1845D	S15	E51	09 20.3	1	07	9	9	E	RAMY 6272		
16	ADF	1057E	1353D	N25	E16	09 17.7	1	07	9	9	E	RAMY 6268		
16	ADF	1109E	1306D	N16	W75	09 10.8	1	03	9	9	E	RAMY 6252		
16	APR	1111E	1824D	S17	W90	09 9.6	1		9	9	E	RAMY		
16	SSB	1117		308	W51	09 15.8			0	0	E	RAMY		
16	DSD	1121E	1532D	N17	E06	09 16.9		02	9	9	E	RAMY 6263		
16	DSD	1128E	1254D	S14	E09	09 17.1		03	9	9	E	RAMY 6267		
16	DSD	1246E	1914D	S12	W18	09 15.2		02	9	9	E	RAMY 6257		
16	DSD	1252E	1359D	S10	E18	09 17.9		02	9	9	E	RAMY 6267		
16	DSD	1252E	1359D	S12	E11	09 17.4		04	9	9	E	RAMY 6267		
16	ADF	1253E	1956D	S13	E06	09 17.0	2	08	9	9	E	RAMY 6267		
16	ADF	1304E	1924D	S15	W40	09 13.5	1	05	9	9	E	RAMY 6262		
16	ASR	1326E	1926D	N17	W90	09 9.7			9	9	E	RAMY 6252		
16	DSD	1529E	1930D	S13	E10	09 17.4		02	9	9	E	RAMY 6267		
16	SDF	1552E	1559D	N15	E10	09 17.4		08	0	0	E	HOLL		
16	SSB	1605		281	W27	09 23.0			0	0	E	HOLL	288 W34 307 W53	
16	AFS	1655E	2345D	S18	E29	09 18.9		03	9	9	E	HOLL 6270		
16	AFS	1656E	1853D	S10	W22	09 15.0		02	9	9	E	HOLL 6257		
16	AFS	1657E	2345D	S17	W42	09 13.5		02	9	9	E	HOLL 6262		
16	ADF	1700E	1854D	N16	E10	09 17.5	1	08	9	9	E	HOLL 6263		
16	ADF	1709E	2345D	N22	E18	09 18.1	1	05	9	9	E	HOLL 6268		
16	ADF	1739E	0412D	N13	W59	09 12.3		05	7	8	E	PALE 6253		
16	DSD	1739E	0412D	N17	E36	09 19.5		02	8	9	E	PALE 6263		
16	ADF	1739E	0412D	N21	E18	09 18.1	1	06	9	9	E	PALE 6268		

ACTIVE PROMINENCES AND FILAMENTS

SEPTEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	Mo	Day	CMP	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	NOAA/USAF Sta Reg#	Remarks	
16	DSD	1739E	0412D	N23	E10	09	17.5			02	9	9	E	PALE 6268		
16	AFS	1823E	0412D	S25	E06	09	17.2			03	9	9	E	PALE 6266		
16	DSD	1828E	0412D	S12	E08	09	17.4			04	9	9	E	PALE 6267		
16	AFS	1833E	0412D	S16	E50	09	20.6			03	9	9	E	PALE 6272		
17	APR	0517E	0808D	S11	W90	09	10.4	1					C	ABST		
17	AFS	0545E	1615D	S16	E43	09	20.5	1	04	9	9	E	SVTO 6272			
17	BSL	0552E	0711D	N80	W90	09	8.9	1					C	ABST		
17	ADF	0700E	1615D	S14	E43	09	20.5	1	07	9	9	E	SVTO 6272			
17	ADF	0701E	1615D	N14	W02	09	17.1	2	07	9	9	E	SVTO 6263			
17	AFS	0855E	1615D	S21	E31	09	19.7			02	9	9	E	SVTO		
17	ADF	1035E	2050D	S32	E57	09	21.9	1	18	9	9	E	RAMY 6275			
17	ADF	1037E	2050D	S08	E37	09	20.2	1	10	9	9	E	RAMY 6272			
17	DSD	1042E	1404D	S20	W68	09	12.2			03	9	9	E	RAMY 6271		
17	ADF	1050E	1627D	S10	E06	09	17.9	1	05	9	9	E	RAMY 6267			
17	DSD	1050E	1627D	S13	E04	09	17.7			04	9	9	E	RAMY 6267		
17	ADF	1055E	1615D	S31	E02	09	17.6	1	07	9	9	E	RAMY 6266			
17	AFS	1109E	1734D	S16	W58	09	13.1			02	9	9	E	RAMY 6262		
17	DSD	1110E	1413D	S12	W32	09	15.0			03	9	9	E	RAMY 6257		
17	ADF	1115E	1429D	N06	W66	09	12.5	1	10	9	9	E	RAMY 6253			
17	AFS	1122E	1614D	S32	W27	09	15.3			02	9	9	E	RAMY		
17	AFS	1125E	1614D	S22	E27	09	19.5			02	9	9	E	RAMY		
17	ADF	1125E	2050D	S21	E36	09	20.2	1	07	9	9	E	RAMY			
17	SSB	1129		252	W08	09	21.4			0	0	E	RAMY	284 W40 310 W66		
17	ASR	1216E	1657D	N16	E90	09	24.3			9	9	E	RAMY			
17	ASR	1218E	1445D	N20	E90	09	24.4			9	9	E	SVTO			
17	BSL	1231E	1327D	N16	E90	09	24.3			9	9	E	RAMY			
17	BSL	1243E	1250	N20	E90	09	24.4			9	9	E	SVTO			
17	DSD	1348E	1431D	S14	E34	09	20.1		09	9	9	E	RAMY 6272			
17	ADF	1353E	0052D	S15	E35	09	20.2	2	07	9	9	E	HOLL 6272	Flare Associated		
17	DSD	1353E	1746D	S13	E35	09	20.2			07	9	9	E	HOLL 6272	Flare Associated	
17	DSD	1353E	1615D	S15	E34	09	20.1			08	9	9	E	SVTO 6272	Flare Associated	
17	ADF	1408E	1622D	S21	W38	09	14.7	1	07	9	9	E	RAMY 6265			
17	ASR	1419E	0030D	N14	E90	09	24.4			7	7	E	HOLL			
17	ADF	1425E	1500D	S29	W02	09	17.4	1	08	9	9	E	HOLL 6266			
17	ADF	1426E	2340D	S29	E55	09	21.9	1	10	9	9	E	HOLL 6275			
17	ASR	1428E	0052D	S21	E90	09	24.5			9	9	E	HOLL			
17	ADF	1500E	1709D	S26	W02	09	17.5	2	20	9	9	E	HOLL 6266			
17	ADF	1500E	1709D	S26	W02	09	17.5	2	20	9	9	E	HOLL 6266			
17	SDF	1500E	1709D	S26	W02	09	17.5			20	0	0	E	HOLL 6266		
17	SSB	1547		252	W10	09	21.6			0	0	E	HOLL	309 W67		
17	SDF	1615E	1320D	N13	E04	09	18.0		06	0	0	E	SVTO			
17	DSD	1617	1642D	S25	W03	09	17.4			05	9	9	E	RAMY 6266	Flare Associated	
17	DSD	1642	1651	S16	E35	09	20.3			03	9	9	E	RAMY 6272	Flare Associated	
17	SDF	1642E	1709D	S26	W02	09	17.5			20	0	0	E	RAMY 6266		
17	ASR	1701E	1850D	S22	E90	09	24.6			9	9	E	PALE			
17	DSD	1804E	1945D	S18	W62	09	13.0		03	9	9	E	HOLL 6262	Flare Associated		
17	DSD	1825E	1850D	S18	W64	09	12.9		02	9	9	E	PALE 6262	Flare Associated		
17	DSD	1858E	1945D	S12	E33	09	20.3		04	9	9	E	HOLL 6272	Flare Associated		
17	ADF	2115E	2330D	S42	W09	09	17.1	1	20	9	9	E	HOLL 6266	Flare Associated		
17	BSD	2149E	2310D	S14	E32	09	20.3		04	9	9	E	HOLL 6272	Flare Associated		
17	SDF	2222E	2330D	S42	W10	09	17.1			20	0	0	E	HOLL 6266		
17	ADF	2315E	1008D	S11	E52	09	21.9	1	16	9	9	E	LEAR 6272			
17	ADF	2330E	0052D	N17	E18	09	19.3	2	20	9	9	E	HOLL 6269			
18	AFS	0022E	0625D	S15	W09	09	17.3			02	9	9	E	LEAR 6267		
18	ADF	0033E	0155D	S19	W12	09	17.1	3	08	9	9	E	LEAR 6267			
18	ADF	0049E	1008D	N15	E18	09	19.4	2	16	9	9	E	LEAR 6269			
18	DSD	0050E	0102D	S15	E32	09	20.4		06	0	0	E	LEAR 6272			
18	APR	0208E	1008D	S22	W90	09	11.2	2		9	9	E	LEAR 6271			
18	ADF	0405E	1008D	S15	W29	09	16.0	2	11	9	9	E	LEAR 6272			
18	AFS	0530E	1008D	S09	E56	09	22.4		02	9	9	E	LEAR			
18	ASR	0544E	0625D	N11	W90	09	11.5			9	9	E	LEAR 6253			
18	ASR	0652E	1008D	S26	E90	09	25.3			9	9	E	LEAR 6278			
18	ADF	1039E	1818D	S25	E71	09	23.9	1	06	9	9	E	RAMY 6278			
18	ASR	1039E	1818D	S25	E88	09	25.3			9	9	E	RAMY 6278			
18	ADF	1046E	1534D	S09	E32	09	20.8	1	12	9	9	E	RAMY 6272			
18	AFS	1057E	1536D	N21	E07	09	19.0			02	9	9	E	RAMY 6269		
18	SSB	1129		255	W24	09	22.7			0	0	E	RAMY	277 W46 293 W62		
18	ASR	1130E	1355D	N09	W84	09	12.2			9	9	E	SVTO 6253			

ACTIVE PROMINENCES AND FILAMENTS

63
Sep 90

SEPTEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
18	ASR	1305E	1556D	N17	E90	09 25.4			9	9	E	SVTO		
18	ASR	1321E	1556D	S22	E83	09 24.9			9	9	E	SVTO	6278	
18	ADF	1344E	1349D	N22	W06	09 18.1	1	06	9	9	E	RAMY	6268	
18	DSD	1355E	1538D	S12	W42	09 15.4		04	9	9	E	RAMY	6257	Flare Associated
18	DSD	1412E	1540D	S38	W84	09 11.8		03	9	9	E	RAMY		
18	ADF	1415E	1500D	S13	W41	09 15.5	1	06	9	9	E	SVTO	6257	
18	ADF	1420E	1556D	S14	E22	09 20.2	1	07	9	9	E	SVTO	6272	
18	AFS	1421E	1556D	S13	E27	09 20.6		02	9	9	E	SVTO	6272	
18	SDF	1500E	1556D	S13	W41	09 15.5	1	06	0	0	E	SVTO	6257	
18	ADF	1512E	1703D	S10	W45	09 15.2	1	04	9	9	E	HOLL	6257	
18	AFS	1534E	0001D	S14	E26	09 20.6		03	7	7	E	HOLL	6272	
18	MDP	1542E	1920D	N15	E90	09 25.5			5	5	E	HOLL		
18	SDF	1553E	1725D	N20	E30	09 20.9		10	0	0	E	HOLL		
18	SDF	1553E	1726D	S15	E08	09 19.3		06	0	0	E	HOLL	6272	
18	SSB	1555		255	W26	09 22.9			0	0	E	HOLL		285 W56
18	ASR	1650	0245D	N10	E90	09 25.5			9	9	E	PALE		
18	ASR	1653	0001D	N14	E90	09 25.5			9	9	E	HOLL		
18	SDF	1703E	1707D	S10	W45	09 15.3	2	04	0	0	E	HOLL	6257	Flare Associated
18	BSD	1705E	1936D	S17	W71	09 13.3		01	9	9	E	PALE	6262	
18	SSB	1710		253	W27	09 22.8			0	0	E	PALE		293 W65
18	ADF	1710E	0245D	S11	W45	09 15.3	1	09	9	9	E	PALE	6257	
18	ADF	1710E	0245D	S14	E20	09 20.2	1	06	9	9	E	PALE	6272	
18	ASR	1727E	0245D	S25	E84	09 25.2			9	9	E	PALE		
18	DSD	1731E	0245D	N16	W24	09 16.9		02	9	9	E	PALE	6263	
18	ASR	1738E	0001D	S25	E90	09 25.7			9	9	E	HOLL	6278	
18	ADF	1835E	0001D	S14	E21	09 20.4	1	07	9	9	E	HOLL	6272	
18	EPL	1858	2154D	N17	E90	09 25.6			6	7	E	HOLL		
18	AFS	1927E	0245D	S08	E49	09 22.5		02	9	9	E	PALE	6279	
18	AFS	2020E	0245D	S11	W47	09 15.3		03	9	9	E	PALE	6257	
18	DSD	2020E	0245D	S13	E20	09 20.3		03	9	9	E	PALE	6272	
18	AFS	2020E	0245D	S14	E23	09 20.6		03	9	9	E	PALE	6272	
18	APR	2240E	0112D	S13	W90	09 12.1	1				C	VORO		
18	APR	2240E	0112D	S21	W90	09 12.0	1				C	VORO		
18	BSL	2310	2332	S25	W90	09 12.0	1				C	VORO		
18	AFS	2315E	1001D	N20	E01	09 19.0		03	9	9	E	LEAR	6269	
18	AFS	2317E	1001D	S08	E45	09 22.3		02	9	9	E	LEAR	6279	
18	AFS	2320E	0245D	N21	E01	09 19.0		02	9	9	E	PALE	6269	
18	ADF	2325E	1001D	S15	E10	09 19.7	2	10	9	9	E	LEAR	6272	
18	ASR	2335E	1001D	N15	E90	09 25.8			9	9	E	LEAR		
19	BSL	0045E	0053	N06	E90	09 25.8	1				C	VORO		
19	DSD	0122E	0245D	N22	E09	09 19.7		03	9	9	E	PALE	6269	
19	BSL	0347E	0356D	N15	E90	09 26.0			9	9	E	LEAR		
19	ASR	0354E	1001D	S19	W88	09 12.4			9	9	E	LEAR	6262	
19	AFS	0400E	1001D	N16	W29	09 17.0		02	9	9	E	LEAR	6263	
19	AFS	0400E	1001D	S28	W21	09 17.5		02	9	9	E	LEAR	6266	
19	BSL	0520E	0554D	N08	E90	09 26.0	1				C	ABST		
19	APR	0549E	0803D	N45	E90	09 26.7	1				C	ABST		
19	ADF	0640E	1640D	S14	E13	09 20.3	1	08	9	9	E	SVTO	6272	
19	BSL	0906E	0920	N03	E90	09 26.1			9	9	E	LEAR		
19	BSL	0913	0919	N06	E90	09 26.1			9	9	E	SVTO	6266	Flare Associated
19	SSB	1111		250	W32	09 23.4			0	0	E	SVTO		
19	SSB	1159		255	W38	09 23.9			0	0	E	RAMY		
19	ASR	1201E	2205D	N06	E90	09 26.2			9	9	E	RAMY	6281	
19	ASR	1205E	1235	S18	W88	09 12.8			9	9	E	RAMY	6262	
19	AFS	1217E	2205D	S09	E37	09 22.3		02	9	9	E	RAMY	6279	
19	ADF	1220E	2205D	S14	W54	09 15.4	1	07	9	9	E	RAMY	6257	
19	ADF	1230E	2029D	S07	E67	09 24.5	1	10	9	9	E	RAMY		
19	APR	1322E	2314D	N16	E90	09 26.4	1		9	9	E	HOLL	6280	
19	ASR	1322E	2335D	N07	E90	09 26.3			7	7	E	HOLL	6281	
19	ASR	1330E	2142D	S17	W90	09 12.7			9	9	E	HOLL	6262	
19	AFS	1330E	2335D	S28	W25	09 17.6		02	9	9	E	HOLL	6266	
19	ASR	1348E	2335D	N14	E89	09 26.3			9	9	E	HOLL	6280	
19	ASR	1417E	1917D	S17	W88	09 12.9			9	9	E	RAMY	6262	
19	SDF	1640E	0528D	N20	E17	09 21.0		02	0	0	E	SVTO		
19	APR	1703E	2314D	S25	W90	09 12.7	2		4	4	E	HOLL		
19	ASR	1710E	0035D	N15	E90	09 26.5			9	9	E	PALE	6280	
19	AFS	1710E	0035D	S09	E36	09 22.4		03	9	9	E	PALE	6279	
19	SSB	1724		255	W41	09 24.2			0	0	E	HOLL		276 W62
19	SSB	1750		254	W41	09 24.1			0	0	E	PALE		214 W00

ACTIVE PROMINENCES AND FILAMENTS

SEPTEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	NOAA/ USAF Sta Reg#	Remarks
19	ADF	1750E	0035D	S11	W58	09 15.4	1	08	9	9	E	PALE 6257	
19	AFS	1750E	0035D	S27	W27	09 17.6		02	9	9	E	PALE 6266	
19	AFS	1750E	2100D	S14	E11	09 20.6		03	9	9	E	PALE 6272	
19	ASR	1757	0035D	N06	E87	09 26.2			9	9	E	PALE 6281	
19	ASR	1759E	2115D	S16	W90	09 12.9			9	9	E	PALE 6262	
19	DSD	1801E	0035D	N16	E81	09 25.9		04	9	9	E	PALE 6281	
19	AFS	1934E	2335D	S08	E33	09 22.3		03	9	9	E	HOLL 6279	
19	ADF	2100E	0035D	N23	W25	09 17.9	1	09	9	9	E	PALE 6268	
19	APR	2225E	0031	S16	W90	09 13.1	1				C	VORO	
19	APR	2225E	2310	N20	E90	09 26.8	2				C	VORO	
19	BSL	2235	2300	N07	E90	09 26.7	1				C	VORO	
19	BSL	2300	2330	S36	W90	09 12.7	1				C	VORO	
19	ASR	2308E	1003D	N10	E84	09 26.3			9	9	E	LEAR 6280	
19	AFS	2315E	1003D	S08	E31	09 22.3		03	9	9	E	LEAR 6279	
19	AFS	2344E	1003D	S27	W32	09 17.5		02	9	9	E	LEAR 6266	
19	DSD	2353E	0029D	S12	W38	09 17.1		03	9	9	E	PALE 6267	
20	DSD	0029E	0035D	N05	E80	09 26.0		02	9	9	E	PALE 6280	
20	AFS	0029E	0035D	S12	W39	09 17.1		03	9	9	E	PALE 6267	
20	BSL	0038	0054	N12	E90	09 26.8					C	VORO	
20	BSL	0115E	0126	S31	W90	09 12.9	1				C	VORO	
20	AFS	0555E	1631D	S12	W37	09 17.4		02	9	9	E	SVTO 6267	
20	AFS	0556E	1631D	N14	W44	09 16.9		02	9	9	E	SVTO 6263	
20	DSD	0557E	0644D	N07	E76	09 25.9		03	9	9	E	SVTO 6281	Flare Associated
20	AFS	0558E	1631D	N18	W09	09 19.6	1	03	9	9	E	SVTO 6269	
20	ADF	0559E	1631D	N19	E73	09 25.8	1	02	9	9	E	SVTO 6281	
20	ADF	0602E	0855D	S17	W60	09 15.7	1	07	9	9	E	SVTO 6257	
20	BSD	0618	1003D	N03	E77	09 26.0		06	9	9	E	LEAR 6281	Flare Associated
20	ASR	0620E	0730D	N06	E90	09 27.0			9	9	E	SVTO 6281	Flare Associated
20	ADF	0635	0815	N16	W45	09 16.9	1				P	BUCA	
20	DSD	1110E	1654D	S04	E70	09 25.7		03	9	9	E	RAMY 6281	
20	DSD	1110E	1657D	S12	W43	09 17.2		03	9	9	E	RAMY 6267	
20	ADF	1110E	1843D	N12	E69	09 25.7	1	06	9	9	E	RAMY 6280	
20	ADF	1110E	1846D	S16	E02	09 20.6	1	11	9	9	E	RAMY 6272	
20	DSD	1245E	1701D	N13	E75	09 26.2		03	9	9	E	RAMY 6280	
20	SSB	1324		210	W07	09 21.3			0	0	E	RAMY	253 W50
20	DSD	1421E	1431D	S12	W43	09 17.3		02	9	9	E	HOLL 6267	
20	SSB	1425		257	W54	09 25.5			0	0	E	HOLL	
20	SDF	1631E	0550D	S09	E55	09 24.8		04	0	0	E	SVTO	
20	DSD	1820E	1934D	N12	W51	09 16.9		03	9	9	E	PALE 6263	
20	ADF	1820E	1934D	N18	W17	09 19.5		03	9	7	E	PALE 6269	
20	ADF	1820E	1934D	S14	E00	09 20.8		02	9	9	E	PALE 6272	
20	ADF	1820E	1934D	S17	W40	09 17.7	1	04	9	9	E	PALE 6267	
20	DSD	1820E	1934D	S25	E49	09 24.6		03	9	9	E	PALE 6278	
20	ADF	1820E	1934D	S26	E11	09 21.6	1	21	9	9	E	PALE 6275	
20	ADF	1910E	2240D	N28	W26	09 18.8	1	06	9	9	E	HOLL 6268	
20	ADF	2124E	2251D	S25	W25	09 18.9	1	04	9	9	E	HOLL 6270	
20	EPL	2221E	0011	S40	W90	09 13.6	2				C	VORO	
20	BSL	2221E	2251	N12	E90	09 27.7	1				C	VORO	
20	BSL	2308	0021	N12	E90	09 27.7	1				C	VORO	
20	ASR	2330E	1000D	S08	E90	09 27.7			9	9	E	LEAR 6274	
21	AFS	0630E	1615D	N13	E74	09 26.8		03	9	9	E	SVTO 6280	
21	AFS	0631E	1615D	S14	W08	09 20.7		02	9	9	E	SVTO 6272	
21	ADF	0632E	1615D	N24	W36	09 18.5	2	05	9	9	E	SVTO 6268	
21	AFS	0633E	1615D	N08	E71	09 26.6		04	9	9	E	SVTO 6281	
21	AFS	0634E	1615D	N18	W26	09 19.3		02	9	9	E	SVTO 6269	
21	AFS	0635E	1615D	S30	W45	09 17.7		06	9	9	E	SVTO 6266	
21	AFS	0636E	1615D	S10	E18	09 22.6		04	9	9	E	SVTO 6279	
21	ADF	0806E	0834D	N15	E55	09 25.5	1				V	KHAR	
21	ADF	0841E	0841D	N17	E58	09 25.8	2	06	9	9	E	SVTO 6280	
21	ADF	0906E	0935D	S28	E40	09 24.5	1				V	KHAR	
21	AFS	1040E	2138D	S09	E14	09 22.5		02	8	8	E	RAMY 6279	
21	ADF	1042E	2138D	N18	E65	09 26.4	1	06	9	9	E	RAMY 6280	
21	DSD	1046E	1131D	N21	W30	09 19.1		02	9	9	E	RAMY 6269	
21	DSD	1048E	1131D	S14	W47	09 17.9		04	9	9	E	RAMY 6267	
21	AFS	1130E	1923D	N18	W27	09 19.4		02	9	9	E	RAMY 6269	
21	AFS	1433E	2223D	S09	E12	09 22.5		04	8	9	E	HOLL 6279	
21	DSD	1440	1459	S14	W14	09 20.5		04	9	9	E	HOLL 6272	
21	ADF	1440E	2223D	S05	E13	09 22.6	1	07	9	9	E	HOLL 6279	

ACTIVE PROMINENCES AND FILAMENTS

65
Sep 90

SEPTEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CHP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
21	AFS	1442E	2223D	N14	E63	09 26.4		02	9	9	E	HOLL	6280	
21	SDF	1615E	0601D	N25	W02	09 21.5		02	0	0	E	SVTO		
21	SDF	1709E	1812D	S14	W21	09 20.1		20	0	0	E	PALE		
21	DSD	1719E	2151D	S12	W57	09 17.4		04	9	9	E	HOLL	6267	
21	ASR	1832E	0318D	S25	W90	09 14.8			9	9	E	PALE		
21	SSB	1847		210	W23	09 22.5			0	0	E	HOLL		254 W67
21	ADF	1908E	2223D	N28	W43	09 18.4	1	08	9	9	E	HOLL	6268	
21	DSD	1909E	2223D	N11	W48	09 18.2		03	9	9	E	HOLL		
21	ASR	2021E	2223D	S06	E90	09 28.6			7	7	E	HOLL		
21	APR	2023E	2153D	S35	W90	09 14.6	1		8	8	E	HOLL		
21	ASR	2023E	2223D	N13	W90	09 15.0			9	9	E	HOLL	6257	
22	APR	0024	0200D	N14	W90	09 15.2	1				C	VORO		
22	AFS	0208E	0319D	S27	W55	09 17.8		03	9	9	E	PALE	6266	
22	ADF	0309E	0319D	S09	E05	09 22.5	1	04	9	9	E	PALE	6279	
22	AFS	0645E	1607D	N16	E56	09 26.5		03	9	9	E	SVTO	6280	
22	AFS	0646E	1607D	S18	W24	09 20.4		02	9	7	E	SVTO	6272	
22	AFS	0647E	1607D	N20	W58	09 17.8		02	6	6	E	SVTO	6268	
22	AFS	0648E	1607D	N09	E51	09 26.1		04	8	8	E	SVTO	6281	
22	ASR	0654E	0930D	S12	W90	09 15.5			9	9	E	SVTO	6257	
22	AFS	1044E	1825D	S08	E02	09 22.6		02	8	8	E	RAMY	6279	
22	ASR	1045E	2125D	S08	E89	09 29.1			9	9	E	RAMY	6283	
22	ADF	1047E	2152D	N14	E56	09 26.7	1	08	9	9	E	RAMY	6280	
22	ASR	1055E	1346D	S22	W90	09 15.5			9	9	E	RAMY	6266	
22	SSB	1119		180	W02	09 28.4			0	0	E	RAMY		210 W32 252 W74
22	DSD	1125E	1609D	S14	W27	09 20.4		03	9	9	E	RAMY	6272	
22	SSB	1236		181	W04	09 28.6			0	0	E	SVTO		210 W32
22	ASR	1316E	1607D	S12	W90	09 15.8			9	9	E	RAMY	6257	
22	DSD	1646E	1822D	N13	E42	09 25.9		04	9	9	E	RAMY	6280	
22	ADF	1649E	2120D	S23	W34	09 20.1	1	10	7	7	E	RAMY	6276	
22	DSD	1653E	2034D	S15	W31	09 20.3		03	8	8	E	RAMY	6272	
22	DSD	1703E	1821D	N14	W82	09 16.5		04	9	9	E	RAMY	6263	
22	DSD	1726E	0359D	N14	E48	09 26.3		03	9	9	E	PALE	6280	
22	DSD	1726E	0359D	S13	W71	09 17.4		05	9	9	E	PALE	6267	
22	ADF	1726E	0359D	S22	W48	09 19.0		04	7	8	E	PALE	6270	
22	ADF	1726E	0359D	S26	E30	09 25.0		03	9	9	E	PALE	6278	
22	DSD	1726E	0359D	S26	W64	09 17.7		04	9	9	E	PALE	6266	
22	AFS	1815E	2114D	S25	W26	09 20.7		02	9	9	E	RAMY	6275	
22	APR	2235E	0200D	S33	W90	09 15.8	1				C	VORO		
22	BSL	2235E	2310	S11	W90	09 16.2	1				C	VORO		
23	AFS	0247E	0917D	N05	E39	09 26.0		02	9	9	E	LEAR	6281	
23	AFS	0428E	0917D	N14	E08	09 23.8		02	9	9	E	LEAR		
23	BSL	0536E	0614D	N17	W90	09 16.4	1				C	ABST		
23	BSL	0614E	0633D	N15	W90	09 16.4	1				C	ABST		
23	BSL	0630	0800D	N19	W90	09 16.4					P	BUCA		
23	BSL	0730	0800	S09	W90	09 16.5					P	BUCA		
23	ADF	0756E	1619D	S16	W33	09 20.8	1	11	9	9	E	SVTO	6272	
23	SSB	0757		182	W15	09 29.5			0	0	E	SVTO		208 W41
23	ASR	0855E	0917D	N13	W90	09 16.6			9	9	E	LEAR	6263	
23	AFS	1042E	2154D	S07	E65	09 28.3		03	9	9	E	RAMY	6283	
23	AFS	1044E	1710D	N05	E32	09 25.8		02	9	9	E	RAMY	6281	
23	DSD	1046E	1556D	N15	E33	09 25.9		07	9	9	E	RAMY	6280	
23	ADF	1046E	1556D	N18	E38	09 26.3	1	08	9	9	E	RAMY	6280	
23	AFS	1046E	2154D	N14	E40	09 26.5		03	9	9	E	RAMY	6280	
23	AFS	1053E	2154D	S09	W15	09 22.3		02	9	9	E	RAMY	6279	
23	ADF	1058E	2154D	S18	W38	09 20.6	1	14	9	9	E	RAMY	6272	
23	AFS	1111E	2020D	N14	E04	09 23.8		02	8	8	E	RAMY		
23	SSB	1113		183	W18	09 29.8			0	0	E	RAMY		206 W41 253 W88
23	ASR	1320E	1554D	S11	W89	09 16.8			9	9	E	RAMY	6267	
23	ASR	1323E	1512D	S12	W90	09 16.8			9	9	E	SVTO	6267	
23	AFS	1748E	0350D	N14	E02	09 23.9		02	9	9	E	PALE		
23	ASR	1748E	0350D	N14	W86	09 17.2			9	9	E	PALE	6263	
23	DSD	1748E	0350D	S13	E29	09 25.9		03	9	9	E	PALE	6280	
23	DSD	1748E	0350D	S16	W42	09 20.5		04	9	9	E	PALE	6272	
23	SSB	1753		186	W24	09 30.4			0	0	E	PALE		
23	ASR	2100E	0350D	S25	W88	09 17.0			9	9	E	PALE	6266	
24	BSL	0000	0030	S30	W90	09 16.9	1				C	VORO		
24	BSL	0030	0110	S10	W90	09 17.2	1				C	VORO		

ACTIVE PROMINENCES AND FILAMENTS

67
Sep 90

SEPTEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
25	APR	2235E	0200D	S53	W90	09 18.2	1				C	VORO		
25	BSL	2235E	2251	S16	W90	09 19.1	1				C	VORO		
25	APR	2341	0200D	S32	W90	09 18.9	1				C	VORO		
26	APR	0526E	0803D	S15	W90	09 19.4	1				C	ABST		
26	APR	0611E	0803D	S01	E90	10 3.0	1				C	ABST		
26	APR	0633E	0803D	S33	E90	10 3.4	1				C	ABST		
26	BSL	0633E	0804D	W30	W90	09 19.2	1				C	ABST		
26	BSL	0658E	0803D	N52	W90	09 18.6	1				C	ABST		
26	APR	0805E	1253	S32	W90	09 19.2	2		9	9	E	SVTO		
26	APR	0805E	1340D	S19	W90	09 19.5	2		9	9	E	SVTO	6272	
26	APR	0807E	1340D	N03	E90	10 3.1	1		9	9	E	SVTO		
26	AFS	0808E	1340D	S10	W52	09 22.4		02	9	9	E	SVTO	6279	
26	SSB	0809		136	W09	09 29.0			0	0	E	SVTO		182 W55
26	ADF	0810E	1340D	S17	W48	09 22.7	1	19	9	9	E	SVTO	6279	
26	APR	1110E	1253	S28	W90	09 19.4	2		9	9	E	RAMY	6276	
26	ASR	1110E	1618D	S23	W87	09 19.8			9	9	E	RAMY	6276	
26	AFS	1110E	1619D	S07	W54	09 22.4		03	9	9	E	RAMY	6279	
26	ADF	1110E	2154D	N14	E01	09 26.5	1	10	9	9	E	RAMY	6280	
26	AFS	1110E	2154D	N14	W04	09 26.2		03	8	6	E	RAMY	6280	
26	EPL	1253	1732D	S28	W90	09 19.5	2		9	9	E	RAMY	6276	
26	AFS	1324E	1950D	S12	W28	09 24.4		02	8	6	E	RAMY		
26	SSB	1340		131	W07	09 28.9			0	0	E	RAMY		182 W58
26	APR	1343E	1440D	S17	W87	09 20.0	1		9	9	E	HOLL	6272	
26	AFS	1344E	0045D	N14	W05	09 26.2		02	9	9	E	HOLL	6280	
26	LPS	1408E	1746D	S18	W86	09 20.0			9	9	E	HOLL	6272	
26	LPS	1408E	1721	S16	W82	09 20.4			9	9	E	RAMY	6272	Flare Associated
26	DSD	1428E	0045D	S24	W27	09 24.5		02	9	9	E	HOLL	6278	
26	AFS	1438E	0045D	S07	W54	09 22.6		02	8	8	E	HOLL	6279	
26	DSD	1438E	1945D	S23	W29	09 24.4		03	9	9	E	RAMY	6278	
26	AFS	1455E	0045D	S12	W28	09 24.5		02	8	8	E	HOLL		
26	AFS	1457E	0045D	S32	E29	09 28.9		01	8	8	E	HOLL		
26	SSB	1522		136	W13	09 29.3			0	0	E	HOLL		182 W59
26	APR	1705E	2112D	S11	E90	10 3.5			8	6	E	PALE		
26	ADF	1722E	2112D	N04	W09	09 26.0		05	9	9	E	PALE	6281	
26	AFS	1722E	2112D	N15	W09	09 26.0		02	9	9	E	PALE	6280	
26	DSD	1722E	2112D	S09	W57	09 22.4		02	9	9	E	PALE	6279	
26	DSD	1722E	2112D	S28	W28	09 24.5		03	9	9	E	PALE	6278	
26	ADF	1857E	0045D	N11	W09	09 26.1	1	06	9	9	E	HOLL	6280	
26	ASR	1917E	1953D	S16	W90	09 20.0			9	9	E	PALE	6272	
26	AFS	2312E	1007D	N12	W12	09 26.1		02	9	9	E	LEAR	6280	
26	AFS	2313E	1007D	S08	W62	09 22.3		02	9	9	E	LEAR	6279	
26	ASR	2313E	1007D	S14	W90	09 20.2			9	9	E	LEAR	6272	
26	DSD	2314E	0412D	S07	E19	09 28.4		03	7	9	E	LEAR	6283	
26	AFS	2315E	0843D	S33	E23	09 28.8		02	9	9	E	LEAR		
26	ADF	2352E	1008D	N11	E05	09 27.4	1	08	9	9	E	LEAR	6280	
27	BSL	0620E	0804D	S32	W90	09 20.1	1				C	ABST		
27	SSB	0703		135	W22	09 30.0			0	0	E	SVTO		
27	AFS	1035E	2159D	N12	W14	09 26.4		02	9	9	E	RAMY	6280	
27	AFS	1037E	1906D	S07	E18	09 28.8		02	8	8	E	RAMY	6283	
27	ADF	1040E	1341D	S21	W32	09 25.0	2	06	9	9	E	RAMY	6278	
27	ADF	1040E	2159D	S27	W38	09 24.5	1	04	9	9	E	RAMY	6278	
27	SSB	1212		113	W01	09 28.5			0	0	E	RAMY		
27	ASR	1320E	1521D	S17	W90	09 20.7			8	8	E	HOLL	6272	
27	ADF	1323E	2355D	N15	W19	09 26.1	1	05	9	9	E	HOLL	6280	
27	AFS	1327E	2359D	N12	E27	09 29.6		02	9	9	E	HOLL		
27	SSB	1328		113	W02	09 28.5			0	0	E	HOLL		137 W26
27	DSD	1331E	1424D	S15	W18	09 26.2		03	9	9	E	HOLL	6287	
27	SSB	1340		428	W27	09 25.4			0	0	E	SVTO		426 W31 420 W27
27	AFS	1424E	2359D	S15	W18	09 26.2		04	9	9	E	HOLL	6287	
27	AFS	1501E	1522D	N12	W19	09 26.2		02	9	9	E	SVTO	6280	
27	APR	1521E	1714D	S12	W90	09 20.8	1		8	8	E	HOLL		
27	ASR	1521E	2355D	S12	W90	09 20.8			9	9	E	HOLL		
27	DSD	1545E	1949D	S07	E09	09 28.3		03	9	9	E	RAMY	6283	
27	DSD	1610E	2359D	S26	W43	09 24.3		04	9	9	E	HOLL	6278	
27	DSD	1612E	2359D	S06	E10	09 28.4		04	9	9	E	HOLL	6283	
27	DSD	1812E	0240D	S08	E10	09 28.5		02	9	9	E	PALE	6283	
27	DSD	1812E	0240D	S29	W45	09 24.2		04	9	9	E	PALE	6278	
27	DSD	1812E	0413D	N12	E26	09 29.7		03	9	9	E	PALE		

ACTIVE PROMINENCES AND FILAMENTS

69
Sep 90

SEPTEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
29	AFS	1621E	1818D	S05	E30	10 1.9		02	9	9	E	HOLL		
29	DSD	1720E	0404D	N12	W48	09 26.1		03	9	9	E	PALE	6280	
29	AFS	1720E	0404D	N14	W72	09 24.3		02	9	9	E	PALE	6290	
29	AFS	1720E	0404D	S04	E28	10 1.8		03	9	9	E	PALE		
29	ADF	1720E	0404D	S10	W12	09 28.8		06	9	9	E	PALE	6283	
29	AFS	1720E	0404D	S16	W45	09 26.3		03	9	9	E	PALE	6287	
29	AFS	1720E	0404D	S17	E63	10 4.5		03	9	9	E	PALE		
29	DSD	1755E	2111D	S15	W47	09 26.2		03	9	9	E	RAMY	6287	
29	AFS	2010E	2111D	S05	E25	10 1.7		03	9	9	E	RAMY	6294	
29	SSB	2032		457	W16	09 25.5			0	0	E	RAMY		
29	ASR	2034	2111D	N14	W78	09 24.0			9	9	E	RAMY	6290	
29	BSD	2045E	0404D	N14	W79	09 23.9		03	9	9	E	PALE	2690	
29	DSD	2110E	0404D	S05	E27	10 1.9		04	9	9	E	PALE	6294	
29	AFS	2256E	1005D	S05	E24	10 1.7		03	9	9	E	LEAR	6294	
29	APR	2314E	1005D	S29	W90	09 22.9	2		9	9	E	LEAR	6278	
30	AFS	0020E	1005D	S08	W15	09 28.9		02	4	5	E	LEAR	6287	
30	ASR	0225E	1005D	N14	W90	09 23.3			9	9	E	LEAR	6290	
30	AFS	0545E	1615D	S15	E55	10 4.4		02	9	9	E	SVTO	6292	
30	AFS	0546E	1615D	S04	E21	10 1.8	2	04	9	9	E	SVTO	6294	
30	SSB	0547		133	W57	10 3.1			0	0	E	SVTO		101 W25
30	AFS	0604E	1615D	S12	W23	09 28.5		02	9	9	E	SVTO	6283	
30	ASR	0650E	1615D	N12	W83	09 24.0			9	9	E	SVTO	6290	
30	AFS	0701E	1141D	S21	W18	09 28.9	1	02	9	9	E	SVTO		
30	ADF	0825	0900	S10	W20	09 28.8					P	BUCA		
30	DSD	1039E	1334D	S06	E16	10 1.6		03	9	9	E	RAMY	6294	
30	AFS	1039E	1740D	S04	E18	10 1.8		03	9	9	E	RAMY	6294	
30	ADF	1043E	1336D	N01	W55	09 26.3	1	09	9	9	E	RAMY	6293	
30	AFS	1044E	1740D	S17	E50	10 4.2		02	9	9	E	RAMY	6292	
30	AFS	1045E	1615D	N10	W12	09 29.5		02	9	9	E	SVTO	6289	
30	AFS	1046E	1740D	N11	W11	09 29.6		02	9	9	E	RAMY	6289	
30	APR	1048E	1740D	S07	W90	09 23.7	1		8	8	E	RAMY		
30	AFS	1050E	1740D	S14	W55	09 26.3		02	9	9	E	RAMY	6287	
30	DSD	1055E	1339D	S06	W25	09 28.6		04	9	9	E	RAMY	6283	
30	AFS	1055E	1740D	S11	W26	09 28.5		03	9	9	E	RAMY	6283	
30	DSD	1104E	1341D	N13	W56	09 26.2		07	9	9	E	RAMY	6280	
30	AFS	1104E	1740D	N16	W56	09 26.2		03	9	9	E	RAMY	6280	
30	SSB	1110		455	W22	09 26.2			0	0	E	RAMY		108 W35
30	ASR	1123E	1624D	N15	W88	09 23.8			9	9	E	RAMY	6290	
30	AFS	1159E	1615D	S12	W24	09 28.7		02	9	9	E	SVTO	6283	
30	DSD	1438	1740D	S06	E19	10 2.0		03	9	9	E	RAMY	6294	Flare Associated
30	DSD	1443E	1517D	S04	E16	10 1.8		05	9	9	E	SVTO	6294	Flare Associated
30	DSD	1536E	1740D	N12	W58	09 26.3		03	9	9	E	RAMY	6280	
30	ASR	1618E	1740D	S27	W90	09 23.7			9	9	E	RAMY	6278	
30	ASR	1645E	1740D	N14	W86	09 24.2			9	9	E	RAMY	6290	
30	DSD	1942E	0406D	S04	E11	10 1.6		01	9	9	E	PALE	6294	
30	AFS	1942E	0406D	S04	E13	10 1.8		02	9	9	E	PALE	6294	
30	AFS	2235E	1007D	S04	E12	10 1.8		05	9	9	E	LEAR	6294	
30	AFS	2247E	1007D	S09	W30	09 28.7		02	9	9	E	LEAR	6283	
30	ASR	2334E	1007D	N18	W90	09 24.1			9	9	E	LEAR		

ADF = Active Dark Filament
AFS = Arch Filament System
APR = Active Prominence
ASR = Active Surge Region
BSD = Bright Surge on Disk

BSL = Bright Surge on Limb
CAP = CAP Prominence (Tandberg-Hanssen)
CRN = Coronal Rain
DSD = Dark Surge on Disk
EPL = Eruptive Prominence on Limb

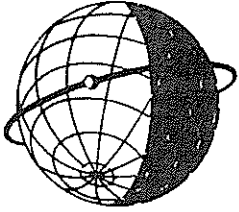
LPS = Loops
MDP = Mound Prominence
SDF = Sudden Disappearing Filament
SPY = Spray
SSB = Solar Sector Boundary

For SOLAR SECTOR BOUNDARY REPORTS, the latitude field contains the Carrington longitude of the point where a neutral line crosses the solar equator. The comments field may contain the Carrington longitude and central meridian distance of two more intersection points.

The EXTENT field for limb events is the radial extent above the limb in hundredths of solar radius. For disk events this field contains the heliographic extent in whole degrees.

The remark "Bright Emission 1/3" indicates that bright emission was observed 1/3 of time.
The remark "Normal Emission 1/3" indicates that normal emission was observed 1/3 of time.

Observation Type: C= Cinematographic, E= Electronic, P= Photographic, V= Visual.



WORLD DATA CENTER A
FOR
SOLAR-TERRESTRIAL PHYSICS



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

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