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Ronald H. Brown, Secretary

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

D. James Baker, Administrator

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Gregory W. Withee, Acting Assistant Administrator

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Michael A. Chinnery, Director
Boulder, Colorado

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Number 589

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Editor: Helen E. Coffey

Chief: Joe H. Allen
Solar-Terrestrial Physics Division

Staff: Christine D. Hanchett

Computer Consultants:
Daniel C. Wilkinson
Grigoriy Ushomirskiy

CONTENTS

PART I (PROMPT REPORTS)

Page

DETAILED INDEX FOR 1993	2
DATA FOR AUGUST 1993	3- 34
DATA FOR JULY 1993	35-125

PART II (COMPREHENSIVE REPORTS)

Page

DETAILED INDEX FOR 1993	2
DATA FOR MARCH 1993	3-72

DETAILED INDEX OF OBSERVATIONS PUBLISHED IN SOLAR-GEOPHYSICAL DATA

CODE	KIND OF OBSERVATION	JAN 93	FEB	MAR	APR	MAY	JUN	JUL	AUG
A. SOLAR AND INTERPLANETARY EVENTS									
A.1	Sunspot Drawings	583A 58	584A 57	585A 49	586A 47	587A 47	588A 45	589A 43	
A.2aa	International Provisional Sunspot Numbers	582A 27	583A 29	584A 33	585A 27	586A 27	587A 25	588A 25	589A 25
A.2c	American Sunspot Numbers	582A 27	583A 29	584A 33	585A 27	586A 27	587A 25	588A 25	589A 25
A.3a	Mt. Wilson Magnetograms	583A 58	584A 57	585A 49	586A 47	587A 47	588A 45	589A 43	
A.3b	Sunspot Mag Class and Regions	583A106	584A100	585A 96	586A 93	587A 94	588A 91	589A 90	
A.3c	Kitt Peak Magnetograms	583A 58	584A 57	585A 49	586A 47	587A 47	588A 45	589A 43	
A.3d	Mean Solar Magnetic Field (Stanford)	582A 35	583A 41	584A 47	585A 39	586A 37	587A 37	588A 35	589A 33
A.3e	Stanford Magnetograms	583A 58	584A 57	585A 49	586A 47	587A 47	588A 45	589A 43	
A.4	H-alpha Filtergrams	583A 58	584A 57	585A 49	586A 47	587A 47	588A 45	589A 43	
A.6c	Stanford Solar Mag Field Synoptic Maps	583A 44	584A 50	585A 42	586A 40	587A 40	588A 38	589A 36	
A.6d	Kitt Peak Solar Mag Field Synoptic Maps	583A 56	584A 56	585A 48	586A 46	587A 46	588A 44	589A 42	
A.6e	Mass Ejections (Proxy data) from the Sun	587B 28	588B 54	589B 58					
A.6f	Active Prominences and Filaments	587B 29	588B 55	589B 59					
A.6g	Sac Peak Coronal Line Synoptic Maps	583A 48	584A 52	585A 44	586A 42	587A 42	588A 40	589A 38	
A.7h	Coronal Line Emission (Sac Peak)	583A 58	584A 57	585A 49	586A 47	587A 47	588A 45	589A 43	
A.8aa	2800 MHz- Solar Flux (Penticton)	582A 27	583A 29	584A 33	585A 27	586A 27	587A 25	588A 25	589A 25
A.8ac	2800 MHz- Adj. Solar Flux (Penticton)	582A 27	583A 29	584A 33	585A 27	586A 27	587A 25	588A 25	589A 25
A.8g	Adjusted Daily Solar Fluxes (Pahua)	582A 27	583A 29	584A 33	585A 27	586A 27	587A 25	588A 25	589A 25
A.10e	East-West Scans - 10 cm - Penticton								
A.10g	Nancay Radioheliograph - 164 MHz			585A128	586A118	587A115	588A107	589A114	
A.11g	Solar X-ray GOES (graphs/event table)	587B 19	588B 45	589B 48					
A.11k	Solar UV NOAA-9	May 86-Dec 88 in 566B 84							
A.11l	Solar UV NIMBUS7	Nov 78-Oct 84 in 542B 82							
A.11n	Solar YOHKOH Soft X-ray Images	583A 89	584A 85	585A 80	586A 78	587A 78	588A 75	589A 74	
A.12e	Solar Particles (IMP H & J)	Dec 88-Oct 89 in 570B 92							
A.12g	Solar Particles (GOES-7)	582A 4	583A 4	584A 4	585A 4	586A 4	587A 4	588A 4	589A 4
A.13e	Solar Plasma (IMP H & J)	587B 41							
A.13f	Solar Wind (Pioneer 12)	Oct 90-Dec 91 in 572A151; Jan-Oct 92 in 583A144							
A.16b	NIMBUS Solar Irradiance	Nov 78-Jun 92 in 577B 56							
A.16c	ERBS, NOAA-9 & -10 Solar Irradiance	1989 in 551B 78; ERBS Oct 84-Oct 92 in 581B 74							
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	582A 29	583A 30	584A 34	585A 28	586A 28	587A 27	588A 28	589A 28
C.1ba	H-alpha Flare Groups	587B 4	588B 4	589B 4					
C.1d	Flare Patrol Observations	582A 32	583A 38	584A 42	585A 35	586A 34	587A 34	588A 32	589A 31
C.1d	Flare Patrol Observations	587B 12	588B 24	589B 22					
C.3	Radio Bursts Fixed Frequency	587B 14	588B 26	589B 24					
C.3	Radio Bursts Fixed Frequency Selected	582A 33	583A 39	584A 43	585A 36	586A 35	587A 35	588A 33	589A 32
C.4f	Radio Bursts Spectral (Sagamore Hill)	583A120	584A119	585A115	586A112	587A108	588A103	589A107	
C.4k	Radio Bursts Spectral (Learmonth)	583A120	584A119	585A115	586A112	587A108	588A103	589A107	
C.4l	Radio Bursts Spectral (Pahua)	583A120	584A119	585A115	586A112	587A108	588A103	589A107	
C.4m	Radio Bursts Spectral (Ondrejov)	583A120	584A119	585A115	586A112	587A108		589A107	
C.4n	Radio Bursts Spectral (Potsdam)	583A120	584A119	585A115	586A112	587A108		589A107	
C.4o	Radio Bursts Spectral (San Vito)	583A120	584A119	585A115	586A112	587A108	588A103	589A107	
C.4p	Radio Bursts Spectral (IZMIRAN)	583A120	584A119	585A115	586A112	587A108	588A103	589A107	
C.6	Sudden Ionospheric Disturbances	583A118	584A114	585A110	586A108	587A105	588A 99	589A104	
D. GEOMAGNETIC EVENTS									
D.1a	Geomagnetic Indices	583A130	584A136	585A135	587A131	588A120	588A114	589A121	
D.1ba	27-day Chart of Kp Indices	583A132	584A138	585A137	586A127	587A124	588A116	589A123	
D.1cb	Monthly Mean aa Indices	583A133	584A139	585A138	587A131	588A117	588A117	589A124	
D.1d	Principal Magnetic Storms	583A134	584A140	585A139	586A129	587A126	588A118	589A125	
D.1f	Sudden Commencements/Flare Effects	Jun 92 in 577A130; Jul-Oct 92 in 583A140							
D.1g	Equatorial Indices Dst	Dec 92 in 587A132; Jan-Apr 93 in 588A121							
F. COSMIC RAYS									
F.1a	Cosmic Ray Neutron Cts (Deep River)	583A125	584A131	585A134	586A119	587A116	588A108	589A115	
F.1b	Cosmic Ray Neutron Cts (Climax)	585A142	585A143	585A134	586A119	587A116	588A108	589A115	
F.1h	Cosmic Ray Neutron Cts (Thule)	583A125	585A143	585A134	586A119	587A116	588A108	589A115	
F.1i	Cosmic Ray Neutron Cts (Kiel)	583A125	584A143	585A134	587A130	587A116	588A108		
F.1j	Cosmic Ray Neutron Cts (Tokyo)	583A125	584A131	585A134	586A119	587A116	588A108	589A115	
F.1l	Cosmic Ray Neutron Cts (Huancayo)	Aug 92 in 580A126							
F.1m	Cosmic Ray Neutron Cts (Beijing)	584A142 584A131 585A134 587A130 587A116 589A115							
H. MISCELLANEOUS									
H.60	IUWDS Alert Periods	582A 20	583A 18	584A 20	585A 19	586A 20	587A 19	588A 20	589A 20

The entry "583A 58" under Jan 1993, for example, means that the sunspot drawings for Jan 1993 appear in SOLAR-GEOPHYSICAL DATA No. 583, Part I, and that they begin on page 58. "A" denotes Part I and "B", Part II. Blanks indicate data not yet received and dashes mark unavailable data.

CONTENTS

Comprehensive Reports

Number 589 Part II

DATA FOR MARCH 1993

	Page
SOLAR FLARES	
H-alpha Solar Flare Groups	4-21
Intervals of No Flare Patrol Observation	22
Number of Solar Flares August 1966-present	23
SOLAR RADIO BURSTS AT FIXED FREQUENCIES	24-47
SOLAR X-RAY RADIATION FROM GOES SATELLITE Graphs	48-53
Preliminary Event List	54-56
Preliminary Daily Average Background	57
MASS EJECTIONS FROM THE SUN	58
ACTIVE PROMINENCES AND FILAMENTS	59-72
SOLAR IRRADIANCE (Unavailable at time of publication.)	
IMP-8 SOLAR WIND Plot (Unavailable at time of publication.)	

Mar 93

H α SOLAR FLARES

MARCH 1993

Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF		CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
						Region	Lat									Apparent (10-6 Disk)	Corr (Sq Deg)	
		01	0412		0433	No	Flare	Patrol										
		01	0435		0544	No	Flare	Patrol										
0001		01	0620	0626	0646	N09 E23 7435	03	3.0	26	1N	C	2.6				97	0.5	F
	LEAR	01	0620	0626	0637	N09 E23 7435	03	3.0	17	1F	C	2.6	3	E		148		F
	YUNN	01	0625E	0625U	0656	N09 E23 7435	03	3.0	31D	SN				P	0625	46	0.5	
0002	RAMY	01	1404E	1422	1443	N09 E17 7435	03	2.9	39D	SF			3	E		63		F
0003	HOLL	01	1533E	1652	1740D	N09 E17 7435	03	2.9	127D	1N	C	3.9	3	E		128		EF
0004	HOLL	01	1827	1833	1848	N07 E16 7435	03	3.0	21	SF			3	E		23		F
0005	PALE	01	1918	1919	1929	S11 E80 7439	03	7.8	11	SF			3	E		22		
0006		01	19482	19521	2004	N10 E16 7435	03	3.0	16	SF						24		F
	RAMY	01	1948	1952	2005D	N09 E15 7435	03	2.9	17D	SF			3	E		25		F
	PALE	01	1950	1953	2004	N10 E16 7435	03	3.0	14	SF			3	E		24		
		01	2106		2132	No	Flare	Patrol										
		01	2211		2221	No	Flare	Patrol										
		01	2319		2327	No	Flare	Patrol										
		01	2329		2346	No	Flare	Patrol										
0007	SVTO	02	1212	1213	1219	N12 W57 7433	02	26.3	7	SF	C	1.1	3	E		27		
0008	SVTO	02	1301	1302	1308	N09 E05 7435	03	2.9	7	SF			3	E		13		
		02	1426		1444	No	Flare	Patrol										
0009	HOLL	02	1503	1510	1531	S07 E82 7440	03	8.8	28	SF	C	5.0	3	E		44		F
		02	1651		1657	No	Flare	Patrol										
0010	HOLL	02	1720	1731	1747	N07 E03 7435	03	2.9	27	SF			3	E		68		F
0011		02	18073	18203	1937	N07 E03 7435	03	3.0	90	1F	C	4.2				84		EF
	HOLL	02	1807	1820	1926	N07 E03 7435	03	3.0	79	1F	C	4.2	3	E		101		FE
	PALE	02	1810	1823	1929D	N07 E04 7435	03	3.0	79D	1F	C	4.2	3	E		103		FE
	RAMY	02	1855E	1900U	1948	N08 E01 7435	03	2.9	53D	SF			3	E		48		F
		02	2012		2051	No	Flare	Patrol										
0012	HOLL	02	2040	2043	2052	N07 E02 7435	03	3.0	12	SF			3	E		22		F
0013		02	2046	2046	2101	S07 E80 7440	03	8.8	15	SF						16		F
	HOLL	02	2046	2046	2057	S08 E82 7440	03	9.0	11	SF			3	E		21		F
	RAMY	02	2052E	2052U	2105	S06 E78 7440	03	8.7	13D	SF			3	E		11		F
		02	2058		2131	No	Flare	Patrol										
0014		02	2104	21076	2128	S06 E84 7440	03	9.2	24	SF	M	5.1				42		F
	HOLL	02	2104	2107	2131	S07 E81 7440	03	8.9	27	SF	M	5.1	3	E		25		F
	PALE	02	2104	2113	2125	S04 E87 7440	03	9.4	21	SF			3	E		60		
		02	2149		2231	No	Flare	Patrol										
		02	2235		2400	No	Flare	Patrol										
		03	0000		0009	No	Flare	Patrol										
0015		03	03341	03353	0346	N08 W02 7435	03	3.0	12	SF	C	3.7				27		F
	PALE	03	0334	0338	0347	N07 W02 7435	03	3.0	13	SF	C	3.7	3	E		41		F
	LEAR	03	0335	0335	0344	N08 W02 7435	03	3.0	9	SF			3	E		13		F
0016	LEAR	03	0604	0606	0609	N08 W04 7435	03	2.9	5	SF			3	E		21		F
0017	SVTO	03	1021	1054	1132	N07 W09 7435	03	2.7	71	SF	C	2.7	3	E		44		
		03	1316		1341	No	Flare	Patrol										
		03	1436		1559	No	Flare	Patrol										

H α SOLAR FLARES5
Mar 93

MARCH 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0018		03	15216	15271	1546	S10	E68	7440	03	8.7	25	SF	C 2.4				40		F
	HOLL	03	1521	1528	1555	S09	E70	7440	03	8.9	34	SF	C 2.4	3	E		59		F
	RAMY	03	1527	1527	1537	S10	E67	7440	03	8.7	10	SF		3	E		20		F
0019	HOLL	03	1731	1732	1735	N11	W11	7435	03	2.9	4	SF		3	E		19		F
		03	2213		2217														
		03	2219		2223														
		03	2256		2400														
0020	HOLL	03	2310	2315	2331	N11	W15	7435	03	2.8	21	SF	C 1.1	3	E		53		F
		04	0000		0021														
0021		04	01022	0107	0148	N11	W16	7435	03	2.8	46	1N	C 6.8				144		FH
	PALE	04	0102	0107	0141	N11	W15	7435	03	2.9	39	1N	C 6.8	3	E		145		FH
	LEAR	04	0104	0107	0155	N11	W16	7435	03	2.8	51	1F	C 6.8	3	E		142		F
0022		04	10097	10172	1114	N10	W22	7435	03	2.8	65	1N	M 1.0				201	4.0	FH
	HTPR	04	1009	1017	1122	N11	W23	7435	03	2.7	73	1B			C	1017	350	4.0	FH
	LEAR	04	1009	1019	1027D	N09	W20	7435	03	2.9	18D	SN		2	E		87		F
	SVTO	04	1016	1017	1106	N10	W23	7435	03	2.7	50	1N	M 1.0	3	E		167		FH
0023		04	10301	10354	1053	S08	E65	7440	03	9.3	23	1N					89	3.3	
	SVTO	04	1030	1035	1053	S07	E63	7440	03	9.1	23	SF		3	E		28		
	HTPR	04	1031	1039	1053	S08	E67	7440	03	9.5	22	1N			C	1039	150	3.3	
0024		04	12147	1222*	1341	S13	W55	7434	02	28.3	87	1N	C 8.1				263	5.6	EFIKU
	HTPR	04	1214	1236	1421	S15	W56	7434	02	28.3	127	2B			C	1236	550	9.8	IU
	RAMY	04	1217	1225	1357	S14	W56	7434	02	28.3	100	2N	C 8.1	3	E		309		UF
	HTPR	04	1221	1222	1246	S09	W50	7434	02	28.8	25	SF			C	1222	70	1.3	EK
	SVTO	04	1227E	1228U		S13	W58	7434	02	28.1		D 1F		3	E		123		
0025	RAMY	04	1221	1223	1256	S10	E59	7440	03	8.9	35	1F		3	E		105		F
0026	SVTO	04	1228E	1229U	1248D	S02	E63	7440	03	9.2	20D	SF		2	E		27		
0027		04	1259	1338	1456	N08	E66	7441	03	9.5	117	1F					224		HKT
	HTPR	04	1259	1338	1515	N10	E68	7441	03	9.6	136	N			C	1338	450		KT
	SVTO	04	1331E	1332U	1437	N09	E66	7441	03	9.5	66D	1F		4	E		139		
	HOLL	04	1348E	1348U	1520D	N05	E63	7441	03	9.3	92D	SF		1	E		82		H
0028	SVTO	04	1342	1348	1357	S08	E62	7440	03	9.2	15	SF		3	E		59		
0029		04	15153	15192	1527	N09	W23	7435	03	2.9	12	SF	C 1.4				71	1.7	FH
	RAMY	04	1515	1521	1532	N10	W26	7435	03	2.7	17	SF	C 1.4	3	E		46		
	HTPR	04	1518	1519	1524	N08	W19	7435	03	3.2	6	SN			C	1519	150	1.7	
	HOLL	04	1518	1520	1525	N10	W23	7435	03	2.9	7	SF		3	E		16		FH
0030	HOLL	04	1811	1903	2009	N11	W25	7435	03	2.9	118	SF		3	E		77		
		04	2050		2118														
		04	2124		2211														
		04	2213		2215														
		04	2307		2357														
0031		05	00391	0042	0117	N09	E61	7441	03	9.6	38	2N	C 4.5				239	8.1	F
	LEAR	05	0039	0042	0117	N09	E62	7441	03	9.7	38	1F	C 4.5	3	E		105		F
	MITK	05	0040	0042	0117	N09	E60	7441	03	9.5	37	2N			C	0042	373	8.1	F
0032	WATU	05	0524	0531	0539	N04	W06		03	4.8	15	SF			C	0531	40	0.4	E
0033	WATU	05	0526	0532	0539	N14	E44	7443	03	8.5	13	SN			C	0532	70	1.1	E
0034		05	0622	0622	0628	N11	W30	7435	03	3.0	6	SN	C 1.9				92	1.4	D
	MITK	05	0622	0622	0625	N11	W29	7435	03	3.1	3	SB			C	0622	115	1.4	D
	LEAR	05	0622	0622	0632	N11	W30	7435	03	3.0	10	SF	C 1.9	3	E		69		

6
Mar 93

H α SOLAR FLARES

MARCH 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)	
0035		05	06455	06466	0654	S04	E44	7440	03	8.6	9	SN					26	0.4	EF
	LEAR	05	0645	0646	0656	S03	E44	7440	03	8.6	11	SF		3	E		24		F
	MITK	05	0650	0652	0652	S04	E44	7440	03	8.6	2	SN			C	0652	27	0.4	E
0036	MITK	05	0718	0719	0720	S03	E45	7440	03	8.7	2	SN			C	0719	41	0.6	E
0037	HTPR	05	0737E	0737	0808	S03	E47	7440	03	8.8	310	SF			C	0737	100	1.5	T
0038	RAMY	05	1156	1206	1213	N11	W33	7435	03	3.0	17	SF		3	E		19		
0039		05	1307*	13222	1351	S08	E36	7439	03	8.2	44	SN	C 1.7				78	1.6	EFKT
	HTPR	05	1307	1324	1413	S07	E37	7439	03	8.3	66	SN			C	1324	130	1.6	EKT
	RAMY	05	1318	1322	1329	S08	E36	7439	03	8.2	11	SF	C 1.7	3	E		26		F
0040		05	1534*	1546	1551	S04	E46	7440	03	9.1	17	SF					39	0.7	FT
	HTPR	05	1534	1546	1559D	S03	E45	7440	03	9.0	25D	SF			C	1546	50	0.7	T
	RAMY	05	1545	1546	1551	S06	E46	7440	03	9.1	6	SF		3	E		28		F
0041	RAMY	05	1636	1639	1646	S08	E45	7440	03	9.1	10	SF		3	E		32		
0042	RAMY	05	1732	1736	1742	S04	E41	7440	03	8.8	10	SF		3	E		34		
0043		05	1820	1824	1930	S07	E41	7440	03	8.8	70	SF					24		FT
	RAMY	05	1820	1824	1834	S05	E40	7440	03	8.7	14	SF		3	E		22		
	HOLL	05	1824E	1824	2027	S09	E42	7440	03	8.9	123D	SF		3	E		26		FT
0044		05	2146	2147	2158	S09	E40	7440	03	8.9	12	SF	C 1.1				40		F
	RAMY	05	2146	2147	2156	S09	E40	7440	03	8.9	10	SF	C 1.1	2	E		41		F
	HOLL	05	2146	2147	2200	S09	E41	7440	03	9.0	14	SF	C 1.1	3	E		38		F
		05	2334		2335	No Flare Patrol													
0045	MITK	05	2342	2342	2343	N11	E48	7441	03	9.6	1	SN			C	2342	13	0.2	D
0046	LEAR	06	0047	0055	0059	S06	E39	7440	03	8.9	12	SF		3	E		43		F
0047	MITK	06	0250	0251	0251	N10	E46	7441	03	9.6	1	SN			C	0251	20	0.3	E
0048	MITK	06	0314	0314	0318	N10	E46	7441	03	9.6	4	SN			C	0314	27	0.4	E
		06	0523		0536	No Flare Patrol													
0049		06	08171	0818	0826	S09	E36	7440	03	9.0	9	SF					37	0.5	EF
	HTPR	06	0817	0818	0827	S09	E36	7440	03	9.0	10	SF			C	0818	40	0.5	E
	LEAR	06	0818	0818	0824	S09	E35	7440	03	9.0	6	SF		3	E		34		F
0050	HTPR	06	0950	0952	1000	N08	W47	7435	03	2.9	10	SF			C	0952	40	0.6	D
0051		06	09591	10081	1014	S08	E36	7440	03	9.1	15	SN					130	1.6	
	HTPR	06	0959	1009	1016	S08	E36	7440	03	9.1	17	SN			C	1009	130	1.6	
	KANZ	06	1000	1008	1012	S09	E35	7440	03	9.0	12	SF		2	C				
0052		06	10262	10363	1124	S08	E36	7440	03	9.1	58	1B					80	1.0	FV
	HTPR	06	1026	1039	1125	S07	E36	7440	03	9.1	59	SB			C	1039	80	1.0	FV
	KANZ	06	1028	1036	1124	S10	E35	7440	03	9.1	56	2N		2	C				
0053		06	12462	12476	1300	N11	W48	7435	03	2.9	14	SF	C 1.3				72	1.9	F
	RAMY	06	1246	1247	1258	N11	W48	7435	03	2.9	12	SF	C 1.3	3	E		23		F
	HTPR	06	1247	1253	1302	N12	W47	7435	03	3.0	15	SF			C	1253	120	1.9	
	KANZ	06	1248	1248	1300	N09	W49	7435	03	2.8	12	SF		2	C				
0054		06	18561	18591	1910	N12	W51	7435	03	2.9	14	1F	C 2.0				110		F
	HOLL	06	1856	1859	1910	N12	W51	7435	03	2.9	14	1F	C 2.0	3	E		133		
	PALE	06	1856	1900	1911	N12	W50	7435	03	3.0	15	1F	C 2.0	3	E		120		F
	RAMY	06	1857	1900	1909	N11	W52	7435	03	2.9	12	SF	C 2.0	3	E		78		F
0055		06	19122	1915	1927	S10	E29	7440	03	9.0	15	SF	C 1.9				34		F
	HOLL	06	1912	1915	1927	S10	E28	7440	03	8.9	15	SF		3	E		50		F
	PALE	06	1912	1915	1930	S09	E31	7440	03	9.1	18	SF	C 1.9	3	E		31		F
	RAMY	06	1914	1915	1925	S10	E28	7440	03	8.9	11	SF		3	E		21		F

H α SOLAR FLARES7
Mar 93

MARCH 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		CMP	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
								Region	Mo								Apparent (10-6 Disk)	Corr (Sq Deg)	
0056		06	1944*	20276	2213	S04	E29	7440	03	9.0	149	2B	M 7.7				494		EFZ
	HOLL	06	1944	2033	2208	S05	E29	7440	03	9.0	144	3B	M 7.7	3	E		613		ZF
	PALE	06	2014	2033	2218	S04	E29	7440	03	9.0	124	3B	M 7.7	3	E		631		ZF
	RAMY	06	2019E	2027	2046D	S04	E29	7440	03	9.0	27D	1N		3	E		237		FE
0057		06	2226	2229	2243	S06	E28	7440	03	9.0	17	SN	C 7.9				72		F
	HOLL	06	2222E	2227U	2315D	S02	E29	7440	03	9.1	53D	SF		2	E		79		F
	PALE	06	2226	2229	2242	S09	E29	7440	03	9.1	16	SB	C 7.9	3	E		79		
	LEAR	06	2240E	2240U	2244	S06	E25	7440	03	8.8	4D	SF		2	E		57		F
		06	2317		2400	No Flare Patrol													
		07	0000		0024	No Flare Patrol													
		07	0059		0100	No Flare Patrol													
		07	0115		0127	No Flare Patrol													
		07	0144		0146	No Flare Patrol													
		07	0154		0156	No Flare Patrol													
		07	0200		0216	No Flare Patrol													
		07	0306		0310	No Flare Patrol													
		07	0320		0326	No Flare Patrol													
		07	0329		0435	No Flare Patrol													
		07	0437		0608	No Flare Patrol													
0058	SVTO	07	0735E	0736U	0740D	S04	E25	7440	03	9.2	5D	SF		2	E		33		
		07	0751		0759	No Flare Patrol													
		07	0810		0838	No Flare Patrol													
		07	0846		0855	No Flare Patrol													
		07	0905		0915	No Flare Patrol													
0059	SVTO	07	0920E	0920U	0945D	S12	E11	7439	03	8.2	25D	SF	B 9.3	3	E		11		
0060	SVTO	07	0939E	0939U	0949D	S05	E24	7440	03	9.2	10D	SF		3	E		13		
		07	1011		1024	No Flare Patrol													
		07	1026		1042	No Flare Patrol													
		07	1218		1226	No Flare Patrol													
0061	RAMY	07	1253	1254	1258	S05	E20	7440	03	9.0	5	SF		3	E		46		F
0062		07	1259E	1306U	1352	S05	E19	7440	03	9.0	53D	SF					54		FH
	RAMY	07	1259E	1314U	1350	S05	E19	7440	03	9.0	51D	SF		3	E		69		F
	KANZ	07	1306E	1306U	1355	S06	E20	7440	03	9.0	49D	SF		2	C				
	SVTO	07	1312E	1334U	1358D	S05	E18	7440	03	8.9	46D	SF		2	E		39		FH
		07	1300		1305	No Flare Patrol													
		07	1307		1311	No Flare Patrol													
0063	PALE	07	1828	1830	1834	S04	E18	7440	03	9.1	6	SF	B 8.5	3	E		12		
0064		07	2134	2137I	2156	S05	E16	7440	03	9.1	22	SF	C 1.4				36		F
	HOLL	07	2134	2137	2154	S05	E16	7440	03	9.1	20	SF	C 1.4	3	E		39		F
	PALE	07	2134	2138	2157	S05	E17	7440	03	9.2	23	SF	C 1.4	3	E		41		
	RAMY	07	2137E	2139U	2151D	S05	E16	7440	03	9.1	14D	SF	C 1.4	3	E		29		F
0065	HOLL	07	2238	2248	2257	S06	E12	7440	03	8.8	19	SF	C 1.2	3	E		46		F
		07	2304		2345	No Flare Patrol													
0066		07	2316*	2347	2355	N10	E21	7441	03	9.5	39	SB	C 1.6				72	0.7	DF
	HOLL	07	2316	2347	2430D	N10	E21	7441	03	9.5	74D	SN	C 1.6	3	E		85		F
	MITK	07	2347	2347	2355	N11	E21	7441	03	9.6	8	SB			C	2347	60	0.7	D
0067	LEAR	08	0022	0036	0057	S05	E11	7440	03	8.8	35	SF	C 1.5	3	E		76		
0068	WATU	08	0222	0230	0250	S06	E35	7444	03	10.7	28	SB			C	0230	80	1.0	E
0069	PALE	08	0226	0226	0244	S04	E14	7440	03	9.1	18	SF		3	E		10		
0070	LEAR	08	0358	0358	0415	N11	E18	7441	03	9.5	17	SF	C 1.1	3	E		29		F

8

H α SOLAR FLARES

MARCH 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks		
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)			
0071		08	12071	12093	1220	S04 E11	7440	03	9.3	13	SF						12				
	RAMY	08	1207	1209	1219	S03 E11	7440	03	9.3	12	SF			3	E		12				
	KANZ	08	1208	1212	1220	S04 E11	7440	03	9.3	12	SF			2	C						
0072	KANZ	08	1244	1244	1248	S05 E08	7440	03	9.1	4	SF			2	C						
		08	1752		1816	No Flare Patrol															
0073	HOLL	08	1802	1804	1806	S04 E05	7440	03	9.1	4	SF			3	E		12		F		
		08	1822		1842	No Flare Patrol															
		08	1847		1900	No Flare Patrol															
		08	1904		1919	No Flare Patrol															
		08	1924		2235	No Flare Patrol															
		08	2237		2338	No Flare Patrol															
0074	YUNN	09	0208	0218	0229	S04 E00	7440	03	9.1	21	SN				C		31	0.3	E		
0075	KANZ	09	1341	1345	1349	S05 W03	7440	03	9.3	8	SF			2	C						
0076		09	15171	15186	1616	S06 W09	7440	03	9.0	59	SF B	9.6					75	1.7	F		
	HOLL	09	1517	1518	1625	S06 W09	7440	03	9.0	68	SF B	9.6	3	E		32		F			
	KANZ	09	1518E	1518U	1538D	S07 W09	7440	03	9.0	20D	SF		2	C							
	RAMY	09	1518	1518	1550	S06 W10	7440	03	8.9	32	SF B	9.6	3	E				F			
	HPR	09	1518	1524	1634	S05 W09	7440	03	9.0	76	SN			C	1524	170	1.7				
0077	HOLL	09	1925	1925	1941	S10 W24	7439	03	8.0	16	SF			3	E		13		F		
0078		10	0914*	0917*	0952	S04 W20	7440	03	8.9	38	SF C	2.3					118	1.8	F		
	HPR	10	0914	0917	0940	S04 W20	7440	03	8.9	26	SF			C	0917	190	2.0				
	KANZ	10	0914	0946	0954	S06 W19	7440	03	9.0	40	SF		2	C							
	SVTO	10	0916	0947	1002	S04 W20	7440	03	8.9	46	SF C	2.3	3	E		73					
	LEAR	10	0917	0946	0952	S03 W20	7440	03	8.9	35	SF C	2.3	3	E		61		F			
	HPR	10	0945	0948	0954	S05 W21	7440	03	8.8	9	SN			C	0948	150	1.6				
0079		10	1106	11091	1126	S04 W22	7440	03	8.8	20	SF						17				
	SVTO	10	1106	1109	1126D	S04 W22	7440	03	8.8	20D	SF		3	E		17					
	KANZ	10	1106	1110	1126	S03 W21	7440	03	8.9	20	SF		2	C							
0080		10	1138*	1217*	1424	S03 W21	7440	03	8.9	166	1F C	4.1					230	4.9	EFHK		
	RAMY	10	1138	1359	1436	S03 W20	7440	03	9.0	178	SF		3	E		26		FH			
	SVTO	10	1141	1219	1440	S05 W18	7440	03	9.1	179	1F C	4.1	3	E		189		F			
	KANZ	10	1146	1218	1454	S04 W24	7440	03	8.7	188	1F		2	C							
	HPR	10	1200	1217	1302	S02 W23	7440	03	8.8	62	2N			C	1217	580	6.4				
	HPR	10	1316	1324	1442	S01 W20	7440	03	9.0	86	1F			C	1324	320	3.4	EK			
	HOLL	10	1419E	1420U	1432	S02 W21	7440	03	9.0	13D	SF		1	E		35					
0081		10	16135	16223	1650	S04 W27	7440	03	8.6	37	SF						60	1.2	EF		
	HOLL	10	1613	1625	1656	S04 W29	7440	03	8.5	43	SF		3	E		45		F			
	RAMY	10	1616	1625	1643	S05 W25	7440	03	8.8	27	SF		3	E		24		F			
	HPR	10	1617	1622	1637D	S04 W28	7440	03	8.6	20D	SF			C	1622	110	1.2	E			
	KANZ	10	1618	1622	1630D	S05 W27	7440	03	8.6	12D	SF		2	C							
0082	HOLL	10	1700	1700	1709	S04 W22	7440	03	9.1	9	SF			3	E		12		F		
0083		10	18077	18213	1905	S03 W29	7440	03	8.6	58	1F C	1.7					114		F		
	HOLL	10	1807	1824	1911	S03 W28	7440	03	8.7	64	1F C	1.7	3	E		146		F			
	PALE	10	1808	1821	1901	S03 W31	7440	03	8.4	53	1F		3	E		105		F			
	RAMY	10	1814	1823	1904	S04 W28	7440	03	8.7	50	SF		3	E		91		F			
0084	HOLL	10	1957	1957	2020	S03 W25	7440	03	9.0	23	SF			3	E		28				
		10	2048		2058	No Flare Patrol															
0085		10	20554	2057	2116	S02 W26	7440	03	8.9	21	SF C	1.6					22		F		
	PALE	10	2055	2057	2125	S02 W27	7440	03	8.8	30	SF C	1.6	3	E		23					
	HOLL	10	2059	2059U	2108	S02 W26	7440	03	8.9	9	SF C	1.6	3	E		21		F			
		10	2349		2355	No Flare Patrol															
		10	2357		2400	No Flare Patrol															

H α SOLAR FLARES9
Mar 93

MARCH 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
			11 0000		0001			No Flare Patrol											
			11 0003		0007			No Flare Patrol											
0086	WATU	11	0023	0029	0036	S04	W05	7441A	03	10.6	13	SF			C	0029	20	0.2	E
0087		11	0214*	0246*	0422	S04	W34	7440	03	8.5	128	1F	C 6.3				109		F
	PALE	11	0214	0246	0358	S03	W27	7440	03	9.1	104	1F		3	E		100		F
	LEAR	11	0229	0302	0445	S04	W42	7440	03	8.0	136	1F	C 6.3	3	E		118		F
0088	PALE	11	0252	0253	0256	N15	E77	7448	03	16.9	4	SF		3	E		20		
0089	WATU	11	0306E	0306	0310	S05	W07	7444	03	10.6	40	SB			P	0306	90	0.9	EF
0090		11	0706*	0718	0734	S05	W36	7440	03	8.6	28	1N	C 1.7				134	2.8	FIU
	HTPR	11	0706	0718	0736	S04	W36	7440	03	8.6	30	1N				0718	230	2.8	U
	LEAR	11	0712	0719	0731	S05	W36	7440	03	8.6	19	SF	C 1.7	3	E		38		F
	ISTA	11	0716		0735	S05	W35	7440	03	8.7	19	1B			P				UI
0091	HTPR	11	0745	0758	0820	S03	W31	7440	03	9.0	35	SN			C	0758	50	0.6	EKT
0092		11	0748	0748	0808	N16	E80	7448	03	17.4	20	SF	C 3.4				30		
	KANZ	11	0748	0748	0804	N15	E80	7448	03	17.4	16	SF		2	C				
	SVTO	11	0757E	0800U	0813	N18	E81	7448	03	17.5	160	SF	C 3.4	3	E		30		
0093	KANZ	11	1048	1048	1048	S04	W31	7440	03	9.1	16	SF		2	C				
0094		11	10552	1129*	1210	S10	W42	7439	03	8.3	75	1N	C 3.0				279	4.4	EFIK
	HTPR	11	1055	1139	1223	S08	W44	7439	03	8.1	88	1B			C	1139	340	4.6	K
	KANZ	11	1056	1141	1157D	S09	W43	7439	03	8.2	61D	SF		2	C				
	SVTO	11	1057	1149	1201	S10	W45	7439	03	8.1	64	SF	C 3.0	3	E		84		F
	KAND	11	1123E	1129	1205	S11	W42	7439	03	8.3	42D	1B			P	1129	374		EFI
	ATHN	11	1140E	1142U	1147D	S10	W38	7439	03	8.6	7D	1N		2	V	1142	318	4.1	
0095		11	1345*	1350*	1409	N17	E76	7448	03	17.3	24	SF					26		DT
	SVTO	11	1345	1350	1410	N18	E66	7448	03	16.6	25	SF		3	E		17		
	RAMY	11	1356	1402	1406	N15	E77	7448	03	17.4	10	SF		3	E		10		
	HTPR	11	1402	1404	1411	N17	E85	7448	03	18.0	9	F			C	1404	50		DT
0096		11	1432	1436	1500	N16	E75	7448	03	17.3	28	SF	C 9.7				82		
	RAMY	11	1432	1436	1459	N15	E73	7448	03	17.1	27	SF	C 9.7	3	E		86		
	SVTO	11	1432	1436	1501	N18	E77	7448	03	17.5	29	SF		3	E		78		
0097		11	1515	15155	1528	S04	W35	7440	03	9.0	13	SN	M 1.1				77	1.7	F
	RAMY	11	1515	1515	1527	S04	W34	7440	03	9.1	12	SF	M 1.1	3	E		14		F
	HTPR	11	1515	1520	1529	S03	W36	7440	03	8.9	14	SN			C	1520	140	1.7	
0098	HOLL	11	1525E	1615U	1624D	N13	E66	7448	03	16.6	59D	SF		2	E		39		
0099		11	1646	1648	1655	N14	E68	7448	03	16.8	9	SF	C 4.5				52		FH
	HOLL	11	1634E	1648U	1722D	N13	E63	7448	03	16.4	48D	SF		3	E		60		F
	RAMY	11	1646	1648	1655	N14	E73	7448	03	17.2	9	SF	C 4.5	4	E		45		FH
0100	HOLL	11	1815	1817	1820	S03	W36	7440	03	9.1	5	SF		3	E		19		F
0101		11	18151	1822	1830	N14	E72	7448	03	17.2	15	SF					12		F
	RAMY	11	1815	1822	1831	N15	E73	7448	03	17.3	16	SF		4	E		12		
	HOLL	11	1816	1822	1830	N12	E70	7448	03	17.0	14	SF		3	E		13		F
0102	PALE	11	1859	1901	1907	N16	E71	7448	03	17.2	8	SF		3	E		26		
0103	HOLL	11	1903	1907	1912	S06	W39	7440	03	8.9	9	SF	C 4.6	3	E		15		FH
0104	HOLL	11	2001	2007	2015	N13	E72	7448	03	17.3	14	SF		3	E		16		
0105	HOLL	11	2104	2106	2109	S07	W21	7444	03	10.3	5	SF		3	E		12		
0106		11	21447	21571	2225	N14	E73	7448	03	17.4	41	2B	M 7.3				212		F
	HOLL	11	2144	2157	2225	N13	E72	7448	03	17.3	41	1B		3	E		170		F
	PALE	11	2151	2158	2221D	N15	E74	7448	03	17.5	30D	2B	M 7.3	3	E		253		F

10
Mar 93

H α SOLAR FLARES

MARCH 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
			11 2316		2324			No Flare Patrol										
0107	PALE	12	0025	0026	0033	N15	E72	7448	03	17.5	8	SF	3	E		24		
0108	WATU	12	0034E	0038	0044	N13	W15	7446	03	10.9	100	SN		C	0038	70	0.7	E
			12 0056		0059			No Flare Patrol										
0109	LEAR	12	0418	0418	0426	N15	E68	7448	03	17.3	8	SF C 7.0	3	E		18		F
0110	LEAR	12	0708	07128	0737	N15	E66	7448	03	17.3	29	SN C 4.9				29		F
	SVTO	12	0708	0720	0736	N16	E68	7448	03	17.3	29	SF C 4.9	3	E		28		F
	KANZ	12	0718E	0718U	0738	N13	E65	7448	03	17.4	28	SB	2	E		30		F
										17.2	200	SF	2	C				
0111	WATU	12	0754	0758	0758D	N12	W58		03	7.9	40	SF		P	0758	50	1.0	D
0112	HTPR	12	0815E	0843	0859	S07	W51	7440	03	8.5	440	SF		C	0843	90	1.4	
0113	HTPR	12	0902	0910	0926	N20	E65	7448	03	17.3	24	SF		C	0910	50	1.2	ET
0114	RAMY	12	1142	1145	1151	N15	E64	7448	03	17.3	9	SF	3	E		22		F
0115		12	11593	12011	1218	N14	E65	7448	03	17.4	19	SN C 3.2				79		DT
	SVTO	12	1159	1201	1217	N15	E64	7448	03	17.3	18	SN	3	E		44		
	RAMY	12	1159	1201	1218	N13	E65	7448	03	17.4	19	SN C 3.2	3	E		52		
	HTPR	12	1200		1222	N14	E68	7448	03	17.6	22	N		C	1202	140		DT
	KANZ	12	1202	1202	1214	N13	E64	7448	03	17.3	12	SF	2	C				
0116		12	12259	1232*	1240	N17	E64	7448	03	17.4	15	SF C 3.8				103		EKT
	HTPR	12	1225	1242	1245	N17	E66	7448	03	17.5	20	F		C	1242	190		EKT
	SVTO	12	1232	1232	1238	N17	E63	7448	03	17.3	6	SF C 3.8	3	E		16		
	KANZ	12	1234	1234	1238	N16	E63	7448	03	17.3	4	SF	2	C				
0117	HTPR	12	1237	1240	1244	S08	W54	7439	03	8.5	7	SF		C	1240	80	1.3	DT
0118	HTPR	12	1531E		1611D	S07	W54	7440	03	8.6	400	SF		C	1531	30	0.5	EK
0119	HOLL	12	1648E	1648U	1701	S01	W52	7440	03	8.8	130	SF	3	E		35		F
0120		12	1703*	1801*	1932	S03	W48	7440	03	9.1	149	3B M 7.0				741		UYZ
	HOLL	12	1703	1820	2042	N00	W51	7440	03	8.9	219	3B M 7.0	3	E		709		ZU
	PALE	12	1711	1814	2025D	S04	W46	7440	03	9.3	1940	3B	3	E		860		ZY
	RAMY	12	1714	1801	1821	S04	W47	7440	03	9.2	67	3N	3	E		655		ZU
0121		12	18339	18431	1854	N16	E56	7448	03	17.0	21	SF				56		
	HOLL	12	1833	1843	1853	N15	E56	7448	03	17.0	20	SF	3	E		45		
	PALE	12	1842	1844	1855	N16	E57	7448	03	17.1	13	SF	3	E		66		
			12 2014		2055			No Flare Patrol										
			12 2057		2155			No Flare Patrol										
0122	HOLL	12	2157	2157	2200	S04	W54	7440	03	8.9	3	SF C 3.9	3	E		14		
			12 2157		2202			No Flare Patrol										
			12 2204		2227			No Flare Patrol										
			12 2308		2400			No Flare Patrol										
			13 0206		0214			No Flare Patrol										
0123	LEAR	13	0233	0236	0247	N15	E52	7448	03	17.0	14	SF	3	E		18		
0124	LEAR	13	0312	0313	0324	N17	E47	7448	03	16.7	12	SF C 3.3	3	E		26		
0125	SVTO	13	0705E	0711	0715	S08	W61	7440	03	8.7	100	SF C 4.2	2	E		12		
0126	KANZ	13	0827	0827	0835	S07	W60	7440	03	8.8	8	SF	2	C				

H α SOLAR FLARES11
Mar 93

MARCH 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
0127		13	09012	09025	0936	N17	E51	7448	03	17.2	35	SN	C 2.9				44	1.3	F
	SVTO	13	0901	0902	0943	N17	E51	7448	03	17.2	42	SF	C 2.9	4	E		18		F
	KANZ	13	0903	0907	0935	N16	E50	7448	03	17.2	32	SF		2	C				
	HTPR	13	0921E		0929D	N18	E54	7448	03	17.5	8D	SN			C	0921	70	1.3	
	LARI	13	0931E		0931	N16	E49	7448	03	17.1	8D	1N							
0128	SVTO	13	1020	1029	1034	S08	W61	7440	03	8.8	14	SF		4	E		48		F
0129		13	12573	13012	1306	S07	W62	7440	03	8.9	9	SF	C 3.9				38		F
	SVTO	13	1257	1301	1305	S08	W63	7440	03	8.8	8	SF	C 3.9	4	E		38		F
	KANZ	13	1259	1303	1307	S07	W61	7440	03	9.0	8	SF		2	C				
	RAMY	13	1300	1301	1306	S06	W63	7440	03	8.8	6	SF	C 3.9	3	E		38		F
0130		13	15074	15216	1633	N17	E48	7448	03	17.3	86	SF	C 5.1				29		F
	KANZ	13	1507	1527	1623D	N16	E48	7448	03	17.3	76D	SF		2	C				
	HOLL	13	1509	1521	1703	N17	E50	7448	03	17.4	114	SF	C 5.1	3	E		33		F
	RAMY	13	1511	1522	1635D	N16	E47	7448	03	17.2	84D	SF		3	E		30		F
	SVTO	13	1519E	1523U	1603	N18	E46	7448	03	17.1	44D	SF		2	E		23		F
		13	1624		1649	No Flare Patrol													
0131		13	1747	1819	1831	S01	W66	7440	03	8.8	44	SF	C 4.5				68		F
	HOLL	13	1747	1819	1831	S01	W63	7440	03	9.0	44	SF	C 4.5	3	E		64		F
	PALE	13	1803E	1819	1831	S01	W69	7440	03	8.6	28D	SF		3	E		73		F
		13	1757		1928	No Flare Patrol													
0132	PALE	13	1909	1912	1917	N18	E42	7448	03	17.0	8	SF		3	E		10		
		13	1942		2042	No Flare Patrol													
		13	2046		2117	No Flare Patrol													
		13	2214		2226	No Flare Patrol													
		13	2228		2236	No Flare Patrol													
		13	2238		2329	No Flare Patrol													
0133	PALE	14	0337	0355	0355D	N16	E40	7448	03	17.2	18D	SF	C 1.1	3	E		45		
0134		14	08112	0813	0818	S08	W70	7440	03	9.1	7	SF	C 1.1				19		
	SVTO	14	0811	0813	0818	S08	W73	7440	03	8.9	7	SF	C 1.1	3	E		19		
	KANZ	14	0813	0813	0817	S07	W68	7440	03	9.2	4	SF		2	C				
0135		14	09272	09297	0946	N18	E42	7448	03	17.6	19	SF					24		FH
	SVTO	14	0927	0936	0946	N19	E42	7448	03	17.6	19	SF		4	E		24		FH
	KANZ	14	0929	0929	0945	N17	E41	7448	03	17.5	16	SF		2	C				
0136	RAMY	14	1833	1834	1850	N17	E24	7448	03	16.6	17	SF		3	E		41		
		14	2043		2227	No Flare Patrol													
		14	2229		2236	No Flare Patrol													
		14	2238		2358	No Flare Patrol													
		15	0342		0349	No Flare Patrol													
		15	0354		0356	No Flare Patrol													
		15	0411		0413	No Flare Patrol													
		15	0426		0438	No Flare Patrol													
		15	0440		0453	No Flare Patrol													
		15	0455		0458	No Flare Patrol													
		15	0503		0522	No Flare Patrol													
0137	KANZ	15	1000	1008	1020	S03	W82	7440	03	9.3	20	SF		2	C				
0138	SVTO	15	1301	1307	1319	N17	E23	7448	03	17.3	18	SF		3	E		25		F
0139		15	13324	13403	1358	N17	E24	7448	03	17.4	26	SF	C 1.6				65		F
	SVTO	15	1332	1343	1400	N17	E23	7448	03	17.3	28	SF	C 1.6	3	E		65		F
	KANZ	15	1336	1340	1356	N17	E24	7448	03	17.4	20	SF		2	C				
		15	1731		1741	No Flare Patrol													
0140	PALE	15	1929	1929	1932D	N16	E24	7448	03	17.6	3D	SF		3	E		18		

12
Mar 93

H α SOLAR FLARES

MARCH 1993

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)		
		15 1942		2008	No Flare Patrol														
0141	RAMY	15 2026	2029	2033	N17	E18	7448	03	17.2	7	SF		3	E		16			
0142		15 20396	20458	2108	S04	W90	7440	03	9.1	29	1F	M 2.9				140			
	HOLL	15 2039	2045	2120	S03	W88	7440	03	9.3	41	2F	M 2.9	3	E		255			
	RAMY	15 2045	2053	2057	S06	W91	7440	03	9.0	12	SF		3	E		24			
0143	HOLL	15 2105	2109	2114	N16	E15	7448	03	17.0	9	SF		3	E		11		F	
		15 2124		2132	No Flare Patrol														
0144	PALE	15 2131E	2134U	2144D	S04	W85	7440	03	9.5	13D	1F		3	E		218			
0145	HOLL	15 2143	2143	2144	N16	E15	7448	03	17.0	1	SF		3	E		12		F	
		15 2145		2227	No Flare Patrol														
		15 2229		2237	No Flare Patrol														
		15 2239		2315	No Flare Patrol														
		15 2323		2339	No Flare Patrol														
		15 2359		2400	No Flare Patrol														
		16 0000		0005	No Flare Patrol														
0146		16 02411	02442	0319	N16	E12	7448	03	17.0	38	SN	C 5.5				86	0.9	F	
	LEAR	16 0241	0244	0325	N14	E16	7448	03	17.3	44	SN	C 5.5	3	E		95		F	
	YUNN	16 0242	0246	0313	N18	E09	7448	03	16.8	31	SN			C		77	0.9		
0147	LEAR	16 0601	0602	0617	N16	E10	7448	03	17.0	16	SF		3	E		35		F	
0148		16 07494	07513	0814	N16	E09	7448	03	17.0	25	SF					56	0.9	F	
	HTPR	16 0749	0751	0811	N17	E09	7448	03	17.0	22	SF			C	0751	80	0.9		
	LEAR	16 0751	0754	0817	N16	E09	7448	03	17.0	26	SF		3	E		33		F	
	KANZ	16 0753	0753	0813	N16	E10	7448	03	17.1	20	SF		2	C					
0149		16 09102	09133	0928	N15	E08	7448	03	17.0	18	SF	C 2.2				46	0.9		
	HTPR	16 0910	0913	0924	N16	E08	7448	03	17.0	14	SF			C	0913	80	0.9		
	SVTO	16 0911	0914	0919	N15	E07	7448	03	16.9	8	SF	C 2.2	3	E		13			
	KANZ	16 0912	0916	0932	N14	E08	7448	03	17.0	20	SF		2	C					
	LARI	16 0912	0916	0937	N14	E09	7448	03	17.1	25	SF								
0150	LARI	16 1109	1112	1125	S19	E60	7450	03	21.0	16	1F								
0151		16 1231	1231	1244	N14	E06	7448	03	17.0	13	SF	C 1.2				23		F	
	SVTO	16 1231	1231	1243	N15	E05	7448	03	16.9	12	SF		2	E		22		F	
	RAMY	16 1233E	1233U	1245	N14	E06	7448	03	17.0	12D	SF	C 1.2	3	E		24		F	
0152	HTPR	16 1551	1552	1603	S21	E70	7451	03	22.0	12	SF			C	1552	50		D	
0153		16 1721*	17276	1749	N16	E04	7448	03	17.0	28	SF					22			
	HOLL	16 1721	1727	1802	N16	E04	7448	03	17.0	41	SF		3	E		22			
	RAMY	16 1732	1733	1736	N16	E03	7448	03	16.9	4	SF		3	E		23			
		16 2006		2030	No Flare Patrol														
		16 2036		2043	No Flare Patrol														
		16 2045		2228	No Flare Patrol														
		16 2334		2340	No Flare Patrol														
0154	HOLL	16 2353	2409	2438	N17	E04	7448	03	17.3	45	SF	C 1.0	3	E		42		F	
0155	YUNN	17 0150	0153	0200	S13	E77	7452	03	22.9	10	SN			C		108			
0156		17 07561	07582	0812	N18	E01	7448	03	17.4	16	SN	B 8.1				56	1.0	EFV	
	HTPR	17 0756	0800	0817	N19	E02	7448	03	17.5	21	SN			C	0801	90	1.0	EV	
	LEAR	17 0757	0758	0806	N17	E00	7448	03	17.3	9	SF	B 8.1	3	E		21		F	
0157	HTPR	17 0808	0822	0839	S13	E73	7452	03	22.8	31	N			C	0822	90			
0158	HTPR	17 0838	0838	0850	N18	E01	7448	03	17.4	12	SN			C	0838	150	1.7	CT	

H α SOLAR FLARES13
Mar 93

MARCH 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Area Measurement			Remarks	
								USAF Region						Mo	Day	(Min)		Opt
0159	HTPR	17	0902	0909	0940	N20	E01	7448	03	17.4	38	SF		C	0909	40	0.4	KT
0160		17	1522E	1526	1602	N18	W04	7448	03	17.3	40D	SF	C 1.0			35		F
	HOLL	17	1522E	1526	1616	N17	W03	7448	03	17.4	54D	SF	C 1.0	3	E	35		F
	RAMY	17	1530E	1531U	1549	N18	W04	7448	03	17.3	19D	SF		3	E	35		F
0161	PALE	17	1719	1719	1734	N18	W10	7448	03	17.0	15	SF		3	E	15		
0162	PALE	17	1720	1720	1724	S14	E61	7452	03	22.3	4	SF		3	E	13		
0163	PALE	17	1735	1736	1741	N17	W06	7448	03	17.3	6	SF		3	E	31		
0164		17	1743*	18011	1832	N16	W03	7448	03	17.5	49	SF	C 1.7			38		FH
	PALE	17	1743	1801	1801D	N14	W03	7448	03	17.5	18D	SF		3	E	39		FH
	HOLL	17	1801	1802	1832	N19	W03	7448	03	17.5	31	SF	C 1.7	3	E	38		F
0165	PALE	17	1744	1744	1748	S12	E65	7452	03	22.6	4	SF		3	E	12		
0166	PALE	17	1755	1756	1801	S12	E65	7452	03	22.6	6	SF		3	E	16		
		17	2323		2327	No Flare Patrol												
0167	MITK	18	0111	0113	0133	N18	W07	7448	03	17.5	22	SN		C	0113	74	0.8	D
0168	PALE	18	0223	0227	0249	S14	E64	7452	03	22.9	26	SF		3	E	21		
0169	WATU	18	0259	0305	0326	N13	W02		03	18.0	27	SB		C	0305	130	1.4	E
0170	LEAR	18	0412	0412	0419	N17	W10	7448	03	17.4	7	SF		3	E	20		F
0171	HTPR	18	0658	0700	0738	N16	W12	7448	03	17.4	40	SF		C	0700	170	1.9	T
0172	KAND	18	0805	0810	0900	N16	W13	7448	03	17.3	55	1N		P	0810	249	2.8	E
0173		18	11543	12014	1228	N18	W16	7448	03	17.3	34	1F	C 1.9			152	2.9	FT
	RAMY	18	1154	1201	1227	N17	W15	7448	03	17.3	33	SF	C 1.9	3	E	54		F
	HTPR	18	1154	1202	1229	N19	W16	7448	03	17.3	35	1N		C	1202	250	2.9	FT
	KANZ	18	1157	1205	1229	N17	W16	7448	03	17.3	32	1F		2	C			
0174	KANZ	18	1321	1325	1349	N14	W14	7449A	03	17.5	28	SF		2	C			
0175	KANZ	18	1425E	1429U	1437D	N15	W28	7449A	03	16.5	12D	SF		2	C			
0176	RAMY	18	1437	1445	1457	N15	W13	7448	03	17.6	20	SF		3	E	23		F
0177		18	15134	15135	1546	N16	W18	7448	03	17.3	33	SF	C 3.2			102	2.0	FT
	HTPR	18	1513	1513	1522	N14	W18	7448	03	17.3	9	1F		C	1513	190	2.3	
	RAMY	18	1514	1518	1606	N18	W16	7448	03	17.4	52	SF	C 3.2	3	E	48		F
	HOLL	18	1517E	1518U	1544D	N17	W16	7448	03	17.4	27D	SF		1	E	57		F
	SVTO	18	1517E	1518U	1545	N16	W17	7448	03	17.3	28D	SF		2	E	53		F
	HTPR	18	1517	1518	1551	N16	W21	7448	03	17.0	34	SN		C	1518	160	1.8	FT
0178	RAMY	18	1656	1709	1713	N16	W20	7448	03	17.2	17	SF		3	E	17		F
0179	RAMY	18	1721	1721	1732	N17	W14	7448	03	17.6	11	SF	C 1.3	3	E	28		FH
0180		18	2254E	2256U	2344	N16	W22	7448	03	17.3	50D	SN	C 2.7			58		EF
	LEAR	18	2254E	2312U	2329	N17	W22	7448	03	17.3	35D	SF	C 2.7	2	E	36		F
	HOLL	18	2255E	2256U	2359	N16	W22	7448	03	17.3	64D	SN	C 3.1	3	E	80		FE
		18	2317		2323	No Flare Patrol												
		18	2325		2328	No Flare Patrol												
0181		19	00064	00125	0040	N13	W21	7449A	03	17.4	34	SN	C 3.6			88	1.2	EF
	HOLL	19	0006	0012	0024D	N13	W22	7449A	03	17.3	18D	1N		3	E	113		FE
	LEAR	19	0009	0017	0053	N12	W21	7449A	03	17.4	44	SF	C 3.6	3	E	51		F
	MITK	19	0010	0012	0028	N13	W21	7449A	03	17.4	18	SN		C	0012	101	1.2	E
0182	WATU	19	0137	0140	0150	N09	W48	7449A	03	15.5	13	SF		C	0140	30	0.5	E

14
Mar 93

H α SOLAR FLARES

MARCH 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Area Measurement			Remarks				
								Region					Mo	Day	Time (UT)		Apparent (10-6 Disk)	Corr (Sq Deg)		
0183		19	02197	0220*	0240	N17	W23	7448	03	17.3	21	SN	C	5.6		99	1.5	EF		
	MITK	19	0219	0220	0223	N18	W24	7448	03	17.3	4	SN			C	0220	40	0.5	E	
	LEAR	19	0219	0220	0256	N16	W23	7448	03	17.3	37	SF	C	5.6	3	E	55		F	
	MITK	19	0226	0236	0241	N18	W23	7448	03	17.4	15	1N			C	0236	203	2.5		
		19	0450		0455	No Flare Patrol														
		19	0457		0509	No Flare Patrol														
0184	LEAR	19	0512	0520	0535	S13	E45	7452	03	22.6	23	SF	C	1.3	3	E		20		F
0185	SVTO	19	0621	0621	0624	N14	W24	7449A	03	17.4	3	SF			3	E		18		
0186	SVTO	19	0625	0627	0633	N14	W34	7449A	03	16.7	8	SF			3	E		26		
0187	KANZ	19	0735	0735	0739	N15	W21	7448	03	17.7	4	SF			2	C				
0188		19	08135	08163	0828	N14	W22	7448	03	17.7	15	SF	C	1.0			124	2.7	EF	
	HTPR	19	0813	0816	0833	N13	W22	7448	03	17.7	20	1N			C	0816	230	2.7	E	
	KANZ	19	0815	0819	0827	N15	W22	7448	03	17.7	12	SF			2	C				
	LEAR	19	0818	0819	0825	N14	W22	7448	03	17.7	7	SF	C	1.0	3	E		18		F
0189	HTPR	19	0839	0921	0930	S13	E43	7452	03	22.6	51	1F			C	0921	170	2.4	ET	
0190		19	09494	0952*	1037	S20	E32	7451	03	21.8	48	SF	C	1.7			44		F	
	LARI	19	0949	0952	1009	S17	E33	7451	03	21.9	20	SF								
	SVTO	19	0950	1011	1041	S17	E33	7451	03	21.9	51	SF	C	1.7	3	E		44		F
	KANZ	19	0951	1019	1051	S23	E32	7451	03	21.9	60	SF			2	C				
	LARI	19	0953	0957	1046	S22	E31	7451	03	21.8	53	SF								
0191	HTPR	19	0955	1024	1028	S12	E48	7452	03	23.0	33	SF			C	1024	70	1.0	FKT	
0192	HTPR	19	0957	1014	1044	N19	W35	7448	03	16.7	47	1N			C	1014	210	2.6	F	
0193	HTPR	19	1105	1116	1129	N15	W38	7449A	03	16.6	24	SF			C	1116	40	0.6		
0194		19	1231*	1255*	1348	N13	W28	7449A	03	17.4	77	SF					34		F	
	KANZ	19	1231	1255	1343	N13	W28	7449A	03	17.4	72	SF			2	C				
	RAMY	19	1254	1310	1355	N14	W27	7449A	03	17.5	61	SF			3	E		48		F
	SVTO	19	1254	1311	1347	N13	W29	7449A	03	17.3	53	SF			3	E		20		F
0195	KANZ	19	1307	1311	1323	N17	W31	7448	03	17.2	16	SF			2	C				
0196	KANZ	19	1331	1335	1355	N17	W26	7448	03	17.6	24	SF			2	C				
0197		19	1427	14311	1444	N16	W27	7448	03	17.5	17	SF					19		F	
	KANZ	19	1427	1431	1439	N17	W26	7448	03	17.6	12	SF			2	C				
	SVTO	19	1427	1432	1449	N14	W28	7448	03	17.5	22	SF			3	E		19		F
0198		19	15311	15332	1542	S14	E40	7452	03	22.7	11	SF	B	9.7			34		F	
	KANZ	19	1531	1535	1539	S14	E40	7452	03	22.7	8	SF			2	C				
	HOLL	19	1532	1533	1541	S15	E40	7452	03	22.7	9	SF			2	E		38		F
	SVTO	19	1532	1533	1546	S13	E40	7452	03	22.7	14	SF	B	9.7	3	E		29		F
0199		19	1722E	1727U	1758	N16	E32	7451A	03	22.1	36D	SF					51		FU	
	HOLL	19	1722E	1727U	1758	N15	E31	7451A	03	22.1	36D	SF			3	E		54		UF
	PALE	19	1723E	1730U	1800D	N16	E32	7451A	03	22.1	37D	SF			3	E		48		F
0200		19	1959	2001	2035	N21	W29	7448	03	17.6	36	SN	C	2.8			86		EF	
	HOLL	19	1959	2001	2035	N21	W29	7448	03	17.6	36	SN	C	2.8	3	E		80		F
	PALE	19	1959	2007U	2035	N21	W29	7448	03	17.6	36	SN			3	E		92		E
0201	HOLL	19	2154	2157	2202	N17	W32	7448	03	17.5	8	SF	C	1.6	3	E		12		
0202	HOLL	19	2326	2326	2331	N20	W31	7448	03	17.6	5	SF			3	E		18		
		19	2328		2400	No Flare Patrol														
	20	0000		0028	No Flare Patrol															

H α SOLAR FLARES15
Mar 93

MARCH 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Area Measurement		Corr	Remarks		
								USAF/						Mo Day	(Min)			Opt	Xray
0203		20	00472	00519	0235	N18	W36	7448	03	17.3	108	1N	M 1.8			178	3.5	FH	
	PALE	20	0041E	0150U		N21	W31	7448	03	17.6		D	1N	3	E	152			
	LEAR	20	0047	0100	0220D	N18	W37	7448	03	17.2	93D	1N	M 1.8	3	E	206		FH	
	HOLL	20	0049	0051	0107D	N18	W37	7448	03	17.2	18D	1N		2	E	106		FH	
	YUNN	20	0116E	0116U	0235	N16	W37	7448	03	17.2	79D	1N		P	0116	246	3.5	F	
0204		20	02424	02473	0307	N19	W34	7448	03	17.5	25	SN	C 7.2			86	1.1	F	
	YUNN	20	0242	0250	0255	N20	W34	7448	03	17.5	13	SN			C	77	1.1		
	PALE	20	0246	0247	0319	N18	W33	7448	03	17.6	33	SN	C 7.2	3	E	96		F	
		20	0427		0440	No Flare Patrol													
		20	0442		0447	No Flare Patrol													
0205		20	0706	07062	0714	N16	W37	7448	03	17.5	8	SN	C 3.8			26	0.4	EF	
	LEAR	20	0706	0706	0719	N15	W38	7448	03	17.4	13	SF	C 3.8	3	E	24		F	
	MITK	20	0706	0708	0708	N16	W36	7448	03	17.6	2	SN			C	0708	27	0.4	E
0206		20	07403	0748	0820	N17	W45	7448	03	16.9	40	SF	C 1.8			56		F	
	KANZ	20	0740	0748	0820	N17	W50	7448	03	16.5	40	SF		2	C				
	LEAR	20	0743	0748	0819	N18	W41	7448	03	17.2	36	SF	C 1.8	3	E	78		F	
	SVTO	20	0745E	0746U	0758D	N16	W45	7448	03	16.9	13D	SF		2	E	34		F	
0207	SVTO	20	0916	0916	0922	N14	W40	7448	03	17.4	6	SF		3	E	16			
0208	KANZ	20	0948	1000	1032	N14	W42	7449A	03	17.2	44	SF		2	C				
0209		20	09485	09577	1108	N17	W40	7448	03	17.4	80	SF	C 7.2			63		FH	
	KANZ	20	0948	1004	1140	N19	W39	7448	03	17.4	112	SF		2	C				
	SVTO	20	0949	1002	1056	N16	W41	7448	03	17.3	67	SF	C 7.2	3	E	63		HF	
	LARI	20	0953	0957	1049	N15	W40	7448	03	17.4	56	1F							
0210		20	12031	12121	1229	N16	W40	7448	03	17.5	26	SF	C 6.4			39		F	
	SVTO	20	1203	1213	1227	N15	W40	7448	03	17.5	24	SF		3	E	41		F	
	RAMY	20	1203	1213	1232	N17	W42	7448	03	17.3	29	SF	C 6.4	3	E	37		F	
	KANZ	20	1204	1212	1228	N17	W38	7448	03	17.6	24	SF		2	C				
0211		20	12551	1312*	1335	N14	W40	7449A	03	17.5	40	SF	C 2.5			19		F	
	SVTO	20	1255	1322	1334	N14	W41	7449A	03	17.4	39	SF	C 2.5	3	E	19		F	
	KANZ	20	1256	1312	1336	N14	W39	7449A	03	17.6	40	SF		2	C				
0212		20	14262	14351	1446	N18	W42	7448	03	17.4	20	SF	C 2.5			34		F	
	HOLL	20	1426	1435	1444	N18	W44	7448	03	17.2	18	SF	C 2.5	3	E	34		F	
	KANZ	20	1428	1436	1448	N18	W39	7448	03	17.6	20	SF		2	C				
0213		20	16501	16561	1707	N18	W42	7448	03	17.5	17	SF	C 3.9			42		H	
	RAMY	20	1650	1656	1708	N18	W42	7448	03	17.5	18	SF	C 3.9	3	E	47			
	HOLL	20	1651	1657	1706	N19	W41	7448	03	17.6	15	SN	C 3.9	3	E	54			
	PALE	20	1655E	1702U	1708D	N17	W42	7448	03	17.5	13D	SF		2	E	26		H	
0214		20	17361	17521	1930	N18	W44	7448	03	17.4	114	1N	C 4.6			134		EFH	
	PALE	20	1735E	1753U	1922D	N18	W43	7448	03	17.4	107D	1N	C 4.6	3	E	132		FH	
	HOLL	20	1736	1752	1932	N19	W43	7448	03	17.4	116	1N	C 4.6	3	E	134		FE	
	RAMY	20	1737	1753	1929	N17	W45	7448	03	17.3	112	1F		3	E	136		F	
		20	1954		2000	No Flare Patrol													
		20	2043		2046	No Flare Patrol													
		20	2051		2145	No Flare Patrol													
0215	HOLL	20	2143	2143	2205	N20	W49	7448	03	17.1	22	SF	C 2.0	3	E	30		F	
		20	2147		2202	No Flare Patrol													
0216	WATU	21	0031	0034	0042	N12	E72		03	26.4	11	SF			C	0034	20	D	
0217		21	01215	01272	0132	S13	E22	7452	03	22.7	11	SN	C 2.3			88	1.0	E	
	LEAR	21	0121	0127	0132	S13	E23	7452	03	22.8	11	SF	C 2.3	3	E	82			
	MITK	21	0126	0129	0132	S13	E20	7452	03	22.6	6	SN			C	0129	95	1.0	E
0218	MITK	21	0133	0134	0135	S13	E23	7452	03	22.8	2	SN			C	0134	27	0.3	E

16
Mar 93

H α SOLAR FLARES

MARCH 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Area Measurement		Corr	Remarks	
								USAF						Region	Mo Day			(Min)
0219	MITK	21	0141	0141	0142	S13	E23	7452	03	22.8	1	SN		C	0141	14	0.2	D
0220		21	03224	03401	0413	N16	W47	7448	03	17.6	51	1B M 2.1				162	3.5	EF
	LEAR	21	0322	0341	0423	N16	W47	7448	03	17.6	61	1N M 2.1	3	E		114		FE
	MITK	21	0326	0340	0403	N16	W47	7448	03	17.6	37	1B		C	0340	209	3.5	E
0221		21	06402	0643	0656	N18	W51	7448	03	17.4	16	SF C 1.1				39		F
	LEAR	21	0640	0643	0656	N18	W51	7448	03	17.4	16	SF C 1.1	3	E		43		F
	SVTO	21	0642	0643	0655	N17	W51	7448	03	17.4	13	SF C 1.1	3	E		35		F
0222		21	07093	07171	0731	N17	W54	7448	03	17.2	22	SF C 1.8				43		EF
	LEAR	21	0709	0717	0736	N18	W53	7448	03	17.3	27	SF C 1.8	3	E		62		F
	ISTA	21	0710		0735	N16	W56	7448	03	17.0	25	1N		P				E
	SVTO	21	0712	0718	0722	N17	W52	7448	03	17.3	10	SF C 1.8	3	E		24		
0223	SVTO	21	0748	0754	0805	N17	W53	7448	03	17.3	17	SF		3	E		14	
0224	SVTO	21	0805	0807	0813	N17	W52	7448	03	17.4	8	SF		3	E		21	F
0225		21	0816*	0849	0912	N18	W53	7448	03	17.3	56	SF				33		FH
	LEAR	21	0816	0849	0917	N18	W53	7448	03	17.3	61	SF		3	E		42	F
	SVTO	21	0839	0849	0908	N17	W53	7448	03	17.3	29	SF		3	E		24	FH
0226	SVTO	21	1031	1033	1055	S11	E14	7452	03	22.5	24	SF		3	E		11	
0227	KANZ	21	1032	1032	1040	N18	W39	7455	03	18.5	8	SF		2	C			
0228		21	10542	10542	1100	N17	W54	7448	03	17.3	6	SF C 1.4				21		E
	SVTO	21	1054	1054	1100	N17	W55	7448	03	17.3	6	SF C 1.4	3	E		21		E
	KANZ	21	1056	1056	1100	N17	W53	7448	03	17.4	4	SF		2	C			
0229	SVTO	21	1111	1120	1131	S12	E17	7452	03	22.7	20	SF		3	E		11	F
0230	KANZ	21	1203	1207	1211	N15	W63	7448	03	16.7	8	SF		2	C			
0231		21	15061	1508	1512	N18	W56	7448	03	17.4	6	SF C 3.4				24		
	SVTO	21	1506	1508	1512	N17	W56	7448	03	17.4	6	SF		3	E		26	
	RAMY	21	1507	1508	1512	N19	W56	7448	03	17.3	5	SF C 3.4	4	E		22		
0232		21	15224	15266	1534	N18	W54	7448	03	17.5	12	SF				25		
	SVTO	21	1522	1532	1535	N17	W54	7448	03	17.5	13	SF		3	E		13	
	RAMY	21	1526	1526	1534	N19	W54	7448	03	17.5	8	SF		4	E		37	
0233		21	1705	1706	1745	S12	E12	7452	03	22.6	40	SF C 3.3				70		F
	RAMY	21	1705	1706	1745	S12	E13	7452	03	22.7	40	SF C 3.3	3	E		68		F
	PALE	21	1719E	1729U	1834D	S12	E11	7452	03	22.5	75D	SF		3	E		73	F
0234	RAMY	21	1720	1723	1727	N19	W57	7448	03	17.4	7	SF		3	E		20	
0235	RAMY	21	1730	1735	1738	N18	W63	7448	03	16.9	8	SF		3	E		22	
0236		21	1824	18261	1831	N19	W57	7448	03	17.4	7	SF C 2.3				19		EF
	RAMY	21	1824	1826	1830	N19	W58	7448	03	17.3	6	SF C 2.3	3	E		23		
	PALE	21	1824	1827	1833	N19	W56	7448	03	17.5	9	SF C 2.3	3	E		21		E
	HOLL	21	1825E	1828U	1831	N20	W57	7448	03	17.4	60	SF		2	E		13	F
0237	HOLL	21	1828	1858	1920	S11	E07	7452	03	22.3	52	SF		3	E		23	F
0238	PALE	21	2021E	2023U	2028D	N17	W56	7448	03	17.6	7D	SF		3	E		26	
		21	2151		2229	No Flare Patrol												
		21	2312		2327	No Flare Patrol												
		22	0037		0038	No Flare Patrol												
0239	LEAR	22	0100	0107	0135	S12	E03	7452	03	22.3	35	SF C 3.8	3	E		95		F
0240		22	09187	0922U	0934	N17	W70	7448	03	17.1	16	SN						D
	KANZ	22	0918	0922U	0922D	N17	W69	7448	03	17.1	40	SF		2	C			
	ISTA	22	0925		0934	N17	W70	7448	03	17.1	9	SN		P				D

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			CMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Area Measurement			Remarks
						Region	Lat	Chd								Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0241	RAMY	22	1057E	1057U	1101	N15	W68	7448	03	17.3	40	SF		2	E		25		
0242		22	1345	1405	1428	S12	W03	7452	03	22.3	43	SF	C 2.5				50		F
	HOLL	22	1345E	1348U	1350D	S12	W03	7452	03	22.3	50	SF		2	E		28		F
	SVTO	22	1345	1405	1428	S11	W03	7452	03	22.3	43	SF	C 2.5	3	E		73		F
0243	RAMY	22	1445	1446	1455	S12	W04	7452	03	22.3	10	SF	C 2.4	3	E		13		F
0244	HOLL	22	1608	1624	1708	S11	W06	7452	03	22.2	60	SN	C 4.4	3	E		57		F
0245	HOLL	22	1728	1731	1736	S12	W05	7452	03	22.3	8	SF		3	E		20		F
0246		22	17385	1744	1750	S11	W05	7452	03	22.3	12	SF	C 1.3				22		F
	HOLL	22	1738	1744	1750	S11	W05	7452	03	22.3	12	SF	C 1.3	3	E		30		F
	RAMY	22	1743	1744	1749	S11	W05	7452	03	22.4	6	SF	C 1.3	3	E		14		F
0247		22	1947	1948	1952	N20	W82	7448	03	16.5	5	SF					27		
	RAMY	22	1947	1948	1951	N19	W84	7448	03	16.4	4	SF		3	E		25		
	HOLL	22	1947	1948	1952	N20	W81	7448	03	16.6	5	SF		3	E		29		
0248	HOLL	22	2103	2112	2116	N18	W75	7448	03	17.2	13	SF	C 1.2	3	E		19		F
		22	2150		2202	No Flare Patrol													
0249	HOLL	22	2203	2205	2229	S11	W08	7452	03	22.3	26	SF	C 1.1	3	E		56		F
		22	2205		2230	No Flare Patrol													
		22	2308		2331	No Flare Patrol													
0250		23	0129*	0144*	0222	N18	W77	7448	03	17.2	53	SF	M 2.3				44		FY
	PALE	23	0128E	0157U	0248D	N19	W76	7448	03	17.3	80D	SF		3	E		69		YF
	LEAR	23	0129	0144	0204	N18	W78	7448	03	17.1	35	SF	M 2.3	3	E		47		F
	LEAR	23	0234	0237	0240	N18	W77	7448	03	17.2	6	SF		3	E		17		F
0251	WATU	23	0419E	0419	0423	N08	W31	7457	03	20.8	40	SN			P	0419	30	0.4	D
0252	KANZ	23	0742	0746	0754	S11	W15	7452	03	22.2	12	SF		2	C				
0253	ISTA	23	0809		0835	N14	W90	7448	03	16.5	26	1N			P				AE
0254	SVTO	23	1038E	1038U	1046D	N18	W76	7448	03	17.6	80	SF		2	E		62		
		23	1323		1356	No Flare Patrol													

18
Mar 93

H α SOLAR FLARES

MARCH 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)	
	24	2203			2209	No Flare Patrol													
	24	2227			2230	No Flare Patrol													
	24	2324			2355	No Flare Patrol													
	25	0458			0504	No Flare Patrol													
0259	HTPR	25	1001	1003	1007D	S12 W42	7452	03	22.2		60	SF			C	1003	130	1.7	T
0260	HTPR	25	1342	1353	1359	N05 E90	7461	04	1.3		17	F		C	1353				H
0261	HOLL	25	1801	1801	1813	S09 W46	7452	03	22.3		12	SF C 1.1	3	E		10			
	25	2322			2327	No Flare Patrol													
	25	2335			2338	No Flare Patrol													
	25	2346			2350	No Flare Patrol													
	25	2352			2400	No Flare Patrol													
	26	0000			0032	No Flare Patrol													
	26	0046			0059	No Flare Patrol													
	26	0118			0121	No Flare Patrol													
0262	HTPR	26	1239	1245	1250	N06 E78	7461	04	1.4		11	F		C	1245	100			T
0263	HTPR	26	1424	1431	1441	N06 E48	7464	03	30.2		14	1F B 6.3		C	1431	150	2.3		F
	RAMY	26	1431	1432	1436	N04 E49	7464	03	30.3		5	SF B 6.3	3	E		11			F
0264	HOLL	26	1614	1614	1632	N03 E68	7461	03	31.7		18	SF		3	E		34		
	26	2158			2203	No Flare Patrol													
	26	2205			2232	No Flare Patrol													
	26	2301			2322	No Flare Patrol													
	26	2324			2400	No Flare Patrol													
	27	0000			0013	No Flare Patrol													
	27	0015			0020	No Flare Patrol													
	27	0022			0025	No Flare Patrol													
	27	0111			0119	No Flare Patrol													
	27	0451			0502	No Flare Patrol													
0265	HTPR	27	1043	1054	1100	N05 E75	7461	04	2.0		17	SF		C	1054	20			DT</

19
Mar 93.

Mar 93.

Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Area Measurement		Corr	Remarks		
								Region						Mo	Day			(UT)	(10-6 Disk)
0275	SVTO	28	0941	0941	0951	N12	E16	7467A	03	29.6	10	SF		3	E		27		
		28	1011		1024	No Flare Patrol													
0276	RAMY	28	1501	1503	1509	S12	E66	7463	04	2.6	8	SF C 2.1	3	E			41	F	
0277		28	1530	1530	1539	N04	E44	7461	03	31.9	9	SF B 6.6					12	F	
	HOLL	28	1530	1530	1538	N06	E43	7461	03	31.9	8	SF	3	E			12	F	
	RAMY	28	1530	1530	1540	N03	E46	7461	04	1.1	10	SF B 6.6	3	E			13	F	
		28	1741		1751	No Flare Patrol													
0278		28	1913	1915	1930	S12	E63	7463	04	2.5	17	SF B 8.0					21		
	HOLL	28	1913	1915	1930	S13	E63	7463	04	2.5	17	SF B 8.0	3	E			26		
	PALE	28	1914E	1918U	1930	S11	E63	7463	04	2.5	16D	SF	3	E			16		
		28	1931		2033	No Flare Patrol													
		28	2208		2232	No Flare Patrol													
		28	2302		2400	No Flare Patrol													
0279	PALE	29	0045	0047	0111	N05	E42	7461	04	1.2	26	SF C 1.6	3	E			47		
0280	PALE	29	0147	0147	0213	N05	E38	7461	03	31.9	26	SF B 7.1	3	E			17		
0281	PALE	29	0214	0215	0233	N05	E38	7461	03	31.9	19	SF		3	E		29		
0282	PALE	29	0233	0238	0248	N05	E38	7461	03	31.9	15	SF		3	E		34		
0283	PALE	29	0249	0252	0254	N05	E38	7461	03	31.9	5	SF		3	E		16		
0284	PALE	29	0258	0300	0310	N05	E44	7461	04	1.4	12	SF B 7.0	3	E			41		
0285		29	05308	05326	0538	N06	E43	7461	04	1.4	8	SN C 1.7					70	1.7	DF
	MITK	29	0530	0532	0533	N05	E43	7461	04	1.4	3	SB		C	0532		122	1.8	D
	LEAR	29	0530	0532	0535	N05	E43	7461	04	1.4	5	SF C 1.7	3	E			29		
	YUNN	29	0530	0532	0542	N06	E45	7461	04	1.6	12	SN		C			108	1.6	
	LEAR	29	0538	0538	0544	N06	E41	7461	04	1.3	6	SF		3	E		20		F
0286		29	0815	08152	0820	N04	E42	7461	04	1.5	5	SF C 1.2					27		
	KANZ	29	0815	0815	0819	N04	E42	7461	04	1.5	4	SF		2	C				
	LEAR	29	0815	0817	0820	N05	E41	7461	04	1.4	5	SF C 1.2	3	E			27		
0287		29	08311	08332	0844	N05	E41	7461	04	1.4	13	SF C 9.4					64		E
	KANZ	29	0831	0835	0851	N04	E41	7461	04	1.4	20	SF		2	C				
	SVTO	29	0832	0833	0841	N05	E41	7461	04	1.4	9	SN C 9.4	3	E			60		E
	LEAR	29	0832	0833	0841	N05	E41	7461	04	1.4	9	SF C 9.4	3	E			68		
0288	KANZ	29	0912	0920	0945	S12	E56	7463	04	2.6	33	SF		2	C				
0289	SVTO	29	1023	1023	1044D	S10	E57	7463	04	2.7	21D	SF B 6.2	2	E			28		
0290	KANZ	29	1103E		1103D	N04	E35	7461	04	1.1	21D	SF		2	C				
0291	RAMY	29	1252	1256	1315	N04	E36	7461	04	1.2	23	SF M 1.0	3	E			75		F
0292		29	1350	13511	1418D	S11	E54	7463	04	2.6	28D	SF					18		
	RAMY	29	1350	1351	1418D	S12	E53	7463	04	2.6	28D	SF		3	E		17		
	SVTO	29	1350	1352	1400D	S10	E54	7463	04	2.6	10D	SF		3	E		19		
0293	RAMY	29	1723E	1723U	1736	N03	E32	7461	04	1.1	13D	SF C 7.1	3	E			36		F
		29	1749		1750	No Flare Patrol													
		29	1833		1849	No Flare Patrol													
		29	1853		1918	No Flare Patrol													
		29	1947		2113	No Flare Patrol													
		29	2115		2210	No Flare Patrol													
		29	2253		2308	No Flare Patrol													
		29	2347		2400	No Flare Patrol													
		30	0000		0000	No Flare Patrol													

20
Mar 93

H α SOLAR FLARES

MARCH 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Area Measurement			Remarks
																Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0294		30	0100	0103	0140	N04	E28	7461	04	1.1	40	1N	M 2.6				122	1.1	F
	LEAR	30	0100	0103	0145	N04	E31	7461	04	1.3	45	1B	M 2.6	3	E		233		F
	PALE	30	0102E	0107U	0135D	N06	E25	7461	03	31.9	330	1F		2	E		116		
	HOLL	30	0104E	0106U	0107D	N02	E28	7461	04	1.1	3D	SN		1	E		46		F
	YUNM	30	0122E	0122U	0134	N04	E30	7461	04	1.3	12D	SN			P	0122	92	1.1	F
0295	LEAR	30	0114	0116	0123	S11	E48	7463	04	2.7	9	SF		3	E		19		
0296		30	03292	03323	0338	S12	E46	7463	04	2.6	9	SN	C 1.9				24	0.3	
	LEAR	30	0329	0332	0340	S11	E47	7463	04	2.7	11	SF	C 1.9	3	E		27		
	MITK	30	0331	0335	0337	S13	E46	7463	04	2.6	6	SN			C	0335	20	0.3	
		30	0610		0634	No Flare Patrol													
0297		30	07433	07461	0756	S12	E42	7463	04	2.5	13	SF	B 8.3				26	0.7	E
	HTPR	30	0743	0746	0757	S13	E40	7463	04	2.3	14	SF			C	0746	50	0.7	E
	SVTO	30	0745	0747	0756	S10	E44	7463	04	2.6	11	SF	B 8.3	3	E		16		
	LEAR	30	0746	0747	0755	S13	E41	7463	04	2.4	9	SF		3	E		13		
0298		30	11273	11296	1141	S12	E39	7463	04	2.4	14	SF	B 6.1				31	0.5	D
	HTPR	30	1127	1135	1140	S13	E40	7463	04	2.5	13	SF			C	1135	40	0.5	D
	KANZ	30	1129	1129	1141	S12	E39	7463	04	2.4	12	SF		2	C				
	RAMY	30	1130	1134	1141	S12	E39	7463	04	2.4	11	SF	B 6.1	3	E		22		
0299	HTPR	30	1220	1223	1229	S13	E40	7463	04	2.5	9	SF			C	1223	10	0.1	D
0300		30	12531	1255	1300	N06	E26	7461	04	1.5	7	SN	C 3.3				56	0.8	D
	HTPR	30	1253	1255	1300	N06	E25	7461	04	1.4	7	SN			C	1255	70	0.8	D
	RAMY	30	1254	1255	1259	N05	E26	7461	04	1.5	5	SF	C 3.3	3	E		42		
0301	HTPR	30	1333	1335	1339	S13	E40	7463	04	2.6	6	SF			C	1335	20	0.3	
0302	HTPR	30	1520	1549	1708D	N06	E25	7461	04	1.5	108D	SF			C	1549	40	0.4	E
0303	HTPR	30	1640	1643	1650	S13	E40	7463	04	2.7	10	SN			C	1643	60	0.7	T
0304	HOLL	30	1744	1747	1756	N04	E20	7461	04	1.2	12	SF		3	E		14		
0305	HOLL	30	1855	1858	1900	S13	E39	7463	04	2.7	5	SF		3	E		16		
		30	1911		1916	No Flare Patrol													
		30	1921		1932	No Flare Patrol													
0306	HOLL	30	1940	1943	1959	N04	E19	7461	04	1.2	19	SF		3	E		26		F
		30	1958		2044	No Flare Patrol													
0307	HOLL	30	2013	2033	2049	N03	E22	7461	04	1.5	36	SF	C 1.5	3	E		45		F
0308	HOLL	30	2037	2052	2104	S14	E34	7463	04	2.4	27	SF		3	E		30		
		30	2046		2205	No Flare Patrol													
0309	HOLL	30	2056	2058	2142	N04	E17	7461	04	1.1	46	SF	C 1.4	3	E		35		F
		30	2207		2232	No Flare Patrol													
0310	HOLL	30	2226	2229	2248	N04	E17	7461	04	1.2	22	SF	C 1.4	3	E		21		F
0311		30	22584	23002	2316	S14	E34	7463	04	2.5	18	SF					22		F
	PALE	30	2258	2300	2314	S14	E36	7463	04	2.7	16	SF		3	E		23		
	HOLL	30	2302	2302	2318	S13	E32	7463	04	2.4	16	SF		3	E		21		F
		30	2309		2400	No Flare Patrol													
0312		30	2330*	2332*	2355	N02	E16	7461	04	1.2	25	SF	B 5.3				26		F
	HOLL	30	2330	2332	2403	N03	E17	7461	04	1.2	33	SF	B 5.3	3	E		36		F
	LEAR	30	2332	2332	2345	N01	E16	7461	04	1.2	13	SF	B 5.3	3	E		16		F
	PALE	30	2332	2333	2350	N04	E18	7461	04	1.3	18	SF	B 5.3	3	E		34		
	LEAR	30	2347	2347	2401	N02	E15	7461	04	1.1	14	SF		3	E		18		

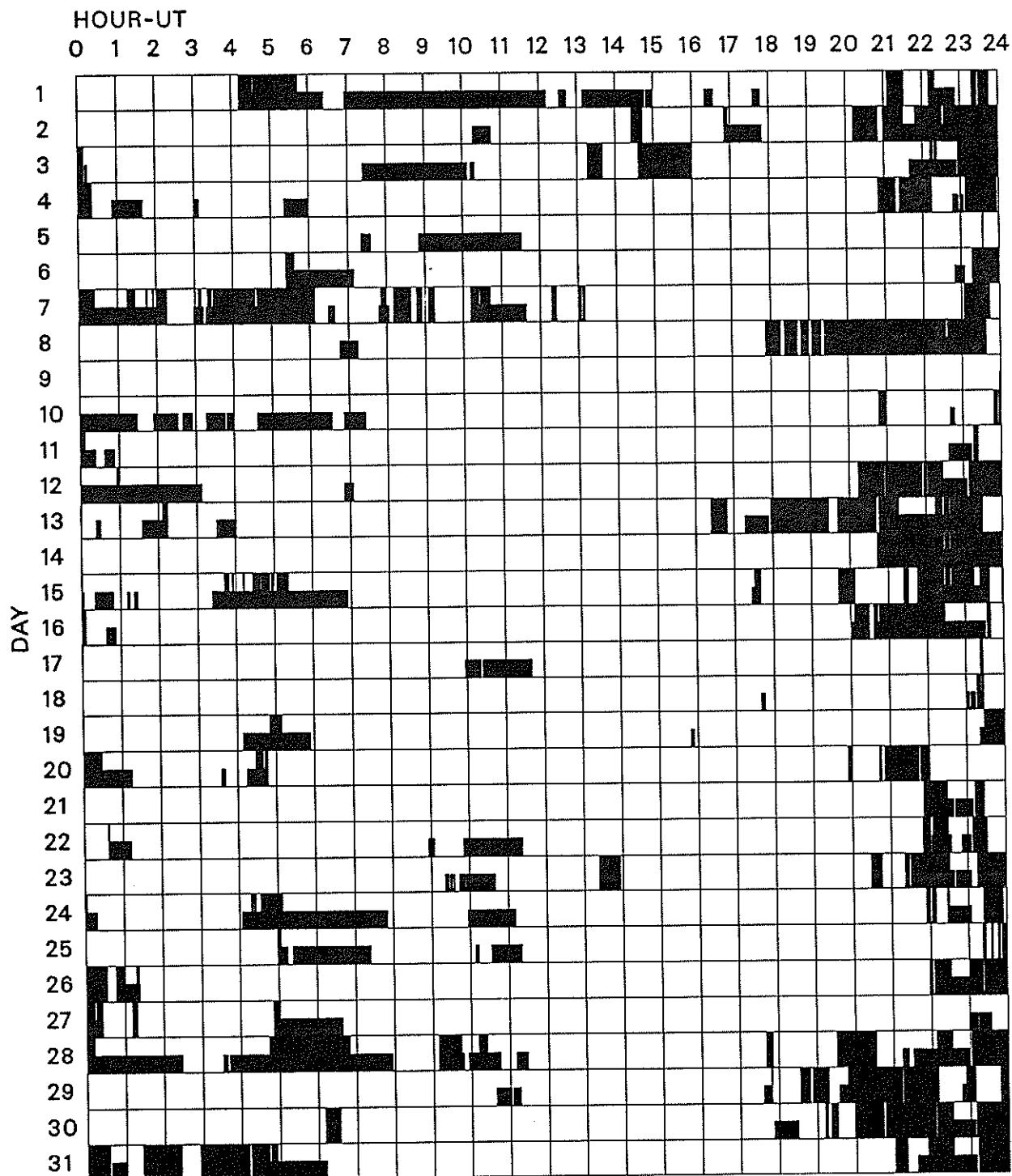
Mar 93

Grp #	Sta	Start Day	Max (UT)	End (UT)	NOAA/USAF			CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
					Lat	CMD	Region								Apparent. (10-6 Disk)	Corr (Sq Deg)	
		31 0000		0034	No Flare Patrol												
0313		31 0027	00286	0054	N03	E16	7461	04	1.2	27	SF C 1.0				65		F
	HOLL	31 0027	0028	0055	N04	E16	7461	04	1.2	28	SF	2	E		40		
	PALE	31 0027	0029U	0057	N05	E18	7461	04	1.4	30	SF	3	E		56		
	LEAR	31 0027	0034	0049	N01	E15	7461	04	1.1	22	SF C 1.0	3	E		99		F
		31 0125		0226	No Flare Patrol												
0314		31 0206	0208	0219	S13	E31	7463	04	2.4	13	SF				21		
	LEAR	31 0206	0208	0218	S15	E31	7463	04	2.4	12	SF	3	E		17		
	PALE	31 0206	0208	0220	S11	E31	7463	04	2.4	14	SF	3	E		25		
		31 0254		0412	No Flare Patrol												
0315		31 03451	03471	0429	N04	E16	7461	04	1.3	44	SN C 3.8				77		EF
	LEAR	31 0345	0347	0429	N02	E15	7461	04	1.3	44	SF C 3.8	3	E		72		FE
	PALE	31 0346	0348	04100	N05	E16	7461	04	1.3	24D	SN	2	E		82		E
		31 0414		0443	No Flare Patrol												
		31 0445		0455	No Flare Patrol												
0316		31 0609	0611	0628	S11	E28	7463	04	2.4	19	SF C 1.3				64		F
	LEAR	31 0609	0611	0626	S11	E28	7463	04	2.4	17	SF C 1.3	3	E		64		F
	KANZ	31 0613E	0613U	0629	S11	E27	7463	04	2.3	16D	SF	2	C				
0317	HTPR	31 0637	0645	0714	N05	E12	7461	04	1.2	37	SF		C	0645	40	0.4	E
0318	LEAR	31 0843	0843	0848	N06	E07	7461	03	31.9	5	SF	3	E		21		
0319		31 09011	09053	0918	S11	E29	7463	04	2.5	17	SF B 5.7				32	0.2	FU
	KANZ	31 0901	0905	0917	S11	E28	7463	04	2.5	16	SF	2	C				
	HTPR	31 0901	0908	0917	S12	E30	7463	04	2.6	16	SN		C	0908	20	0.2	U
	LEAR	31 0902	0908	0920	S11	E29	7463	04	2.5	18	SF B 5.7	3	E		43		F
0320	HTPR	31 0942	0947	0953	S12	E30	7463	04	2.7	11	SF		C	0947	20	0.2	T
0321		31 1143*	1147*	1158	S11	E27	7463	04	2.5	15	SF B 4.3				17	0.2	EFT
	HTPR	31 1143	1147	1151	S12	E30	7463	04	2.7	8	SF		C	1147	20	0.2	ET
	SVTO	31 1144E	1157U	1204D	S10	E25	7463	04	2.4	20D	SF	2	E		18		F
	RAMY	31 1146	1147	1150	S11	E25	7463	04	2.4	4	SF	3	E		15		
	HTPR	31 1154	1157	1202	S12	E30	7463	04	2.7	8	SF		C	1157	20	0.2	ET
	RAMY	31 1155	1156	1207	S11	E25	7463	04	2.4	12	SF B 4.3	3	E		13		
0322	HOLL	31 1421	1422	1435	N04	E08	7461	04	1.2	14	SF B 4.8	3	E		15		F
0323		31 1502*	15116	1526	S12	E27	7463	04	2.7	24	SF B 8.0				17	0.3	EFT
	HTPR	31 1502	1513	1535	S12	E30	7463	04	2.9	33	SF		C	1513	30	0.3	ET
	RAMY	31 1510	1511	1519	S11	E26	7463	04	2.6	9	SF	3	E		10		
	HOLL	31 1510	1515	1522	S12	E26	7463	04	2.6	12	SF B 8.0	3	E		12		F
	SVTO	31 1516	1517	1529	S12	E25	7463	04	2.5	13	SF	3	E		15		F
0324	SVTO	31 1526	1526	1531	N04	E07	7461	04	1.2	5	SF	3	E		22		F
0325	HOLL	31 1706	1709	1711	S11	E21	7463	04	2.3	5	SF	3	E		16		H
0326	HOLL	31 2020	2030	2041	S12	E23	7463	04	2.6	21	SF B 4.5	3	E		30		
		31 2102		2120	No Flare Patrol												
		31 2152		2233	No Flare Patrol												
		31 2311		2400	No Flare Patrol												

22
Mar 93

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

MARCH 1993



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.

Athens
Bucharest
Haute Provence

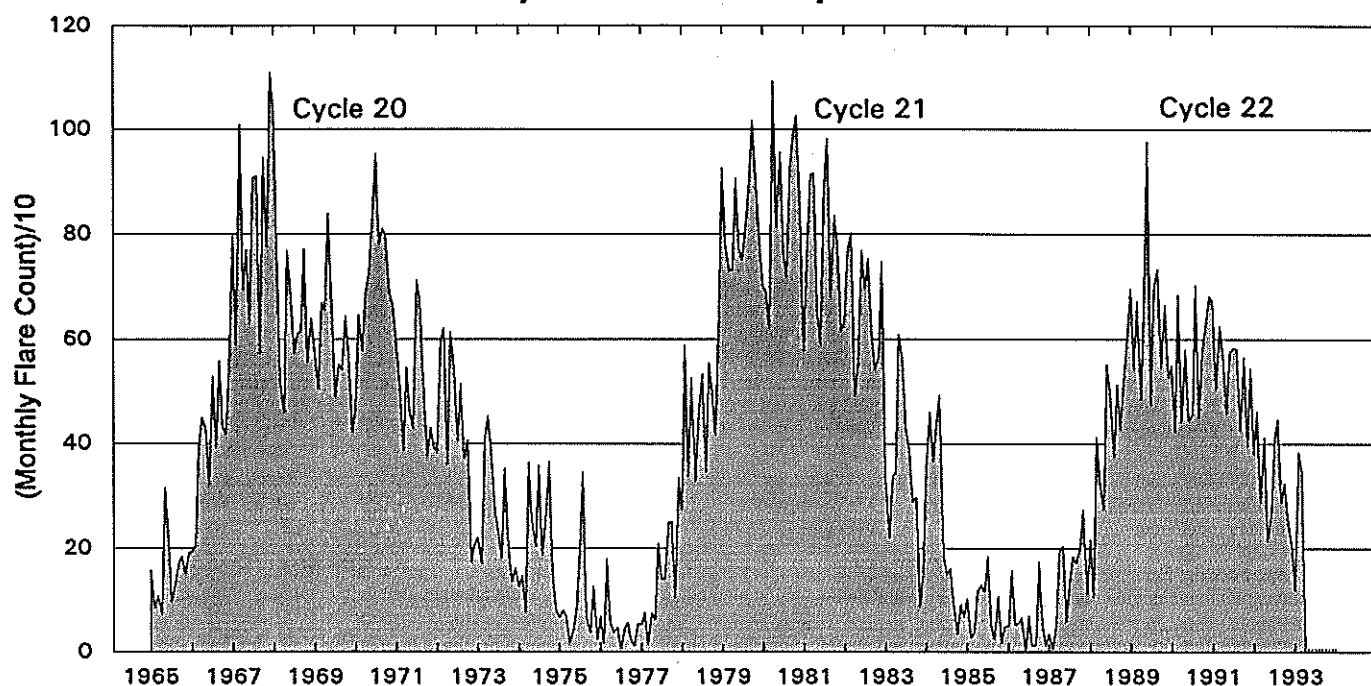
Holloman
Istanbul
Kandilli

Kanzelhoehe
Larissa
Learmonth

Mitaka
Palehua
Ramey

San Vito
Watukosek
Yunnan

Monthly Counts of Grouped Solar Flares



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1965	158	85	110	74	315	231	99	127	173	184	150	193	1899
1966	194	205	390	449	429	323	528	391	558	432	417	543	4859
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	518	587	4816
1989	695	544	672	488	691	977	474	699	733	547	665	526	7711
1990	550	424	684	442	580	445	454	703	449	574	623	682	6610
1991	672	503	625	570	458	574	582	581	425	565	396	544	6495
1992	380	462	287	412	214	271	413	447	287	325	248	206	3952
1993	121	384	347										852

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

24
Mar 93

SOLAR RADIO EMISSION Outstanding Occurrences

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
01	127	TORN	43 NS	1007.0		145.0		4.0		V=0
	235	CUBA	44 NS	1508.0E		382.00		11.0		
	280	CUBA	44 NS	1508.0E		382.00		13.0		
	9100	GORK	20 GRF	0554.0	0645.0	141.0	9.0			
	2950	GORK	22 GRF	0619.0	0624.0	17.0	4.0			
	9100	GORK	1 S	1031.8	1032.8	3.1	3.0			
	2950	GORK	1 S	1032.2	1033.0	1.5	1.0			
	15400	SGMR	20 GRF	1649.0	1656.0	38.0	34.0			QL=4 ST=2 TYP=2
	2695	SGMR	20 GRF	1649.0	1656.0	38.0	43.0			QL=4 ST=2 TYP=2
	8800	SGMR	20 GRF	1649.0	1656.0	38.0	42.0			QL=4 ST=2 TYP=2
	4995	SGMR	20 GRF	1649.0	1651.0	34.0	30.0			QL=4 ST=2 TYP=2
02	100	HIRA	43 NS	0300.0	0545.0	300.00	50.0	10.0		0
	200	HIRA	43 NS	0307.0	0408.0	127.0	30.0	15.0		0
	127	TORN	43 NS	0728.0		452.0		3.0		V=1
	245	LEAR	8 S	0124.0	0124.0	U	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0124.0	0124.0	U	82.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0315.0	0316.0	2.0	13.0			QL=4 ST=3 TYP=3
	410	PALE	8 S	0316.0	0316.0	1.0	83.0			QL=4 ST=3 TYP=3
	245	LEAR	8 S	0425.0	0425.0	U	130.0			QL=4 ST=2 TYP=3
	200	HIRA	46 C	0457.0	0511.2	17.0	40.0	10.0		0
	2950	GORK	1 S	0513.4	0513.7	0.8	3.0			
	410	LEAR	8 S	0602.0	0602.0	2.0	72.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0602.0	0603.0	2.0	77.0			QL=4 ST=2 TYP=3
	100	HIRA	46 C	0602.3	0602.6	3.0	1000.00			
	200	HIRA	46 C	0602.5	0603.0	3.0	230.0	40.0		WL
	2950	GORK	1 S	0814.2	0816.3	3.1	1.0			
	204	IZHI	7 C	0816.1	0816.3	0.5	54.0	27.0		
	204	IZHI	41 F	0850.0	0850.2	0.8	150.0			
	2950	GORK	20 GRF	0958.0	1006.0	17.0	2.0			
	204	IZHI	42 SER	1024.8	1025.0	5.0	260.0			
	127	TORN	8 S	1024.9	1025.00	1.4	340.00	170.0		
	245	LEAR	8 S	1028.0	1028.0	1.0	93.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1028.0	1028.0	1.0	120.0			QL=4 ST=2 TYP=3
	3013	IZHI	5 S	1105.5	1107.0	5.0	5.0	3.0		
	2950	GORK	2 S/F	1106.8	1107.0	1.3	6.0			
	204	IZHI	41 F	1107.0	1107.4	1.0	670.0			
	127	TORN	4 S/F	1107.3	1107.7	1.4	510.00	140.0		
	127	TORN	4 S/F	1135.9	1136.4	1.2	100.0	50.0		
	2850	CRIM	8 S	1211.8	1212.2	2.0	20.0			
	245	SGMR	8 S	1212.0	1212.0	U	270.0			QL=4 ST=2 TYP=3
	33	UPIC	8 S	1350.9	1351.1	0.6				
	9500	CUBA	1 S	1718.1	1718.7	0.9	5.0	2.0		
	410	PALE	8 S	1955.0	1956.0	2.0	13.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1956.0	1956.0	2.0	21.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1956.0	1956.0	1.0	64.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2030.0	2030.0	1.0	50.0			QL=4 ST=2 TYP=3
	9500	CUBA	46 C	2039.0	2046.0		69.0			
	9500	CUBA	46 C	2039.0	2150.1	73.00	261.0			2152 OFF
	9500	CUBA	46 C	2039.0	2113.8		113.0			
	8800	PALE	4 S/F	2040.0	2045.0	7.0	38.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2040.0	2045.0	7.0	28.0			QL=2 ST=2 TYP=3
	2800	PENT	28 PRE	2040.1	2045.3	20.4	19.2	10.0		
	15400	PALE	4 S/F	2041.0	2043.0	6.0	44.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	2041.0	2045.0	6.0	17.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	2041.0	2045.0	17.0	71.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	2042.0	2045.0	7.0	52.0			QL=4 ST=2 TYP=3
	2800	PENT	28 PRE	2100.5	2112.9	20.8	44.4	20.0		
	8800	SGMR	4 S/F	2103.0	2138.0	49.0	150.0			QL=2 ST=2 TYP=5
	4995	SGMR	4 S/F	2104.0	2149.0	54.0	230.0			QL=2 ST=2 TYP=5
	410	PALE	4 S/F	2107.0	2115.0	10.0	16.0			QL=4 ST=3 TYP=3
	15400	PALE	4 S/F	2109.0	2149.0	52.0	150.0			QL=4 ST=3 TYP=5
	610	PALE	4 S/F	2110.0	2113.0	5.0	23.0			QL=4 ST=3 TYP=3
	2695	PALE	4 S/F	2110.0	2149.0	56.0	180.0			QL=4 ST=3 TYP=5
	1415	PALE	4 S/F	2111.0	2112.0	4.0	26.0			QL=2 ST=3 TYP=3
	2695	SGMR	4 S/F	2111.0	2149.0	46.0	180.0			QL=2 ST=2 TYP=5
	8800	PALE	4 S/F	2111.0	2115.0	55.0	46.0			QL=4 ST=3 TYP=5
	4995	PALE	4 S/F	2111.0	2148.0	55.0	170.0			QL=2 ST=3 TYP=5
	15400	SGMR	4 S/F	2112.0	2112.0	168.0	46.0			QL=4 ST=1 TYP=3

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

Outstanding Occurrences

25
Mar 93

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
02	2800	PENT	42 SER	2121.3	2131.8	14.0	133.0	62.0		
	1415	SGMR	20 GRF	2130.0	2149.0	25.0	86.0			QL=2 ST=2 TYP=2
	2800	PENT	42 SER	2135.2	2138.1	10.7	169.0	80.0		
	15400	SGMR	4 S/F	2137.0	2138.0	8.0	67.0			QL=2 ST=2 TYP=3
	2800	PENT	42 SER	2145.8	2149.3	21.9	192.0	66.0		
	2800	PENT	29 PBI	2208.0	2227.0	144.5	37.4	18.0		
03	127	TORN	43 NS	1046.0		254.0		3.0		V=1
	204	IZMI	43 NS	1126.0		35.00		10.0		
	4995	PALE	4 S/F	0343.0	0345.0	3.0	20.0			QL=2 ST=2 TYP=3
	15400	PALE	8 S	0343.0	0345.0	2.0	24.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0344.0	0345.0	2.0	41.0			QL=4 ST=2 TYP=3
	9100	GORK	20 GRF	0603.0	0604.5	8.1	5.0			
	9100	GORK	1 S	0640.7	0641.2	2.6	7.0			
	2950	GORK	1 S	0705.7	0708.4	6.3	1.0			
	9100	GORK	1 S	0705.8	0706.2	1.7	5.0			
	950	GORK	21 GRF	1002.1	1034.6	117.9	7.0			
	9100	GORK	20 GRF	1030.0	1109.9	90.00	9.0			
	950	GORK	1 S	1032.7	1032.8	1.9	4.0			
	950	GORK	1 S	1048.6	1049.4	1.7	3.0			
	204	IZMI	42 SER	1100.5	1101.2	2.0	120.0			
	2950	GORK	1 S	1147.5	1148.2	2.5	3.0			
04	127	TORN	43 NS	1016.0		240.0		3.0		V=1
	280	CUBA	44 NS	1328.0E		482.00		20.0		
	235	CUBA	44 NS	1328.0E		482.00		14.0		
	245	LEAR	8 S	0326.0	0326.0	U	50.0			QL=4 ST=2 TYP=3
	9100	GORK	1 S	0452.7	0453.0	3.0	9.0			
	9100	GORK	1 S	0644.3	0645.7	3.5	4.0			
	260	ONDR	40 F	0909.0	1034.0	180.0	190.0			
	950	GORK	21 GRF	0913.9	1032.6	166.1	9.0			
	2950	GORK	22 GRF	0936.0	1022.00	144.00	15.0			
	9100	GORK	23 GRF	1000.0	1030.6	66.0	30.0			
	9100	GORK	41 F	1000.6	1001.1	2.3	16.0			
	9100	GORK	41 F	1000.6	1002.1		16.0			
	3013	IZMI	5 S	1001.5	1002.0	4.0	9.0	4.0		
	2850	CRIM	21 GRF	1001.5	1115.3		20.0	7.0		
	2850	CRIM	1 S	1001.5	1002.7	2.0	5.0	1.0		
	9100	GORK	22 GRF	1007.6	1010.8	5.4	14.0			
	9100	GORK	2 S/F	1015.3	1015.8	1.6	18.0			
	204	IZMI	42 SER	1029.2	1035.4	7.0	350.0			
	127	TORN	48 C	1029.7		7.0	330.00	60.0		
	536	ONDR	48 C	1034.0	1035.0	5.0	360.0			
	600	HUMN	2 S/F	1034.0	1035.5	5.0	75.0	8.0		
	950	GORK	4 S/F	1034.1	1035.1	3.4	107.0			
	9100	GORK	1 S	1034.2	1035.2	2.1	11.0			
	610	SVTO	8 S	1035.0	1035.0	U	91.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1035.0	1035.0	U	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1035.0	1036.0	1.0	50.0			QL=4 ST=2 TYP=3
	808	ONDR	29 PBI	1035.0	1035.5	5.0	146.0			
	33	UPIC	46 C	1035.5	1036.3	1.5				
	9100	GORK	1 S	1112.3	1113.4	7.9	7.0			
	9100	GORK	7 C	1148.8	1149.3	1.0	70.0			
	9100	GORK	7 C	1148.8	1149.5		46.0			
	9100	GORK	7 C	1151.9	1152.1	0.7	11.0			
	9100	GORK	7 C	1151.9	1152.4		14.0			
	9100	GORK	42 SER	1157.4	1158.2	2.0	7524.0			
	9100	GORK	42 SER	1157.4	1158.4		4875.0			
	600	HUMN	42 SER	1216.0	1254.0	56.0	35.0	6.0		
	4995	SVTO	4 S/F	1220.0	1221.0	8.0	22.0			QL=4 ST=2 TYP=3
	610	SVTO	20 GRF	1220.0	1226.0	16.0	40.0			QL=4 ST=2 TYP=2
	4995	SGMR	4 S/F	1220.0	1221.0	21.0	38.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1221.0	1221.0	U	24.0			QL=2 ST=2 TYP=3
	2695	SGMR	20 GRF	1221.0	1242.0	22.0	30.0			QL=4 ST=2 TYP=2
	8800	SGMR	4 S/F	1221.0	1224.0	20.0	50.0			QL=4 ST=2 TYP=3
	15400	SGMR	20 GRF	1221.0	1241.0	20.0	40.0			QL=4 ST=2 TYP=2
	1415	SGMR	4 S/F	1221.0	1221.0	699.0	18.0			QL=4 ST=1 TYP=3
	245	SVTO	4 S/F	1222.0	1223.0	3.0	79.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1222.0	1223.0	1.0	28.0			QL=4 ST=2 TYP=3

26
Mar 93

SOLAR RADIO EMISSION Outstanding Occurrences

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
04	8800	SVTO	8 S	1223.0	1223.0	1.0	41.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1223.0	1223.0	18.0	71.0			QL=4 ST=2 TYP=3
	127	TORN	4 S/F	1223.7	1224.00	2.2	320.00	70.0		
	33	UPIC	42 SER	1224.0		106.0				
	410	SGMR	4 S/F	1229.0	1230.0	9.0	46.0			QL=4 ST=2 TYP=3
	33	UPIC	48 C	1232.6		19.2				
	245	SVTO	4 S/F	1249.0	1253.0	5.0	31.0			QL=2 ST=2 TYP=3
	410	SVTO	4 S/F	1250.0	1253.0	4.0	190.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1251.0	1253.0	4.0	130.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1253.0	1253.0	U	42.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1253.0	1253.0	U	51.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1300.0	1300.0	1.0	97.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1300.0	1300.0	1.0	88.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1341.0	1342.0	3.0	58.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1341.0	1342.0	3.0	45.0			QL=4 ST=2 TYP=3
	127	TORN	7 C	1341.9	1342.6	2.5	1100.00	100.0		
	15400	SGMR	8 S	1342.0	1342.0	2.0	47.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1816.0	1816.0	U	100.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	1816.0	1816.0	U	88.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1936.0	1938.0	2.0	63.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1938.0	1938.0	U	54.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2044.0	2045.0	1.0	56.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2045.0	2045.0	U	95.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2124.0	2124.0	1.0	68.0			QL=4 ST=2 TYP=3
05	204	IZMI	44 NS	0700.0E		300.00		10.0		
	127	TORN	43 NS	0900.0		360.0		20.0		V=1
	280	CUBA	44 NS	1357.0E		183.00		23.0		
	235	CUBA	44 NS	1357.0E		183.00		16.0		
	245	LEAR	8 S	0111.0	0112.0	1.0	190.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0111.0	0112.0	1.0	190.0			QL=4 ST=2 TYP=3
	2950	GORK	1 S	0537.7	0539.2	4.7	3.0			
	2950	GORK	3 S	0621.6	0622.0	0.9	24.0			
	950	GORK	4 S/F	0621.7	0621.9	6.4	108.0			
	9100	GORK	1 S	0621.8	0622.0	2.1	11.0			
	2950	GORK	29 PBI	0622.5	0622.5	18.3	7.0			
	2850	CRIM	1 S	0631.4	0632.0	1.3	25.0	8.0		
	204	IZMI	41 F	0725.0	0725.5		54.0			
	260	ONDR	40 F	0900.0	1003.0	210.0	80.0			
	950	GORK	20 GRF	0914.1	0945.8	45.9	5.0			
	3013	IZMI	1 S	0939.5	0940.4	3.0	6.0	3.0		
	2950	GORK	22 GRF	0943.0	0945.5	87.5	4.0			
	127	TORN	46 C	0943.4	0944.0	2.5	220.0	60.0		
	9100	GORK	22 GRF	0943.6	0947.0	15.9	11.0			
	950	GORK	20 GRF	1011.0	1028.8	73.0	12.0			
	9100	GORK	20 GRF	1051.8	1053.5	11.2	4.0			
	2950	GORK	23 GRF	1116.0	1130.0	44.0	7.0			
	3013	IZMI	21 GRF	1123.0	1130.0	15.0	8.0			
	3013	IZMI	7 C	1123.0	1123.7	2.0	19.0	8.0		
	2850	CRIM	7 C	1123.2	1124.2					
	2950	GORK	45 C	1123.2	1124.2		6.0			
	2850	CRIM	7 C	1123.2	1123.5	1.5	7.0	2.0		
	2950	GORK	45 C	1123.2	1123.5	1.8	7.0			
	9100	GORK	22 GRF	1123.2	1130.8	12.0	12.0			
	33	UPIC	46 C	1318.9	1319.2	1.0				
	245	SGMR	4 S/F	1347.0	1350.0	3.0	56.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1350.0	1350.0	U	85.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1413.0	1416.0	5.0	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1414.0	1416.0	2.0	51.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1554.0	1556.0	4.0	55.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1556.0	1556.0	U	63.0			QL=4 ST=2 TYP=3
	9500	CUBA	4 S/F	1608.2	1609.6	4.8	107.0			PLANIMETRO
	245	SGMR	49 GB	1613.0	1613.0	1.0	520.0			QL=4 ST=2 TYP=6
	8800	SGMR	4 S/F	1658.0	1659.0	3.0	120.0			QL=2 ST=2 TYP=3
	4995	SGMR	8 S	1659.0	1659.0	2.0	37.0			QL=2 ST=2 TYP=3
	15400	SGMR	8 S	1659.0	1659.0	2.0	63.0			QL=2 ST=2 TYP=3
	245	PALE	4 S/F	1917.0	1919.0	3.0	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1918.0	1919.0	2.0	49.0			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

27
Mar 93

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
06	204	IZMI	43 NS	0700.0		300.0		40.0		
	127	TORN	43 NS	0807.0		413.0		210.0		V=1
	245	SVTO	43 NS	0816.0	0835.0	944.0	79.0			QL=4 ST=1 TYP=1
	260	ONDR	44 NS	0900.0E	1103.5	210.00	127.0			
	245	LEAR	43 NS	0914.0	0916.0	24.0	98.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1636.0	1649.0	26.0	80.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1817.0	1923.0	361.0	67.0			QL=4 ST=2 TYP=1
	204	IZMI	4 S/F	0741.5	0742.3	1.5	300.0			
	3013	IZMI	22 GRF	0814.0	0817.0	20.0	8.0			
	9100	GORK	20 GRF	0814.3	0815.2	9.7	5.0			
	2950	GORK	20 GRF	0814.5	0817.0	21.5	5.0			
	204	IZMI	42 SER	0825.0	0838.0	15.0	180.0			
	950	GORK	21 GRF	0929.9	1030.0	147.1	7.0			
	3013	IZMI	7 C	0940.5	0941.8	4.0	6.0	3.0		
	9100	GORK	3 S	0941.3	0941.5	2.7	27.0			
	2950	GORK	1 S	0941.5	0942.0	1.0	2.0			
	204	IZMI	5 S	0951.5	0952.0	0.8	250.0	125.0		
	9100	GORK	5 S	1000.0	1009.2	18.0	37.0			
	204	IZMI	42 SER	1020.0	1036.0	17.0	480.0			
	2950	GORK	23 GRF	1022.6	1042.0	92.8	10.0			
	2850	CRIM	28 PRE	1025.0	1033.3	8.2	4.7	1.0		
	9100	GORK	46 C	1027.2	1034.3	17.8	112.0			
	9100	GORK	46 C	1027.2	1038.7		71.0			
	3013	IZMI	7 C	1033.0	1034.2	2.5	51.0	25.0		
	2850	CRIM	3 S	1033.5	1034.1	2.0	28.0	9.0		
	2950	GORK	46 C	1033.7	1038.2		9.0			
	2950	GORK	46 C	1033.7	1034.3	8.3	20.0			
	950	GORK	1 S	1034.1	1034.2	0.5	14.0			
	33	UPIC	32 ABS	1035.0	1040.0	25.0				
	2850	CRIM	30 PBI	1035.5	1036.5	32.5	11.0	4.0		
	2850	CRIM	40 F	1037.9	1038.2	0.9	7.0	2.0		
	2950	GORK	29 PBI	1045.0	1045.0	6.4	36.0			
	245	SGMR	8 S	1354.0	1356.0	2.0	55.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1354.0	1355.0	1.0	55.0			QL=4 ST=2 TYP=3
	410	PALE	49 GB	2015.0	2023.0	38.0	1600.0			QL=4 ST=2 TYP=7
	610	PALE	49 GB	2015.0	2024.0	35.0	700.0			QL=4 ST=2 TYP=7
	610	SGMR	49 GB	2015.0	2024.0	30.0	1000.0			QL=4 ST=2 TYP=7
	410	SGMR	49 GB	2015.0	2033.0	31.0	1600.0			QL=4 ST=2 TYP=7
	2695	SGMR	4 S/F	2018.0	2023.0	28.0	370.0			QL=4 ST=2 TYP=5
	1415	PALE	4 S/F	2018.0	2033.0	50.0	330.0			QL=2 ST=2 TYP=5
	2695	PALE	4 S/F	2018.0	2023.0	89.0	370.0			QL=4 ST=2 TYP=5
	1415	SGMR	4 S/F	2018.0	2033.0	222.0	290.0			QL=4 ST=1 TYP=5
	8800	SGMR	4 S/F	2018.0	2024.0	222.0	160.0			QL=4 ST=1 TYP=3
	4995	SGMR	4 S/F	2018.0	2024.0	222.0	350.0			QL=4 ST=1 TYP=3
	9500	CUBA	46 C	2018.0	2041.2	43.0	197.0	18.0		
	9500	CUBA	46 C	2018.0	2024.5		173.0			
	2800	PENT	4 S/F	2019.5	2033.4	31.3	296.0	139.0		
	1415	SGMR	4 S/F	2022.0	2033.0	28.0	290.0			QL=4 ST=2 TYP=5
	4995	SGMR	4 S/F	2022.0	2024.0	58.0	350.0			QL=4 ST=2 TYP=5
	4995	PALE	4 S/F	2022.0	2024.0	81.0	280.0			QL=2 ST=2 TYP=5
	15400	PALE	4 S/F	2022.0	2050.0	97.0	130.0			QL=4 ST=2 TYP=5
	15400	SGMR	4 S/F	2023.0	2024.0	43.0	77.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	2023.0	2024.0	45.0	160.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	2023.0	2037.0	43.0	500.0			QL=4 ST=2 TYP=7
	8800	PALE	4 S/F	2023.0	2024.0	74.0	150.0			QL=4 ST=2 TYP=5
	245	PALE	8 S	2024.0	2024.0	1.0	320.0			QL=2 ST=2 TYP=3
	2800	PENT	29 PBI	2051.0	2053.0	129.0	69.6	25.0		
	2800	PENT	4 S/F	2059.9	2101.5	5.4	19.2	6.0		
	9500	CUBA	29 PBI	2101.1		55.00	133.0			2156 OFF
	2800	PENT	4 S/F	2116.9	2119.1	5.0	105.1	37.0		
	2800	PENT	3 S	2226.7	2228.0	2.7	27.0	6.0		
	8800	PALE	8 S	2227.0	2227.0	1.0	32.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2227.0	2227.0	1.0	21.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	2227.0	2227.0	1.0	28.0			QL=2 ST=2 TYP=3
	15400	PALE	8 S	2227.0	2227.0	1.0	25.0			QL=4 ST=2 TYP=3
07	127	TORN	44 NS	0630.0E		510.00		70.0		V=1
	204	IZMI	44 NS	0700.0E		300.00		20.0		
	33	UPIC	43 NS	0727.5		489.5				

28
Mar 93

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

Outstanding Occurrences

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
07	245	SGMR	43 NS	2032.0	2042.0	106.0	140.0			QL=4 ST=2 TYP=1
	1415	PALE	43 NS	2033.0	2229.0	469.0	260.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2239.0	0827.0	711.0	260.0			QL=4 ST=2 TYP=1
	245	PALE	8 S	0341.0	0342.0	1.0	110.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	0342.0	0342.0	4.0	8.0			QL=4 ST=3 TYP=3
	245	LEAR	8 S	0438.0	0438.0	1.0	270.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0438.0	0438.0	1.0	120.0			QL=4 ST=2 TYP=3
	9100	GORK	3 S	0734.1	0734.2	0.9	20.0			
	260	ONDR	42 SER	0903.5	1016.5	155.0	235.0			
	9100	GORK	1 S	0905.0	0906.0	1.7	5.0			
	204	IZMI	5 S	0913.5	0914.0	0.5	230.0			
	204	IZMI	41 F	1007.5	1007.7	1.5	220.0			
	204	IZMI	42 SER	1154.0	1156.5	4.0	180.0			
	410	SVTO	8 S	1303.0	1305.0	2.0	160.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1304.0	1305.0	1.0	76.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1304.0	1305.0	1.0	190.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1304.0	1305.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1304.0	1309.0	5.0	110.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1304.0	1304.0	1.0	89.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1405.0	1405.0	1.0	68.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1424.0	1425.0	1.0	52.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1425.0	1425.0	U	32.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1425.0	1425.3	1.0	44.0	22.0		
	9500	CUBA	1 S	1450.1	1450.6	0.7	6.0	3.0		
	245	PALE	49 GB	1829.0	1830.0	1.0	500.0			QL=2 ST=3 TYP=6
	245	SGMR	49 GB	1829.0	1830.0	2.0	520.0			QL=4 ST=2 TYP=6
	245	PALE	4 S/F	1834.0	1835.0	4.0	450.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1835.0	1835.0	1.0	430.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1843.0	1845.0	2.0	150.0			QL=4 ST=2 TYP=5
	9500	CUBA	20 GRF	1901.0	1918.0	40.0	13.0	6.0		
	245	SGMR	8 S	1920.0	1920.0	1.0	55.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1955.0	1956.0	2.0	100.0			QL=2 ST=3 TYP=3
	245	SGMR	8 S	1956.0	1956.0	2.0	140.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2009.0	2009.0	U	95.0			QL=4 ST=2 TYP=3
	9500	CUBA	23 GRF	2022.0	2108.0	53.00	16.0			
	245	PALE	4 S/F	2028.0	2028.0	5.0	250.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2028.0	2028.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2028.0	2028.0	1.0	270.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2133.0	2133.0	2.0	300.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	2133.0	2133.0	1.0	440.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	2146.0	2147.0	5.0	100.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	2147.0	2147.0	U	30.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	2149.0	2150.0	2.0	500.0			QL=2 ST=2 TYP=6
	245	SGMR	8 S	2149.0	2150.0	2.0	460.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2344.0	2344.0	U	62.0			QL=4 ST=2 TYP=3
08	200	HIRA	44 NS	0010.0E	0046.0	510.00	250.0	150.0		SL
	100	HIRA	44 NS	0010.0E	0623.0	510.00	1000.0	700.0		SL
	245	SVTO	43 NS	0531.0	1340.0	655.0	220.0			QL=4 ST=3 TYP=1
	127	TORN	44 NS	0630.0E		510.00		170.0		V=2
	204	IZMI	44 NS	0700.0E		300.00		120.0		
	260	ONDR	44 NS	0900.0E	1155.5	210.00	200.0			
	245	SGMR	43 NS	1147.0	1303.0	251.0	140.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1756.0	2125.0	446.0	96.0			QL=4 ST=3 TYP=1
	200	HIRA	44 NS	2100.0E	0356.0	690.00	80.0	50.0		SL
	100	HIRA	44 NS	2100.0E	2355.0	690.00	600.0	350.0		SL
	410	LEAR	49 GB	0035.0	0035.0	1.0	2500.0			QL=4 ST=2 TYP=6
	410	PALE	8 S	0035.0	0035.0	1.0	72.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0035.0	0035.0	3.0	88.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0156.0	0156.0	1.0	89.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0156.0	0156.0	U	220.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	0156.0	0156.0	4.0	76.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0156.0	0156.0	U	240.0			QL=2 ST=2 TYP=3
	610	SVTO	8 S	0748.0	0748.0	1.0	400.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0749.0	0749.0	U	51.0			QL=4 ST=2 TYP=3
	2695	SVTO	49 GB	0802.0	0805.0	8.0	680.0			QL=2 ST=2 TYP=6
	245	SVTO	8 S	0826.0	0827.0	1.0	170.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1339.0	1340.0	1.0	210.0			QL=4 ST=2 TYP=3
	9500	CUBA	4 S/F	1742.2	1747.8	12.8	29.0	9.0		

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

Outstanding Occurrences

29
Mar 93

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean (2 Hz)		
08	9500	CUBA	21 GRF	1928.0	1928.0	22.0	6.0	3.0		
	245	PALE	8 S	1945.0	1946.0	2.0	150.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1946.0	1946.0	U	150.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1946.0	1946.5	1.0	6.0	3.0		
	245	SGMR	8 S	2125.0	2125.0	U	92.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2152.0	2152.0	U	170.0			QL=4 ST=2 TYP=3
09	127	TORN	44 NS	0630.0E		510.00		170.0		V=1
	204	IZMI	44 NS	0700.0E		300.00		40.0		
	260	ONDR	44 NS	0900.0E	1053.0	210.00	130.0			
	280	CUBA	44 NS	1329.0E		471.00		24.0		
	235	CUBA	44 NS	1329.0E		471.00		30.0		
	200	HIRA	44 NS	2100.0E	0630.0	690.00	70.0	40.0		SL
	2950	GORK	1 S	0528.4	0530.0	4.0	4.0			
	9100	GORK	20 GRF	0528.4	0529.9	11.5	5.0			
	2850	CRIM	1 S	0528.5	0530.0	4.0	5.6	2.0		
	950	GORK	1 S	0528.9	0530.6	5.6	3.0			
	204	IZMI	5 S	0842.4	0843.0	1.3	250.0			
	245	SGMR	8 S	1221.0	1221.0	U	51.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1221.0	1221.0	1.0	56.0			QL=2 ST=3 TYP=3
	245	SGMR	8 S	1438.0	1439.0	1.0	64.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1438.0	1439.0	2.0	78.0			QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	1517.0	1517.5	2.1	15.0	7.0		
	245	SGMR	8 S	1916.0	1916.0	2.0	170.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1921.0	1922.0	2.0	78.0			QL=4 ST=2 TYP=3
	9500	CUBA	22 GRF	2011.0	2024.0	79.00	16.0			2130 OFF
10	245	LEAR	43 NS	0144.0	0145.0	1.0	68.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0700.0E	0931.7	300.00		60.0		
	127	TORN	43 NS	0705.0		485.0		210.0		V=1
	245	SVTO	43 NS	0823.0	1300.0	476.0	1000.0			QL=4 ST=2 TYP=1
	260	ONDR	44 NS	0900.0E	1120.0	210.00	350.0			
	245	LEAR	43 NS	0935.0	0935.0	53.0	63.0			QL=4 ST=2 TYP=1
	410	SVTO	43 NS	1109.0	1159.0	177.0	330.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1124.0	1153.0	658.0	910.0			QL=4 ST=2 TYP=1
	410	SGMR	43 NS	1145.0	1152.0	135.0	380.0			QL=4 ST=2 TYP=1
	280	CUBA	44 NS	1330.0E		448.00		45.0		
	245	PALE	43 NS	1754.0	0410.0	629.0	1400.0			QL=4 ST=2 TYP=1
	200	HIRA	44 NS	2100.0E	0240.0	690.00	300.0	150.0		SL
	100	HIRA	44 NS	2100.0E	0454.0	690.00	500.0	100.0		SL
	245	LEAR	43 NS	2240.0	0410.0	706.0	420.0			QL=4 ST=2 TYP=1
	245	PALE	8 S	0008.0	0008.0	U	130.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0144.0	0145.0	2.0	66.0			QL=4 ST=2 TYP=3
	9100	GORK	1 S	0554.8	0555.9	3.9	15.0			
	2950	GORK	1 S	0555.3	0555.9	3.8	4.0			
	9100	GORK	1 S	0717.9	0719.3	3.5	3.0			
	9100	GORK	20 GRF	0744.5	0753.1	18.0	7.0			
	204	IZMI	5 S	0749.0	0749.5		260.0			
	3013	IZMI	5 S	0750.5	0751.6	5.0	4.0	2.0		
	9100	GORK	1 S	0850.9	0851.0	0.9	4.0			
	9100	GORK	21 GRF	0859.6	0930.0	54.9	9.0			
	9100	GORK	1 S	0859.6	0901.2	2.6	4.0			
	2950	GORK	22 GRF	0914.0	0921.8	14.3	8.0			
	9100	GORK	2 S/F	0914.4	0916.7	14.1	10.0			
	9100	GORK	2 S/F	0914.4	0921.8		10.0			
	2850	CRIM	1 S	0920.0	0922.0	10.0	8.0	3.0		
	3013	IZMI	7 C	0920.5	0922.0	7.0	5.0	3.0		
	245	LEAR	8 S	0924.0	0924.0	2.0	100.0			QL=2 ST=2 TYP=3
	410	SVTO	4 S/F	0924.0	0926.0	3.0	100.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0925.0	0926.0	2.0	80.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0925.0	0926.0	1.0	690.0			QL=2 ST=2 TYP=6
	9100	GORK	4 S/F	0944.7	0948.6	9.8	42.0			
	9100	GORK	4 S/F	0944.7	0951.6		106.0			
	950	GORK	20 GRF	1003.0	1025.4	36.6	10.0			
	9100	GORK	22 GRF	1005.6	1007.9	10.2	7.0			
	9100	GORK	1 S	1008.5	1008.7	1.4	6.0			
	410	LEAR	8 S	1014.0	1014.0	U	70.0			QL=4 ST=2 TYP=3
	127	TORN	7 C	1014.3	1014.5	1.4	1200.0	420.0		
	204	IZMI	5 S	1014.6	1015.0	0.5	550.0	225.0		

30
Mar 93

SOLAR RADIO EMISSION Outstanding Occurrences

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
10	204	IZMI	24 R	1100.0		60.0	40.0			
	600	HUMN	27 RF	1104.0	1224.5	187.0	14.0	5.0		
	950	GORK	1 S	1104.5	1106.0	6.3	3.0			
	9100	GORK	22 GRF	1145.0	1159.1	15.00	12.0			
	2950	GORK	20 GRF	1148.6	1159.4	11.00	6.0			
	600	HUMN	2 S/F	1149.0	1153.0	7.0	38.0	10.0		
	2850	CRIM	21 GRF	1149.0	1231.5	120.0	21.0			
	536	ONDR	45 C	1150.0	1154.0	25.0	150.0			
	410	SVTO	8 S	1151.0	1152.0	2.0	430.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1152.0	1153.0	1.0	850.0			QL=2 ST=3 TYP=6
	610	SVTO	8 S	1152.0	1153.0	1.0	96.0			QL=4 ST=2 TYP=3
	600	HUMN	2 S/F	1157.0	1157.5	3.0	18.0	8.0		
	600	HUMN	2 S/F	1202.0	1202.2	3.0	20.0	5.0		
	2695	SGMR	8 S	1210.0	1211.0	1.0	38.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1210.0	1211.0	6.0	52.0			QL=4 ST=2 TYP=3
	2850	CRIM	3 S	1210.2	1211.0	4.0	15.0	5.0		
	600	HUMN	1 S	1238.0	1243.0	12.0	24.0	7.0		
	235	CUBA	26 FAL	1300.0E	1330.0U	120.00	573.0			
	536	ONDR	47 GB	1320.0	1323.0	6.0	148.0			
	245	SGMR	49 GB	1320.0	1322.0	3.0	2000.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1320.0	1322.0	3.0	1700.0			QL=2 ST=2 TYP=6
	410	SVTO	4 S/F	1320.0	1322.0	6.0	140.0			QL=2 ST=2 TYP=3
	8800	SVTO	4 S/F	1320.0	1322.0	4.0	97.0			QL=2 ST=2 TYP=3
	2850	CRIM	3 S	1320.0	1321.9	6.0	150.0	50.0		
	600	HUMN	2 S/F	1321.0	1323.0	6.0	38.0	18.0		
	2695	SGMR	4 S/F	1321.0	1322.0	3.0	110.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1321.0	1322.0	2.0	120.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1321.0	1322.0	4.0	170.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1321.0	1322.0	2.0	94.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1321.0	1322.0	2.0	81.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1321.0	1322.0	3.0	150.0			QL=2 ST=2 TYP=3
	1415	SVTO	4 S/F	1321.0	1323.0	3.0	120.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1321.0	1322.0	2.0	130.0			QL=4 ST=2 TYP=3
	3000	ONDR	4 S/F	1321.0	1322.5	6.5				
	808	ONDR	47 GB	1321.5	1323.5	7.0	120.0			
	610	SGMR	8 S	1322.0	1322.0	1.0	67.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1322.0	1323.0	3.0	120.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1322.0	1322.0	2.0	86.0			QL=4 ST=2 TYP=3
	127	TORN	8 S	1323.0	1323.7	1.0	52000.0			
	280	CUBA	26 FAL	1330.0E	1330.0U	120.0U	313.0			
	9500	CUBA	29 PBI	1356.0E		37.00	10.0			
	9500	CUBA	1 S	1547.2	1547.4	0.4	8.0	4.0		
	245	SGMR	8 S	1659.0	1701.0	2.0	230.0			QL=4 ST=2 TYP=3
	9500	CUBA	23 GRF	1942.0	2048.0	113.00	35.0			2135 OFF
	410	PALE	8 S	2138.0	2138.0	U	74.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	2138.0	2138.0	7.0	48.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	2349.0	2349.0	U	53.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2349.0	2349.0	1.0	160.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	2351.0	2351.0	1.0	65.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2351.0	2352.0	1.0	150.0			QL=4 ST=2 TYP=3
11	410	PALE	43 NS	0335.0	0336.0	48.0	120.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0526.0	0531.0	655.0	260.0			QL=4 ST=1 TYP=1
	127	TORN	44 NS	0630.0E		510.00		200.0		V=1
	204	IZMI	44 NS	0700.0E		300.00		120.0		
	260	ONDR	44 NS	0900.0E	1211.0	240.00	200.0			
	245	SGMR	43 NS	1138.0	2132.0	645.0	220.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1334.0E		471.00		57.0		
	280	CUBA	44 NS	1334.0E		471.00		44.0		
	245	PALE	43 NS	1820.0	1820.0	428.0	78.0			QL=4 ST=3 TYP=1
	200	HIRA	44 NS	2100.0E	0250.0	690.00	50.0	25.0		ML
	245	LEAR	43 NS	2240.0	0709.0	705.0	150.0			QL=4 ST=2 TYP=1
	245	PALE	49 GB	0253.0	0255.0	3.0	1100.0			QL=2 ST=2 TYP=6
	410	LEAR	4 S/F	0255.0	0257.0	4.0	51.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0255.0	0256.0	1.0	120.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	0255.0	0255.0	1.0	33.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0318.0	0319.0	1.0	66.0			QL=4 ST=3 TYP=3
	410	PALE	8 S	0332.0	0332.0	U	93.0			QL=2 ST=2 TYP=3
	245	PALE	49 GB	0413.0	0413.0	U	2100.0			QL=4 ST=2 TYP=6

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

Outstanding Occurrences

31
Mar 93

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
11	9100	GORK	21 GRF	0506.0E	0519.3	84.00	14.0			
	9100	GORK	1 S	0546.6	0548.7	4.2	10.0			
	2950	GORK	1 S	0547.3	0548.7	5.7	3.0			
	2950	GORK	1 S	0754.6	0755.4	3.4	2.0			
	3013	IZMI	1 S	0818.5	0819.4	1.0	2.0	1.0		
	9100	GORK	1 S	0818.8	0819.3	3.6	21.0			
	9100	GORK	20 GRF	0903.0	0930.0	42.0	7.0			
	9100	GORK	20 GRF	1012.0	1127.5	108.00	16.0			
	2950	GORK	20 GRF	1054.0	1139.0	66.00	6.0			
	15400	SGMR	4 S/F	1514.0	1515.0	4.0	460.0			QL=2 ST=2 TYP=3
	4995	SGMR	4 S/F	1514.0	1515.0	4.0	350.0			QL=2 ST=2 TYP=3
	8800	SGMR	4 S/F	1514.0	1515.0	4.0	470.0			QL=2 ST=2 TYP=3
	8800	SVTO	8 S	1514.0	1515.0	2.0	450.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1514.0	1515.0	3.0	380.0			QL=2 ST=2 TYP=3
	4995	SVTO	4 S/F	1514.0	1515.0	3.0	350.0			QL=4 ST=2 TYP=3
	9500	CUBA	3 S	1514.8	1515.0U	2.2	378.00			
	2695	SGMR	8 S	1515.0	1515.0	1.0	56.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1515.0	1515.0	U	56.0			QL=2 ST=2 TYP=3
	9500	CUBA	29 PBI	1517.0		12.0	15.0	7.0		
	9500	CUBA	2 S/F	1538.9	1539.2	3.6	24.0	12.0		
	610	SGMR	8 S	1647.0	1648.0	2.0	190.0			QL=2 ST=2 TYP=3
	9500	CUBA	1 S	1728.8	1729.0	0.9	7.0	3.0		
	410	SGMR	4 S/F	1911.0	1913.0	4.0	60.0			QL=4 ST=2 TYP=3
	9500	CUBA	21 GRF	1923.0		127.00	25.0			2130 OFF
	9500	CUBA	1 S	1953.3	1954.4	2.0	8.0	4.0		
	245	PALE	8 S	2132.0	2132.0	1.0	180.0			QL=2 ST=2 TYP=3
	2695	SGMR	4 S/F	2154.0	2155.0	8.0	51.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	2154.0	2155.0	8.0	84.0			QL=4 ST=2 TYP=5
	8800	SGMR	4 S/F	2154.0	2156.0	8.0	82.0			QL=2 ST=2 TYP=5
	8800	PALE	4 S/F	2154.0	2156.0	126.0	130.0			QL=4 ST=1 TYP=3
	4995	PALE	4 S/F	2154.0	2154.0	126.0	85.0			QL=2 ST=1 TYP=3
	15400	PALE	4 S/F	2154.0	2156.0	126.0	90.0			QL=4 ST=1 TYP=3
	2695	PALE	4 S/F	2154.0	2155.0	126.0	47.0			QL=4 ST=1 TYP=3
	2800	PENT	4 S/F	2154.0	2155.3	9.3	49.6	10.0		
	410	SGMR	8 S	2155.0	2156.0	2.0	51.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	2156.0	2158.0	3.0	820.0			QL=4 ST=2 TYP=6
	100	HIRA	46 C	2158.0		8.0	1000.00			
	200	HIRA	46 C	2158.0	2158.0	2.7	2500.0	800.0		0
	8800	PALE	4 S/F	2159.0	2201.0	5.0	94.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	2159.0	2201.0	3.0	78.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2200.0	2201.0	4.0	45.0			QL=2 ST=2 TYP=3
12	127	TORN	44 NS	0630.0E		510.00		40.0		V=1
	245	SVTO	43 NS	0647.0	0649.0	1033.0	65.0			QL=4 ST=1 TYP=1
	204	IZMI	44 NS	0700.0E		300.00		40.0		
	260	ONDR	44 NS	0900.0E	1300.0	240.00	330.0			
	245	SGMR	43 NS	1121.0	1131.0	176.0	170.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1143.0E		497.00		37.0		
	280	CUBA	44 NS	1343.0E		497.00		30.0		
	245	SGMR	43 NS	1620.0	1623.0	230.0	80.0			QL=4 ST=2 TYP=1
	2950	GORK	1 S	0441.7	0442.0	0.8	2.0			
	2950	GORK	2 S/F	0528.5	0530.5	3.5	4.0			
	9100	GORK	1 S	0529.1	0530.3	3.1	7.0			
	204	IZMI	22 GRF	0704.0	0709.2	16.5	13.0			
	2950	GORK	45 C	0706.0	0709.0		6.0			
	2950	GORK	45 C	0706.0	0707.7	4.5	5.0			
	9100	GORK	4 S/F	0706.2	0708.9	6.5	19.0			
	2850	CRIM	7 C	0707.0	0709.1		7.8			
	2850	CRIM	7 C	0707.0	0707.9	3.0	6.5	3.0		
	950	GORK	1 S	0707.2	0709.2	3.2	3.0			
	33	UPIC	46 C	0707.5	0709.0	5.0				
	204	IZMI	7 C	0708.5	0708.8	0.4	230.0			
	2950	GORK	1 S	0714.7	0717.7	6.6	4.0			
	2850	CRIM	42 SER	0728.4	0730.0		21.0			
	2850	CRIM	42 SER	0728.4	0729.0	2.0	50.0	17.0		
	9100	GORK	20 GRF	0911.3	0916.5	13.5	4.0			
	950	GORK	20 GRF	0941.7	1016.4	65.3	10.0			
	204	IZMI	8 S	1005.0	1005.1	0.2	1500.0			
	127	TORN	8 S	1005.8	1006.0U	0.9	720.0	360.0		

32
Mar 93

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

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
12	9100	GORK	21 GRF	1100.0	1203.0	63.00	11.0			
	204	IZMI	41 F	1101.0	1101.2	3.0	250.0			
	2950	GORK	1 S	1103.3	1106.0	5.7	2.0			
	950	GORK	20 GRF	1108.3	1203.0	55.00	14.0			
	9100	GORK	4 S/F	1153.4	1155.3		35.0			
	9100	GORK	4 S/F	1153.4	1154.4	9.00	42.0			
	2950	GORK	1 S	1157.8	1200.5	3.5	3.0			
	9500	CUBA	1 S	1414.3	1414.5	0.7	31.0	15.0		
	2800	PENT	47 GB	1736.6	1802.2	48.5	895.0	144.0		
	9500	CUBA	47 GB	1738.1	1802.2		421.0			
	9500	CUBA	47 GB	1738.1	1841.3	133.9	511.0			
	1415	SGMR	49 GB	1740.0	1749.0	142.0	660.0			QL=4 ST=2 TYP=7
	280	CUBA	48 C	1741.7	1804.0	124.0	223.0			
	15400	SGMR	4 S/F	1742.0	1841.0	140.0	420.0			QL=4 ST=2 TYP=5
	8800	SGMR	4 S/F	1742.0	1841.0	140.0	480.0			QL=4 ST=2 TYP=5
	4995	SGMR	49 GB	1742.0	1802.0	140.0	790.0			QL=4 ST=2 TYP=7
	2695	SGMR	49 GB	1742.0	1802.0	140.0	1200.0			QL=4 ST=2 TYP=7
	15400	PALE	4 S/F	1743.0	1841.0	377.0	430.0			QL=4 ST=3 TYP=5
	245	SGMR	49 GB	1744.0	1756.0	138.0	550.0			QL=4 ST=2 TYP=7
	1415	PALE	4 S/F	1744.0	1744.0	376.0	210.0			QL=2 ST=3 TYP=3
	610	PALE	4 S/F	1744.0	1842.0	376.0	220.0			QL=4 ST=3 TYP=3
	2695	PALE	49 GB	1744.0	1841.0	376.0	1100.0			QL=4 ST=3 TYP=7
	8800	PALE	4 S/F	1744.0	1841.0	376.0	310.0			QL=4 ST=3 TYP=5
	4995	PALE	4 S/F	1744.0	1841.0	376.0	490.0			QL=2 ST=3 TYP=3
	410	PALE	4 S/F	1744.0	1841.0	376.0	110.0			QL=4 ST=3 TYP=3
	245	PALE	4 S/F	1744.0	1756.0	376.0	330.0			QL=4 ST=3 TYP=3
	15400	PALE	4 S/F	1744.0	1841.00	154.0	430.0			QL=4 ST=2 TYP=5
	410	SGMR	4 S/F	1747.0	1904.0	135.0	120.0			QL=4 ST=2 TYP=5
	610	SGMR	4 S/F	1747.0	1842.0	135.0	260.0			QL=4 ST=2 TYP=5
	235	CUBA	48 C	1747.7	1804.0	124.0	364.0			
	2800	PENT	47 GB	1832.3	1841.5	90.0	859.0	210.0		
	9500	CUBA	30 PBI	1952.0		98.00	26.0			2130 OFF
	8800	PALE	4 S/F	2032.0	2034.0	4.0	110.0			QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	2033.6	2034.5	3.2	96.0	48.0		
	15400	PALE	8 S	2034.0	2034.0	1.0	300.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	2034.0	2034.0	1.0	58.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	2034.0	2034.0	1.0	250.0			QL=4 ST=2 TYP=3
13	127	TORN	44 NS	0630.0E		510.00		50.0		V=2
	204	IZMI	43 NS	0700.0		145.0		25.0		
	260	ONDR	44 NS	0900.0E	0955.5	240.00	180.0			
	245	SVTO	43 NS	0930.0	1047.0	422.0	150.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1140.0	1658.0	559.0	130.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1702.0	1707.0	259.0	110.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2347.0	0107.0	277.0	370.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2353.0	0107.0	632.0	310.0			QL=4 ST=2 TYP=1
	9100	GORK	22 GRF	0500.0E	0651.0	187.50	17.0			
	950	GORK	22 GRF	0648.0	0653.4	12.0	10.0			
	2950	GORK	22 GRF	0648.0	0653.4	15.0	4.0			
	204	IZMI	5 S	0708.5	0708.6	0.5	110.0			
	2950	GORK	1 S	0753.8	0754.3	1.5	1.0			
	204	IZMI	42 SER	0800.0	0809.5	10.5	150.0			
	2950	GORK	22 GRF	0857.5	0901.7	46.0	8.0			
	3013	IZMI	20 GRF	0858.0	0901.5	12.0	8.0			
	950	GORK	21 GRF	0939.3	1018.0	72.6	13.0			
	950	GORK	4 S/F	1030.5	1031.9	3.3	12.0			
	9100	GORK	20 GRF	1154.6	1158.1	5.00	5.0			
	2850	CRIM	2 S/F	1240.3	1243.7	7.3	9.0	3.0		
14	245	SVTO	8 S	1349.0	1349.0	2.0	140.0			QL=2 ST=2 TYP=3
	2800	PENT	3 S	1752.6	1754.0	4.7	17.0	3.0		
	200	HIRA	44 NS	0000.0E	0103.0	180.00	140.0	60.0		WL
	127	TORN	44 NS	0630.0E		510.00		10.0		V=2
	204	IZMI	44 NS	0700.0E		300.00		20.0		
	260	ONDR	44 NS	0900.0E	1020.0	240.00	80.0			
	235	CUBA	44 NS	1318.0E		514.00		17.0		
	280	CUBA	44 NS	1318.0E		514.00		17.0		
	245	LEAR	43 NS	2353.0	2353.0	7.0	73.0			QL=4 ST=1 TYP=1
	245	PALE	4 S/F	0053.0	0057.0	5.0	290.0			QL=2 ST=2 TYP=5

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

Outstanding Occurrences

33
Mar 93

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
14	2950	GORK	1 S	0812.0	0812.4	0.6	1.0			
	9100	GORK	1 S	0813.3	0813.5	0.3	3.0			
	2850	CRIM	3 S	1230.5	1231.0	1.3	35.0	11.0		
	245	SGMR	49 GB	1944.0	1945.0	1.0	2000.0			QL=2 ST=2 TYP=6
15	127	TORN	44 NS	0630.0E		510.00		2.0		V=1
	280	CUBA	44 NS	1348.0E		432.00		20.0		
	235	CUBA	44 NS	1348.0E		432.00		18.0		
	245	SGMR	43 NS	2005.0	2219.0	143.0	110.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2011.0	2011.0	162.0	65.0			QL=4 ST=2 TYP=1
	9100	GORK	20 GRF	0530.5	0536.9		4.0			
	2950	GORK	2 S/F	0533.5	0534.0	1.1	3.0			
	204	IZMI	42 SER	0701.0	0702.0	5.0	49.0			
	204	IZMI	41 F	0713.0	0713.5	1.0	100.0			
	950	GORK	21 GRF	0926.2	1024.2	77.0	10.0			
	2850	CRIM	4 S/F	0959.3	0959.8	4.0	78.0	26.0		
	2950	GORK	4 S/F	0959.3	0959.8	1.7	39.0			
	3013	IZMI	7 C	0959.3	0959.8	6.0	28.0	14.0		
	9100	GORK	1 S	0959.4	1000.0	2.5	4.0			
	950	GORK	1 S	0959.7	1000.0	2.0	4.0			
	2950	GORK	29 PBI	1001.0	1001.0	11.0	3.0			
	260	ONDR	40 F	1001.0	1231.5	179.0	145.0			
	2950	GORK	20 GRF	1021.8	1024.3	8.8	5.0			
	2850	CRIM	1 S	1022.7	1024.5	3.5	4.3	1.0		
	950	GORK	20 GRF	1107.8	1115.0	14.4	4.0			
	245	SGMR	8 S	1250.0	1251.0	1.0	96.0			QL=2 ST=2 TYP=3
	2850	CRIM	1 S	1332.0	1332.7	4.0	10.0	3.0		
	245	SGMR	8 S	1436.0	1437.0	1.0	93.0			QL=2 ST=2 TYP=3
	4995	SGMR	4 S/F	1441.0	1443.0	3.0	72.0			QL=2 ST=2 TYP=3
	4995	SVTO	4 S/F	1441.0	1443.0	3.0	66.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1442.0	1443.0	2.0	55.0			QL=2 ST=2 TYP=3
	2695	SVTO	8 S	1442.0	1443.0	2.0	30.0			QL=2 ST=2 TYP=3
	8800	SVTO	8 S	1442.0	1443.0	2.0	44.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1458.0	1458.0	2.0	950.0			QL=2 ST=2 TYP=6
	245	SVTO	49 GB	1458.0	1458.0	U	910.0			QL=2 ST=2 TYP=6
	245	SGMR	8 S	1503.0	1505.0	2.0	53.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1504.0	1505.0	1.0	59.0			QL=2 ST=2 TYP=3
	245	SGMR	49 GB	1546.0	1547.0	1.0	880.0			QL=2 ST=2 TYP=6
	245	SVTO	49 GB	1546.0	1547.0	1.0	800.0			QL=2 ST=2 TYP=6
	245	SGMR	8 S	1550.0	1550.0	2.0	210.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1550.0	1550.0	2.0	230.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1553.0	1554.0	1.0	290.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1554.0	1554.0	U	330.0			QL=2 ST=2 TYP=3
	410	SGMR	8 S	1627.0	1627.0	U	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1627.0	1628.0	1.0	200.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1627.0	1627.0	1.0	160.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1627.0	1628.0	1.0	73.0			QL=2 ST=2 TYP=3
	610	SVTO	8 S	1627.0	1627.0	U	39.0			QL=2 ST=2 TYP=3
	245	SGMR	49 GB	1639.0	1639.0	U	530.0			QL=4 ST=2 TYP=6
	1415	SGMR	8 S	2043.0	2044.0	1.0	38.0			QL=4 ST=2 TYP=3
	200	HIRA	46 C	2111.0	2117.0	18.0	300.0	60.0		0
	2800	PENT	4 S/F	2112.7	2124.1	29.6	374.0	132.0		
	4995	SGMR	4 S/F	2113.0	2122.0	33.0	420.0			QL=4 ST=2 TYP=5
	4995	PALE	4 S/F	2115.0	2121.0	33.0	400.0			QL=2 ST=1 TYP=3
	8800	PALE	4 S/F	2115.0	2123.0	33.0	170.0			QL=4 ST=1 TYP=3
	100	HIRA	46 C	2116.0	2120.0	18.0	900.0	200.0		WL
	245	SGMR	4 S/F	2116.0	2116.0	16.0	120.0			QL=4 ST=2 TYP=3
	2695	PALE	20 GRF	2116.0	2124.0	32.0	390.0			QL=4 ST=1 TYP=2
	2695	SGMR	20 GRF	2116.0	2123.0	30.0	380.0			QL=4 ST=2 TYP=2
	8800	SGMR	20 GRF	2117.0	2123.0	29.0	170.0			QL=4 ST=2 TYP=2
	1415	SGMR	4 S/F	2117.0	2121.0	29.0	160.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	2118.0	2121.0	30.0	150.0			QL=2 ST=1 TYP=3
	610	SGMR	4 S/F	2120.0	2121.0	4.0	76.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	2120.0	2124.0	28.0	84.0			QL=4 ST=1 TYP=3
	15400	SGMR	4 S/F	2120.0	2123.0	26.0	68.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	2121.0	2121.0	5.0	28.0			QL=4 ST=1 TYP=3
16	127	TORN	43 NS	0957.0		213.0				V=1
	280	CUBA	44 NS	1330.0E		480.00		15.0		

34
Mar 93

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

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
16	235	CUBA	44 NS	1330.0E		480.00		11.0		
	410	LEAR	8 S	0256.0	0256.0	1.0	470.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0256.0	0256.0	1.0	140.0			QL=2 ST=2 TYP=3
	410	PALE	49 GB	0256.0	0256.0	2.0	650.0			QL=4 ST=2 TYP=6
	9100	GORK	21 GRF	0540.9	0936.0	379.00	11.0			
	2950	GORK	1 S	0600.7	0602.5	7.0	4.0			
	2950	GORK	1 S	0601.5	0602.5	3.2	4.0			
	2950	GORK	1 S	0750.0	0751.9	7.0	1.0			
	204	IZMI	41 F	1150.5	1151.0	1.5	54.0			
	2850	CRIM	2 S/F	1230.2	1231.2	1.5	19.0	6.0		
	245	SGMR	8 S	1542.0	1543.0	2.0	230.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1543.0	1543.0	U	210.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1612.0	1612.0	1.0	140.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1804.0	1805.0	2.0	39.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1805.0	1805.0	2.0	120.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1805.0	1805.0	2.0	22.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1805.0	1805.0	1.0	120.0			QL=4 ST=2 TYP=3
17	235	CUBA	44 NS	1325.0E		424.00		11.0		
	280	CUBA	44 NS	1325.0E		474.00		13.0		
	204	IZMI	42 SER	0757.5	0757.7	5.2	150.0			
	245	LEAR	4 S/F	0801.0	0802.0	3.0	79.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0802.0	0802.0	1.0	100.0			QL=4 ST=2 TYP=3
	127	TORN	7 C	0802.6	0803.0	0.9	250.0	120.0		
	127	TORN	42 SER	0845.9	0846.2	6.0	80.0			
	9100	GORK	2 S/F	1055.1	1055.9	5.4	12.0			
	260	ONDR	8 S	1109.0	1109.5	1.0	200.0			
	204	IZMI	41 F	1111.0	1111.2	0.6	220.0			
	2950	GORK	1 S	1117.5	1117.7	0.5	3.0			
	9100	GORK	1 S	1146.0	1147.5	4.2	10.0			
	2800	PENT	22 GRF	1754.0	1801.0	48.0	15.9	3.0		
18	235	CUBA	44 NS	1345.0E		465.00		11.0		
	280	CUBA	44 NS	1345.0E		465.00		13.0		
	204	IZMI	5 S	0730.0	0730.2	1.0	120.0			
	33	UPIC	46 C	0731.0		2.0				
	127	TORN	45 C	0734.1	0737.5	7.4	20.0	6.0		
	204	IZMI	40 F	0955.0	1000.0	18.0	50.0			
	2950	GORK	20 GRF	1020.6	1030.0	21.4	4.0			
	127	TORN	8 S	1038.5	1038.8	0.8	280.0	140.0		
	2950	GORK	20 GRF	1153.0	1154.0	7.00	6.0			
	950	GORK	20 GRF	1153.2	1155.3	6.80	3.0			
	3013	IZMI	5 S	1153.2	1153.7	2.0	7.0	4.0		
	9100	GORK	1 S	1153.4	1154.0	2.2	4.0			
	410	PALE	8 S	2247.0	2248.0	1.0	39.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2248.0	2248.0	U	17.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	2248.0	2248.0	1.0	32.0			QL=2 ST=2 TYP=3
	245	PALE	49 GB	2248.0	2248.0	1.0	1200.0			QL=4 ST=2 TYP=6
19	127	TORN	43 NS	1232.0	1302.1	100.0	140.0	5.0		V=1
	280	CUBA	44 NS	1321.0E		309.00		15.0		
	235	CUBA	44 NS	1321.0E		309.00		10.0		
	610	LEAR	4 S/F	0007.0	0010.0	7.0	290.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0007.0	0008.0	1.0	29.0			QL=4 ST=2 TYP=3
	610	PALE	4 S/F	0007.0	0010.0	1433.0	240.0			QL=4 ST=1 TYP=3
	410	LEAR	8 S	0009.0	0011.0	2.0	25.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	0009.0	0011.0	1431.0	33.0			QL=4 ST=1 TYP=3
	245	PALE	4 S/F	0009.0	0010.0	1431.0	310.0			QL=4 ST=1 TYP=3
	245	LEAR	8 S	0010.0	0010.0	1.0	290.0			QL=2 ST=2 TYP=3
	610	LEAR	4 S/F	0026.0	0028.0	5.0	76.0			QL=4 ST=2 TYP=3
	610	PALE	4 S/F	0026.0	0028.0	5.0	66.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0050.0	0051.0	3.0	170.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0051.0	0051.0	U	170.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0053.0	0057.0	4.0	87.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0056.0	0057.0	1.0	75.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0058.0	0058.0	1.0	37.0			QL=2 ST=2 TYP=3
	2950	GORK	22 GRF	0505.4	0507.8	11.8	5.0			
	9100	GORK	20 GRF	0815.0	1030.7	225.00	13.0			
	245	LEAR	4 S/F	0958.0	1000.0	4.0	120.0			QL=2 ST=2 TYP=3

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

Outstanding Occurrences

35
Mar 93

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
19	410	LEAR	4 S/F	0958.0	1000.0	5.0	74.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0958.5	1000.0	20.0	35.0			
	610	LEAR	4 S/F	0959.0	0959.0	4.0	18.0			QL=4 ST=2 TYP=3
	260	ONDR	4 S/F	0959.0	1000.0	6.0	255.0			
	410	SVTO	8 S	0959.0	1000.0	2.0	130.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0959.0	0959.0	1.0	29.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0959.0	1000.0	3.0	140.0			QL=4 ST=2 TYP=3
	536	ONDR	4 S/F	0959.5	1000.0	5.0	80.0			
	245	SVTO	8 S	1013.0	1013.0	U	56.0			QL=2 ST=2 TYP=3
	2950	GORK	20 GRF	1014.3U	1030.0	105.7D	9.0			
	245	SGMR	8 S	1311.0	1311.0	2.0	56.0			QL=4 ST=3 TYP=3
	2800	PENT	3 S	1959.6	2001.0	2.5	11.5	3.0		
	610	PALE	8 S	2004.0	2004.0	U	48.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2004.0	2004.0	1.0	57.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2008.0	2009.0	2.0	130.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	2008.0	2009.0	3.0	160.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	2253.0	2253.0	67.0	29.0			QL=4 ST=1 TYP=3
	610	LEAR	49 GB	2331.0	2332.0	2.0	620.0			QL=4 ST=2 TYP=6
	610	PALE	49 GB	2331.0	2332.0	2.0	500.0			QL=4 ST=2 TYP=6
	610	LEAR	8 S	2332.0	2333.0	2.0	620.0			QL=/ ST=/ TYP=5
20	127	TORN	43 NS	0853.0		367.0		10.0		V=1
	245	SVTO	43 NS	0942.0	1007.0	25.0	150.0			QL=4 ST=2 TYP=1
	204	IZMI	43 NS	1025.0		95.0D		10.0		
	610	LEAR	8 S	0016.0	0016.0	1.0	60.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0016.0	0016.0	U	62.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0022.0	0022.0	2.0	440.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0022.0	0022.0	2.0	360.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0036.0	0036.0	U	76.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0036.0	0036.0	U	72.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0048.0	0049.0	5.0	120.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0048.0	0049.0	5.0	110.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	0048.0	0051.0	8.0	43.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	0048.0	0049.0	8.0	110.0			QL=2 ST=2 TYP=3
	410	PALE	4 S/F	0048.0	0049.0	8.0	410.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	0048.0	0052.0	8.0	32.0			QL=2 ST=2 TYP=3
	8800	PALE	4 S/F	0048.0	0049.0	8.0	100.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	0048.0	0049.0	7.0	65.0			QL=4 ST=2 TYP=3
	610	PALE	4 S/F	0048.0	0057.0	10.0	280.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0049.0	0049.0	4.0	67.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0049.0	0051.0	3.0	45.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0049.0	0049.0	3.0	190.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0049.0	0049.0	3.0	1600.0			QL=4 ST=2 TYP=6
	245	PALE	49 GB	0049.0	0049.0	7.0	1500.0			QL=4 ST=2 TYP=6
	610	LEAR	4 S/F	0049.0	0057.0	10.0	330.0			QL=4 ST=2 TYP=5
	1415	LEAR	4 S/F	0050.0	0052.0	3.0	38.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0100.0	0101.0	8.0	350.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0102.0	0102.0	2.0	30.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0102.0	0102.0	2.0	35.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0102.0	0103.0	2.0	28.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0102.0	0103.0	1.0	32.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0102.0	0104.0	3.0	28.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0103.0	0103.0	3.0	16.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0103.0	0104.0	4.0	16.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	0103.0	0103.0	4.0	34.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	0103.0	0103.0	4.0	40.0			QL=2 ST=2 TYP=3
	15400	PALE	4 S/F	0103.0	0104.0	11.0	29.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0103.0	0104.0	11.0	89.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	0103.0	0104.0	11.0	34.0			QL=4 ST=2 TYP=3
	610	PALE	4 S/F	0106.0	0111.0	5.0	180.0			QL=4 ST=2 TYP=5
	410	PALE	49 GB	0130.0	0147.0	38.0	810.0			QL=4 ST=3 TYP=7
	610	LEAR	49 GB	0133.0	0203.0	39.0	7600.0			QL=4 ST=2 TYP=7
	610	PALE	49 GB	0133.0	0203.0	39.0	7700.0			QL=4 ST=3 TYP=7
	610	LEAR	49 GB	0134.0	0204.0	38.0	600.0			QL=/ ST=/ TYP=6
	4995	PALE	20 GRF	0138.0	0144.0	10.0	45.0			QL=2 ST=3 TYP=2
	1415	PALE	4 S/F	0140.0	0141.0	17.0	120.0			QL=2 ST=3 TYP=3
	245	PALE	49 GB	0140.0	0148.0	29.0	960.0			QL=4 ST=3 TYP=7
	245	LEAR	49 GB	0140.0	0148.0	32.0	900.0			QL=4 ST=2 TYP=7
	245	LEAR	49 GB	0141.0	0149.0	31.0	900.0			QL=/ ST=/ TYP=6

36
Mar 93

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

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22	Mean W/m 2 Hz)		
20	410	LEAR	49 GB	0143.0	0148.0	24.0	800.0			QL=4 ST=2 TYP=6
	1415	LEAR	4 S/F	0146.0	0147.0	16.0	87.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0146.0	0147.0	20.0	24.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0148.0	0150.0	18.0	15.0			QL=4 ST=2 TYP=3
	610	LEAR	49 GB	0213.0	0223.0	32.0	53000.0			QL=4 ST=2 TYP=7
	610	PALE	49 GB	0213.0	0223.0	90.0	53000.0			QL=4 ST=3 TYP=7
	410	PALE	49 GB	0219.0	0227.0	20.0	1300.0			QL=4 ST=3 TYP=7
	410	LEAR	49 GB	0220.0	0226.0	13.0	1600.0			QL=4 ST=2 TYP=7
	1415	LEAR	4 S/F	0221.0	0224.0	9.0	430.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	0221.0	0224.0	9.0	420.0			QL=2 ST=3 TYP=5
	245	LEAR	20 GRF	0221.0	0227.0	12.0	130.0			QL=4 ST=2 TYP=2
	245	PALE	4 S/F	0222.0	0241.0	23.0	370.0			QL=4 ST=3 TYP=5
	2695	PALE	8 S	0226.0	0226.0	1.0	23.0			QL=4 ST=3 TYP=3
	8800	LEAR	4 S/F	0240.0	0241.0	3.0	300.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0240.0	0241.0	3.0	450.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0240.0	0241.0	2.0	180.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	0240.0	0241.0	2.0	370.0			QL=4 ST=3 TYP=3
	4995	PALE	4 S/F	0240.0	0241.0	8.0	220.0			QL=2 ST=3 TYP=3
	8800	PALE	4 S/F	0240.0	0241.0	8.0	410.0			QL=4 ST=3 TYP=5
	2695	LEAR	8 S	0241.0	0241.0	1.0	89.0			QL=4 ST=2 TYP=3
	610	LEAR	49 GB	0246.0	0316.0	56.0	1400.0			QL=4 ST=2 TYP=7
	3013	IZMI	5 S	0703.5	0705.5	7.0	4.0	2.0		
	3013	IZMI	20 GRF	0739.0	0747.0	18.0	5.0			
	2950	GORK	23 GRF	0742.0	1003.0	255.0	16.0			
	610	SVTO	8 S	0903.0	0904.0	2.0	170.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0904.0	0904.0	1.0	100.0			QL=4 ST=2 TYP=3
	260	ONDR	47 GB	0925.0	1045.0	80.0	85.0			
	204	IZMI	45 C	0927.0	0948.0	60.0	75.0			
	950	GORK	21 GRF	0937.5	1016.0	103.5	6.0			
	9100	GORK	21 GRF	0939.0	1025.7	135.0	18.0			
	245	LEAR	8 S	0942.0	0943.0	1.0	72.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0946.0	0947.0	1.0	130.0			QL=4 ST=2 TYP=3
	2850	CRIM	3 S	0951.6	0952.2	15.0	23.0	7.0		
	3013	IZMI	20 GRF	0953.0	0959.0	15.0	12.0	6.0		
	950	GORK	1 S	0955.9	0959.2	6.2	9.0			
	2950	GORK	3 S	0956.4	0959.0	6.6	14.0			
	9100	GORK	1 S	0957.0	1000.1	7.9	10.0			
	808	ONDR	42 SER	1139.0		56.0				
	260	ONDR	42 SER	1201.5	1209.0	16.5				
	536	ONDR	42 SER	1201.5	1209.0	18.0	340.0			
	245	SGMR	8 S	1202.0	1202.0	1.0	180.0			QL=4 ST=2 TYP=3
	1415	SGMR	49 GB	1202.0	1205.0	3.0	930.0			QL=4 ST=2 TYP=6
	4995	SGMR	8 S	1202.0	1202.0	U	25.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1202.0	1202.0	3.0	44.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1202.0	1202.0	U	30.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1202.0	1202.0	1.0	28.0			QL=4 ST=2 TYP=3
	1415	SVTO	49 GB	1202.0	1205.0	3.0	840.0			QL=4 ST=2 TYP=6
	245	SVTO	8 S	1202.0	1202.0	1.0	200.0			QL=2 ST=2 TYP=3
	2850	CRIM	42 SER	1202.1	1217.0		85.0			
	2850	CRIM	42 SER	1202.1	1203.0	18.0	10.0			
	2850	CRIM	42 SER	1202.1	1209.5		177.0			
	33	UPIC	42 SER	1202.6		17.3				
	2695	SGMR	8 S	1204.0	1205.0	1.0	33.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1204.0	1205.0	1.0	38.0			QL=2 ST=2 TYP=3
	3000	ONDR	42 SER	1204.5	1209.0	16.5				
	245	SVTO	49 GB	1208.0	1209.0	2.0	1300.0			QL=2 ST=2 TYP=6
	1415	SVTO	49 GB	1208.0	1209.0	9.0	1800.0			QL=4 ST=2 TYP=6
	4995	SGMR	20 GRF	1208.0	1209.0	12.0	140.0			QL=4 ST=2 TYP=2
	245	SGMR	49 GB	1208.0	1209.0	10.0	1200.0			QL=4 ST=2 TYP=6
	8800	SGMR	4 S/F	1208.0	1209.0	12.0	250.0			QL=4 ST=2 TYP=5
	1415	SGMR	49 GB	1208.0	1209.0	12.0	1900.0			QL=4 ST=2 TYP=6
	127	TORN	47 GB	1208.4	1209.0U	2.0	470.00	100.0		
	410	SGMR	49 GB	1209.0	1209.0	U	500.0			QL=4 ST=2 TYP=6
	610	SGMR	4 S/F	1209.0	1209.0	8.0	150.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1209.0	1209.0	1.0	160.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1209.0	1209.0	1.0	140.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1209.0	1209.0	U	350.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1209.0	1209.0	1.0	230.0			QL=2 ST=2 TYP=3
	15400	SVTO	8 S	1209.0	1209.0	1.0	200.0			QL=2 ST=2 TYP=3

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

Outstanding Occurrences

37
Mar 93

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
20	8800	SVTO	8 S	1209.0	1209.0	1.0	220.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1209.0	1217.0	11.0	290.0			QL=4 ST=2 TYP=5
	2695	SGMR	20 GRF	1209.0	1209.0	11.0	180.0			QL=4 ST=2 TYP=2
	127	TORN	4 S/F	1216.3	1216.4	1.0	130.0	70.0		
	127	TORN	8 S	1424.5	1425.0	1.2	3700.00	1800.0		
	245	SGMR	8 S	1425.0	1425.0	U	500.0			QL=4 ST=2 TYP=3
	1415	SGMR	49 GB	1425.0	1425.0	3.0	1700.0			QL=4 ST=2 TYP=6
	1415	SVTO	49 GB	1425.0	1425.0	3.0	1500.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1425.0	1425.0	U	570.0			QL=2 ST=2 TYP=6
	33	UPIC	42 SER	1425.1		41.5				
	245	SGMR	8 S	1427.0	1427.0	U	230.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1427.0	1427.0	1.0	40.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1437.0	1438.0	1.0	83.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1437.0	1440.0	4.0	220.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1438.0	1438.0	5.0	97.0			QL=2 ST=2 TYP=3
	1415	SVTO	4 S/F	1438.0	1441.0	3.0	280.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1449.0	1450.0	1.0	48.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1449.0	1450.0	1.0	54.0			QL=2 ST=2 TYP=3
	610	SGMR	8 S	1450.0	1450.0	U	31.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1450.0	1450.0	2.0	45.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1450.0	1450.0	U	34.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1450.0	1450.0	U	30.0			QL=4 ST=2 TYP=3
	1415	SVTO	49 GB	1503.0	1504.0	2.0	620.0			QL=2 ST=2 TYP=6
	4995	SVTO	4 S/F	1503.0	1506.0	4.0	36.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1504.0	1504.0	3.0	40.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1504.0	1504.0	1.0	34.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1612.0	1613.0	1.0	96.0			QL=2 ST=2 TYP=3
	1415	SGMR	49 GB	1648.0	1651.0	7.0	4200.0			QL=4 ST=2 TYP=6
	245	SGMR	8 S	1649.0	1650.0	2.0	180.0			QL=4 ST=2 TYP=3
	9500	CUBA	46 C	1649.5	1657.3	11.5	132.0			1651-1653 DOWN
	410	SGMR	8 S	1653.0	1654.0	1.0	190.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1653.0	1653.0	1.0	40.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1654.0	1654.0	1.0	82.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1654.0	1654.0	1.0	72.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1655.0	1656.0	1.0	98.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1657.0	1657.0	U	66.0			QL=4 ST=2 TYP=3
	2800	PENT	3 S	1657.1	1657.5	1.8	16.3	6.0		
	610	PALE	4 S/F	1741.0	1742.0	3.0	120.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	1905.0	1905.0	1.0	820.0			QL=4 ST=2 TYP=6
	1415	PALE	8 S	1905.0	1905.0	U	24.0			QL=2 ST=2 TYP=3
	245	SGMR	49 GB	1905.0	1905.0	1.0	840.0			QL=4 ST=2 TYP=6
	245	SGMR	49 GB	1926.0	1927.0	1.0	780.0			QL=4 ST=2 TYP=6
	1415	PALE	8 S	1927.0	1927.0	1.0	190.0			QL=2 ST=2 TYP=3
	245	PALE	49 GB	1927.0	1927.0	U	680.0			QL=4 ST=2 TYP=6
	1415	SGMR	8 S	1927.0	1927.0	1.0	200.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	1940.0	1941.0	1.0	140.0			QL=2 ST=2 TYP=5
	1415	SGMR	8 S	1941.0	1941.0	U	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1947.0	1948.0	1.0	370.0			QL=4 ST=2 TYP=3
	1415	PALE	49 GB	1954.0	1955.0	1.0	790.0			QL=2 ST=2 TYP=6
	1415	SGMR	49 GB	1955.0	1955.0	U	760.0			QL=4 ST=2 TYP=6
	1415	PALE	8 S	1957.0	1957.0	1.0	98.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	1957.0	1957.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1957.0	1957.0	1.0	92.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1957.0	1957.0	1.0	96.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	2116.0	2117.0	1.0	630.0			QL=4 ST=2 TYP=6
	245	SGMR	49 GB	2116.0	2117.0	1.0	620.0			QL=4 ST=2 TYP=6
	9500	CUBA	2 S/F	2116.4	2117.0	1.6	16.0	8.0		
	2800	PENT	3 S	2141.3	2145.1	6.0	14.8	6.0		
	2800	PENT	28 PRE	2141.8	2142.6	1.8	21.1	5.0		
	8800	PALE	8 S	2142.0	2142.0	2.0	70.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2142.0	2142.0	U	40.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	2142.0	2142.0	U	1000.0			QL=4 ST=2 TYP=6
	15400	PALE	8 S	2142.0	2142.0	U	46.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2142.0	2142.0	3.0	55.0			QL=2 ST=2 TYP=3
	1415	PALE	8 S	2142.0	2142.0	U	120.0			QL=2 ST=2 TYP=3
	245	SGMR	49 GB	2142.0	2142.0	U	1000.0			QL=4 ST=2 TYP=6
	1415	SGMR	8 S	2142.0	2142.0	U	120.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	2142.0	2142.0	U	60.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	2147.3	2147.6	20.2	5.6	2.0		

38
Mar 93

SOLAR RADIO EMISSION Outstanding Occurrences

MARCH 1993

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)		
20	1415 PALE	8 S	2215.0	2215.0	1.0	74.0			QL=2 ST=2 TYP=3
	1415 SGMR	8 S	2215.0	2215.0	1.0	71.0			QL=4 ST=2 TYP=3
	610 LEAR	8 S	2323.0	2324.0	2.0	45.0			QL=4 ST=2 TYP=3
	245 LEAR	4 S/F	2324.0	2326.0	3.0	250.0			QL=4 ST=2 TYP=3
	1415 LEAR	8 S	2324.0	2325.0	1.0	250.0			QL=4 ST=2 TYP=3
	2800 PENT	4 S/F	2336.8	2337.3	1.8	11.1	2.0		
21	280 CUBA	44 NS	1349.0E		461.00		16.0		
	235 CUBA	44 NS	1349.0E		461.00		17.0		
	2800 PENT	4 S/F	0026.7	0027.6	1.6	27.8	6.0		
	245 LEAR	8 S	0257.0	0259.0	2.0	65.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	0259.0	0259.0	U	61.0			QL=4 ST=2 TYP=3
	610 PALE	4 S/F	0320.0	0322.0	4.0	69.0			QL=4 ST=2 TYP=3
	610 LEAR	8 S	0321.0	0322.0	1.0	70.0			QL=4 ST=2 TYP=3
	1415 LEAR	8 S	0323.0	0323.0	U	25.0			QL=4 ST=2 TYP=3
	2695 LEAR	8 S	0323.0	0323.0	U	29.0			QL=4 ST=2 TYP=3
	8800 LEAR	4 S/F	0325.0	0331.0	29.0	91.0			QL=4 ST=2 TYP=3
	1415 LEAR	20 GRF	0326.0	0334.0	12.0	91.0			QL=4 ST=2 TYP=2
	2695 LEAR	4 S/F	0326.0	0331.0	15.0	140.0			QL=4 ST=2 TYP=3
	4995 LEAR	4 S/F	0326.0	0331.0	17.0	170.0			QL=4 ST=2 TYP=3
	4995 PALE	4 S/F	0326.0	0331.0	17.0	140.0			QL=2 ST=2 TYP=5
	1415 PALE	4 S/F	0326.0	0334.0	11.0	80.0			QL=2 ST=2 TYP=5
	15400 LEAR	4 S/F	0326.0	0326.0	30.0	26.0			QL=4 ST=2 TYP=3
	610 PALE	4 S/F	0327.0	0334.0	12.0	120.0			QL=4 ST=2 TYP=5
	2695 PALE	4 S/F	0327.0	0331.0	16.0	120.0			QL=4 ST=2 TYP=3
	410 LEAR	4 S/F	0328.0	0334.0	9.0	120.0			QL=4 ST=2 TYP=5
	410 PALE	4 S/F	0328.0	0334.0	1232.0	130.0			QL=4 ST=1 TYP=5
	410 PALE	4 S/F	0329.0	0334.0	9.0	130.0			QL=4 ST=2 TYP=5
	8800 PALE	4 S/F	0330.0	0331.0	6.0	73.0			QL=4 ST=2 TYP=3
	610 LEAR	4 S/F	0331.0	0334.0	4.0	120.0			QL=4 ST=2 TYP=5
	245 PALE	8 S	0331.0	0331.0	U	33.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0513.0	0513.0	1.0	110.0			QL=4 ST=2 TYP=3
	245 SVTO	8 S	0513.0	0513.0	1.0	120.0			QL=2 ST=2 TYP=3
	2950 GORK	2 S/F	0535.5	0536.5	1.9	2.0			
	2950 GORK	1 S	0539.5	0540.1	1.1	2.0			
	9100 GORK	1 S	0539.8	0540.1	1.1	4.0			
	950 GORK	21 GRF	0610.9	0614.0	8.9	4.0			
	9100 GORK	4 S/F	0612.5	0617.2	7.8	24.0			
	2850 CRIM	1 S	0612.5	0612.8	1.0	7.0	2.0		
	2950 GORK	2 S/F	0612.5	0612.8	1.4	3.0			
	2950 GORK	1 S	0616.7	0617.1	0.9	4.0			
	2850 CRIM	1 S	0616.8	0617.1	1.0	7.0	2.0		
	245 LEAR	49 GB	0617.0	0617.0	U	510.0			QL=4 ST=2 TYP=6
	245 SVTO	49 GB	0617.0	0617.0	U	650.0			QL=4 ST=2 TYP=6
	8800 SVTO	8 S	0617.0	0617.0	U	26.0			QL=4 ST=2 TYP=3
	950 GORK	1 S	0617.1	0617.3	0.3	11.0			
	2950 GORK	2 S/F	0641.8	0642.9	4.2	5.0			
	2850 CRIM	1 S	0642.0	0643.0	2.2	7.0	2.0		
	950 GORK	46 C	0642.0	0642.3	1.0	17.0			
	950 GORK	46 C	0642.0	0642.8		18.0			
	9100 GORK	1 S	0642.1	0642.6	2.4	7.0			
	245 LEAR	8 S	0707.0	0708.0	1.0	170.0			QL=4 ST=2 TYP=3
	245 SVTO	8 S	0707.0	0707.0	1.0	260.0			QL=4 ST=2 TYP=3
	204 IZMI	42 SER	0708.0	0711.0	3.5	600.0			
	9100 GORK	1 S	0708.1	0710.3	3.5	4.0			
	245 LEAR	8 S	0710.0	0710.0	1.0	180.0			QL=4 ST=2 TYP=3
	245 SVTO	8 S	0710.0	0710.0	1.0	260.0			QL=4 ST=2 TYP=3
	3013 IZMI	7 C	0715.0	0717.0	11.0	11.0	5.0		
	2850 CRIM	1 S	0716.1	0717.0	3.0	7.0	2.0		
	3013 IZMI	5 S	0716.2	0717.0	3.0	12.0	6.0		
	9100 GORK	1 S	0716.4	0717.0	2.6	7.0			
	2950 GORK	1 S	0716.5	0717.1	3.5	7.0			
	950 GORK	1 S	0716.5	0717.3	2.3	1.0			
	204 IZMI	41 F	0752.4	0752.5	0.5	70.0			
	204 IZMI	41 F	0814.0	0815.0	1.0	54.0			
	204 IZMI	41 F	0817.5	0818.6	5.0	75.0			
	245 LEAR	8 S	0818.0	0818.0	U	57.0			QL=4 ST=2 TYP=3
	245 SVTO	8 S	0818.0	0818.0	U	90.0			QL=4 ST=2 TYP=3
	204 IZMI	42 SER	0833.0	0906.0		120.0			

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

Outstanding Occurrences

39
Mar 93

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
21	245	LEAR	8 S	0859.0	0859.0	U	200.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0859.0	0859.0	1.0	270.0			QL=4 ST=2 TYP=3
	950	GORK	4 S/F	0859.4E	0859.5	0.40	28.0			
	9100	GORK	1 S	0859.4	0859.7	0.6	4.0			
	2950	GORK	1 S	1025.0	1025.5	1.3	1.0			
	0950	GORK	1 S	1025.3	1025.6	0.8	4.0			
	9100	GORK	1 S	1051.5	1052.0	1.3	4.0			
	9100	GORK	1 S	1157.1	1157.8	1.3	6.0			
	33	UPIC	42 SER	1216.6	1254.7	38.4				
	245	SGMR	4 S/F	1250.0	1255.0	6.0	80.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1251.0	1255.0	5.0	100.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1523.0	1532.0	9.0	54.0			QL=4 ST=2 TYP=3
	33	UPIC	8 S	1524.2	1524.4	0.5				
	245	SVTO	8 S	1532.0	1532.0	U	67.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1639.0	1639.0	1.0	72.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1852.0	1852.0	U	88.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1852.0	1852.0	U	80.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1928.0	1929.0	2.0	19.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1929.0	1929.0	1.0	150.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1929.0	1929.0	1.0	330.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1929.0	1929.0	1.0	180.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1929.0	1929.0	1.0	350.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1932.0	1934.0	2.0	810.0			QL=4 ST=2 TYP=6
	410	PALE	8 S	1933.0	1934.0	1.0	170.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	1933.0	1934.0	1.0	690.0			QL=4 ST=2 TYP=6
	410	SGMR	8 S	1933.0	1934.0	1.0	130.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1941.0	1941.0	U	290.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1941.0	1941.0	1.0	85.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1941.0	1941.0	1.0	80.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1941.0	1941.0	1.0	190.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2012.0	2012.0	U	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2012.0	2012.0	U	160.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2017.0	2017.0	U	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2017.0	2017.0	U	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2021.0	2022.0	2.0	61.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2022.0	2022.0	1.0	56.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2022.0	2022.0	1.0	64.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2022.0	2022.0	1.0	48.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	2022.5	2022.8	0.8	8.0	4.0		
	9500	CUBA	2 S/F	2053.2	2055.5	3.9	10.0	5.0		
22	280	CUBA	44 NS	1318.0E		492.00		15.0		
	235	CUBA	44 NS	1318.0E		492.00		12.0		
	9100	GORK	1 S	0444.4	0446.5	5.1	9.0			
	2950	GORK	1 S	0751.6	0752.3	1.6	2.0			
	9100	GORK	1 S	0754.0	0756.8	6.3	4.0			
	9100	GORK	32 ABS	0816.8	0824.4	17.6	4.0			
	9100	GORK	1 S	0924.8	0925.8	3.0	9.0			
	2850	CRIM	1 S	1253.5	1253.8	0.8	4.5	1.0		
	410	SGMR	8 S	1407.0	1407.0	U	130.0			QL=4 ST=2 TYP=3
	9500	CUBA	4 S/F	1622.0	1624.1	4.0	106.0	30.0		
	4995	SVTO	8 S	1623.0	1624.0	1.0	66.0			QL=2 ST=2 TYP=3
	2800	PENT	3 S	1623.0	1624.6	4.8	26.3	7.0		
	8800	SGMR	8 S	1624.0	1624.0	2.0	99.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1624.0	1624.0	4.0	58.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1624.0	1624.0	2.0	94.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1624.0	1624.0	U	26.0			QL=2 ST=2 TYP=3
	8800	SVTO	8 S	1624.0	1624.0	U	30.0			QL=2 ST=2 TYP=3
	9500	CUBA	29 PBI	1626.0		21.0	10.0	5.0		
	2800	PENT	3 S	2106.4	2107.1	3.8	18.9	3.0		
23	235	CUBA	44 NS	1353.0E		427.00		10.0		
	280	CUBA	44 NS	1353.0E		427.00		13.0		
	2695	PALE	20 GRF	0116.0	0122.00	10.0	27.0			QL=4 ST=2 TYP=2
	2695	PALE	4 S/F	0126.0	0137.0	43.0	310.0			QL=4 ST=2 TYP=5
	2695	LEAR	4 S/F	0129.0	0137.0	29.0	260.0			QL=4 ST=2 TYP=5
	4995	LEAR	4 S/F	0132.0	0137.0	29.0	380.0			QL=4 ST=2 TYP=5
	4995	PALE	4 S/F	0132.0	0137.0	41.0	330.0			QL=2 ST=2 TYP=5
	245	LEAR	8 S	0135.0	0136.0	1.0	33.0			QL=4 ST=2 TYP=3

40
Mar 93

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

Outstanding Occurrences

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
23	8800	LEAR	4 S/F	0135.0	0137.0	28.0	220.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	0135.0	0137.0	25.0	190.0			QL=4 ST=2 TYP=3
	1415	PALE	20 GRF	0135.0	0145.0	39.0	86.0			QL=2 ST=2 TYP=2
	245	PALE	4 S/F	0135.0	0136.0	39.0	36.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0136.0	0137.0	23.0	87.0			QL=4 ST=2 TYP=3
	1415	LEAR	20 GRF	0136.0	0145.0	21.0	86.0			QL=4 ST=2 TYP=2
	15400	PALE	4 S/F	0136.0	0137.0	38.0	85.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0528.0	0528.0	1.0	67.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0717.5	0717.7	1.0	150.0			
	2950	GORK	20 GRF	0734.2	0743.0	10.8	4.0			
	245	LEAR	4 S/F	0845.0	0846.0	7.0	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0846.0	0846.0	U	170.0			QL=4 ST=2 TYP=3
	9100	GORK	1 S	0937.2	0937.6	0.9	10.0			
	127	TORN	4 S/F	1020.6	1021.2	1.1	20.0	3.0		
	245	SGMR	8 S	1138.0	1138.0	1.0	120.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1138.4	1139.0	3.0	1500.0			
	2800	PENT	4 S/F	1901.9	1905.8	8.7	24.1	5.0		
	9500	CUBA	1 S	1905.0	1905.7	2.7	12.0	6.0		
24	280	CUBA	44 NS	1321.0E		439.0D		13.0		
	235	CUBA	44 NS	1321.0E		489.0D		11.0		
	4995	LEAR	8 S	0139.0	0139.0	1.0	70.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	0139.0	0139.0	2.0	48.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0139.0	0139.0	2.0	27.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0139.0	0139.0	2.0	13.0			QL=2 ST=2 TYP=3
	610	PALE	8 S	0139.0	0139.0	2.0	19.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0139.0	0139.0	2.0	62.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0205.0	0205.0	1.0	130.0			QL=4 ST=2 TYP=3
	950	GORK	20 GRF	0534.2	0538.8	14.4	6.0			
	2950	GORK	22 GRF	0535.6	0542.4	13.1	3.0			
	2950	GORK	45 C	1101.5	1106.0		4.0			
	2950	GORK	45 C	1101.5	1102.6	5.5	5.0			
	2850	CRIM	7 C	1101.6	1102.5	5.2	7.0	2.0		
	2850	CRIM	7 C	1101.6	1105.9		6.0			
	950	GORK	2 S/F	1104.6	1104.9	1.8	12.0			
	9500	CUBA	23 GRF	1920.0	2016.0	125.0	11.0	5.0		
25	280	CUBA	44 NS	1346.0E		450.0D		13.0		
	235	CUBA	44 NS	1348.0E		450.0D		11.0		
	204	IZMI	42 SER	0705.5	0706.0	3.0	70.0			
	204	IZMI	41 F	0816.5	0816.6	1.5	180.0			
	2850	CRIM	21 GRF	0915.0	0937.0	28.0	3.0	1.0		
	2850	CRIM	40 F	0921.0	0921.4	0.8	4.3	1.0		
	2850	CRIM	45 C	1339.8	1340.0	6.0	29.0	11.0		
	2850	CRIM	45 C	1339.8	1344.3		35.0			
	610	SVTO	8 S	1343.0	1344.0	1.0	53.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1344.0	1344.0	U	41.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1344.0	1344.0	U	36.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1344.0	1344.0	U	85.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1344.0	1344.0	U	100.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1344.0	1344.0	U	33.0			QL=2 ST=2 TYP=3
	2695	SVTO	8 S	1344.0	1344.0	U	35.0			QL=2 ST=2 TYP=3
	1415	SVTO	8 S	1344.0	1344.0	U	65.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1543.0	1544.0	2.0	490.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1543.0	1544.0	1.0	240.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1543.8	1544.2	3.0	18.0	6.0		
	2695	SGMR	8 S	1544.0	1544.0	U	43.0			QL=2 ST=2 TYP=3
	4995	SGMR	8 S	1544.0	1544.0	U	39.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1544.0	1544.0	U	34.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1544.0	1544.0	U	24.0			QL=2 ST=2 TYP=3
	2695	SVTO	8 S	1544.0	1544.0	U	50.0			QL=2 ST=2 TYP=3
	9500	CUBA	2 S/F	1800.0	1802.0	3.5	11.0	5.0		
	2800	PENT	4 S/F	1800.1	1802.3	4.6	41.8	11.0		
	4995	PALE	8 S	1801.0	1802.0	1.0	20.0			QL=2 ST=2 TYP=3
	2695	PALE	8 S	1801.0	1801.0	1.0	42.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1801.0	1801.0	U	250.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	1801.0	1802.0	1.0	27.0			QL=2 ST=2 TYP=3
	610	SGMR	8 S	1801.0	1801.0	U	330.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1801.0	1802.0	2.0	27.0			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

41
Mar 93

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
25	2695	SGMR	8 S	1801.0	1801.0	2.0	38.0			QL=2 ST=2 TYP=3
	1415	PALE	8 S	1850.0	1850.0	U	26.0			QL=2 ST=2 TYP=3
	2800	PENT	8 S	1850.5	1851.1	1.0	14.8	8.0		
	610	PALE	49 GB	1855.0	1855.0	1.0	1000.0			QL=4 ST=2 TYP=6
	610	SGMR	49 GB	1855.0	1855.0	1.0	1200.0			QL=4 ST=2 TYP=6
	2800	PENT	8 S	1855.6	1855.8	0.5	14.8	5.0		
	2800	PENT	8 S	1915.3	1915.9	0.8	22.2	9.0		
	2695	SGMR	8 S	1918.0	1919.0	2.0	35.0			QL=2 ST=2 TYP=3
	610	SGMR	8 S	1918.0	1918.0	2.0	210.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1918.0	1919.0	2.0	44.0			QL=4 ST=2 TYP=3
	2800	PENT	4 S/F	1918.4	1919.4	2.6	28.9	10.0		
	9500	CUBA	1 S	1928.3	1928.7	0.8	6.0	3.0		
	9500	CUBA	1 S	1955.5	1955.9	1.5	5.0	2.0		
26	204	IZMI	43 NS	0920.0		160.00		10.0		
	280	CUBA	44 NS	1324.0E		488.00		13.0		
	235	CUBA	44 NS	1324.0E		488.00		13.0		
	950	GORK	1 S	0832.1	0832.8	1.1	2.0			
	2950	GORK	2 S/F	0832.4	0832.6	0.8	3.0			
	2850	CRIM	1 S	0832.5	0832.6	0.8	3.0	1.0		
	2950	GORK	2 S/F	1123.5	1123.8	1.3	1.0			
	950	GORK	1 S	1123.6	1123.8	0.9	6.0			
	610	SGMR	8 S	1349.0	1349.0	U	430.0			QL=4 ST=2 TYP=3
	610	SGMR	49 GB	1409.0	1411.0	2.0	1000.0			QL=4 ST=3 TYP=6
	610	SVTO	49 GB	1409.0	1411.0	2.0	640.0			QL=4 ST=2 TYP=6
	2695	SVTO	8 S	1411.0	1411.0	U	30.0			QL=2 ST=2 TYP=3
	9500	CUBA	1 S	1411.0	1411.4	1.0	8.0	4.0		
	9500	CUBA	1 S	2038.7	2038.8	0.2	21.0	10.0		
27	235	CUBA	44 NS	1430.0E		400.00		14.0		
	280	CUBA	44 NS	1430.0E		400.00		14.0		
	410	LEAR	8 S	0117.0	0117.0	U	57.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0117.0	0117.0	U	96.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0821.5	0821.7	0.6	39.0			
	204	IZMI	42 SER	0852.0	0858.0	7.0	81.0			
	127	TORN	42 SER	0852.2	0857.8	12.5	100.0	6.0		
	33	UPIC	42 SER	0853.0	0853.3	146.5				
	204	IZMI	7 C	1146.7	1147.0	1.0	31.0	15.0		
	33	UPIC	8 S	1321.9	1322.1	0.4				
	33	UPIC	45 C	1429.5	1430.2	0.9				
	127	TORN	43 NS	0925.0		390.0		2.0		V=1
	245	SVTO	43 NS	1114.0	1117.0	28.0	170.0			QL=4 ST=2 TYP=1
28	280	CUBA	44 NS	1338.0E		480.00		19.0		
	235	CUBA	44 NS	1343.0E		480.00		14.0		
	410	PALE	8 S	0248.0	0250.0	2.0	300.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0250.0	0250.0	U	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0321.0	0321.0	1.0	350.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0322.0	0322.0	U	68.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0322.0	0322.0	U	250.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	0418.0	0421.0	5.0	130.0			QL=4 ST=2 TYP=3
	2950	GORK	2 S/F	0824.2	0825.5	4.4	18.0			
	950	GORK	2 S/F	0824.5	0825.6	1.5	6.0			
	410	LEAR	49 GB	0825.0	0825.0	U	610.0			QL=4 ST=2 TYP=6
	2850	CRIM	8 S	0825.3	0825.5	0.4	28.0	9.0		
	9100	GORK	1 S	0825.3	0825.6	1.1	5.0			
	204	IZMI	41 F	1123.0	1123.5	1.2	125.0			
	127	TORN	8 S	1210.2	1210.5	1.0	200.0	100.0		
	33	UPIC	4 S/F	1236.4	1236.7	0.6				
	33	UPIC	2 S/F	1242.1	1242.3	0.4				
	245	SVTO	8 S	1301.0	1303.0	2.0	380.0			QL=4 ST=2 TYP=3
	127	TORN	46 C	1301.5	1303.3	3.0	140.0	20.0		
	610	SGMR	4 S/F	1302.0	1303.0	3.0	160.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1302.0	1303.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1303.0	1303.0	2.0	330.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1330.0	1330.0	1.0	89.0			QL=4 ST=3 TYP=3
	610	SGMR	49 GB	1330.0	1330.0	1.0	1100.0			QL=4 ST=2 TYP=6
	8800	SGMR	8 S	1330.0	1331.0	2.0	43.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1330.0	1330.0	1.0	110.0			QL=4 ST=2 TYP=3

42
Mar 93

SOLAR RADIO EMISSION

Outstanding Occurrences

MARCH 1993

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz) Mean	Int	Remarks
28	610 SVTO	49 GB	1330.0	1330.0	1.0	630.0		QL=4 ST=2 TYP=6
	127 TORN	4 S/F	1330.0	1330.8	1.6	90.0	30.0	
	15400 SGMR	8 S	1331.0	1331.0	1.0	43.0		QL=4 ST=2 TYP=3
	15400 SVTO	8 S	1331.0E	1331.0	U	33.0		QL=4 ST=2 TYP=3
	8800 SVTO	8 S	1331.0	1331.0	U	39.0		QL=4 ST=2 TYP=3
	245 SVTO	8 S	1334.0	1334.0	U	62.0		QL=4 ST=2 TYP=3
	33 UPIC	46 C	1349.6	1350.1	0.9			
	245 SGMR	4 S/F	1453.0	1456.0	3.0	62.0		QL=4 ST=2 TYP=3
	245 SGMR	8 S	1456.0	1456.0	U	62.0		QL=4 ST=3 TYP=3
	33 UPIC	48 C	1501.0		4.4			
	245 SGMR	8 S	1501.0	1502.0	1.0	400.0		QL=4 ST=2 TYP=3
	610 SGMR	8 S	1501.0	1502.0	2.0	45.0		QL=4 ST=2 TYP=3
	410 SGMR	8 S	1501.0	1502.0	2.0	50.0		QL=4 ST=2 TYP=3
	245 SVTO	8 S	1501.0	1502.0	2.0	390.0		QL=4 ST=2 TYP=3
	410 SVTO	8 S	1502.0	1502.0	1.0	52.0		QL=4 ST=2 TYP=3
	245 SGMR	8 S	1505.0	1505.0	U	450.0		QL=4 ST=2 TYP=3
	245 SVTO	8 S	1505.0	1505.0	U	490.0		QL=4 ST=3 TYP=3
	610 SGMR	49 GB	1510.0	1511.0	4.0	500.0		QL=4 ST=2 TYP=6
	245 SGMR	8 S	1510.0	1511.0	1.0	57.0		QL=4 ST=2 TYP=3
	610 SVTO	49 GB	1511.0	1512.0	1.0	510.0		QL=4 ST=2 TYP=6
	245 SVTO	8 S	1511.0	1511.0	U	79.0		QL=4 ST=2 TYP=3
	245 PALE	8 S	1954.0	1954.0	U	54.0		QL=4 ST=2 TYP=3
	245 SGMR	8 S	1954.0	1954.0	U	82.0		QL=4 ST=2 TYP=3
	410 SGMR	8 S	2034.0	2035.0	1.0	140.0		QL=4 ST=2 TYP=3
	410 PALE	8 S	2035.0	2035.0	U	160.0		QL=4 ST=2 TYP=3
29	280 CUBA	44 NS	1338.0E		358.00		17.0	
	235 CUBA	44 NS	1338.0E		358.00		13.0	
	8800 LEAR	8 S	0044.0	0046.0	2.0	33.0		QL=4 ST=2 TYP=3
	245 LEAR	8 S	0044.0	0045.0	2.0	180.0		QL=4 ST=2 TYP=3
	4995 LEAR	4 S/F	0044.0	0045.0	3.0	21.0		QL=4 ST=2 TYP=3
	610 PALE	8 S	0044.0	0045.0	2.0	13.0		QL=4 ST=2 TYP=3
	15400 PALE	8 S	0044.0	0046.0	2.0	100.0		QL=4 ST=2 TYP=3
	245 PALE	8 S	0044.0	0045.0	2.0	160.0		QL=4 ST=2 TYP=3
	15400 LEAR	8 S	0045.0	0046.0	1.0	92.0		QL=4 ST=2 TYP=3
	2695 PALE	8 S	0045.0	0045.0	1.0	12.0		QL=4 ST=2 TYP=3
	4995 PALE	8 S	0045.0	0045.0	2.0	22.0		QL=2 ST=2 TYP=3
	1415 PALE	8 S	0045.0	0045.0	2.0	11.0		QL=2 ST=2 TYP=3
	410 PALE	8 S	0045.0	0045.0	1.0	61.0		QL=4 ST=2 TYP=3
	8800 PALE	8 S	0045.0	0046.0	2.0	45.0		QL=4 ST=2 TYP=3
	245 LEAR	8 S	0157.0	0157.0	U	88.0		QL=4 ST=2 TYP=3
	245 PALE	8 S	0157.0	0157.0	U	66.0		QL=4 ST=2 TYP=3
	1415 PALE	8 S	0211.0	0212.0	2.0	11.0		QL=2 ST=2 TYP=3
	245 PALE	8 S	0211.0	0212.0	2.0	300.0		QL=4 ST=2 TYP=3
	245 LEAR	8 S	0212.0	0212.0	U	440.0		QL=4 ST=2 TYP=3
	610 LEAR	8 S	0212.0	0212.0	1.0	50.0		QL=4 ST=2 TYP=3
	8800 PALE	8 S	0212.0	0212.0	1.0	20.0		QL=4 ST=2 TYP=3
	4995 PALE	8 S	0212.0	0212.0	1.0	10.0		QL=2 ST=2 TYP=3
	15400 PALE	8 S	0212.0	0212.0	1.0	19.0		QL=4 ST=2 TYP=3
	410 PALE	8 S	0212.0	0212.0	1.0	11.0		QL=4 ST=2 TYP=3
	245 LEAR	8 S	0448.0	0448.0	1.0	110.0		QL=4 ST=2 TYP=3
	9100 GORK	23 GRF	0527.8	0532.0	27.9	13.0		
	950 GORK	22 GRF	0527.9	0531.8	7.6	5.0		
	2950 GORK	22 GRF	0528.4	0532.1	9.5	4.0		
	245 LEAR	8 S	0529.0	0529.0	1.0	59.0		QL=4 ST=2 TYP=3
	245 SVTO	8 S	0529.0	0529.0	U	62.0		QL=4 ST=2 TYP=3
	410 LEAR	8 S	0531.0	0531.0	U	72.0		QL=4 ST=2 TYP=3
	245 LEAR	49 GB	0531.0	0531.0	1.0	2900.0		QL=4 ST=2 TYP=6
	410 SVTO	8 S	0531.0	0531.0	1.0	410.0		QL=4 ST=2 TYP=3
	245 SVTO	49 GB	0531.0	0531.0	2.0	2000.0		QL=4 ST=2 TYP=6
	245 LEAR	8 S	0532.0	0532.0	U	900.0		QL=/ ST=/ TYP=5
	245 LEAR	8 S	0536.0	0537.0	2.0	120.0		QL=4 ST=2 TYP=3
	245 SVTO	8 S	0537.0	0537.0	U	95.0		QL=4 ST=2 TYP=3
	9100 GORK	2 S/F	0537.0	0537.2	0.9	18.0		
	204 IZMI	42 SER	0609.0	0634.8	60.0	360.0		
	9100 GORK	1 S	0611.0	0611.5	1.4	4.0		
	245 LEAR	8 S	0634.0	0634.0	U	120.0		QL=4 ST=2 TYP=3
	245 SVTO	8 S	0634.0	0634.0	1.0	96.0		QL=4 ST=2 TYP=3
	2850 CRIM	1 S	0634.2	0634.5	1.0	7.0	2.0	

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

Outstanding Occurrences

43
Mar 93

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
29	2950	GORK	1 S	0634.3	0634.6	0.9	4.0			
	3013	IZMI	1 S	0634.3	0634.6	1.5	4.2			
	9100	GORK	1 S	0634.4	0634.5	3.6	5.0			
	950	GORK	1 S	0634.4	0634.5	0.6	12.0			
	950	GORK	29 PBI	0635.0	0635.0	7.2	3.0			
	950	GORK	2 S/F	0649.9	0652.0	3.7	6.0			
	410	LEAR	8 S	0651.0	0651.0	2.0	120.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0651.0	0651.0	2.0	240.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0651.0	0651.0	U	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0651.0	0651.0	1.0	180.0			QL=4 ST=2 TYP=3
	9100	GORK	1 S	0651.4	0651.9	1.5	5.0			
	2950	GORK	1 S	0651.5	0651.7	1.0	1.0			
	204	IZMI	42 SER	0803.0	0813.0	16.0	560.0			
	610	LEAR	4 S/F	0809.0	0813.0	5.0	8.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0810.0	0812.0	4.0	31.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0810.0	0813.0	4.0	150.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0810.0	0813.0	3.0	89.0			QL=4 ST=2 TYP=3
	127	TORN	8 S	0810.0	0810.4	1.0	220.0	110.0		
	9100	GORK	1 S	0810.3	0811.0	1.3	4.0			
	127	TORN	7 C	0812.0	0813.0	2.0	1000.0	130.0		
	9100	GORK	1 S	0812.4	0813.0	1.5	4.0			
	2950	GORK	1 S	0812.6	0813.0	6.4	2.0			
	950	GORK	2 S/F	0812.7	0813.0	1.8	7.0			
	2950	GORK	21 GRF	0827.0	0837.2	25.7	3.0			
	950	GORK	21 GRF	0828.6	0838.2	28.0	6.0			
	245	LEAR	49 GB	0831.0	0833.0	3.0	9700.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0831.0	0833.0	3.0	7000.0			QL=4 ST=2 TYP=6
	2950	GORK	4 S/F	0831.0	0833.3	5.6	149.0			
	2850	CRIM	3 S	0831.1	0833.3	7.0	203.0	70.0		
	9100	GORK	3 S	0831.2	0833.2	5.8	306.0			
	204	IZMI	45 C	0831.5	0833.2	3.5	10000.0			
	127	TORN	47 GB	0831.6	0833.0U	6.0	530.00	150.0		
	950	GORK	4 S/F	0831.6	0833.6	6.6	113.0			
	245	LEAR	8 S	0832.0	0833.0	2.0	700.0			QL=/ ST=/ TYP=5
	15400	LEAR	49 GB	0832.0	0833.0	2.0	510.0			QL=4 ST=2 TYP=6
	410	LEAR	49 GB	0832.0	0833.0	2.0	1100.0			QL=4 ST=2 TYP=6
	4995	LEAR	8 S	0832.0	0833.0	2.0	180.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0832.0	0833.0	2.0	110.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	0832.0	0833.0	2.0	12000.0			QL=4 ST=2 TYP=6
	15400	SVTO	8 S	0832.0	0833.0	2.0	420.0			QL=2 ST=2 TYP=3
	610	SVTO	4 S/F	0832.0	0833.0	3.0	120.0			QL=4 ST=2 TYP=3
	3013	IZMI	7 C	0832.0	0833.4	8.0	162.0	80.0		
	600	HUMN	4 S/F	0832.0	0832.8	7.0	54.0	15.0		
	1415	LEAR	8 S	0833.0	0833.0	2.0	130.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0833.0	0833.0	2.0	510.0			QL=/ ST=/ TYP=5
	410	LEAR	8 S	0833.0	0833.0	1.0	100.0			QL=/ ST=/ TYP=5
	2695	LEAR	8 S	0833.0	0833.0	1.0	170.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0833.0	0833.0	2.0	110.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0833.0	0833.0	1.0	240.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0833.0	0833.0	1.0	190.0			QL=2 ST=2 TYP=3
	4995	SVTO	8 S	0833.0	0833.0	1.0	190.0			QL=4 ST=2 TYP=3
	3000	ONDR	2 S/F	0833.0	0833.5	2.5				
	2850	CRIM	30 PBI	0834.1	0838.4	15.0	4.0	1.0		
	9100	GORK	2 S/F	0842.0	0843.8	3.3	14.0			
	2850	CRIM	1 S	0843.0	0843.8	2.0	3.0	1.0		
	2950	GORK	1 S	0843.3	0843.7	1.0	1.0			
	950	GORK	2 S/F	0843.3	0843.7	1.1	8.0			
	9100	GORK	1 S	0939.7	0940.2	1.5	5.0			
	127	TORN	4 S/F	1020.0	1022.3	4.0	270.0	110.0		
	33	UPIC	46 C	1020.0	1020.5	5.5				
	127	TORN	4 S/F	1024.9	1025.1	1.4	30.0	10.0		
	204	IZMI	42 SER	1031.7	1031.8	14.0	230.0			
	950	GORK	21 GRF	1033.0	1040.1	12.7	5.0			
	127	TORN	41 F	1033.8	1034.0	2.0	15.0	6.0		
	245	SVTO	4 S/F	1040.0	1042.0	3.0	430.0			QL=4 ST=3 TYP=3
	260	ONDR	45 C	1040.0	1043.5	3.5	505.0			
	2950	GORK	4 S/F	1040.7	1042.3	3.1	10.0			
	127	TORN	46 C	1040.8	1042.0	5.9	100.0	10.0		
	9100	GORK	4 S/F	1040.8	1042.6	5.9	22.0			

44
Mar 93

SOLAR RADIO EMISSION Outstanding Occurrences

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
29	2850	CRIM	2 S/F	1040.9	1041.9	4.5	16.0	5.0		
	3013	IZMI	5 S	1041.5	1043.0	4.0	8.0	4.0		
	950	GORK	1 S	1041.7	1042.6	1.5	4.0			
	2950	GORK	29 PBI	1043.8	1043.8	37.9	3.0			
	9100	GORK	4 S/F	1103.9	1104.4	5.5	30.0			
	410	SGMR	8 S	1107.0	1107.0	1.0	31.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1107.0	1107.0	1.0	410.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	1107.5	1107.7	1.0	320.0			
	260	ONDR	8 S	1108.0	1108.2	0.2	515.0			
	2850	CRIM	45 C	1250.1	1252.1	9.0	74.0	25.0		
	2850	CRIM	45 C	1250.1	1255.6		34.0			
	4995	SGMR	4 S/F	1251.0	1252.0	7.0	120.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1251.0	1252.0	7.0	74.0			QL=2 ST=2 TYP=3
	610	SGMR	4 S/F	1251.0	1255.0	6.0	42.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1251.0	1252.0	7.0	100.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1251.0	1256.0	7.0	84.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1251.0	1255.0	7.0	160.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1251.0	1256.0	7.0	110.0			QL=2 ST=2 TYP=3
	245	SGMR	49 GB	1251.0	1255.0	4.0	610.0			QL=4 ST=2 TYP=6
	2695	SVTO	8 S	1251.0	1252.0	2.0	79.0			QL=2 ST=2 TYP=3
	15400	SVTO	4 S/F	1251.0	1256.0	8.0	150.0			QL=2 ST=2 TYP=5
	8800	SVTO	8 S	1251.0	1252.0	2.0	100.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1251.0	1252.0	2.0	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1251.0	1252.0	1.0	310.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1251.0	1253.0	2.0	91.0			QL=4 ST=2 TYP=3
	536	ONDR	45 C	1251.5	1256.5	6.5				
	127	TORN	8 S	1251.8	1252.2	1.1	1000.0	520.0		
	1415	SVTO	8 S	1252.0	1252.0	U	24.0			QL=4 ST=2 TYP=3
	808	ONDR	45 C	1252.0	1258.5	9.0	100.0			
	3000	ONDR	2 S/F	1252.5	1253.0	5.0				
	260	ONDR	45 C	1252.5	1255.5	7.0	637.0			
	610	SVTO	8 S	1256.0	1256.0	U	25.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1347.1	1350.9	4.4				
	127	TORN	4 S/F	1349.2	1350.6		370.0	120.0		
	245	SGMR	4 S/F	1708.0	1710.0	5.0	96.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	1709.0	1710.0	4.0	70.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1709.0	1710.0	1.0	79.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1709.0	1710.0	1.0	93.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	2148.0	2149.0	3.0	76.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	2148.0	2149.0	3.0	140.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2149.0	2149.0	U	140.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2149.0	2149.0	U	73.0			QL=4 ST=2 TYP=3
30	235	CUBA	44 NS	1447.0E		403.00		11.0		
	280	CUBA	44 NS	1447.0E		403.00		11.0		
	2695	LEAR	8 S	0101.0	0102.0	2.0	250.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0101.0	0102.0	3.0	440.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0101.0	0102.0	5.0	6700.0			QL=4 ST=2 TYP=6
	15400	LEAR	4 S/F	0101.0	0102.0	8.0	220.0			QL=4 ST=2 TYP=3
	410	LEAR	49 GB	0101.0	0104.0	3.0	1600.0			QL=4 ST=2 TYP=6
	4995	LEAR	49 GB	0101.0	0102.0	3.0	580.0			QL=4 ST=2 TYP=6
	2695	PALE	8 S	0101.0	0102.0	2.0	240.0			QL=4 ST=2 TYP=3
	410	PALE	49 GB	0101.0	0103.0	3.0	1300.0			QL=4 ST=2 TYP=6
	8800	PALE	8 S	0101.0	0102.0	2.0	400.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	0101.0	0102.0	2.0	240.0			QL=4 ST=2 TYP=3
	4995	PALE	49 GB	0101.0	0102.0	2.0	520.0			QL=2 ST=2 TYP=6
	245	PALE	49 GB	0101.0	0102.0	5.0	5400.0			QL=4 ST=3 TYP=7
	610	PALE	8 S	0101.0	0101.0	1.0	150.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0101.0	0102.0	2.0	96.0			QL=2 ST=2 TYP=3
	4995	LEAR	4 S/F	0102.0	0102.0	3.0	580.0			QL=/ ST=/ TYP=5
	1415	LEAR	8 S	0102.0	0102.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0102.0	0102.0	5.0	700.0			QL=/ ST=/ TYP=5
	410	LEAR	8 S	0102.0	0104.0	2.0	600.0			QL=/ ST=/ TYP=5
	610	LEAR	8 S	0102.0	0102.0	1.0	210.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0154.0	0154.0	U	280.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0327.0	0329.0	7.0	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0328.0	0329.0	2.0	210.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0455.0	0455.0	U	150.0			QL=4 ST=2 TYP=3
	2850	CRIM	2 S/F	0525.5	0526.0	2.6	14.0	5.0		

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

Outstanding Occurrences

45
Mar 93

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean (10 ⁻²² W/m ² Hz)	Int	Remarks
30	2950	GORK	2 S/F	0525.6	0526.1	1.4	9.0			
	950	GORK	2 S/F	0525.7	0526.1	1.2	7.0			
	9100	GORK	1 S	0526.3	0526.6	0.6	4.0			
	245	LEAR	8 S	0556.0	0557.0	1.0	65.0			QL=4 ST=2 TYP=3
	9100	GORK	1 S	0645.9	0646.6	1.9	5.0			
	204	IZMI	42 SER	0736.0	0742.5	12.5	1100.0			
	245	LEAR	4 S/F	0741.0	0744.0	4.0	360.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0741.0	0742.0	1.0	40.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0741.0	0744.0	4.0	8.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0741.0	0742.0	1.0	68.0			QL=4 ST=3 TYP=3
	9100	GORK	1 S	0741.9	0742.3	1.5	4.0			
	127	TORN	40 F	0742.0	0745.8	4.0	420.0	90.0		
	610	LEAR	4 S/F	0745.0	0746.0	3.0	250.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0745.0	0746.0	3.0	130.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0745.0	0746.0	2.0	110.0			QL=4 ST=2 TYP=3
	9100	GORK	1 S	0745.1	0746.7	2.4	5.0			
	410	LEAR	8 S	0746.0	0746.0	2.0	16.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0746.0	0747.0	1.0	83.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0746.0	0747.0	1.0	46.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0935.0	0939.0	4.0	75.0			
	610	LEAR	8 S	0937.0	0938.0	2.0	28.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0937.0	0938.0	2.0	12.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0938.0	0938.0	1.0	90.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0938.0	0938.0	1.0	77.0			QL=4 ST=2 TYP=3
	536	ONDR	45 C	0938.5	0938.6	0.2	130.0			
	2950	GORK	23 GRF	1022.0	1028.7	11.0	2.0			
	950	GORK	45 C	1022.9	1026.0	7.7	6.0			
	950	GORK	45 C	1022.9	1027.2		6.0			
	536	ONDR	45 C	1023.5	1025.5	2.5	205.0			
	260	ONDR	42 SER	1024.0	1025.5	4.0				
	204	IZMI	45 C	1024.0	1026.6	4.0	2000.0			
	2850	CRIM	7 C	1025.0	1027.0		4.5	1.0		
	610	SVTO	49 GB	1025.0	1026.0	2.0	1100.0			QL=4 ST=2 TYP=6
	245	SVTO	8 S	1025.0	1026.0	2.0	87.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1025.0	1026.0	2.0	230.0			QL=4 ST=2 TYP=3
	2850	CRIM	7 C	1025.0	1025.9	6.0	12.0	4.0		
	2950	GORK	46 C	1025.3	1027.2		3.0			
	2950	GORK	46 C	1025.3	1025.8	2.2	9.0			
	9100	GORK	4 S/F	1025.3	1025.9	3.7	33.0			
	808	ONDR	2 S/F	1026.0	1031.0	6.5	95.0			
	2950	GORK	1 S	1041.0	1041.3	0.5	1.0			
	2950	GORK	1 S	1042.8	1043.1	0.5	1.0			
	9100	GORK	1 S	1057.7	1057.9	0.5	7.0			
	260	ONDR	42 SER	1128.0	1134.0	6.5	190.0			
	245	SGMR	8 S	1132.0	1133.0	1.0	74.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1219.0	1220.0	2.0	93.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1248.0	1248.0	U	340.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1248.0	1248.0	U	420.0			QL=4 ST=2 TYP=3
	33	UPIC	8 S	1248.4	1248.6	0.4				
	260	ONDR	42 SER	1248.5	1256.0	16.5				
	245	SGMR	49 GB	1252.0	1254.0	3.0	1200.0			QL=4 ST=2 TYP=6
	410	SGMR	49 GB	1252.0	1254.0	3.0	710.0			QL=4 ST=2 TYP=6
	536	ONDR	45 C	1253.0	1255.0	7.0				
	410	SVTO	49 GB	1253.0	1254.0	2.0	990.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1253.0	1254.0	2.0	1600.0			QL=4 ST=2 TYP=6
	1415	SGMR	8 S	1254.0	1254.0	1.0	37.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1254.0	1254.0	1.0	34.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1254.0	1254.0	1.0	63.0			QL=2 ST=2 TYP=3
	4995	SVTO	8 S	1254.0	1254.0	1.0	36.0			QL=4 ST=2 TYP=3
	610	SVTO	49 GB	1254.0	1254.0	1.0	660.0			QL=4 ST=2 TYP=6
	2695	SGMR	4 S/F	1254.0	1254.0	666.0	44.0			QL=2 ST=1 TYP=3
	2850	CRIM	3 S	1254.4	1254.9	4.0	55.0	18.0		
	3000	ONDR	2 S/F	1255.0	1255.5	3.0				
	808	ONDR	2 S/F	1255.0	1255.5	6.0	90.0			
	245	SGMR	8 S	1331.0	1331.0	U	95.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1331.0	1331.0	1.0	110.0			QL=4 ST=2 TYP=3
	33	UPIC	8 S	1331.8	1332.0	0.5				
	245	SGMR	8 S	1640.0	1640.0	U	70.0			QL=4 ST=2 TYP=3
	280	CUBA	6 S	1830.7E	1831.0U	6.60	2670.0			

46
Mar 93

SOLAR RADIO EMISSION Outstanding Occurrences

MARCH 1993

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
30	235 CUBA	6 S	1830.7	1831.5	6.6	30.0			
	610 SGMR	4 S/F	2037.0	2039.0	3.0	64.0			QL=2 ST=2 TYP=3
	2695 PALE	8 S	2038.0	2038.0	1.0	37.0			QL=4 ST=2 TYP=3
	4995 PALE	8 S	2038.0	2038.0	1.0	24.0			QL=2 ST=2 TYP=3
	245 PALE	8 S	2038.0	2038.0	1.0	440.0			QL=4 ST=2 TYP=3
	410 PALE	49 GB	2038.0	2038.0	1.0	680.0			QL=4 ST=2 TYP=6
	245 SGMR	8 S	2038.0	2038.0	2.0	420.0			QL=4 ST=2 TYP=3
	410 SGMR	49 GB	2038.0	2038.0	2.0	560.0			QL=4 ST=2 TYP=6
	2800 PENT	3 S	2038.6	2039.1	2.5	32.2	7.0		
	610 PALE	8 S	2039.0	2039.0	U	75.0			QL=4 ST=2 TYP=3
	235 CUBA	48 C	2039.5	2039.9	13.4	854.0			
	280 CUBA	48 C	2039.5	2039.9	13.4	225.0			
	245 PALE	4 S/F	2252.0	2255.0	5.0	48.0			QL=4 ST=2 TYP=3
	410 LEAR	8 S	2257.0	2258.0	1.0	34.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	2257.0	2258.0	2.0	97.0			QL=4 ST=2 TYP=3
	610 LEAR	8 S	2257.0	2258.0	2.0	18.0			QL=4 ST=2 TYP=3
	410 PALE	8 S	2257.0	2258.0	2.0	40.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	2257.0	2258.0	2.0	78.0			QL=4 ST=2 TYP=3
	410 LEAR	49 GB	2345.0	2345.0	1.0	790.0			QL=4 ST=2 TYP=6
	610 LEAR	8 S	2345.0	2346.0	2.0	120.0			QL=4 ST=2 TYP=3
	245 LEAR	49 GB	2345.0	2345.0	1.0	5100.0			QL=4 ST=2 TYP=6
	245 PALE	49 GB	2345.0	2345.0	2.0	4200.0			QL=4 ST=2 TYP=6
	410 PALE	49 GB	2345.0	2345.0	1.0	970.0			QL=4 ST=2 TYP=6
	610 PALE	8 S	2345.0	2346.0	1.0	82.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	2346.0	2346.0	U	100.0			QL=/ ST=/ TYP=5
	410 LEAR	8 S	2346.0	2346.0	U	790.0			QL=/ ST=/ TYP=5
31	127 TORN	43 NS	0927.0		333.0	1.0	1.0		V=1
	280 CUBA	44 NS	1359.0E		386.00		13.0		
	235 CUBA	44 NS	1359.0E		386.00		10.0		
	410 LEAR	4 S/F	0003.0	0004.0	3.0	29.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0003.0	0004.0	1.0	88.0			QL=4 ST=2 TYP=3
	245 PALE	4 S/F	0003.0	0004.0	3.0	68.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0157.0	0157.0	U	130.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	0157.0	0157.0	U	96.0			QL=4 ST=2 TYP=3
	410 LEAR	8 S	0201.0	0202.0	2.0	18.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0202.0	0202.0	1.0	220.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	0202.0	0202.0	1.0	130.0			QL=4 ST=2 TYP=3
	410 LEAR	8 S	0204.0	0205.0	2.0	45.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0204.0	0205.0	2.0	140.0			QL=4 ST=2 TYP=3
	610 LEAR	8 S	0204.0	0205.0	2.0	25.0			QL=4 ST=2 TYP=3
	410 PALE	8 S	0205.0	0205.0	1.0	61.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	0205.0	0205.0	1.0	85.0			QL=4 ST=2 TYP=3
	9100 GORK	22 GRF	0350.7	0400.0	57.3	11.0			
	950 GORK	1 S	0357.6	0400.0	3.6	4.0			
	2950 GORK	1 S	0359.2	0359.7	1.3	4.0			
	15400 PALE	4 S/F	0405.0	0408.0	5.0	130.0			QL=4 ST=2 TYP=3
	9100 GORK	1 S	0458.1	0458.4	1.3	5.0			
	15400 SVTO	8 S	0556.0	0557.0	2.0	86.0			QL=2 ST=3 TYP=3
	8800 SVTO	8 S	0557.0	0557.0	U	22.0			QL=2 ST=3 TYP=3
	245 LEAR	4 S/F	0607.0	0610.0	4.0	330.0			QL=4 ST=2 TYP=3
	204 IZMI	42 SER	0608.0	0611.0	4.0	180.0			
	610 LEAR	8 S	0608.0	0608.0	2.0	27.0			QL=4 ST=2 TYP=3
	410 LEAR	4 S/F	0608.0	0608.0	3.0	48.0			QL=4 ST=2 TYP=3
	245 SVTO	4 S/F	0608.0	0610.0	3.0	280.0			QL=4 ST=2 TYP=3
	410 SVTO	8 S	0608.0	0608.0	1.0	60.0			QL=4 ST=2 TYP=3
	2850 CRIM	42 SER	0608.5	0610.2	3.0	6.0	2.0		
	3013 IZMI	7 C	0608.5	0610.4	4.5	10.0	5.0		
	2950 GORK	2 S/F	0608.6	0610.4	3.4	4.0			
	950 GORK	46 C	0608.7	0610.4		20.0			
	950 GORK	46 C	0608.7	0609.5	2.8	8.0			
	9100 GORK	20 GRF	0609.9	0613.3	8.9	4.0			
	2950 GORK	45 C	0903.9	0905.4	9.9	14.0			
	2950 GORK	45 C	0903.9	0908.4		14.0			
	1415 SVTO	8 S	0904.0	0904.0	1.0	41.0			QL=4 ST=2 TYP=3
	2850 CRIM	45 C	0904.0	0905.2	9.3	18.0	6.0		
	2850 CRIM	45 C	0904.0	0908.3		19.0			
	9100 GORK	46 C	0904.0	0908.3		51.0			
	9100 GORK	46 C	0904.0	0905.4	8.5	12.0			

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

Outstanding Occurrences

47
Mar 93

MARCH 1993

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
31	3013	IZMI	7 C	0904.2	0908.5	12.0	18.0	9.0		
	950	GORK	4 S/F	0904.3	0904.7	0.9	29.0			
	950	GORK	29 PBI	0905.2	0908.1	6.5	5.0			
	15400	LEAR	8 S	0907.0	0908.0	1.0	28.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0907.0	0908.0	1.0	36.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0907.0	0908.0	1.0	27.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0934.0	0942.5		400.0			
	33	UPIC	42 SER	0935.0		366.0				
	245	LEAR	4 S/F	0940.0	0942.0	5.0	460.0			QL=4 ST=2 TYP=3
	260	ONDR	48 C	0940.0	0942.5	6.0	450.0			
	245	SVTO	4 S/F	0941.0	0942.0	3.0	360.0			QL=4 ST=2 TYP=3
	127	TORN	48 C	0941.7	0946.0	5.5	300.0	40.0		
	410	LEAR	4 S/F	0942.0	0945.0	5.0	49.0			QL=4 ST=2 TYP=3
	536	ONDR	48 C	0943.5	0944.5	2.5	60.0			
	410	SVTO	8 S	0944.0	0944.0	U	96.0			QL=4 ST=2 TYP=3
	950	GORK	1 S	0944.1	0944.3	1.7	8.0			
	808	ONDR	1 S	0944.5	0945.5	1.0	80.0			
	204	IZMI	41 F	1023.0	1025.5		100.0			
	260	ONDR	45 C	1142.0	1147.5	15.0	100.0			
	245	SGMR	8 S	1144.0	1145.0	1.0	58.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1147.0	1155.5	20.00	120.0			
	536	ONDR	41 F	1153.5	1157.5	5.0	55.0			
	245	SGMR	8 S	1340.0	1340.0	U	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1340.0	1340.0	U	110.0			QL=4 ST=2 TYP=3
	127	TORN	48 C	1400.0	1403.6	4.0	620.0	80.0		
	245	SVTO	8 S	1519.0	1520.0	2.0	450.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1520.0	1520.0	1.0	420.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1614.0	1616.0	2.0	64.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	1703.0	1705.0	3.0	150.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	1704.0	1705.0	3.0	59.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1705.0	1705.0	1.0	50.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1705.0	1705.0	1.0	170.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1801.0	1804.0	4.0	53.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	1802.0	1804.0	4.0	57.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2253.0	2253.0	U	85.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2253.0	2253.0	1.0	59.0			QL=4 ST=2 TYP=3

Reports are received routinely from the following observatories:

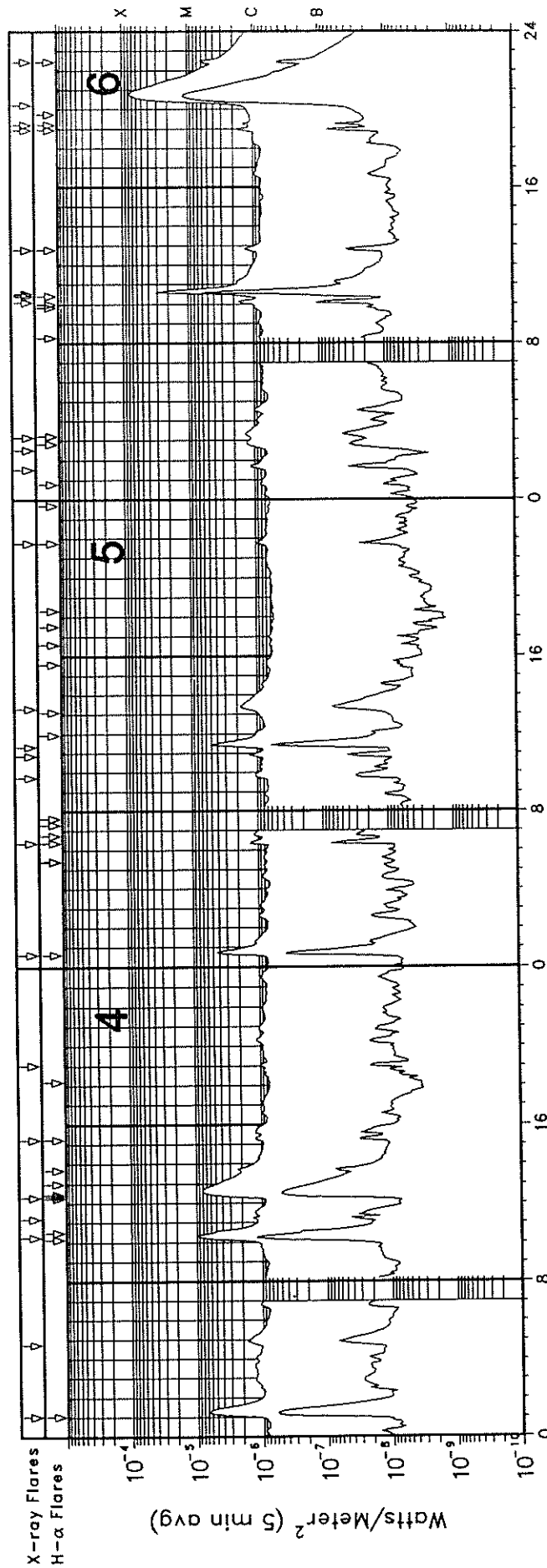
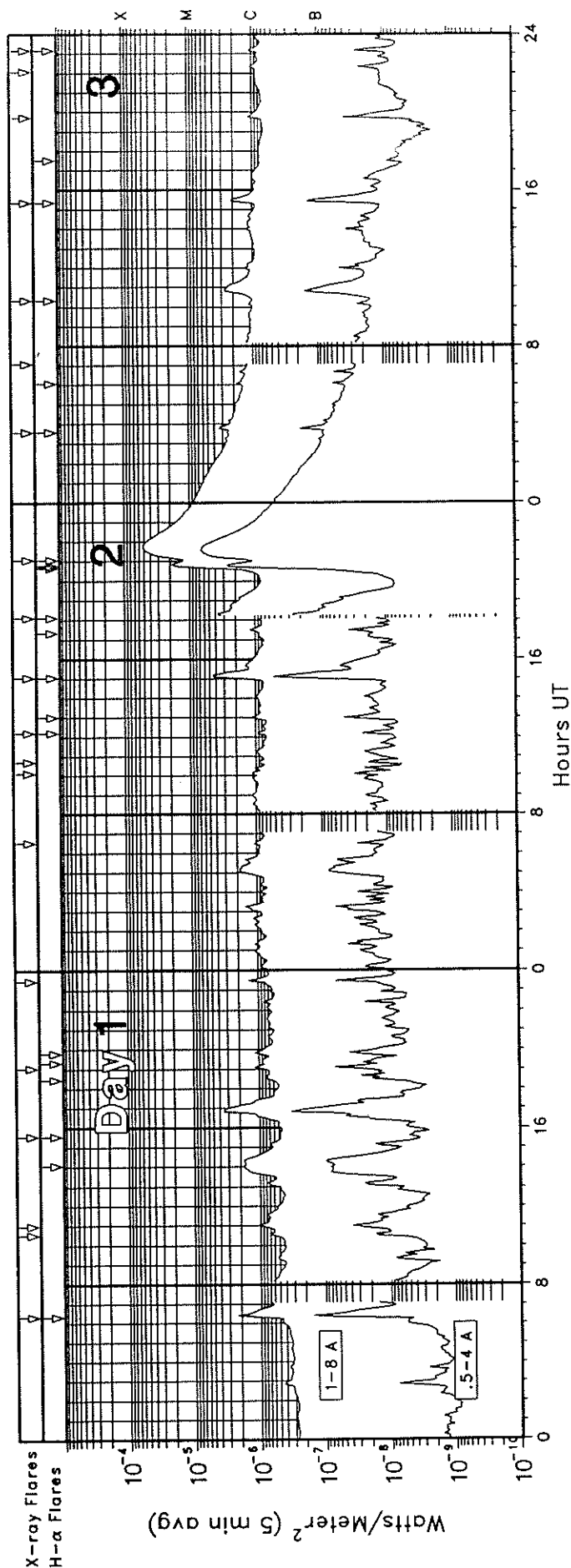
BERN = Berne	HUMN = Humain	ONDR = Ondrejov	SVTO = San Vito
CRIM = Crimea	IZMI = IZMIRAN	PEKG = Peking	TORN = Torun
CUBA = Havana	KISV = Kislovodsk	PALE = Palehua	TRST = Trieste
GORK = Gorky	KRAK = Krakow	PENT = Penticton	TYKW = Toyokawa
HIRA = Hiraiso	LEAR = Learmonth	POTS = Potsdam	UPIC = Upice
HUAN = Huancayo	NOBE = Nobeyama	SGMR = Sagamore Hill	

Explanation of Type Code:

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

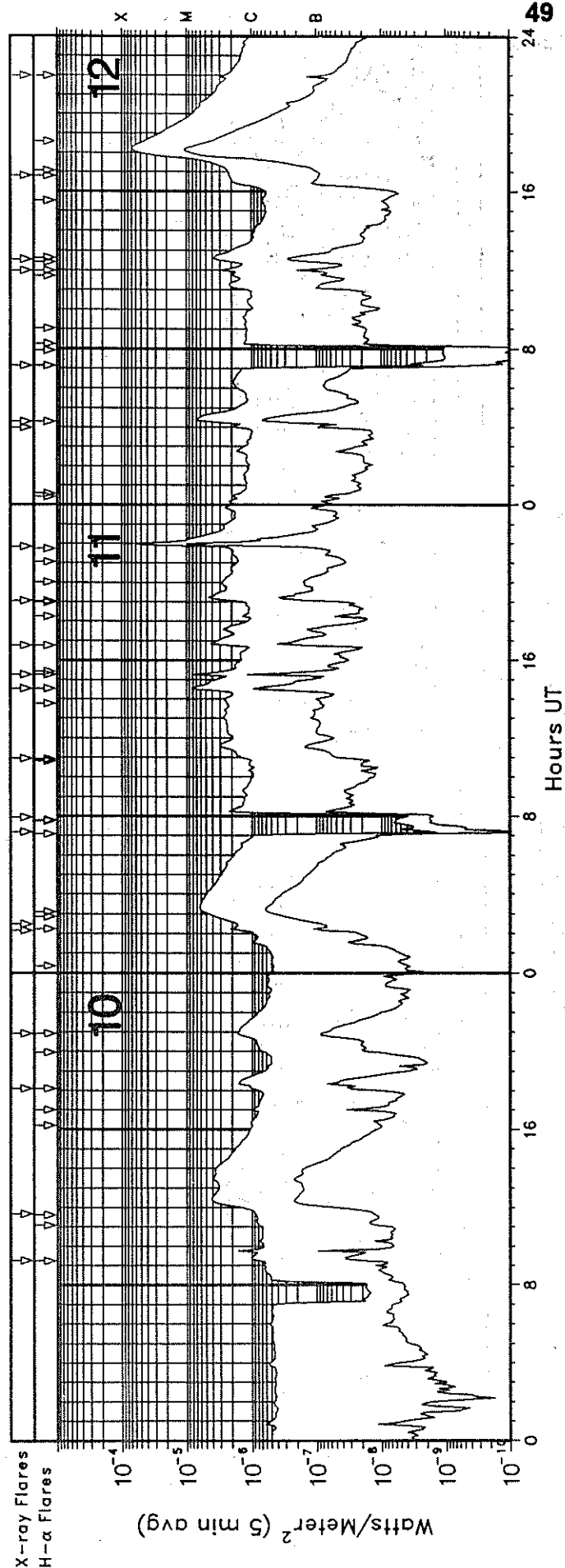
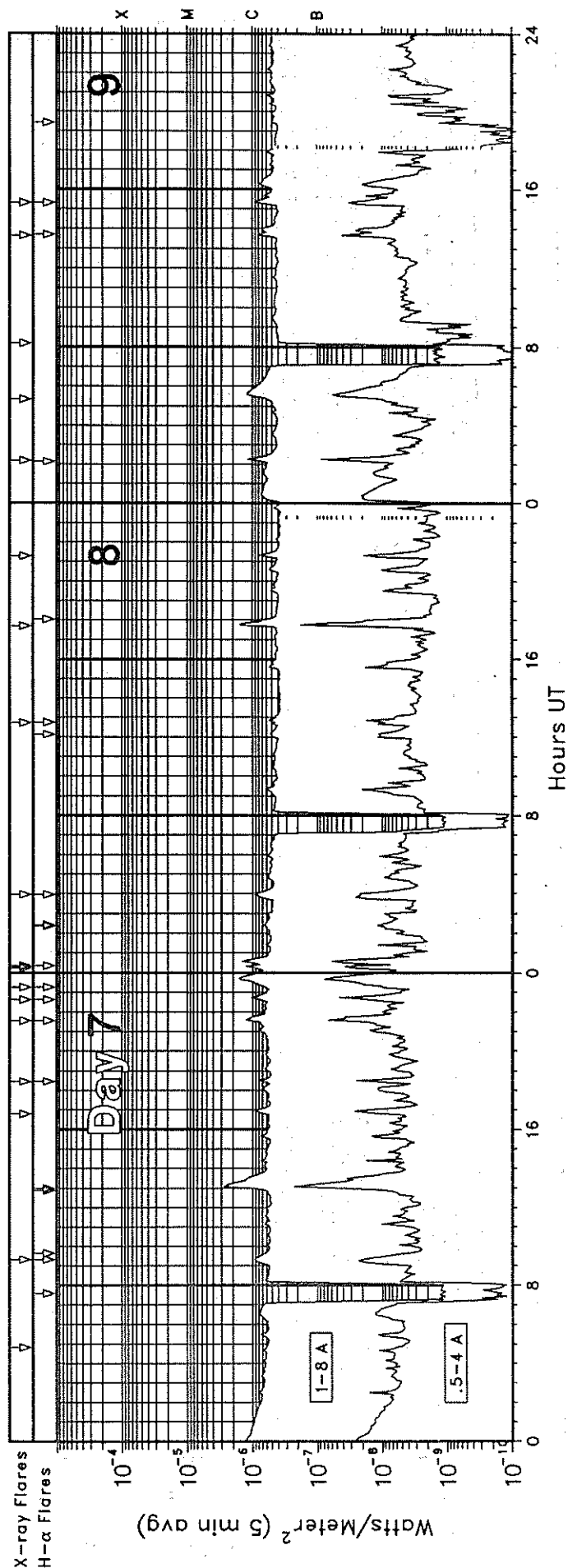
RSTN Site Information: Beginning in April 1986, the RSTN sites LEAR, PALE, SGMR, and SVTO fixed frequency solar radio data are periodically adjusted to several world standard stations. These world standard stations include: Kislovodsk, USSR 15,500 MHz; Penticton, Canada 2800 MHz; Hiraiso, Japan 500 and 200 MHz; and Toyokawa, Japan 9400, 3750, 2000 and 1000 MHz.

GOES-7 X-RAY DETECTOR March 1993



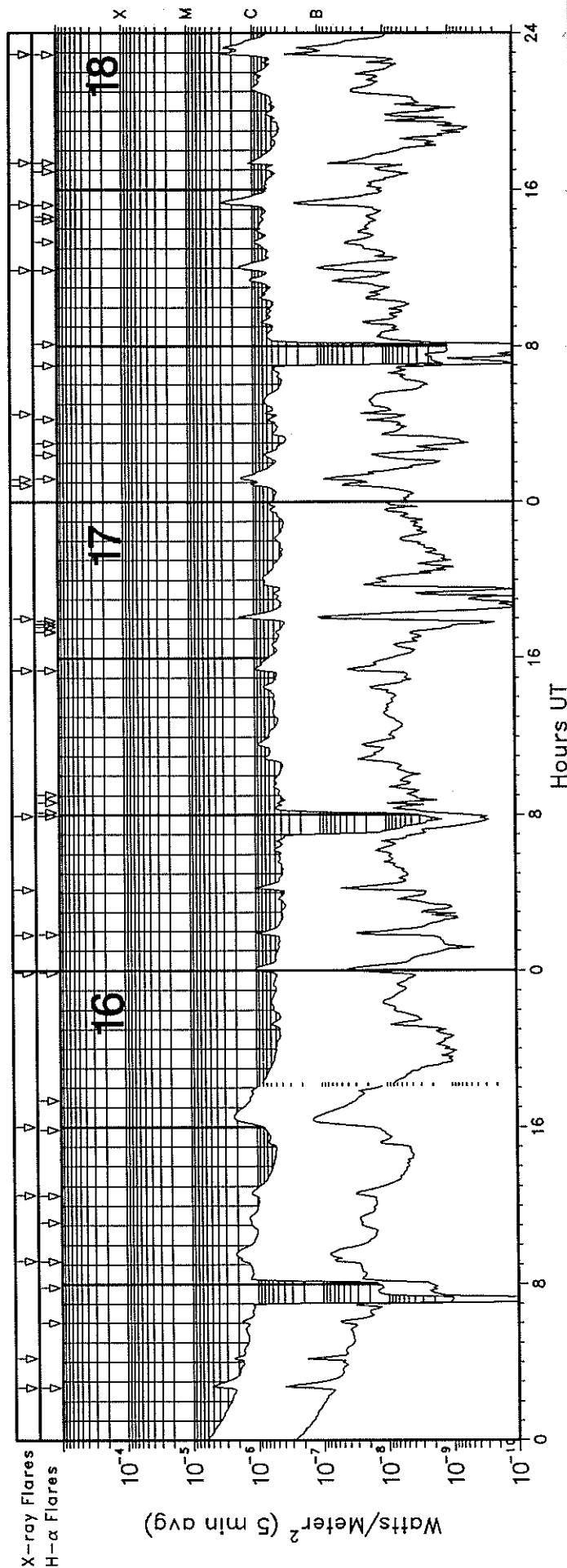
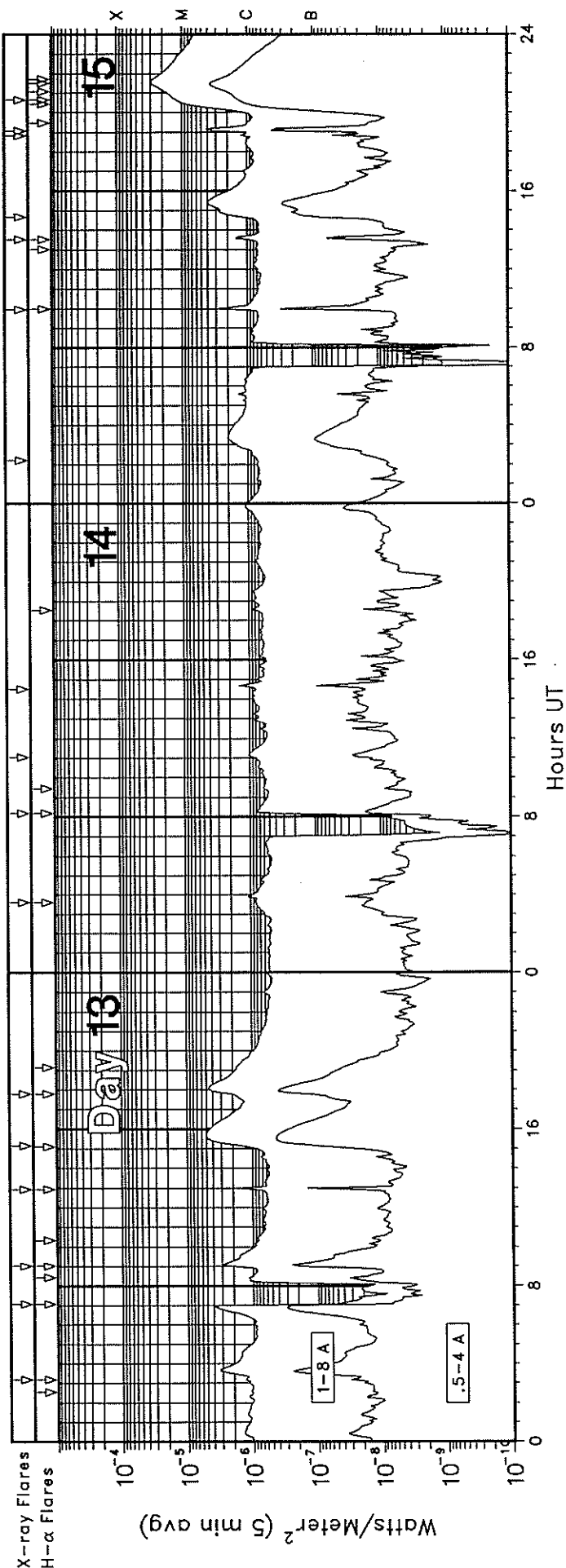
GOES-7 X-RAY DETECTOR

March 1993



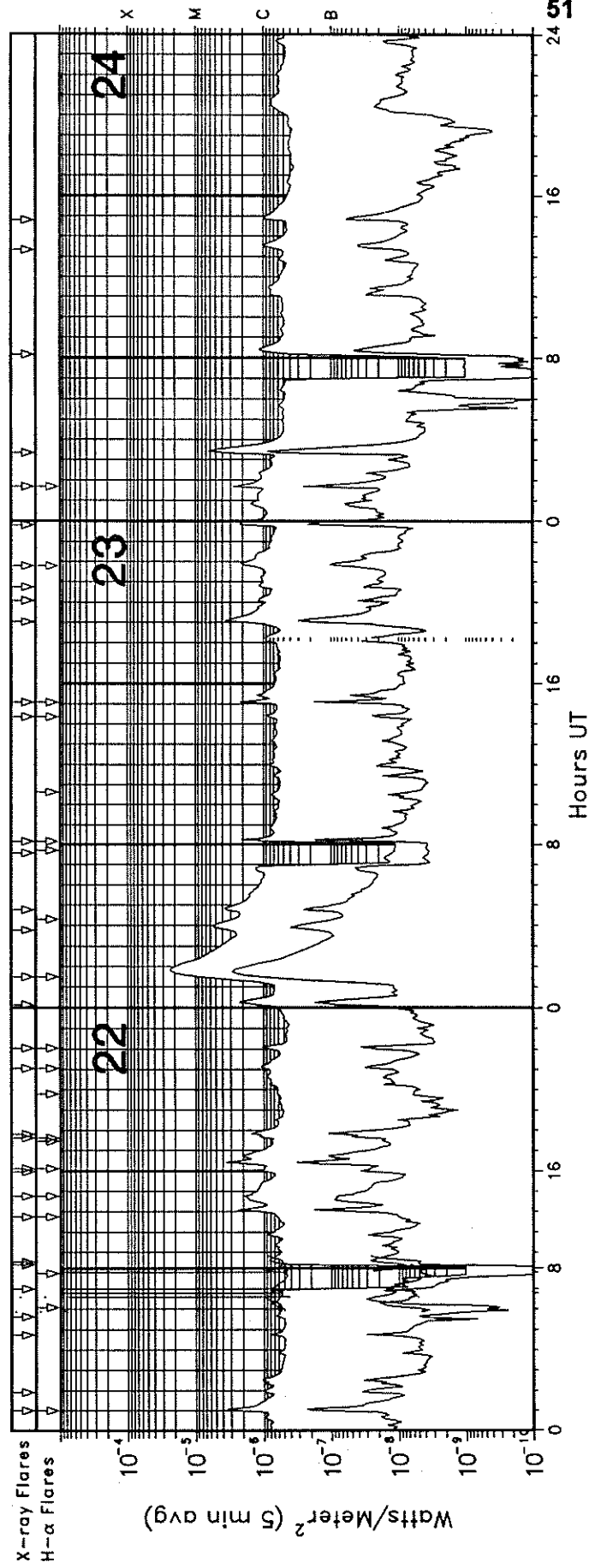
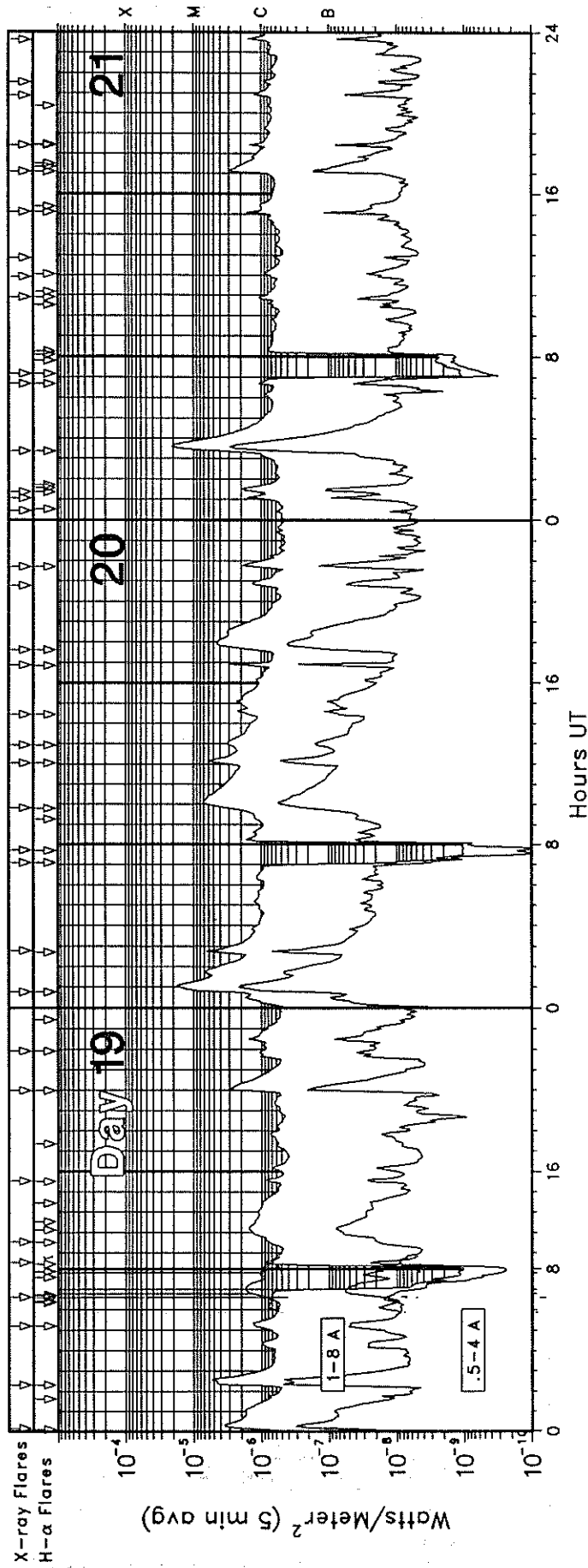
GOES-7 X-RAY DETECTOR

March 1993



GOES-7 X-RAY DETECTOR

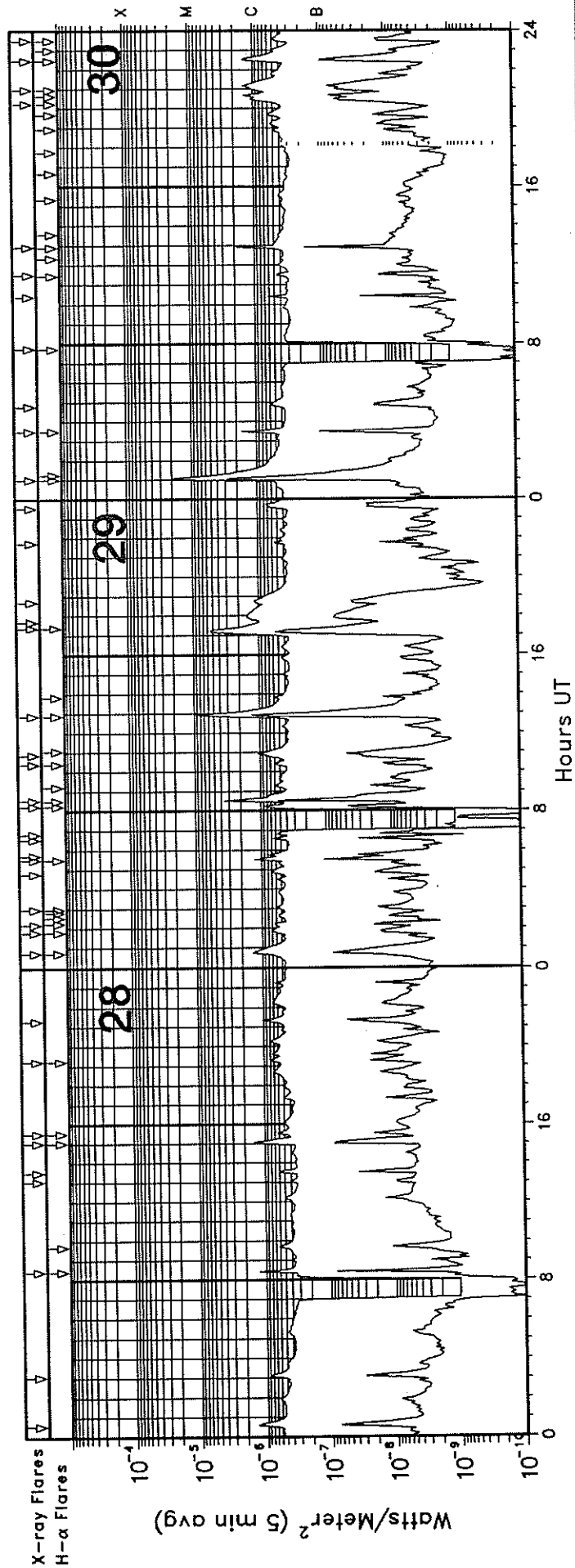
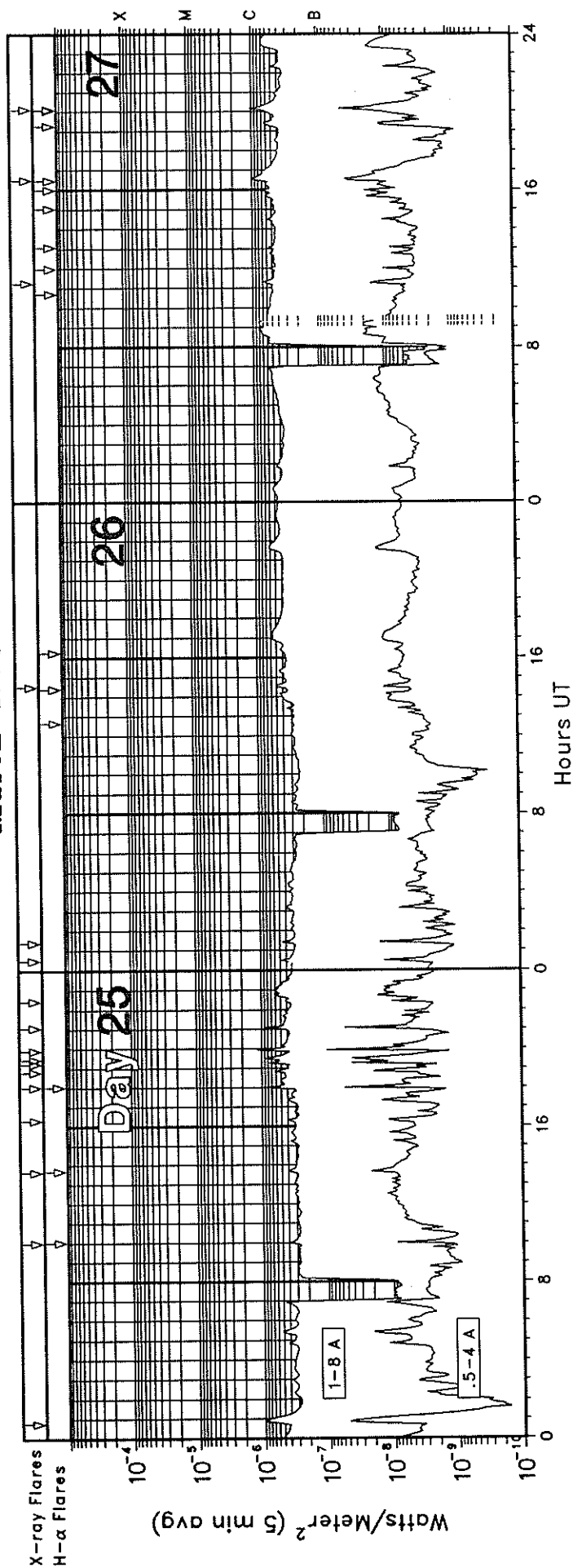
March 1993



GOES-7 X-RAY DETECTOR

March 1993

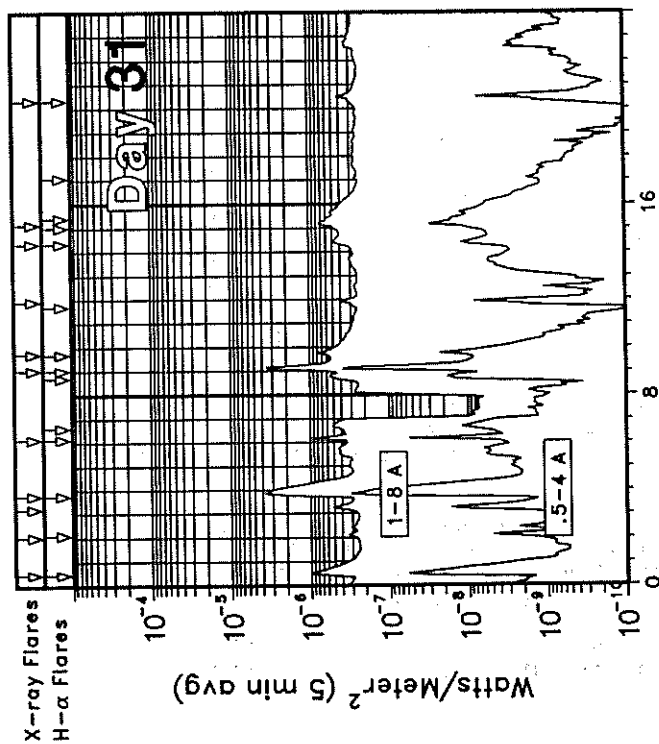
52
Mar 93



GOES-7 X-RAY DETECTOR

March 1993

53
Mar 93



54
Mar 93

GOES SOLAR X-RAY FLARES
Preliminary Listing

March 1993

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt Xray	NOAA/ USAF Region
01	0620	0626	0637	N09	E23	1F C2.6	7435
01	1031	1035	1043			B7.5	
01	1059	1102	1108			C1.1	
01	1533E	1652	1740D	N09	E17	1N C3.9	7435
01	1903	1908	1914			C1.2	
01	2328	2332	2336			C1.5	
02	0631	0634	0637			C1.2	
02	1007	1010	1013			C1.3	
02	1042	1045	1048			C1.0	
02	1212	1213	1219	N12	W57	SF C1.1	7433
02	1503	1510	1531	S07	E82	SF C5.0	7440
02	1807	1820	1926	N07	E03	1F C4.2	7435
02	2104	2107	2131	S07	E81	SF M5.1	7440
03	0334	0338	0347	N07	W02	SF C3.7	7435
03	0705	0709	0714			C3.0	
03	1021	1054	1132	N07	W09	SF C2.7	7435
03	1521	1528	1555	S09	E70	SF C2.4	7440
03	1943	1948	1959			C1.1	
03	2204	2222	2229			C1.0	
03	2310	2315	2331	N11	W15	SF C1.1	7435
04	0102	0107	0141	N11	W15	1N C6.8	7435
04	0444	0459	0510			C1.7	
04	1016	1017	1106	N10	W23	1N M1.0	7435
04	1112	1116	1119			C1.5	
04	1217	1225	1357	S14	W56	2N C8.1	7434
04	1515	1521	1532	S01	W26	SF C1.4	7435
04	1902	1905	1907			C1.3	
05	0039	0042	0117	N09	E62	1F C4.5	7441
05	0622	0622	0632	N11	W30	SF C1.9	7435
05	0945	0956	1005			C1.0	
05	1052	1056	1103			C1.3	
05	1120	1126	1136			C5.9	
05	1318	1322	1329	S08	E36	SF C1.7	7439
05	2146	2147	2200	S09	E41	SF C1.1	7440
06	0132	0145	0150			C1.2	
06	0231	0255	0309			C1.3	
06	0310	0323	0327			C1.4	
06	1006	1010	1013			C2.7	
06	1025	1029	1031			C2.2	
06	1032	1038	1052			M3.8	
06	1246	1247	1258	N11	W48	SF C1.3	7435
06	1856	1900	1911	N12	W50	1F C2.0	7435
06	1912	1915	1930	S09	E31	SF C1.9	7440
06	2014	2033	2218	S04	E29	3B M7.7	7440
06	2226	2229	2242	S09	E29	SB C7.9	7440
07	0450	0531	0543			B9.0	
07	0920E	0920U	0945D	S12	E11	SF B9.3	7439
07	1647	1657	1705			B9.6	
07	1828	1830	1834	S04	E18	SF B8.5	7440
07	2134	2138	2157	S05	E17	SF C1.4	7440
07	2238	2248	2257	S06	E12	SF C1.2	7440
07	2316	2347	0030D	N10	E21	SN C1.6	7441
08	0016	0020	0024			C1.5	
08	0022	0036	0057	S05	E11	SF C1.5	7440
08	0358	0358	0415	N11	E18	SF C1.1	7441
08	1242	1245	1247			B6.8	
08	1742	1749	1754			C2.1	
08	2116	2121	2127			B8.2	

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt Xray	NOAA/ USAF Region
09	0210	0218	0223			C1.4	
09	0520	0537	0601			C1.2	
09	0810	1342	1441			B8.7	
09	1338	1342	1351			B9.5	
09	1517	1518	1625	S06	W09	SF B9.6	7440
10	0916	0947	1002	S04	W20	SF C2.3	7440
10	1141	1219	1440	S05	W18	1F C4.1	7440
10	1807	1824	1911	S03	W28	1F C1.7	7440
10	2055	2057	2125	S02	W27	SF C1.6	7440
11	0210	0218	0225			C2.3	
11	0229	0302	0445	S04	W42	1F C6.3	7440
11	0712	0719	0731	S05	W36	SF C1.7	7440
11	0757E	0800U	0813	N18	E81	SF C3.4	7448
11	1057	1149	1201	S10	W45	SF C3.0	7439
11	1432	1436	1459	N15	E73	SF C9.7	7448
11	1515	1515	1527	S04	W34	SF M1.1	7440
11	1646	1648	1655	N14	E73	SF C4.5	7448
11	1903	1907	1912	S06	W39	SF C4.6	7440
11	2151	2158	2221D	N15	E74	2B M7.3	7448
12	0358	0406	0413			C1.9	
12	0418	0418	0426	N15	E68	SF C7.0	7448
12	0708	0712	0737	N15	E66	SF C4.9	7448
12	1159	1201	1218	N13	E65	SN C3.2	7448
12	1232	1232	1238	N17	E63	SF C3.8	7448
12	1648	1820	2042	S00	W51	3B M7.0	7440
12	2157	2157	2200	S04	W54	SF C3.9	7440
13	0312	0313	0324	N17	E47	SF C3.3	7448
13	0705E	0711	0715	S08	W61	SF C4.2	7440
13	0901	0902	0943	N17	E51	SF C2.9	7448
13	1257	1301	1305	S08	W63	SF C3.9	7440
13	1509	1521	1703	N17	E50	SF C5.1	7448
13	1747	1819	1831	S01	W63	SF C4.5	7440
14	0337	0354	0355	N16	E40	SF C1.1	7448
14	0811	0813	0818	S08	W73	SF C1.1	7440
14	1103	1109	1125			C1.0	
14	1431	1441	1446			C1.6	
15	0213	0323	0412			C2.0	
15	0958	1003	1010			C3.0	
15	1332	1343	1400	N17	E23	SF C1.6	7448
15	1441	1528	1556			C4.0	
15	1849	1852	1854			C1.6	
15	1904	1911	1914			C5.5	
15	2039	2045	2120	S03	W88	2F M2.9	7440
16	0241	0244	0325	N14	E16	SN C5.5	7448
16	0411	0415	0418			C2.9	
16	0911	0914	0919	N15	E07	SF C2.2	7448
16	1233E	1233U	1245	N14	E06	SF C1.2	7448
16	1601	1629	1707			C2.2	
16	2353	0009	0038	N17	E04	SF C1.0	7448
17	0149	0156	0201			C1.1	
17	0411	0417	0426			C1.0	
17	0757	0758	0806	N17	W00	SF B8.1	7448
17	1522E	1526	1616	N17	W03	SF C1.0	7448
17	1801	1802	1832	N19	W03	SF C1.7	7448
18	0051	0055	0101			C1.1	
18	0110	0115	0122			C1.6	

GOES SOLAR X-RAY FLARES
Preliminary Listing

55
Mar 93

March 1993

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region
18	0429	0434	0440				B6.8	
18	1154	1201	1227	N17	W15	SF	C1.9	7448
18	1514	1518	1606	N18	W16	SF	C3.2	7448
18	1721	1721	1732	N17	W14	SF	C1.3	7448
18	2255E	2256U	2359	N16	W22	SN	C3.1	7448
18	2254E	2312U	2329	N17	W22	SF	C2.7	7448
19	0009	0017	0053	N12	W21	SF	C3.6	7448
19	0219	0220	0256	N16	W23	SF	C5.6	7448
19	0512	0520	0535	S13	E45	SF	C1.3	7452
19	0818	0819	0825	N14	W22	SF	C1.0	7448
19	0950	1011	1041	S17	E33	SF	C1.7	7451
19	1233	1309	1341				C1.5	
19	1532	1533	1546	S13	E40	SF	B9.7	7452
19	1959	2001	2035	N21	W29	SN	C2.8	7448
19	2154	2157	2202	N17	W32	SF	C1.6	7448
20	0047	0100	0320	N18	W37	1N	M1.8	7448
20	0246	0247	0319	N18	W33	SN	C7.2	7448
20	0706	0706	0719	N15	W38	SF	C3.8	7448
20	0743	0748	0819	N18	W41	SF	C1.8	7448
20	0949	1002	1056	N16	W41	SF	C7.2	7448
20	1203	1213	1232	N17	W42	SF	C6.4	7448
20	1255	1322	1334	N14	W41	SF	C2.5	7448
20	1426	1435	1444	N18	W44	SF	C2.5	7448
20	1651	1657	1706	N19	W41	SN	C3.9	7448
20	1736	1752	1932	N19	W43	1N	C4.6	7448
20	2046	2057	2106				C1.4	
20	2143	2143	2205	N20	W49	SF	C2.0	7448
21	0026	0029	0031				B8.1	
21	0103	0109	0112				C1.8	
21	0121	0127	0156	S13	E23	SF	C2.3	7452
21	0322	0341	0423	N16	W47	1N	M2.1	7448
21	0640	0643	0656	N18	W51	SF	C1.1	7448
21	0709	0717	0736	N18	W53	SF	C1.8	7448
21	1054	1054	1100	N17	W55	SF	C1.4	7448
21	1156	1159	1201				B9.0	
21	1252	1256	1258				B8.8	
21	1507	1508	1512	N19	W56	SF	C3.4	7448
21	1705	1706	1745	S12	E13	SF	C3.3	7452
21	1824	1827	1833	N19	W56	SF	C2.3	7448
21	2052	2057	2108				C1.3	
21	2132	2135	2139				C1.0	
21	2337	2344	2348				C1.6	
22	0100	0107	0135	S12	E03	SF	C3.8	7452
22	0154	0157	0201				C1.0	
22	0444	0448	0451				B8.7	
22	0538	0541	0544				B7.4	
22	0810	0842	1107				B8.9	
22	1012	1016	1019				B9.5	
22	1131	1135	1147				B8.8	
22	1345	1405	1428	S11	W03	SF	C2.5	7452
22	1445	1446	1455	S12	W04	SF	C2.4	7452
22	1558	1602	1616				C1.1	
22	1608	1624	1708	S11	W06	SN	C4.4	7452
22	1738	1744	1750	S11	W05	SF	C1.3	7452
22	1748	1752	1757				C1.5	
22	2103	2112	2116	N18	W75	SF	C1.2	7448
22	2203	2205	2229	S11	W08	SF	C1.1	7452
23	0010	0018	0027				C2.3	
23	0129	0144	0204	N18	W78	SF	M2.3	7448
23	0347	0359	0410				C5.6	

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region
23	0445	0451	0458				C3.8	
23	0734	0740	0751				C1.5	
23	0809	0816	0821				C2.6	
23	1421	1423	1434	N18	W85	SF	B9.5	7448
23	1504	1506	1535	N16	W78	1N	C2.6	7448
23	1901	1906	1916				C4.2	
23	2005	2009	2014				C1.2	
23	2045	2051	2125				C1.1	
23	2147	2150	2159	N18	W90	SF	C2.3	7448
23	2347	2355	0003				C2.5	
24	0140	0142	0146	N15	W88	SN	C3.1	7448
24	0320	0326	0337				C6.6	
24	0809	0826	0851				C1.1	
24	1319	1335	1345				C1.0	
24	1448	1457	1514				C1.0	
25	0046	0057	0105				C1.0	
25	0959	1003	1006				B5.4	
25	1338	1341	1343				B4.6	
25	1618	1621	1623				B5.6	
25	1801	1801	1813	S09	W46	SF	C1.1	7452
25	1848	1852	1854				B7.6	
25	1914	1920	1922				C1.0	
25	1926	1931	1937				B9.5	
25	1954	1959	2002				C1.5	
25	2104	2107	2110				C1.1	
25	2226	2229	2232				B5.2	
26	0031	0034	0036				B6.2	
26	0123	0127	0129				B6.1	
26	1431	1432	1436	N04	E49	SF	B6.3	
27	1116	1120	1124				B7.8	
27	1630	1636	1647				C1.0	
27	2007E	2023U	2031	N05	E55	SF	C1.2	7461
28	0032	0038	0044				C1.5	
28	0303	0309	0315				B9.9	
28	0825	0825	0828	N07	E48	SF	C1.8	7461
28	1302	1306	1309				B4.6	
28	1330	1335	1338				B8.1	
28	1501	1503	1509	S12	E66	SF	C2.1	7463
28	1530	1530	1540	N03	E46	SF	B6.6	7461
28	1913	1915	1930	S13	E63	SF	B8.0	7463
28	2117	2123	2128				C1.1	
29	0045	0047	0111	N05	E42	SF	C1.6	7461
29	0147	0147	0213	N05	E38	SF	B7.1	7461
29	0212	0215	0218				B8.9	
29	0258	0300	0310	N05	E44	SF	B7.0	7461
29	0448	0454	0508				B7.0	
29	0530	0532	0535	N05	E43	SF	C1.7	7461
29	0543	0547	0550				B8.2	
29	0633	0639	0642				B7.0	
29	0650	0654	0657				B6.4	
29	0815	0817	0820	N05	E41	SF	C1.2	7461
29	0832	0833	0841	N04	E41	SN	C9.4	7461
29	1023	1023	1044D	S10	E57	SF	B6.2	7463
29	1052	1057	1102				C1.1	
29	1252	1256	1315	N04	E36	SF	M1.0	7461
29	1723E	1723U	1736	N03	E32	SF	C7.1	7461
29	1741	1802	1813				C1.5	
29	1842	1844	1845				C1.2	
29	2144	2147	2150				B7.0	
29	2332	2347	2351				B8.1	

56
Mar 93

GOES SOLAR X-RAY FLARES
Preliminary Listing

March 1993

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
30	0100	0103	0145	N04	E31	1B	M2.6	7461
30	0329	0332	0340	S11	E47	SF	C1.9	7463
30	0447	0456	0507				B5.8	
30	0745	0747	0756	S10	E44	SF	B8.3	7463
30	1024	1028	1030				B8.7	
30	1130	1134	1141	S12	E39	SF	B6.1	7463
30	1254	1255	1259	N05	E26	SF	C3.3	7461
30	2013	2033	2049	N03	E22	SF	C1.5	7461
30	2056	2058	2142	N04	E17	SF	C1.4	7461
30	2226	2229	2248	N04	E17	SF	C1.4	7461
30	2330	2332	0003	N03	E17	SF	B5.3	7461

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
31	0027	0034	0049	N01	E15	SF	C1.0	7461
31	0201	0209	0211				B3.6	
31	0311	0316	0323				B5.7	
31	0345	0347	0429	N02	E15	SF	C3.8	7461
31	0609	0611	0626	S11	E28	SF	C1.3	7463
31	0902	0908	0920	S11	E29	SF	B5.7	7463
31	0943	0947	0950				B8.4	
31	1155	1156	1207	S11	E25	SF	B4.3	7463
31	1421	1422	1435	N04	E08	SF	B4.8	7461
31	1510	1515	1522	S12	E26	SF	B8.0	7463
31	2020	2030	2041	S12	E23	SF	B4.5	7463

EDITOR's NOTE: Please note that whenever optical flares are given, the times given are times of the optical flares and not the times of the X-ray flares. These data are taken directly from the NOAA SEL "Preliminary Report and Forecast of Solar Geophysical Data" weekly report.

Preliminary GOES Satellite Data
Daily Average X-ray Background
Apr 1992 - Mar 1993

Day	1992										1993	
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	C1.2	B4.2	B1.4	B3.9	B3.2	B1.2	B1.9	B6.3	B4.0	B3.3	B9.2	B4.5
2	B7.5	B4.5	B1.4	B3.6	B4.6	B1.7	B2.3	B7.9	B4.6	B3.4	B5.1	B7.6
3	B7.8	B3.5	B1.6	B4.1	B7.1	B2.0	B2.2	B4.9	B4.5	B3.3	B5.1	C1.0
4	B9.7	B6.3	B1.7	B3.1	B5.2	B3.5	B2.6	B5.4	B4.2	B2.3	B6.3	B8.2
5	C1.0	B7.6	B2.0	C1.1	B3.8	B9.2	B4.2	B5.0	B3.6	B2.4	B8.6	B6.5
6	B6.8	B4.4	B2.3	C1.2	B3.7	C1.1	B4.4	B4.3	B3.6	B2.7	B8.1	B7.4
7	B5.0	B4.3	B2.4	B8.8	B4.3	C1.7	B6.0	B3.4	B3.3	B3.3	B7.9	B3.5
8	B6.0	B3.2	B2.4	B7.3	B5.4	B7.9	B4.3	B3.0	B6.2	B3.4	B8.5	B2.3
9	B4.3	B2.8	B3.3	B7.0	B4.8	B6.4	B3.2	B3.5	B4.5	B2.5	C1.0	B2.6
10	B4.1	B2.4	B3.5	B8.5	B5.4	B4.0	B2.5	B3.6	B5.1	B2.7	B8.2	B3.0
11	B4.0	B2.6	B3.5	B8.6	B5.1	B3.0	B2.7	B2.7	B6.1	B2.8	B8.4	B6.2
12	B4.6	B2.7	B3.3	B8.8	B3.9	B2.4	B3.6	B2.3	B5.1	B4.9	B6.2	B6.2
13	B4.5	B2.6	B3.2	B9.1	B3.5	B2.8	B4.9	B4.3	B6.1	B6.5	B6.8	B4.0
14	B4.7	B3.2	B3.2	B9.1	B3.7	B3.5	B2.5	B3.5	B6.5	B4.4	B7.5	B3.2
15	B4.7	B3.0	B2.8	C1.1	---	B3.7	B1.2	B4.5	B5.4	B3.2	B4.8	B4.6
16	B6.7	B2.1	B2.4	B6.9	B3.5	B4.8	B1.8	B7.5	B5.2	B3.9	B5.0	B2.6
17	B9.6	B1.8	B2.8	B5.5	B3.9	B5.2	B2.7	B6.7	B6.1	B3.1	B6.4	B2.0
18	C1.1	B2.2	B2.7	B7.3	B3.9	B3.5	B3.2	B6.6	B6.2	B2.7	B5.4	B2.3
19	C1.2	B5.9	B2.2	B7.1	B6.1	B2.9	B5.1	B6.1	B5.1	B2.1	B2.4	B2.5
20	B9.4	B4.3	B2.2	B9.8	B8.9	B2.5	B3.8	B6.7	B4.8	B1.7	B2.3	B2.6
21	C1.0	B4.0	B2.3	B3.4	B7.4	B2.3	B4.0	B6.2	B4.7	B1.2	B3.6	B3.2
22	B7.3	B3.5	B2.9	B2.2	---	B1.9	B4.5	B8.5	B4.0	B1.1	B3.0	B2.5
23	B6.4	B3.4	B4.9	B2.2	B4.9	B2.0	B4.9	C1.1	B3.3	B1.1	B3.4	B3.0
24	B6.3	B3.3	B5.7	B2.2	B4.8	B1.8	B3.6	B9.6	B3.3	B1.1	B3.2	B1.9
25	B6.0	B2.6	B7.9	B2.0	B2.6	B2.4	B5.9	B7.5	B2.9	B1.5	B3.0	B1.6
26	B4.5	B2.4	B8.0	B1.5	B1.8	B2.0	B7.7	B6.3	B2.4	B2.2	B2.5	B2.0
27	B4.7	B2.6	B5.0	B1.4	B1.0	B2.6	C1.1	B5.5	B2.0	B2.8	B2.2	B1.9
28	B3.9	B2.7	B6.4	B1.2	B1.1	B2.1	B8.6	B4.6	B2.3	B2.1	B2.5	B2.1
29	B3.4	B2.5	B4.1	B2.0	B1.8	B2.1	C1.1	B5.2	B2.8	B1.8		B1.9
30	B3.0	B1.7	B4.3	B2.0	B1.3	B2.0	C1.3	B5.4	B3.8	B2.0		B1.6
31		B1.2		B1.9	B1.2		C1.3		B4.5	B4.2		B1.3

58
Mar 93

MASS EJECTIONS FROM THE SUN--PROXY DATA*

MARCH 1993

Site	Mo	Day	Observed UT			Location		Freq or Wavelength	Kind of Event
			Start	Max	End	RA*	R/Ro		
POTS	Mar	04	[1213.8		1311.9			40-500 MHz	IV, II?, IIIGG, U
SGMR	Mar	04	[1231.0		1239.0				IV
SVTO	Mar	04	[1232.0		1240.0				IV
PALE	Mar	06	[2026.0		2054.0				II
SGMR	Mar	06	[2031.0		2051.0				II
SGMR	Mar	06	[2055.0		2217.0				IV
LEAR	Mar	06	[2238.0		1030.0				IV
SVTO	Mar	07	[0653.0		1008.0				IV
PALE	Mar	07	[2059.0		0233.0				IV
SGMR	Mar	11	[2200.0		2203.0				II
PALE	Mar	11	[2200.0		2206.0				II
KHAR	Mar	12	[0925		0932	266	0.75	H-alpha	S
PALE	Mar	12	[1752.0		1808.0				II
SGMR	Mar	12	[1752.0		1755.0				II
SGMR	Mar	12	[1755.0		1927.0				IV
PALE	Mar	12	[1818.0		1818.00				IV
KHAR	Mar	14	[1134		1156	49	0.64	H-alpha	S
POTS	Mar	19	[0957.5		1025 U			200-500 MHz	IV, P, Z
POTS	Mar	19	[1242.4		1321.0U			40-400 MHz	II?, IIIGG, RS
SGMR	Mar	19	[1247.0		1336.0				IV
SVTO	Mar	19	[1250.0		1326.0				IV
LEAR	Mar	20	[0054.0		0055.0				II
LEAR	Mar	20	[0055.0		0600.0				IV
PALE	Mar	20	[0101.0		0230.0				IV
KHAR	Mar	23	[1010		1029	290	1.00-1.02	H-alpha	S
KHAR	Mar	23	[1018		1043	285	1.00-1.02	H-alpha	S
KHAR	Mar	23	[1022		1033	288	1.00-1.02	H-alpha	S
SGMR	Mar	26	[1405.0		1414.0				II
SVTO	Mar	26	[1406.0		1408.0				II
POTS	Mar	29	[0831.5		0844.5U			40-800 MHz	IV, IIIGG, V
POTS	Mar	29	[1019.2		1046.4			40-700 MHz	II?, IIIGG, RS
POTS	Mar	29	[1251.3		1258.1			80-700 MHz	IV, IIIGG, U, II?

QUALIFIERS ON START, MAX AND END TIMES

E = event began before the tabulated time
U = uncertain time

TYPE OF EVENT

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

REPORTING STATIONS

IZMI = IZMIRAN
KHAR = Kharkov
LEAR = Learmonth
ONDR = Ondrejov
POTS = Potsdam
SGMR = Sagamore Hill
SVTO = San Vito

*Please be advised that this list is made up of proxy data--not actual measurements of coronal mass ejections (CMEs). The list was requested by the IAU Commission 10 in 1979. See page 46 in the July 1987 supplement to Solar-Geophysical Data for more information.

ACTIVE PROMINENCES AND FILAMENTS

59
Mar 93

MARCH 1993

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
01	DSD	0203E	1027	N11	W39	02 26.2		03	9	9	E	LEAR	7433	
01	AFS	1213E	2005	N07	E21	03 3.1		03	9	9	E	RAMY	7435	
01	AFS	1213E	2005	N08	E18	03 2.8		02	9	9	E	RAMY	7435	
01	AFS	1221E	2005	S18	W60	02 25.0		02	8	8	E	RAMY	7432	
01	AFS	1225E	2005	N23	E41	03 4.7		01	9	9	E	RAMY	7438	
01	ADF	1230E	2005	S15	W18	02 28.1	1	04	9	9	E	RAMY	7434	
01	ASR	1510E	2031	S13	E85	03 8.0		02	8	8	E	HOLL		
01	ADF	1515E	2031	S14	W21	02 28.0	1	11	9	9	E	HOLL	7434	
01	SSB	1529		295	W00	03 8.7			0	0	E	HOLL		
01	DSD	1550E	2031	N13	W47	02 26.2		03	9	9	E	HOLL	7432	
01	DSD	1755E	0236	N08	E17	03 3.0		02	9	9	E	PALE	7435	
01	AFS	1755E	0236	N10	E18	03 3.1		03	9	9	E	PALE	7435	
01	DSD	1810E	0236	S12	W20	02 28.2		03	9	9	E	PALE	7434	
01	ASR	1815E	0236	N07	E90	03 8.5		02	7	6	E	PALE	7439	
01	AFS	1945E	2005	N13	W44	02 26.6		02	9	9	E	RAMY	7433	
01	ASR	1945E	2005	S11	W90	02 23.1		04	9	9	E	RAMY	7439	
01	AFS	2315E	1031	N08	E12	03 2.9		02	9	9	E	LEAR	7435	
01	AFS	2315E	1031	N09	E12	03 2.9		01	9	8	E	LEAR	7435	
01	ASR	2318E	0410D	S10	E90	03 8.7		02	9	9	E	LEAR	7439	
02	DSD	0255E	1031	S17	W72	02 24.7		02	9	9	E	LEAR	7432	
02	ADF	0257E	1031	S11	W26	02 28.2	1	05	9	9	E	LEAR	7434	
02	ASR	0530E	1031	S02	E90	03 8.9		02	9	9	E	LEAR		
02	ASR	0736E	1348	S03	E90	03 9.0		01	9	9	E	SVTO		
02	ASR	0736E	1420	S08	E90	03 9.1		01	9	9	E	SVTO	7439	
02	ADF	0800	0900	S10	E21	03 3.9						ATHN		
02	AFS	0828E	1348	N08	E07	03 2.9		03	9	9	E	SVTO	7435	
02	DSD	0828E	1348	N12	W54	02 26.4		02	9	9	E	SVTO	7433	
02	AFS	0828E	1348	N25	E28	03 4.5		02	9	8	E	SVTO	7438	
02	AFS	0828E	1348	S09	E79	03 8.3		01	9	9	E	SVTO	7439	
02	DSD	0828E	1348	S21	E73	03 7.9		02	9	9	E	SVTO	7432	
02	DSF	0920U	2250U	N03	E13	03 3.4	2	25	0	0	E	LEAR		
02	ASR	0930E	1031	S10	E90	03 9.1		04	8	8	E	LEAR		
02	SPY	0936E	0944	S09	E90	03 9.1	1					VALA		
02	BSL	0948	1016	S09	E90	03 9.2	1					VALA		
02	SPY	1026		S09	E90	03 9.2	1					VALA		
02	AFS	1405E	2148	N08	E01	03 2.7		01	9	9	E	RAMY	7435	
02	AFS	1405E	2148	N08	E04	03 2.9		02	9	9	E	RAMY	7435	
02	DSD	1405E	2148	N08	W01	03 2.5		03	9	9	E	RAMY	7435	
02	DSD	1411E	2148	S10	E69	03 7.8		02	9	9	E	RAMY	7439	
02	AFS	1411E	2148	S13	E72	03 8.0		02	9	9	E	RAMY	7439	
02	DSF	1411U	2045U	N03	E16	03 3.8	2	19	0	0	E	RAMY		
02	DSD	1417E	2148	N14	W58	02 26.3		02	9	9	E	RAMY	7433	
02	SSB	1540		295	W09	03 9.8			0	0	E	HOLL		
02	ASR	1649E	2148	S08	E90	03 9.4		02	9	9	E	RAMY	7440	
02	ASR	1758E	0400	S07	E85	03 9.1		02	9	9	E	PALE	7439	
02	DSD	1803E	0401	N02	W22	03 1.1		02	8	5	E	PALE	7433	
02	AFS	1807E	0401	N06	E02	03 2.9		03	9	9	E	PALE	7435	
02	DSD	1810E	0401	N04	E02	03 2.9		03	9	9	E	PALE	7435	
02	LPS	2135E	2148	S06	E81	03 9.0		03	9	9	E	RAMY	7440	
02	LPS	2143E	0030D	S05	E90	03 9.6		04	9	9	E	PALE	7440	
02	DSF	2200U	2201U	N03	E13	03 3.9	2	23	0	0	E	PALE		
02	ASR	2320E	0500D	N16	W90	02 24.2		02	5	6	E	LEAR	7436	
03	BSD	0015E	0600D	S11	E79	03 8.9		05	9	7	E	LEAR	7440	
03	AFS	0232E	1030	N07	W02	03 2.9		11	9	8	E	LEAR	7435	
03	AFS	0235E	1030	S10	E68	03 8.2		03	9	8	E	LEAR	7439	
03	ADF	0550E	1030	S10	W38	02 28.4	1	09	9	9	E	LEAR	7434	
03	AFS	1103E	1315	N07	W06	03 3.0		03	9	9	E	SVTO	7435	
03	AFS	1103E	1315	N08	W08	03 2.9		02	9	9	E	SVTO	7435	
03	AFS	1115E	0000	S03	E77	03 9.2		02	9	9	E	SVTO	7440	
03	ADF	1115E	0000	S05	E83	03 9.7	1	07	9	9	E	SVTO	7440	
03	AFS	1119E	2212	N08	W09	03 2.8		03	9	9	E	RAMY	7435	
03	DSD	1124E	2212	S07	E77	03 9.2		03	9	9	E	RAMY	7440	
03	AFS	1126E	2212	S12	E60	03 8.0		02	9	9	E	RAMY	7439	
03	ADF	1129E	1652D	S15	W44	02 28.1	1	03	9	9	E	RAMY	7343	
03	ADF	1129E	2212	S19	W33	03 1.0	1	04	9	9	E	RAMY		
03	AFS	1149E	1315	S12	W44	02 28.2		02	9	9	E	SVTO	7434	
03	ADF	1149E	1315	S13	W43	02 28.2	1	07	9	9	E	SVTO	7434	
03	AFS	1205E	2212	N07	W05	03 3.1		03	8	8	E	RAMY	7435	

60
Mar 93

ACTIVE PROMINENCES AND FILAMENTS

MARCH 1993

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
03	AFS	1207E	2212	S05	E73	03 9.0		02	9	9	E	RAMY	7440	
03	AFS	1208E	2212	S12	W71	02 26.2		02	9	9	E	RAMY		
03	AFS	1213E	1315	S08	E62	03 8.1		02	9	9	E	SVTO	7439	
03	SSB	1218		294	W20	03 10.7			0	0	E	RAMY		329 W55
03	ASR	1345E	1845D	S07	E87	03 10.1		10	6	8	E	RAMY		
03	SSB	1412		294	W21	03 10.8			0	0	E	HOLL		
03	DSF	1412U	1410U	N21	W06	03 3.1		10	0	0	E	HOLL		
03	AFS	1448E	0056	N09	W10	03 2.9		02	9	9	E	HOLL	7435	
03	DSF	1448E	0056	S09	E77	03 9.4		03	9	9	E	HOLL	7440	
03	ADF	1448E	0056	S11	E66	03 8.6		09	9	9	E	HOLL	7440	
03	DSF	1540E	2212	N14	W63	02 27.0		02	9	9	E	RAMY	7433	
03	DSF	1640E	2212	N10	W74	02 26.2		04	9	9	E	RAMY	7433	
03	AFS	1640E	2212	N11	W72	02 26.4		02	6	6	E	RAMY	7433	
03	DSF	1711E	2212	N09	W14	03 2.7		02	9	9	E	RAMY	7435	
03	DSF	1720E	2212	S10	E55	03 7.8		03	9	9	E	RAMY	7439	
03	DSF	1728E	0420	N06	W08	03 3.1		03	9	9	E	PALE	7435	
03	AFS	1730E	0420	N09	W09	03 3.0		04	9	9	E	PALE	7435	
03	DSF	1738E	0420	S07	E69	03 8.9		04	9	9	E	PALE	7440	
03	DSF	1741E	0420	S10	W43	02 28.5		02	9	9	E	PALE	7434	
03	AFS	1815E	0420	S12	E58	03 8.1		03	8	7	E	PALE	7439	
03	AFS	2000E	0420	S07	E71	03 9.1		04	9	9	E	PALE	7440	
03	AFS	2350E	1027	N10	W13	03 3.0		02	9	9	E	LEAR	7435	
04	DSF	0135E	0420	N11	W13	03 3.1		02	9	9	E	PALE	7435	
04	ADF	0220E	0420	S10	E81	03 10.2	1	06	8	9	E	PALE	7440	
04	BSF	0240E	0420	N10	W74	02 26.6		02	9	9	E	PALE	7433	
04	AFS	0635E	1437	S04	E68	03 9.3		02	9	9	E	SVTO	7440	
04	AFS	0635E	1437	S10	E52	03 8.2		02	9	9	E	SVTO	7439	
04	AFS	0637E	1437	N09	W19	03 2.8		02	9	9	E	SVTO	7435	
04	DSF	1016	1437	N11	W19	03 3.0		03	9	9	E	SVTO	7435	
04	DSF	1122E	2049	S05	E62	03 9.1		01	9	9	E	RAMY	7440	
04	DSF	1122E	2049	S08	E57	03 8.7		01	9	9	E	RAMY	7440	
04	AFS	1133E	2049	S11	E48	03 8.1		01	9	9	E	RAMY	7439	
04	AFS	1138E	2049	N07	W19	03 3.1		02	9	9	E	RAMY	7435	
04	DSF	1139E	2049	N08	W25	03 2.6		02	9	9	E	RAMY	7435	
04	DSF	1220E	2049	S11	W54	02 28.4		02	9	9	E	RAMY	7434	
04	DSF	1243E	2049	N09	E66	03 9.5		02	9	9	E	RAMY	7441	
04	AFS	1318E	1437	N11	E69	03 9.7		03	9	9	E	SVTO		
04	DSF	1408E	0045	N05	E63	03 9.3		04	1	9	E	HOLL		
04	DSF	1411E	1437	S09	E49	03 8.3		02	9	9	E	SVTO	7439	
04	DSF	1441E	2049	S09	E43	03 7.8		03	9	9	E	RAMY	7439	
04	AFS	1451E	0045	N09	W23	03 2.9		03	9	9	E	HOLL	7435	
04	ADF	1451E	0045	S09	E65	03 9.5		12	9	9	E	HOLL	7440	
04	DSF	1451E	0045	S10	E43	03 7.8		04	9	9	E	HOLL	7439	
04	AFS	1451E	0045	S12	E46	03 8.1		02	9	9	E	HOLL	7439	
04	ASR	1532E	2049	N12	W90	02 26.0		01	9	9	E	RAMY	7433	
04	SSB	1533		295	W46	03 12.6			0	0	E	RAMY		
04	AFS	1620E	2049	N08	E66	03 9.6		02	9	9	E	RAMY	7441	
04	AFS	1847E	0045	N13	E28	03 6.9		01	9	9	E	HOLL		
04	ASR	1908	0045	S10	E90	03 11.5		01	9	9	E	HOLL	7437	
04	AFS	2017E	2049	N14	E27	03 6.9		01	6	7	E	RAMY		
04	ADF	2154E	0045	N06	W21	03 3.3		11	9	9	E	HOLL	7435	
04	AFS	2350E	1027	N10	W13	03 4.0		02	9	9	E	LEAR	7435	
05	SSB	0009		269	W15	03 10.2			0	0	E	HOLL		292 W38
05	DSF	0217E	0401	S04	W53	03 1.1		03	9	9	E	PALE	7440	
05	ADF	0217E	0401	S07	W64	02 28.3	1	04	9	9	E	PALE	7440	
05	AFS	0315E	1028	N09	W30	03 2.9		02	9	9	E	LEAR	7435	
05	DSF	0550E	1028	S08	E35	03 7.9		04	9	9	E	LEAR	7439	
05	ADF	0551E	1028	N03	W22	03 3.6	1	09	9	9	E	LEAR	7435	
05	ADF	0552E	1028	S11	E63	03 10.0	1	19	9	9	E	LEAR	7440	
05	AFS	1133E	2216	N08	W34	03 2.9		01	6	7	E	RAMY	7435	
05	AFS	1134E	2216	S11	E35	03 8.1		02	9	9	E	RAMY	7439	
05	DSF	1207E	1600D	N10	W36	03 2.8		01	9	9	E	RAMY	7435	
05	DSF	1207E	1600D	N10	W41	03 2.4		01	9	9	E	RAMY	7435	
05	DSF	1210E	1600D	N06	E51	03 9.3		02	9	9	E	RAMY	7441	
05	DSF	1210E	1600D	N07	E48	03 9.1		02	9	9	E	RAMY	7441	
05	AFS	1214E	2216	N09	E54	03 9.6		02	9	9	E	RAMY	7441	
05	DSF	1231E	2216	S07	E66	03 10.5		03	9	9	E	RAMY	7444	
05	ADF	1249E	2216	S12	E59	03 10.0	1	11	9	9	E	RAMY	7440	

ACTIVE PROMINENCES AND FILAMENTS

61
Mar 93

MARCH 1993

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
05	AFS	1254E	2216	S08	E67	03 10.6		02	9	9	E	RAMY	7444	
05	SSB	1258		290	W42	03 12.9			0	0	E	RAMY		
05	DSD	1405E	0058	S11	E30	03 7.8		03	9	9	E	HOLL	7439	
05	ADF	1410E	2245D	S07	E48	03 9.2	1	13	9	9	E	HOLL	7440	
05	AFS	1411E	0058	S13	E64	03 10.4		02	7	7	E	HOLL		
05	AFS	1416E	0058	N05	E53	03 9.5		02	9	9	E	HOLL	7441	
05	SSB	1420		294	W47	03 13.5			0	0	E	HOLL		
05	DSD	1835E	0353	S04	E42	03 8.9		04	9	9	E	PALE	7440	
05	DSD	1840E	0353	N13	W36	03 3.1		02	9	9	E	PALE	7435	
06	AFS	1205E	2046	S05	E30	03 8.7		02	9	9	E	RAMY	7440	
06	DSD	1205E	2046D	S04	E30	03 8.7		03	9	9	E	RAMY	7440	
06	AFS	1208E	2046	S09	E54	03 10.5		02	9	9	E	RAMY	7444	
06	DSD	1219E	2046	N08	E37	03 9.3		06	9	9	E	RAMY	7441	
06	AFS	1225E	2046	S11	E22	03 8.2		02	9	9	E	RAMY	7439	
06	DSD	1226E	2046	S04	E33	03 9.0		02	9	9	E	RAMY	7440	
06	DSD	1245E	1604D	N12	W48	03 2.9		02	9	9	E	RAMY	7435	
06	SSB	1253		269	W35	03 12.0			0	0	E	RAMY		
06	SSB	1410		239	W06	03 9.5			0	0	E	HOLL		268 W35
06	AFS	1418E	0058	S05	E36	03 9.3		02	9	9	E	HOLL	7440	
06	AFS	1522E	0058	S09	E51	03 10.5		02	9	9	E	HOLL	7444	
06	AFS	1604E	2046	N07	W48	03 3.1		02	9	9	E	RAMY	7435	
06	DSD	1613E	2046	S10	E18	03 8.0		01	9	9	E	RAMY	7439	
06	DSD	1742E	2046	S08	E50	03 10.5		02	9	9	E	RAMY	7444	
06	APR	1808E	0408	S14	W50	03 3.0	1	02	7	7	E	PALE		
06	AFS	1815E	0408	S08	E33	03 9.2		03	9	9	E	PALE	7440	
06	DSD	1837E	0408	N07	E34	03 9.3		03	9	9	E	PALE	7441	
06	DSD	1853E	0058	S08	E50	03 10.5		03	9	9	E	HOLL	7444	
06	AFS	2319E	1025	S07	E47	03 10.5		02	9	9	E	LEAR	7444	
06	ADF	2320E	1025	S03	E24	03 8.8	1	05	9	9	E	LEAR	7440	
06	ADF	2320E	1025	S06	E20	03 8.5	1	06	9	9	E	LEAR	7440	
06	SSB	2321		270	W41	03 12.7			0	0	E	LEAR		
06	AFS	2331E	1026	N08	W42	03 3.8		02	9	9	E	LEAR	7435	
06	DSD	2331E	1026	N09	W48	03 3.4		03	5	5	E	LEAR	7435	
06	DSD	2332E	1026	S09	E25	03 8.8		06	9	9	E	LEAR	7439	
06	AFS	2333E	1026	N11	E47	03 10.5		02	9	9	E	LEAR	7441	
06	AFS	2334E	1026	S07	E61	03 11.5		01	9	9	E	LEAR	7444	
06	AFS	2334E	1026	S09	E61	03 11.6		02	9	9	E	LEAR	7444	
06	ADF	2335E	1026	S11	E53	03 11.0	1	23	9	9	E	LEAR	7440	
07	ADF	0400E	1025	S02	W46	03 3.7	1	20	6	7	E	LEAR	7435	
07	AFS	0639E	1345D	N10	W56	03 3.1		02	9	9	E	SVTO	7435	
07	AFS	0639E	1443	S05	E17	03 8.5		04	9	9	E	SVTO	7440	
07	ADF	0923E	1443	S07	E32	03 9.8	1	09	9	9	E	SVTO	7440	
07	ADF	0942E	1443	S06	E15	03 8.5	1	10	9	9	E	SVTO	7440	
07	DSD	1117E	2159	S08	E12	03 8.4		02	9	9	E	RAMY	7440	
07	ADF	1118E	2159	S10	E30	03 9.7	1	06	9	9	E	RAMY	7440	
07	DSD	1130E	2159	S09	E13	03 8.4		02	9	9	E	RAMY	7440	
07	DSD	1133E	2159	S05	E15	03 8.6		01	9	9	E	RAMY	7440	
07	AFS	1135E	2159	S11	E39	03 10.4		02	9	9	E	RAMY	7444	
07	SSB	1210		241	W19	03 10.6			0	0	E	RAMY		273 W51
07	AFS	1243E	2159	N08	E30	03 9.8		01	9	9	E	RAMY	7441	
07	DSD	1245E	2159	N09	W63	03 2.8		04	9	9	E	RAMY	7435	
07	DSD	1255E	2159	S10	E20	03 9.0		07	9	9	E	RAMY	7440	
07	MDP	1256E	2159	S15	W90	02 28.7		01	9	9	E	RAMY		
07	AFS	1345E	1443	N07	E39	03 10.5		02	9	9	E	SVTO	7444	
07	DSD	1345E	1443	N10	E31	03 9.9		02	9	9	E	SVTO	7441	
07	ADF	1345E	1443	N11	E30	03 9.8	1	07	9	9	E	SVTO	7441	
07	DSD	1345E	1443	S06	E18	03 8.9		04	9	9	E	SVTO	7440	
07	AFS	1345E	1443	S10	E08	03 8.2		02	9	9	E	SVTO	7439	
07	AFS	1606E	2159	S04	E22	03 9.3		01	9	9	E	RAMY	7440	
07	AFS	1619E	2159	S09	E05	03 8.0		02	9	7	E	RAMY	7435	
07	ADF	1620E	0059	S07	E10	03 8.4	1	04	8	8	E	HOLL	7440	
07	SSB	1630		270	W51	03 13.6			0	0	E	HOLL		
07	MDP	1637E	0059	S14	W90	02 28.9	1	01	3	3	E	HOLL		
07	DSD	1726E	2159	N01	E30	03 10.0		02	9	9	E	RAMY		
07	ADF	1945E	0429	S04	W52	03 3.9	1	05	9	9	E	PALE	7435	
07	DSD	1945E	0429	S11	E02	03 8.0		02	7	7	E	PALE	7439	
07	DSD	1946E	0429	S04	E16	03 9.0		02	9	9	E	PALE	7440	
07	DSD	1946E	0429	S07	E08	03 8.4		04	9	9	E	PALE	7440	

62
Mar 93

ACTIVE PROMINENCES AND FILAMENTS

MARCH 1993

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
07	AFS	1946E	0429	S40	E17	03 9.2		02	9	9	E	PALE	7440	
07	ADF	1947E	0429	S16	E30	03 10.1	1	06	9	9	E	PALE	7440	
07	AFS	1950E	0059	N01	E29	03 10.0		01	9	9	E	HOLL		
07	DSD	1950E	0059	S06	E09	03 8.5		06	9	9	E	HOLL	7440	
07	AFS	1955E	0429	N01	E30	03 10.1		01	9	9	E	PALE		
07	AFS	1955E	0429	N07	E30	03 10.1		01	9	9	E	PALE	7441	
07	DSD	1955E	0429	N09	E26	03 9.8		02	9	9	E	PALE	7441	
07	APR	2000E	0429	N21	W90	02 28.9		04	9	9	E	PALE		
07	MDP	2000E	0429	S12	W90	03 1.0	1	02	9	9	E	PALE		
07	SSB	2025		239	W22	03 10.8			0	0	E	PALE		268 W51
07	DSD	2330E	0652D	S05	W12	03 7.1		05	9	9	E	LEAR	7440	
07	AFS	2330E	1020	S04	W03	03 7.7		04	9	9	E	LEAR	7440	
08	AFS	0215E	1020	N08	E21	03 9.7		04	9	9	E	LEAR	7441	
08	AFS	0700E	1505	S01	E17	03 9.6		02	9	9	E	SVTO	7440	
08	DSD	0857E	1505	S05	E03	03 8.6		05	9	9	E	SVTO	7440	
08	AFS	1042E	1505	N09	E16	03 9.6		02	9	9	E	SVTO	7441	
08	ADF	1110	1143	S04	W03	03 8.2	1				E	KHAR		
08	ADF	1118E	1923	N09	E19	03 9.9	1	09	9	9	E	RAMY	7441	
08	AFS	1119E	1923	N09	E14	03 9.5		01	7	7	E	RAMY	7441	
08	ADF	1127E	1923	S07	W01	03 8.4	1	07	9	9	E	RAMY	7440	
08	AFS	1128E	1923	S08	E06	03 8.9		01	9	9	E	RAMY	7440	
08	AFS	1136E	1923	N10	E32	03 10.9		01	9	9	E	RAMY	7446	
08	ASR	1139E	1610D	N10	W90	03 1.7		01	9	9	E	RAMY	7435	
08	SSB	1205		243	W35	03 11.9			0	0	E	RAMY		269 W61
08	AFS	1336E	1923	S22	E34	03 11.2		01	9	9	E	RAMY		
08	AFS	1357E	1505	N02	E19	03 10.0		02	9	9	E	SVTO		
08	AFS	1357E	1505	N11	E32	03 11.0		02	9	9	E	SVTO		
08	AFS	1357E	1505	S21	E35	03 11.3		02	9	9	E	SVTO		
08	ADF	1615E	1923	N05	W76	03 3.0	1	15	9	9	E	RAMY	7435	
08	ADF	1644E	0035	N08	W73	03 3.2	1	15	9	9	E	HOLL	7435	
08	SSB	1645		269	W63	03 14.8			0	0	E	HOLL		
08	AFS	1650E	0035	N10	E30	03 10.9		01	9	9	E	HOLL		
08	AFS	1740E	0415	S10	W12	03 7.8		02	8	8	E	PALE	7439	
08	AFS	1741E	0415	S07	E01	03 8.8		01	8	8	E	PALE	7440	
08	ADF	1741E	0415	S08	E13	03 9.7	1	06	7	7	E	PALE	7440	
08	DSD	1741E	0415	S10	E06	03 9.2		02	8	8	E	PALE	7440	
08	DSD	1742E	0415	N08	E08	03 9.3		01	9	9	E	PALE	7441	
08	ADF	1742E	0415	N08	E13	03 9.7	1	03	8	8	E	PALE	7441	
08	AFS	1742E	0415	N09	E04	03 9.0		02	9	9	E	PALE	7441	
08	SSB	1743		209	W64	03 9.5			0	0	E	PALE		
08	AFS	1743E	0415	N09	E33	03 11.2		01	9	9	E	PALE		
08	DSD	1743E	0415	N10	E30	03 11.0		02	9	9	E	PALE		
08	AFS	1743E	0415	S20	E32	03 11.2		01	9	9	E	PALE		
08	AFS	2340E	1020	S04	E02	03 9.1		04	9	9	E	LEAR	7440	
09	AFS	0910E	1020	S08	E13	03 10.3		02	9	9	E	LEAR	7444	
09	ADF	1058E	2025	S04	W02	03 9.3	1	06	9	9	E	RAMY	7440	
09	AFS	1102E	2025	N08	E02	03 9.6		02	9	9	E	RAMY	7441	
09	AFS	1105E	2025	N10	E20	03 11.0		02	7	7	E	RAMY	7446	
09	DSD	1105E	2025	N10	E22	03 11.1		02	9	9	E	RAMY	7446	
09	DSD	1108E	2025	S08	W20	03 8.0		01	9	9	E	RAMY	7439	
09	AFS	1108E	2025	S10	W18	03 8.1		01	9	9	E	RAMY	7439	
09	AFS	1113E	2025	S09	E12	03 10.4		03	9	9	E	RAMY	7444	
09	SSB	1117		213	W17	03 10.4			0	0	E	RAMY		242 W46 268 W72
09	AFS	1408E	2025	S22	E21	03 11.2		01	9	9	E	RAMY		
09	SSB	1459		211	W17	03 10.5			0	0	E	HOLL		243 W49
09	AFS	1505E	0100	N11	E17	03 10.9		01	9	9	E	HOLL	7446	
09	DSD	1505E	0100	S07	W09	03 8.9		02	9	9	E	HOLL	7440	
09	AFS	1505E	0100	S10	E09	03 10.3		02	9	9	E	HOLL	7444	
09	ASR	1609E	2025	N07	W90	03 2.9		03	9	9	E	RAMY	7435	
09	ASR	1612E	0100	N08	E90	03 16.4		02	9	9	E	HOLL	7435	
09	ADF	1644E	0035	N08	W73	03 4.2	1	15	9	9	E	HOLL	7435	
09	ADF	1846E	0100	S11	W08	03 9.2		06	9	9	E	HOLL	7440	
09	AFS	1852E	0100	N09	W03	03 9.6		01	9	9	E	HOLL	7441	
09	AFS	1901E	0407	S12	W23	03 8.0		03	9	9	E	PALE	7439	
09	ADF	1905E	0407	S07	W08	03 9.2	1	04	9	9	E	PALE	7440	
09	AFS	1907E	0407	S04	W09	03 9.1		02	9	9	E	PALE	7440	
09	AFS	1925E	0407	N15	E20	03 11.3		03	6	7	E	PALE	7446	
09	AFS	1941E	0407	S16	E20	03 11.3		02	7	7	E	PALE		

ACTIVE PROMINENCES AND FILAMENTS

63
Mar 93

MARCH 1993

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
09	DSF	2131U	1914U	S07	E45	03 13.3	2	12	0	0	E	PALE	
09	DSF	2131U	1914U	S15	E59	03 14.4	2	19	0	0	E	PALE	
09	AFS	2340E	1022	S05	W09	03 9.3		02	9	9	E	LEAR 7440	
10	AFS	0658E	1022	N10	E09	03 11.0		03	9	5	E	LEAR 7446	
10	AFS	0741E	1022	S09	W01	03 10.2		02	9	9	E	LEAR 7444	
10	AFS	0746E	1602	S04	W17	03 9.0		03	9	9	E	SVTO 7440	
10	ADF	0750E	1602	S03	W15	03 9.2	1	03	9	9	E	SVTO 7440	
10	ADF	0750E	1602	S10	W22	03 8.7	1	03	9	9	E	SVTO 7440	
10	AFS	0800E	1602	S10	E00	03 10.3		02	9	9	E	SVTO 7444	
10	AFS	0808E	1602	N07	W12	03 9.4		02	9	9	E	SVTO 7441	
10	DSD	0808E	1602	N08	W11	03 9.5		03	9	9	E	SVTO 7441	
10	AFS	1113E	1914	S09	W01	03 10.4		02	9	9	E	RAMY 7444	
10	ASR	1117E	1914	N16	E89	03 17.2		04	9	9	E	RAMY	
10	SSB	1121		213	W30	03 11.5			0	0	E	RAMY	240 W57 270 W87
10	AFS	1150E	1914	N09	W12	03 9.6		01	7	7	E	RAMY 7441	
10	DSD	1151E	1914	S09	E01	03 10.6		04	9	9	E	RAMY 7444	
10	DSD	1153E	1419D	S01	W21	03 8.9		02	9	9	E	RAMY 7440	
10	DSD	1153E	1419D	S03	W23	03 8.8		03	9	9	E	RAMY 7440	
10	AFS	1423E	1602	N11	E06	03 11.0		02	9	9	E	SVTO 7446	
10	DSD	1438E	0045	N08	W16	03 9.4		03	9	9	E	HOLL 7441	
10	AFS	1438E	0045	N11	E07	03 11.1		01	7	7	E	HOLL 7446	
10	ASR	1438E	0045	N14	E90	03 17.4		01	9	9	E	HOLL	
10	DSD	1551E	0045	N08	W73	03 5.2		03	7	7	E	HOLL	
10	AFS	1557E	0045	S07	W04	03 10.4		02	9	9	E	HOLL 7444	
10	SSB	1647		200	W20	03 10.7			0	0	E	HOLL	
10	DSF	1649U	0807U	S38	E41	03 14.0		15	0	0	E	SVTO	
10	AFS	1710E	1914	N10	E05	03 11.1		01	7	7	E	RAMY 7446	
10	AFS	1717E	0423	N13	W04	03 10.4		03	9	9	E	PALE 7440	
10	ADF	1718E	1914	S08	W13	03 9.7	1	06	9	9	E	RAMY 7440	
10	DSD	1719E	0423	N14	W01	03 10.6		03	9	9	E	PALE 7440	
10	AFS	1728E	0423	N04	W07	03 10.2		03	8	8	E	PALE 7441	
10	AFS	1744E	0423	N08	W30	03 8.5		03	7	8	E	PALE 7443	
10	AFS	1759E	0423	S09	W05	03 10.4		03	9	9	E	PALE 7444	
10	AFS	1805E	0423	N11	E04	03 11.0		02	6	6	E	PALE 7446	
10	AFS	1826E	0423	S23	E06	03 11.2		02	6	6	E	PALE	
10	ASR	1834E	0423	N15	E90	03 17.6		04	9	9	E	PALE 7448	
10	SSB	2053		201	W24	03 10.9			0	0	E	PALE	
10	DSF	2300U	0301U	S38	E30	03 13.4	2	30	0	0	E	LEAR	
10	AFS	2342E	1020	S04	W27	03 9.0		02	9	9	E	LEAR 7444	
10	AFS	2342E	1020	S07	W09	03 10.3		02	9	9	E	LEAR 7440	
10	ASR	2345E	1020	N19	E90	03 17.8		05	8	8	E	LEAR 7448	
11	BSD	0309E	0423	S05	W28	03 9.0		02	3	4	E	PALE 7440	
11	DSD	0825E	1612	S11	W36	03 8.6		03	9	9	E	SVTO 7440	
11	AFS	0834E	1612	S08	W14	03 10.3		02	9	9	E	SVTO 7444	
11	ASR	0922E	1612	N18	E81	03 17.5		04	9	9	E	SVTO 7448	
11	DSD	1138E	2002	S06	W38	03 8.6		03	9	9	E	RAMY 7440	
11	AFS	1138E	2002	S07	W11	03 10.7		01	9	9	E	RAMY 7444	
11	DSD	1152E	1612	N08	W31	03 9.2		02	9	9	E	SVTO 7441	
11	AFS	1203E	1612	N07	W25	03 9.6		02	9	9	E	SVTO 7441	
11	AFS	1206E	2002	N15	E69	03 16.7		03	9	9	E	RAMY 7448	
11	DSD	1219E	2002	N09	W06	03 11.1		01	9	9	E	RAMY 7446	
11	DSD	1226E	2002	N09	W31	03 9.2		03	9	9	E	RAMY 7441	
11	SSB	1641		177	W10	03 17.5			0	0	E	RAMY	214 W47
11	DSD	1641E	2002	S01	W52	03 7.8		07	9	9	E	RAMY	
11	BSD	1650E	1850D	N14	E73	03 17.2		15	9	9	E	RAMY 7448	
11	BSD	1655	2236	N12	E70	03 17.0		20	9	9	E	HOLL 7448	
11	AFS	1655E	2236	N13	E70	03 17.0		03	8	8	E	HOLL 7448	
11	APR	1656E	2236	N08	E83	03 17.9	1	05	7	7	E	HOLL 7448	
11	DSD	1735E	2002	S04	W33	03 9.3		03	9	9	E	RAMY 7440	
11	AFS	1810E	2236	S07	W19	03 10.3		01	8	8	E	HOLL 7444	
11	ADF	1810E	2236	S07	W40	03 8.8	1	05	9	9	E	HOLL 7440	
11	ADF	1810E	2236	S11	W24	03 9.9	1	14	9	9	E	HOLL 7440	
11	AFS	1812E	2236	S05	W41	03 8.7		02	9	9	E	HOLL 7440	
11	SSB	1815		213	W48	03 12.8			0	0	E	HOLL	
11	DSD	1910E	2018D	S05	W41	03 8.7		03	9	9	E	HOLL 7440	
11	AFS	2322E	1000	S04	W48	03 8.4		04	9	9	E	LEAR 7440	
11	AFS	2332E	1000	S07	W22	03 10.3		02	9	9	E	LEAR 7444	
11	AFS	2335E	1000	N16	E70	03 17.3		03	7	6	E	LEAR 7448	

64
Mar 93

ACTIVE PROMINENCES AND FILAMENTS

MARCH 1993

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
12	ADF	0700E	1000	S04	W41	03 9.2	1	08	7	7	E	LEAR 7440	
12	DSD	0925	0932	S07	W49	03 8.7	1				E	KHAR	
12	DSD	0925E	1606	N08	W43	03 9.2		02	9	9	E	SVTO 7441	
12	DSD	0925E	1606	N17	E57	03 16.7		01	9	9	E	SVTO 7448	
12	AFS	0925E	1606	N19	E61	03 17.0		02	9	9	E	SVTO 7448	
12	ADF	0925E	1606	N19	E69	03 17.6	1	11	9	9	E	SVTO 7448	
12	AFS	0925E	1606	S05	E53	03 16.3		01	9	9	E	SVTO	
12	DSD	0925E	1606	S08	W44	03 9.1		02	9	9	E	SVTO 7440	
12	DSD	0925E	1606	S08	W49	03 8.7		04	9	9	E	SVTO 7440	
12	DSD	0925E	1606	S09	W28	03 10.3		01	9	9	E	SVTO 7444	
12	AFS	0925E	1606	S13	W57	03 8.1		02	9	9	E	SVTO 7439	
12	AFS	1122E	1821	S06	W52	03 8.6		02	9	9	E	RAMY 7440	
12	ADF	1122E	1821	S08	W37	03 9.7	1	25	9	9	E	RAMY 7440	
12	ADF	1127E	1821	N16	E66	03 17.5	1	11	9	9	E	RAMY 7448	
12	DSD	1129E	1821	N17	E60	03 17.0		03	9	9	E	RAMY 7448	
12	AFS	1130E	1821	N17	E59	03 17.0		02	9	9	E	RAMY 7448	
12	AFS	1133E	1821	N10	W18	03 11.1		02	9	9	E	RAMY 7446	
12	ADF	1135E	1821	N09	W35	03 9.8	1	20	9	9	E	RAMY 7441	
12	SSB	1400		172	W17	03 18.0		0	0	0	E	HOLL	213 W41
12	ADF	1424E	0043	S12	W35	03 10.0	1	17	9	9	E	HOLL 7440	
12	ADF	1439E	0043	N14	E60	03 17.1	1	09	9	9	E	HOLL 7448	
12	AFS	1507E	0043	N11	W48	03 9.0		02	9	9	E	HOLL 7441	
12	SSB	1633		175	W21	03 18.4		0	0	0	E	RAMY	216 W62
12	BSD	1718E	1857D	N00	W50	03 9.0		04	9	8	E	HOLL 7440	
12	BSD	1726E	1821	N01	W50	03 9.0		03	9	9	E	RAMY 7440	
12	ADF	1738E	0330	S05	W44	03 9.4	1	09	9	9	E	PALE 7440	
12	DSD	1755E	0405	S07	W39	03 9.8		02	9	9	E	PALE 7440	
12	LPS	1838E	0003D	S01	W51	03 9.0		07	9	9	E	HOLL 7440	
12	LPS	1852E	2000D	S02	W51	03 9.0		06	9	9	E	PALE 7440	
12	DSD	1942E	0330	N15	E64	03 17.7		05	9	9	E	PALE 7448	
12	AFS	2313E	0834	S06	W57	03 8.7		04	9	9	E	LEAR 7440	
12	DSD	2314E	0120D	S03	W59	03 8.5		05	9	9	E	LEAR 7440	
12	AFS	2316E	0834	N16	E56	03 17.2		03	6	8	E	LEAR 7448	
13	AFS	0015E	0330	N06	W51	03 9.2		02	8	8	E	PALE 7441	
13	ADF	0015E	0330	N10	W56	03 8.8	1	04	8	8	E	PALE 7441	
13	DSD	0015E	0330	N14	E51	03 16.9		03	9	9	E	PALE 7448	
13	AFS	0015E	0330	N19	E48	03 16.7		02	9	9	E	PALE 7448	
13	AFS	0017E	0330	N10	W28	03 10.9		01	8	8	E	PALE 7446	
13	AFS	0017E	0330	S10	W69	03 7.8		02	9	9	E	PALE 7439	
13	SSB	0025		216	W67	03 14.4		0	0	0	E	PALE	
13	ADF	0115E	0834	S10	W41	03 10.0	1	16	9	9	E	LEAR 7440	
13	ADF	0808E	1605	S05	W55	03 9.2	1	08	9	9	E	SVTO 7440	
13	AFS	0812E	1605	S07	W63	03 8.6		02	9	9	E	SVTO 7440	
13	DSD	0812E	1605	S08	W58	03 9.0		04	9	9	E	SVTO 7440	
13	DSD	0832E	1605	N18	E42	03 16.5		03	9	9	E	SVTO 7448	
13	ADF	0832E	1605	N18	E49	03 17.1	1	04	9	9	E	SVTO 7448	
13	AFS	0832E	1605	N19	E47	03 16.9		02	9	9	E	SVTO 7448	
13	AFS	0843E	1605	S09	W42	03 10.2		01	9	9	E	SVTO 7444	
13	DSD	0843E	1605	S09	W46	03 9.9		04	9	9	E	SVTO 7444	
13	DSD	0849E	1605	S10	W67	03 8.3		02	9	9	E	SVTO 7439	
13	ADF	0930	1055	S05	W60	03 8.9	2				E	KHAR	
13	AFS	1109E	2213	S06	W63	03 8.7		02	9	9	E	RAMY 7440	
13	DSD	1110	1135	S03	W68	03 8.4	1				E	KHAR	
13	ADF	1110E	2213	S05	W60	03 9.0	1	19	9	9	E	RAMY 7440	
13	DSD	1114E	2213	S07	W58	03 9.1		03	9	9	E	RAMY 7440	
13	ADF	1115	1200	S04	W58	03 9.1	1				E	KHAR	
13	DSD	1116E	1450D	S09	W66	03 8.5		03	9	9	E	RAMY 7439	
13	SSB	1152		177	W34	03 19.6		0	0	0	E	RAMY	211 W68
13	AFS	1200E	2213	N16	E42	03 16.7		02	9	9	E	RAMY 7448	
13	ADF	1203E	2213	N17	E52	03 17.4	1	08	9	9	E	RAMY 7448	
13	AFS	1210E	2213	S07	W43	03 10.3		01	8	8	E	RAMY 7444	
13	DSD	1430E	2213	N16	E39	03 16.6		04	9	9	E	RAMY 7448	
13	SSB	1450		172	W31	03 19.3		0	0	0	E	HOLL	
13	ADF	1455E	0101	S06	W53	03 9.6		10	9	9	E	HOLL 7440	
13	DSD	1507E	0101	S03	W60	03 9.1		03	9	9	E	HOLL 7440	
13	AFS	1740E	0418	S06	W70	03 8.5		02	9	9	E	PALE 7440	
13	ADF	1740E	0418	S10	W56	03 9.5	1	08	9	9	E	PALE 7440	
13	AFS	1741E	0418	N01	W51	03 9.9		01	8	8	E	PALE 7445	

ACTIVE PROMINENCES AND FILAMENTS

65
Mar 93

MARCH 1993

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
13	ADF	1741E	0418	N12	W69	03 8.5	1	03	9	9	E	PALE	7441	
13	AFS	1741E	0418	N13	W38	03 10.9		02	9	9	E	PALE	7446	
13	ADF	1741E	0418	N17	E46	03 17.2	1	04	9	9	E	PALE	7448	
13	AFS	1741E	0418	S10	W46	03 10.3		01	9	9	E	PALE	7444	
13	SSB	1749		186	W47	03 20.9			0	0	E	PALE		215 W76
14	ADF	0809E	1623D	S05	W69	03 9.2	1	07	9	9	E	SVTO	7440	
14	DSD	0809E	1623D	S08	W72	03 8.9		08	9	9	E	SVTO	7440	
14	AFS	0832E	1623D	N17	E29	03 16.5		02	9	9	E	SVTO	7448	
14	DSD	0832E	1623D	N18	E28	03 16.5		02	9	9	E	SVTO	7448	
14	AFS	0832E	1623D	N18	E42	03 17.5		01	9	9	E	SVTO	7448	
14	ADF	0832E	1623D	N19	E39	03 17.3	1	10	9	9	E	SVTO	7448	
14	DSD	0848E	1623D	N06	W68	03 9.3		02	9	9	E	SVTO	7441	
14	AFS	0854E	1623D	N09	W44	03 11.1		02	9	9	E	SVTO	7446	
14	DSD	0923E	1623D	S08	W60	03 9.9		03	9	9	E	SVTO	7444	
14	DSD	0926E	1623D	S14	W74	03 8.8		01	9	9	E	SVTO	7439	
14	DSD	0927	1623D	N17	E41	03 17.5		04	9	9	E	SVTO	7448	
14	ADF	1050	1155	N13	W80	03 8.4	1					KHAR		
14	AFS	1115E	2042	N15	E28	03 16.6		02	8	8	E	RAMY	7448	
14	DSD	1119E	2042	N16	E33	03 17.0		02	9	9	E	RAMY	7448	
14	ADF	1120	1200	S03	W70	03 9.2	1					KHAR		
14	ADF	1121E	2042	N16	E37	03 17.3	1	08	9	9	E	RAMY	7448	
14	DSD	1125E	2042	N14	W66	03 9.5		04	9	9	E	RAMY	7441	
14	DSD	1134	1200	N20	E31	03 16.8	1					KHAR		
14	ADF	1200E	2042	S12	W60	03 10.0	1	18	9	9	E	RAMY	7440	
14	BSD	1215E	1525D	S06	W79	03 8.6		03	9	9	E	RAMY	7440	
14	ASR	1225E	2042	S16	E90	03 21.3		03	9	9	E	RAMY		
14	BSD	1233E	1525D	S06	W72	03 9.1		03	9	9	E	RAMY	7440	
14	ASR	1306E	1623D	S08	W81	03 8.5		01	9	8	E	SVTO	7440	
14	SSB	1335		177	W48	03 21.0			0	0	E	RAMY		185 W56
14	AFS	1430E	1623D	S10	E04	03 14.9		02	9	9	E	SVTO		
14	DSD	1455	1623D	S04	W79	03 8.7		03	9	9	E	SVTO	7440	
14	AFS	1500E	2042	S10	E04	03 14.9		02	9	9	E	RAMY		
14	AFS	1510	1623D	N17	E28	03 16.7		01	9	9	E	SVTO	7448	
14	ADF	1739E	2042	S24	E76	03 20.6	1	12	9	9	E	RAMY		
14	SSB	2356		177	W55	03 21.6			0	0	E	HOLL		139 W16
15	AFS	0009E	0019	N17	E25	03 16.9		02	9	9	E	HOLL	7448	
15	ADF	0009E	0019	S08	W68	03 9.9	1	14	9	9	E	HOLL	7440	
15	AFS	0009E	0019	S10	W01	03 14.9		02	9	9	E	HOLL		
15	ASR	0044E	0110	S07	W82	03 8.9		06	9	9	E	LEAR	7440	
15	DSD	0045E	0110	N17	E16	03 16.2		04	9	9	E	LEAR	7448	
15	AFS	0045E	0110	N17	E25	03 16.9		04	9	9	E	LEAR	7448	
15	AFS	0613E	1624	N17	E18	03 16.6		02	9	9	E	SVTO	7448	
15	ASR	0613E	1624	S08	W86	03 8.8		02	9	9	E	SVTO	7440	
15	AFS	0701E	1624	S10	W05	03 14.9		02	9	9	E	SVTO	7449	
15	ASR	0930E	1624	N06	W82	03 9.2		02	9	9	E	SVTO	7441	
15	AFS	1031E	1250D	N17	E18	03 16.8		02	9	9	E	SVTO	7448	
15	AFS	1055E	1624	N18	E27	03 17.5		02	9	9	E	SVTO	7448	
15	ADF	1114E	2123	N16	E21	03 17.1	1	03	9	9	E	RAMY	7448	
15	APR	1114E	2123	S03	W88	03 8.9	1	05	9	9	E	RAMY	7440	
15	AFS	1121E	2123	S09	W08	03 14.9		02	8	8	E	RAMY	7449	
15	ASR	1123E	1939D	S15	E90	03 22.3		04	9	0	E	RAMY	7450	
15	ASR	1127E	2123	N07	W82	03 9.3		02	9	9	E	RAMY	7441	
15	APR	1127E	2123	N08	W87	03 8.9	1	02	9	9	E	RAMY	7441	
15	ASR	1352E	0034	N08	W85	03 9.2		04	9	9	E	HOLL	7441	
15	APR	1352E	0034	N11	W85	03 9.2	1	01	9	9	E	HOLL	7441	
15	APR	1355E	0034	S03	W90	03 8.8	1	02	9	9	E	HOLL	7440	
15	SSB	1356		139	W23	03 18.6			0	0	E	HOLL		
15	ASR	1400E	0034	S21	E84	03 22.0		02	9	9	E	HOLL		
15	ASR	1403E	1624	S14	E90	03 22.4		04	9	9	E	SVTO		
15	AFS	1519E	2123	N16	E15	03 16.8		02	9	9	E	RAMY	7448	
15	AFS	1608E	2123	N16	E23	03 17.4		02	9	9	E	RAMY	7448	
15	APR	1653E	1939D	S13	E90	03 22.5	1	04	9	9	E	RAMY	7450	
15	ASR	1705E	0034	S03	W86	03 9.3		03	9	9	E	HOLL	7440	
15	ASR	1801E	0227	S05	W87	03 9.2		03	9	9	E	PALE	7440	
15	DSD	1832E	0227	N13	E19	03 17.2		03	9	9	E	PALE	7448	
15	AFS	1834E	0227	N17	E15	03 16.9		03	9	9	E	PALE	7448	
15	LPS	2153E	0034	S02	W90	03 9.2	1	05	9	9	E	HOLL	7440	
15	LPS	2318E	0227	S04	W90	03 9.2		06	9	9	E	PALE	7440	

66
Mar 93

ACTIVE PROMINENCES AND FILAMENTS

MARCH 1993

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
16	LPS	0030E	0608D	S06	W90	03	9.3		11	9	9	E	LEAR	7440	
16	ASR	0503E	1015	S13	W90	03	9.4		02	5	5	E	LEAR		
16	ASR	0617E	1015	S05	W90	03	9.5		04	8	7	E	LEAR	7440	
16	AFS	0625E	1535	N17	E15	03	17.4		02	9	9	E	SVTO	7448	
16	AFS	0625E	1535	N18	E03	03	16.5		02	9	9	E	SVTO	7448	
16	ASR	0726E	1359D	N06	W89	03	9.6		02	9	9	E	SVTO	7445	
16	ASR	0726E	1359D	S12	E88	03	22.9		02	9	9	E	SVTO	7451	
16	SSB	0812		137	W32	03	19.3			0	0	E	SVTO		
16	APR	0854E	1535	N27	E86	03	23.1		17	9	9	E	SVTO		
16	APR	1020	1042	N14	W90	03	9.6	1					KHAR		
16	APR	1020	1047	S04	W90	03	9.7	1					KHAR		
16	AFS	1044E	1535	S10	W21	03	14.9		02	9	9	E	SVTO	7449	
16	LPS	1057E	1057D	S10	W90	03	9.7	2					VALA		
16	APR	1130	1150	S04	W90	03	9.7	1					KHAR		
16	AFS	1233E	2035	N14	E00	03	16.5		01	9	9	E	RAMY	7448	
16	DSD	1233E	2035	N14	E15	03	17.6		01	9	9	E	RAMY	7448	
16	AFS	1233E	2035	N16	E14	03	17.6		01	9	9	E	RAMY	7448	
16	ASR	1257E	1951D	S03	W90	03	9.8		13	7	4	E	RAMY	7440	
16	APR	1257E	2035	S04	W90	03	9.8	1	04	9	9	E	RAMY	7440	
16	DSD	1307E	2035	S13	E77	03	22.3		01	9	9	E	RAMY		
16	CAP	1410E	0104	S06	W90	03	9.8		02	9	9	E	HOLL	7440	
16	SSB	1412		139	W37	03	19.7			0	0	E	HOLL		
16	BSL	1544E	1655D	S08	W90	03	9.9		18	3	6	E	RAMY	7440	
16	BSL	1545	1700D	S06	W90	03	9.9		15	4	4	E	HOLL	7440	
16	APR	1749E	2035	S16	E90	03	23.6	1	02	7	6	E	RAMY		
16	AFS	1753E	0426	N17	E02	03	16.9		03	9	9	E	PALE	7448	
16	DSD	1759E	0426	N15	E02	03	16.9		02	9	9	E	PALE	7448	
16	MDP	1918E	0426	S90	W07	03	16.1		07	9	9	E	PALE		
16	AFS	1923E	0426	S09	W25	03	14.9		02	7	7	E	PALE	7449	
16	SSB	1930		138	W39	03	19.9			0	0	E	PALE		
16	AFS	1940E	2035	S20	E60	03	21.4		02	8	8	E	RAMY	7450	
16	DSD	1950E	2035	S17	E71	03	22.2		03	9	9	E	RAMY	7451	
16	APR	2238E	2355D	S39	E90	03	24.2	2	20	9	9	E	HOLL		
16	APR	2242E	0104	N26	E90	03	23.9	2	18	9	9	E	HOLL		
16	EPL	2245E	2355D	S39	E90	03	24.2	3	41	9	9	E	HOLL		
17	DSF	0009U	0520U	N15	E15	03	18.1		24	0	0	E	LEAR		
17	DSD	0445E	0940D	N14	W02	03	17.0		03	9	9	E	LEAR	7448	
17	AFS	0448E	1015	S14	E68	03	22.3		02	9	9	E	LEAR	7451	
17	APR	0640	0700	N18	E90	03	24.1						ATHN		
17	ADF	0845E	1015	N12	W06	03	16.9	1	06	9	7	E	LEAR	7448	
17	DSD	1116E	1919	N14	E00	03	17.5		02	9	9	E	RAMY	7448	
17	AFS	1117E	1919	N15	W09	03	16.8		01	9	9	E	RAMY	7448	
17	AFS	1135E	1919	S14	E65	03	22.4		02	9	9	E	RAMY	7452	
17	AFS	1208E	1919	N16	E77	03	23.3		02	9	9	E	RAMY		
17	SSB	1341		136	W47	03	20.6			0	0	E	HOLL		
17	DSD	1356E	1919	S13	E66	03	22.6		04	9	9	E	RAMY	7452	
17	AFS	1400E	0003	N17	E00	03	17.6		02	9	9	E	HOLL	7448	
17	ADF	1400E	0003	N20	E62	03	22.3		14	9	9	E	HOLL		
17	DSD	1400E	0003	S14	E65	03	22.5		03	9	9	E	HOLL	7451	
17	ADF	1400E	0003	S20	E46	03	21.1		09	9	9	E	HOLL	7450	
17	AFS	1400E	1919	N15	E00	03	17.6		01	9	9	E	RAMY	7448	
17	DSD	1753E	0416	N14	W04	03	17.4		02	9	9	E	PALE	7448	
17	ADF	1753E	0416	N17	W05	03	17.4	1	04	9	9	E	PALE	7448	
17	ASR	1902E	1919	S22	E90	03	24.7		02	7	8	E	RAMY		
18	AFS	0148E	1018	N17	W09	03	17.4		02	5	7	E	LEAR	7448	
18	AFS	0150E	1018	S10	E63	03	22.8		03	9	9	E	LEAR	7452	
18	SSB	1016		144	W68	03	22.4			0	0	E	SVTO		
18	AFS	1021E	1625	N15	W27	03	16.4		02	9	9	E	SVTO	7448	
18	AFS	1021E	1625	N17	W14	03	17.4		02	9	9	E	SVTO	7448	
18	AFS	1023E	1625	S11	E56	03	22.6		02	9	9	E	SVTO	7452	
18	AFS	1023E	1625	S14	E53	03	22.4		02	9	9	E	SVTO	7452	
18	DSD	1115E	1656D	N12	W12	03	17.6		02	9	9	E	RAMY	7448	
18	DSD	1115E	1656D	N12	W12	03	17.6		02	9	9	E	RAMY	7448	
18	AFS	1128E	2114	S12	E56	03	22.7		02	9	9	E	RAMY	7452	
18	DSD	1130E	2114	S22	E48	03	22.2		01	9	9	E	RAMY	7451	
18	AFS	1400E	2114	N14	W14	03	17.5		02	9	9	E	RAMY	7448	
18	SSB	1408		142	W66	03	22.4			0	0	E	RAMY		

ACTIVE PROMINENCES AND FILAMENTS

67
Mar 93

MARCH 1993

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
18	ASR	1408E	2114	N12	E90	03	25.4		03	9	9	E	RAMY		
18	ASR	1408E	2114	S18	E90	03	25.4		01	9	9	E	RAMY		
18	ADF	1413E	2114	N07	W25	03	16.7	1	12	9	9	E	RAMY		
18	ASR	1436E	1625						01	8	0	E	SVTO	0001	
18	ADF	1535E	0106	N05	W33	03	16.2	1	08	9	9	E	HOLL		
18	AFS	1536E	0106	S14	E53	03	22.6		02	9	9	E	HOLL	7452	
18	ASR	1542E	0106	N11	E90	03	25.4		01	9	9	E	HOLL		
18	SSB	1550		144	W69	03	22.6		0	0	0	E	HOLL		
18	AFS	1643E	2114	N06	E66	03	23.6		02	9	9	E	RAMY		
18	DSB	1721E	2114	N15	W18	03	17.4		03	9	9	E	RAMY	7448	
18	ADF	1740E	2127	N13	W18	03	17.4	1	04	9	9	E	PALE	7448	
18	DSB	1740E	2127	N15	W16	03	17.5		02	9	9	E	PALE	7448	
18	AFS	1740E	2127	N17	W16	03	17.5		02	9	9	E	PALE	7448	
18	AFS	1741E	2127	N05	E66	03	23.7		02	9	9	E	PALE		
18	DSB	1741E	2127	S14	E53	03	22.7		02	9	9	E	PALE	7452	
18	AFS	1741E	2127	S21	E37	03	21.6		02	8	8	E	PALE	7450	
18	ADF	1741E	2127	S22	E45	03	22.2	1	05	9	9	E	PALE	7451	
18	ASR	1742E	2127	N11	E90	03	25.5		04	9	9	E	PALE		
18	ASR	1742E	2127	S20	E90	03	25.6		02	9	9	E	PALE		
18	SSB	1743		125	W51	03	20.9		0	0	0	E	PALE		145 W71
18	ADF	2222E	0907	N15	W33	03	16.4	1	05	9	9	E	LEAR	7448	
18	AFS	2225E	0907	S14	E49	03	22.6		03	9	9	E	LEAR	7452	
18	AFS	2322E	0907	N15	W18	03	17.6		02	9	9	E	LEAR	7448	
19	ADF	0610E	1630	N16	W27	03	17.2	1	06	9	9	E	SVTO	7448	
19	AFS	0612E	1630	N14	W23	03	17.5		02	9	9	E	SVTO	7448	
19	AFS	0612E	1630	N15	W27	03	17.2		02	9	9	E	SVTO	7448	
19	AFS	0630E	1630	S12	E45	03	22.7		02	9	9	E	SVTO	7452	
19	ADF	0630E	1630	S13	E45	03	22.7	1	04	9	9	E	SVTO	7452	
19	ADF	0713E	1630	S15	E35	03	21.9	1	08	9	9	E	SVTO	7451	
19	APR	0830	1035	N25	W90	03	12.4	1					BUCA		
19	ADF	1105E	0000	N12	W27	03	17.4	1	15	9	9	E	RAMY	7448	
19	AFS	1105E	0000	N14	W32	03	17.0		02	9	9	E	RAMY	7448	
19	AFS	1105E	0000	N16	W24	03	17.6		02	9	9	E	RAMY	7448	
19	ADF	1105E	2028	N12	W27	03	17.4	1	15	9	9	E	RAMY	7448	
19	AFS	1105E	2028	N14	W32	03	17.0		02	9	9	E	RAMY	7448	
19	AFS	1105E	2028	N16	W24	03	17.6		02	9	9	E	RAMY	7448	
19	DSB	1115E	2028	S06	E57	03	23.7		03	9	9	E	RAMY	7453	
19	ADF	1115E	2028	S14	E43	03	22.7	1	05	9	9	E	RAMY	7452	
19	AFS	1117E	2028	S12	E46	03	22.9		01	9	9	E	RAMY	7452	
19	DSB	1148E	1630	S14	E79	03	25.5		03	9	9	E	SVTO		
19	AFS	1218E	1648D	N07	E55	03	23.6		02	9	9	E	RAMY		
19	EPL	1233E	1300D	S17	W90	03	12.7	3	56	9	9	E	RAMY		
19	EPL	1234E	1255D	S15	W90	03	12.7	3	49	9	9	E	SVTO		
19	BSL	1314E	1314D	S14	W90	03	12.7	3					VALA		
19	AFS	1650E	2028	S16	E84	03	26.1		02	8	8	E	RAMY	7454	
19	ADF	1654E	2028	S18	E29	03	21.9	1	07	9	9	E	RAMY	7451	
19	ADF	1657E	2028	S19	E19	03	21.1	1	07	9	9	E	RAMY	7450	
19	ADF	1749E	2028	N17	E33	03	22.2	1	24	9	9	E	RAMY		
19	DSB	1815E	0426	N15	W30	03	17.5		02	9	9	E	PALE	7448	
19	AFS	1815E	0426	N15	W32	03	17.3		02	9	9	E	PALE	7448	
19	ADF	1815E	0426	N17	W37	03	16.9	1	08	9	9	E	PALE	7448	
19	ADF	1817E	0426	S17	E33	03	22.3	1	05	9	9	E	PALE	7451	
19	AFS	1817E	0426	S20	E24	03	21.6		02	8	8	E	PALE	7450	
19	ADF	1820E	0107	N16	W32	03	17.3	1	10	9	9	E	HOLL	7448	
19	AFS	1830E	0426	S07	E55	03	23.9		02	8	8	E	PALE	7453	
19	ADF	1830E	0426	S12	E47	03	23.3	1	09	9	9	E	PALE	7452	
19	DSB	1830E	0426	S13	E40	03	22.8		01	9	9	E	PALE	7452	
19	SSB	1845		117	W57	03	21.3		0	0	0	E	PALE		
20	DSB	0055E	0107	N16	W33	03	17.5		04	9	9	E	HOLL	7448	
20	DSB	0100E	0150D	N14	W36	03	17.3		04	9	9	E	LEAR	7448	
20	AFS	0220E	0838	S11	E34	03	22.6		03	7	5	E	LEAR	7452	
20	AFS	0220E	0838	S15	E69	03	25.3		03	5	5	E	LEAR	7454	
20	AFS	0229E	0838	N06	E46	03	23.5		02	4	6	E	LEAR		
20	AFS	0525E	0838	N17	W36	03	17.5		03	9	9	E	LEAR	7448	
20	ADF	1111E	1929	N17	W53	03	16.4	1	05	9	9	E	RAMY	7448	
20	AFS	1117E	1929	N14	W42	03	17.3		02	9	9	E	RAMY	7448	
20	DSB	1118E	1929	N15	W41	03	17.4		02	9	9	E	RAMY	7448	
20	AFS	1120E	1929	N21	W45	03	17.0		03	6	6	E	RAMY	7448	

68
Mar 93

ACTIVE PROMINENCES AND FILAMENTS

MARCH 1993

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
20	AFS	1132E	1929	S13	E29	03	22.7		02	9	9	E	RAMY	7452	
20	AFS	1158E	1929	N05	E43	03	23.7		02	9	9	E	RAMY		
20	AFS	1224E	1929	N13	E18	03	21.9		02	7	7	E	RAMY		
20	DSD	1400E	2314	N16	W40	03	17.5		03	7	7	E	HOLL	7448	
20	ADF	1400E	2314	S15	E29	03	22.8		07	9	9	E	HOLL	7452	
20	AFS	1530E	1929	S17	E67	03	25.7		02	9	9	E	RAMY	7454	
20	DSD	1533E	1701D	S13	E66	03	25.6		03	9	9	E	RAMY	7454	
20	AFS	1624E	1929	N16	W47	03	17.1		01	9	9	E	RAMY	7448	
20	AFS	1624E	1929	N17	W56	03	16.4		02	9	9	E	RAMY	7448	
20	AFS	1637E	1929	S14	E14	03	21.7		02	8	7	E	RAMY		
20	ADF	1651E	1929	N15	E34	03	23.3	1	04	9	9	E	RAMY		
20	ADF	1659E	1929	N16	E17	03	22.0	1	04	9	9	E	RAMY		
20	DSD	1705E	2318D	N18	W43	03	17.4		02	9	9	E	PALE	7448	
20	DSD	1745E	2314	N04	E40	03	23.7		02	9	9	E	HOLL		
20	APR	1917E	2106D	S16	E90	03	27.6	1	03	9	9	E	RAMY		
20	ASR	1917E	2106D	S21	E90	03	27.7		03	9	9	E	RAMY		
20	DSD	2355E	0510D	N19	W48	03	17.3		02	9	9	E	LEAR	7448	
21	DSD	0515E	0742D	N19	W49	03	17.5		04	9	9	E	LEAR	7448	
21	DSD	0638E	1625	N13	W50	03	17.5		03	9	9	E	SVTO	7448	
21	ADF	0638E	1625	N14	W58	03	16.9	1	02	9	9	E	SVTO	7448	
21	AFS	0638E	1625	N16	W51	03	17.4		03	9	9	E	SVTO	7448	
21	ADF	0638E	1625	N16	W62	03	16.6	1	05	9	9	E	SVTO	7448	
21	DSD	0740E	0952	N15	W49	03	17.6		02	9	9	E	LEAR	7448	
21	DSD	0740E	1625	S11	E14	03	22.4		02	8	8	E	SVTO	7452	
21	ADF	0740E	1625	S14	E19	03	22.7	1	09	9	9	E	SVTO	7452	
21	AFS	0751E	1625	N06	E30	03	23.6		02	9	9	E	SVTO		
21	ADF	0800E	1625	N17	E10	03	22.1	1	06	9	9	E	SVTO		
21	DSF	0808U	2250U	N07	E15	03	22.5	2	21	0	0	E	LEAR		
21	AFS	0822E	1625	N19	W30	03	19.0		02	9	9	E	SVTO		
21	AFS	0835E	0952	N06	E29	03	23.5		01	9	9	E	LEAR		
21	APR	0936	1200	S45	E90	03	28.9	2					VALA		
21	APR	0944E	944D	S25	W90	03	14.4	2					VALA		
21	SPY	1014	1034	S22	E90	03	28.3	1					VALA		
21	AFS	1024E	1625	S16	E00	03	21.4		01	9	9	E	SVTO	7450	
21	ADF	1102E	1948	N20	W52	03	17.5	1	05	9	9	E	RAMY	7448	
21	AFS	1104E	1948	S12	E12	03	22.4		01	8	8	E	RAMY	7452	
21	AFS	1109E	1948	N05	E28	03	23.5		02	9	9	E	RAMY	7456	
21	EPL	1110E	1414D	N07	W90	03	14.7	1	44	9	9	E	RAMY		
21	EPL	1110E	1350D	N06	W90	03	14.7	3	38	9	9	E	SVTO		
21	ADF	1122E	1948	N10	W56	03	17.3	1	11	9	9	E	RAMY		
21	ASR	1208E	1948	N20	W90	03	14.6		05	9	9	E	RAMY		
21	DSD	1345E	1948	N17	W66	03	16.5		02	9	9	E	RAMY	7448	
21	DSD	1536E	1948	N19	W54	03	17.5		05	9	9	E	RAMY	7448	
21	DSF	1707U	1138U	S33	E02	03	21.9	2	28	0	0	E	RAMY		
21	DSD	1803E	2120	N19	W57	03	17.4		02	9	9	E	PALE	7448	
21	ADF	1809E	2120	S15	E11	03	22.6	1	03	9	9	E	PALE	7452	
21	AFS	1827E	2120	S15	E50	03	25.5		03	9	9	E	PALE	7454	
21	DSF	1836	1917	S23	W14	03	20.7	3	21	9	9	E	HOLL		
21	ADF	1836E	2150	S23	W14	03	20.7	1	21	9	9	E	HOLL		
21	SSB	1944		422	W29	03	20.1			0	0	E	HOLL		
22	DSD	0008E	0800D	S11	E04	03	22.3		04	8	8	E	LEAR	7452	
22	AFS	0915E	1014	N09	W18	03	21.0		02	8	8	E	LEAR		
22	DSD	1105E	2204	S11	W03	03	22.2		02	9	9	E	RAMY	7452	
22	DSD	1105E	2204	S15	W08	03	21.8		02	9	9	E	RAMY		
22	DSD	1107E	1843D	N09	W17	03	21.2		02	9	9	E	RAMY	7457	
22	AFS	1107E	1843D	N09	W18	03	21.1		02	9	9	E	RAMY	7457	
22	AFS	1114E	2204	S05	E15	03	23.6		02	5	5	E	RAMY	7456	
22	AFS	1115E	2204	N11	E20	03	24.0		02	7	8	E	RAMY		
22	DSD	1120E	2204	N18	W70	03	17.1		03	9	9	E	RAMY	7448	
22	AFS	1121E	2204	N17	W68	03	17.3		02	9	9	E	RAMY	7448	
22	ADF	1135E	1212D	S12	E01	03	22.5	1	04	9	9	E	RAMY	7452	
22	DSF	1135U	1212U	S12	E01	03	22.5	2	04	0	0	E	RAMY	7452	
22	AFS	1317E	1515	N10	W19	03	21.1		02	9	9	E	SVTO		
22	AFS	1317E	1515	N13	E19	03	24.0		01	9	9	E	SVTO		
22	DSD	1331E	1515	N15	W71	03	17.2		03	9	9	E	SVTO	7448	
22	AFS	1331E	1515	N17	W72	03	17.1		02	9	9	E	SVTO	7448	
22	ADF	1338E	1515	S13	E02	03	22.7	1	06	9	9	E	SVTO	7452	
22	AFS	1340E	1515	N06	E14	03	23.6		02	9	9	E	SVTO	7456	

ACTIVE PROMINENCES AND FILAMENTS

69
Mar 93

MARCH 1993

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
22	DSF	1400U	1339U	N21	E05	03 23.0		08	0	0	E	HOLL		
22	AFS	1648E	0026	S09	W22	03 21.0		02	9	9	E	HOLL	7457	
22	AFS	1649E	0026	S11	W06	03 22.2		02	9	9	E	HOLL	7452	
22	DSO	1702E	2204	N22	W70	03 17.3		02	9	9	E	RAMY	7448	
22	DSO	1920E	0026	S12	W02	03 22.6		02	9	9	E	HOLL	7452	
22	ASR	2220E	2240D	N19	W72	03 17.4		04	4	7	E	HOLL	7448	
22	ASR	2345E	1020	N20	W90	03 16.1		02	6	6	E	LEAR	7448	
22	AFS	2346E	1020	N10	W26	03 21.0		02	8	8	E	LEAR	7457	
22	DSO	2347E	0220D	N15	W73	03 17.5		04	8	8	E	LEAR	7448	
22	AFS	2347E	1020	N15	W78	03 17.1		02	8	8	E	LEAR	7448	
23	AFS	0103E	0425	N10	W28	03 20.9		02	9	9	E	PALE	7457	
23	DSO	0220E	0700D	N22	W76	03 17.2		04	9	9	E	LEAR	7448	
23	LPS	0226E	0425	N21	W87	03 16.4	1	03	9	9	E	PALE	7448	
23	LPS	0237E	0420D	N20	W79	03 17.1		05	7	7	E	LEAR	7448	
23	ASR	0351E	0425	N14	W88	03 16.5	1	03	9	9	E	PALE	7448	
23	BSL	1010	1029	N20	W90	03 16.5	1					KHAR		
23	BSL	1018	1043	N15	W90	03 16.6	1					KHAR		
23	BSL	1022	1033	N18	W90	03 16.6	1					KHAR		
23	ASR	1118E	1615	N15	W90	03 16.6		05	9	9	E	SVTO	7448	
23	DSO	1123E	1615	N13	W80	03 17.4		02	9	9	E	SVTO	7448	
23	AFS	1128E	2120	N10	W33	03 21.0		01	9	9	E	RAMY	7457	
23	ASR	1128E	2120	N15	W88	03 16.8		02	9	9	E	RAMY	7448	
23	AFS	1139E	2120	N05	E01	03 23.6		02	9	9	E	RAMY	7456	
23	ADF	1159E	1615	S10	W17	03 22.2	1	06	9	9	E	SVTO	7452	
23	AFS	1208E	1615	S04	E07	03 24.0		01	9	9	E	SVTO	7453	
23	AFS	1214E	1615	N00	E05	03 23.9		02	9	9	E	SVTO	7456	
23	AFS	1219E	1615	N13	E10	03 24.3		01	9	9	E	SVTO		
23	SSB	1339		421	W51	03 21.8			0	0	E	HOLL		
23	ASR	1407E	0100	N24	W90	03 16.6		05	9	9	E	HOLL	7448	
23	ASR	1523E	2120	N18	W90	03 16.8		04	9	9	E	RAMY	7448	
23	ASR	1740E	0403	N19	W90	03 16.9		04	9	9	E	PALE	7448	
23	ADF	1740E	0403	S18	W28	03 21.6	1	05	7	7	E	PALE	7450	
23	AFS	1742E	0403	S10	W11	03 22.9		02	8	8	E	PALE	7452	
23	DSO	1742E	0403	S15	W16	03 22.5		03	8	8	E	PALE	7452	
23	ADF	1742E	0403	S16	W13	03 22.7	1	06	8	8	E	PALE	7452	
23	AFS	1743E	0403	N08	W03	03 23.5		01	7	7	E	PALE	7456	
23	AFS	1743E	0403	N08	W37	03 21.0		02	8	8	E	PALE	7457	
23	AFS	1743E	0403	N12	E27	03 25.8		01	8	8	E	PALE		
23	AFS	1743E	0403	S12	E11	03 24.6		01	8	8	E	PALE		
23	SSB	1812		398	W31	03 16.0			0	0	E	PALE		424 W57
23	DSO	1822E	0100	N12	W33	03 21.3		03	9	9	E	HOLL	7457	
23	ASR	2320E	0340D	N17	W90	03 17.1		02	7	7	E	LEAR	7448	
23	AFS	2330E	1006	N11	W01	03 23.9		02	5	4	E	LEAR		
24	ASR	0142E	0230D	N16	W90	03 17.2		07	8	9	E	LEAR	7448	
24	AFS	0240E	1006	N10	W42	03 20.9		02	8	6	E	LEAR	7457	
24	AFS	0240E	1006	S11	W24	03 22.3		03	9	9	E	LEAR	7452	
24	ASR	0700E	0725D	N14	W90	03 17.5		03	9	9	E	LEAR	7448	
24	AFS	0740E	0903D	S12	W26	03 22.4		02	9	9	E	SVTO	7452	
24	AFS	0815E	1500	N05	W11	03 23.5		01	8	7	E	SVTO	7456	
24	AFS	0815E	1500	N12	W06	03 23.9		01	9	9	E	SVTO		
24	ADF	0816E	1500	N12	W04	03 24.0		03	9	9	E	SVTO		
24	ADF	0818E	1500	N10	W46	03 20.9		03	9	9	E	SVTO	7457	
24	BSL	0824	0838	N10	W90	03 17.6		16	9	9	E	SVTO	7448	
24	BSL	0825E	0855D	N10	W88	03 17.7		17	9	9	E	LEAR	7448	
24	ASR	0855E	1006	N12	W90	03 17.6		02	9	9	E	LEAR	7448	
24	ADF	0903E	1500	N11	W28	03 22.3		06	9	9	E	SVTO	7452	
24	AFS	0952E	1500	S12	W27	03 22.4		02	9	9	E	SVTO	7452	
24	AFS	1129E	1854	N14	W35	03 21.8		01	7	7	E	RAMY		
24	AFS	1137E	1854	N12	W07	03 23.9		01	7	7	E	RAMY	7459	
24	ASR	1336E	0112	N13	W90	03 17.8		03	9	9	E	HOLL	7448	
24	ADF	1336E	0112	S11	W30	03 22.3		03	9	9	E	HOLL	7452	
24	DSF	1339U	0029U	S20	E07	03 25.1		07	0	0	E	HOLL		
24	SSB	1356		417	W61	03 23.1			0	0	E	HOLL		
24	ADF	1405E	0112	S13	E09	03 25.3	1	07	9	9	E	HOLL	7454	
24	ASR	1415E	1854	N14	W90	03 17.8		03	9	9	E	RAMY		
24	AFS	1416E	1854	S10	W31	03 22.3		02	9	9	E	RAMY	7452	
24	ADF	1617E	1854	N10	E73	03 30.2	1	10	9	9	E	RAMY		
24	AFS	1708E	0112	N13	W10	03 23.9		01	9	9	E	HOLL		

70
Mar 93

ACTIVE PROMINENCES AND FILAMENTS

MARCH 1993

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
24	ADF	1734E	1854	S20	W39	03	21.7	1	05	9	9	E	RAMY	7452	
24	AFS	1850E	0112	S09	W33	03	22.3		02	9	9	E	HOLL	7452	
24	ADF	1850E	0355	S19	W45	03	21.3	1	04	7	7	E	PALE	7450	
24	AFS	1851E	0355	S12	W29	03	22.6		02	9	9	E	PALE	7452	
24	ADF	1851E	0355	S18	W28	03	22.6	1	06	9	9	E	PALE	7452	
24	DSO	1855E	0355	N06	W17	03	23.5		01	9	9	E	PALE	7456	
24	AFS	1855E	0355	N08	W16	03	23.6		01	9	9	E	PALE	7456	
24	AFS	1902E	0355	N01	W47	03	21.3		01	9	9	E	PALE	7457	
24	AFS	1902E	0355	S11	W04	03	24.5		02	9	9	E	PALE	7458	
24	AFS	1910E	0355	N08	W13	03	23.8		02	8	8	E	PALE	7459	
24	DSO	1910E	0355	N08	W13	03	23.8		01	9	9	E	PALE	7459	
24	ADF	1914E	0355	N13	E66	03	29.8	1	13	9	9	E	PALE		
24	ADF	1914E	0355	S22	W13	03	23.8	1	09	8	8	E	PALE		
24	SSB	1915		395	W41	03	17.0			0	0	E	PALE		415 W61
24	BSL	2215	2338D	N10	W90	03	18.2		15	9	9	E	HOLL	7448	
24	ASR	2216E	0226	N12	W90	03	18.1		10	7	7	E	PALE		
24	AFS	2320E	1010	N19	E58	03	29.4		02	5	5	E	LEAR		
24	AFS	2320E	1010	S12	W35	03	22.3		03	8	9	E	LEAR	7452	
24	ASR	2349E	0112	S01	E90	03	31.7		03	9	9	E	HOLL		
25	AFS	0840E	1530	N18	E55	03	29.5		01	9	9	E	SVTO		
25	ASR	0900E	1010	N05	E85	03	31.7		02	9	9	E	LEAR		
25	ASR	0908E	1530	N05	E90	04	1.1		02	9	9	E	SVTO		
25	AFS	1000E	1530	S13	W40	03	22.4		02	8	7	E	SVTO	7452	
25	ADF	1037E	1530	N07	E55	03	29.6	1	10	9	9	E	SVTO		
25	AFS	1041E	1740	N21	E53	03	29.5		02	9	9	E	RAMY	7460	
25	DSO	1042E	1715D	N21	E51	03	29.3		04	9	9	E	RAMY	7460	
25	ADF	1042E	1717D	N10	E63	03	30.2	1	10	9	9	E	RAMY		
25	ADF	1048	1140	N22	E53	03	29.5	1				E	KHAR		
25	ADF	1048E	1740	S21	W48	03	21.8	1	05	9	9	E	RAMY	7451	
25	ADF	1128	1140	N16	E62	03	30.2	1				E	KHAR		
25	AFS	1140E	1740	N11	W59	03	21.0		01	9	9	E	RAMY	7457	
25	AFS	1145E	1740	S12	W40	03	22.5		01	7	7	E	RAMY	7452	
25	ASR	1230E	1740	N04	E86	03	31.9		08	9	9	E	RAMY	7461	
25	AFS	1230E	1740	N11	W60	03	21.0		02	9	9	E	RAMY	7457	
25	AFS	1315E	1740	N20	W08	03	24.9		01	9	9	E	RAMY		
25	ASR	1343	0050	N03	E90	04	1.3		04	9	9	E	HOLL		
25	DSO	1447E	1530	N12	W23	03	23.9		02	9	9	E	SVTO	7459	
25	ADF	1455E	1530	N07	E57	03	29.9	1	06	9	9	E	SVTO		
25	DSO	1455E	1530	S13	W18	03	24.3		02	9	9	E	SVTO	7458	
25	AFS	1700E	0050	N19	W08	03	25.1		02	9	9	E	HOLL		
25	AFS	1710E	1740	N15	W53	03	21.7		02	7	7	E	RAMY		
25	ADF	1715E	1740	N20	E51	03	29.6	1	02	9	9	E	RAMY	7460	
25	AFS	1745E	0248D	N09	W30	03	23.5		01	9	9	E	PALE	7456	
25	AFS	1745E	0410	N10	W23	03	24.0		01	9	9	E	PALE	7459	
25	AFS	1745E	0410	S10	W42	03	22.6		02	9	9	E	PALE	7452	
25	AFS	1745E	0410	S16	W05	03	25.4		01	8	8	E	PALE	7454	
25	ADF	1745E	0410	S19	W61	03	21.1	1	06	8	8	E	PALE	7450	
25	ADF	1745E	0410	S20	W52	03	21.8	1	04	9	9	E	PALE	7451	
25	ASR	1746E	0410	N08	E90	04	1.5		05	9	9	E	PALE	7461	
25	ADF	1746E	0410	N14	E55	03	29.9	1	05	9	9	E	PALE		
25	AFS	1746E	0410	N19	E52	03	29.7		01	8	8	E	PALE	7460	
25	DSO	1746E	0410	N19	W08	03	25.1		02	9	9	E	PALE		
25	SSB	1815		349	W08	03	22.1			0	0	E	PALE		374 W33 387 W46
25	AFS	2315E	0934	S13	W47	03	22.4		03	9	9	E	LEAR	7452	
25	AFS	2316E	0934	S19	W12	03	25.0		03	9	9	E	LEAR	7462	
25	ASR	2317E	0934	N04	E85	04	1.3		07	9	9	E	LEAR	7461	
26	AFS	0220E	0934	N04	E78	03	31.9		04	9	9	E	LEAR	7461	
26	AFS	1120E	2113	S11	W56	03	22.2		02	8	8	E	RAMY	7452	
26	AFS	1122E	2113	N21	E41	03	29.6		01	9	9	E	RAMY	7460	
26	AFS	1130E	2113	N10	E45	03	29.9		02	7	7	E	RAMY		
26	AFS	1141E	2113	N03	E77	04	1.2		02	9	9	E	RAMY	7461	
26	BSL	1405	1413	S12	E90	04	2.4		22	9	9	E	HOLL		
26	BSL	1410E	1428D	S12	E90	04	2.4		28	7	6	E	RAMY		
26	AFS	1550E	0144	N03	E73	04	1.1		04	9	9	E	HOLL	7461	
26	SSB	1550		343	W14	03	23.4			0	0	E	RAMY		
26	ADF	1639E	1814D	N07	E38	03	29.5	1	08	9	9	E	RAMY		
26	ADF	1639E	1814D	N17	E44	03	30.0	1	09	9	9	E	RAMY		
26	ADF	1755E	0345	S15	W57	03	22.4	1	03	9	9	E	PALE	7452	

ACTIVE PROMINENCES AND FILAMENTS

71
Mar 93

MARCH 1993

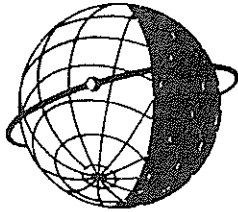
Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
26	ADF	2100E	2113	S15	W60	03 22.3	1	04	9	9	E	RAMY	7452	
26	DSD	2106E	2113	N03	E75	04 1.5		04	9	9	E	RAMY	7461	
26	DSD	2228E	0345	N05	E71	04 1.2		03	9	9	E	PALE	7461	
26	DSD	2330E	1009	N03	E63	03 31.7		02	9	9	E	LEAR	7461	
26	AFS	2340E	1009	S12	W60	03 22.5		01	8	8	E	LEAR	7452	
27	BSL	0719	0809	N23	W90	03 20.4	1					ABST		
27	AFS	0925E	1009	N05	E63	04 1.1		03	9	9	E	LEAR	7461	
27	ASR	0926E	1009	S16	E90	04 3.2		03	9	9	E	LEAR		
27	ADF	1115E	2205	S16	W63	03 22.7	1	08	9	9	E	RAMY	7452	
27	AFS	1116E	2205	S06	W73	03 22.0		02	8	8	E	RAMY	7452	
27	APR	1120E	1653D	S13	E90	04 3.3	1	04	9	9	E	RAMY		
27	DSD	1128E	2205	N05	E68	04 1.6		05	9	9	E	RAMY	7461	
27	ADF	1237E	2205	N17	E32	03 29.9	1	10	9	9	E	RAMY		
27	AFS	1355E	2205	N05	E66	04 1.5		02	9	9	E	RAMY	7461	
27	DSD	1400E	2205	N04	E57	03 31.8		03	9	9	E	RAMY	7461	
27	DSD	1401E	2205	N02	E59	04 1.0		04	9	9	E	RAMY	7461	
27	DSD	1645E	0058	N03	E53	03 31.6		02	9	8	E	HOLL	7461	
27	DSD	1800E	0443	N05	E63	04 1.5		03	9	9	E	PALE	7461	
27	ADF	1807E	0443	S14	W71	03 22.4	1	03	7	5	E	PALE	7452	
27	ASR	1813E	0114D	S12	E90	04 3.5		02	9	9	E	PALE	7463	
27	ADF	1822E	0443	N06	E27	03 29.8	1	03	9	9	E	PALE	7464	
27	ADF	1827E	0443	N19	W36	03 25.0	1	03	5	5	E	PALE	7462	
27	ADF	1830E	0443	N17	W25	03 25.9	1	04	7	6	E	PALE		
27	ADF	1836E	0443	N12	W52	03 23.8	1	02	6	5	E	PALE	7459	
27	SSB	2100		345	W32	03 24.3			0	0	E	HOLL		
28	AFS	0838E	1430	N06	E51	04 1.2		02	9	9	E	SVTO	7461	
28	DSD	0840E	1430	N05	E44	03 31.6		02	9	9	E	SVTO	7461	
28	DSD	1114E	2207	N03	E43	03 31.7		02	9	9	E	RAMY	7461	
28	AFS	1114E	2207	N05	E50	04 1.2		03	9	9	E	RAMY	7461	
28	APR	1119E	2207	N15	W90	03 21.6	1	05	9	9	E	RAMY	7457	
28	APR	1158E	1430	N14	W90	03 21.7		02	5	6	E	SVTO	7457	
28	AFS	1342E	1430	S11	E70	04 2.8		02	9	9	E	SVTO	7463	
28	SSB	1344		316	W12	03 27.4			0	0	E	HOLL		
28	ADF	1501	2207	N12	E67	04 2.7	1	04	9	9	E	RAMY	7463	
28	ASR	1535E	2207	S09	E87	04 4.2		03	9	9	E	RAMY		
28	AFS	1701E	2207	N23	E49	04 1.5		01	9	9	E	RAMY		
28	ADF	1728E	0444	N04	E48	04 1.3	1	06	9	9	E	PALE	7461	
28	AFS	1728E	0444	N05	E47	04 1.2		01	9	9	E	PALE	7461	
28	AFS	1820E	0115	N21	W47	03 25.2		01	4	4	E	HOLL		
28	AFS	1820E	0444	N14	E67	04 2.8		01	8	8	E	PALE		
28	AFS	1829E	0115	N04	E46	04 1.2		02	9	9	E	HOLL	7461	
28	APR	2020E	0444	N17	W90	03 22.0		04	9	9	E	PALE		
28	DSD	2125E	0444	N04	E46	04 1.3		02	9	9	E	PALE	7461	
28	BSL	2130	2149	N18	W90	03 22.0		16	9	9	E	HOLL		
28	AFS	2350E	1010	N06	E44	04 1.3		02	9	9	E	LEAR	7461	
29	AFS	0726E	1400	N06	E38	04 1.1		03	9	9	E	SVTO	7461	
29	AFS	0734E	1400	N24	E40	04 1.4		01	9	9	E	SVTO		
29	ASR	0810E	1010	S04	E90	04 5.1		02	6	6	E	LEAR		
29	AFS	1148E	1758	N06	E36	04 1.2		02	9	9	E	RAMY	7461	
29	DSD	1149E	1758	N04	E38	04 1.3		03	9	9	E	RAMY	7461	
29	AFS	1154E	1400	N10	W45	03 26.1		03	9	9	E	SVTO		
29	AFS	1210E	1758	N11	W44	03 26.2		02	9	9	E	RAMY		
29	AFS	1212E	1758	N23	E38	04 1.4		02	9	9	E	RAMY		
29	CAP	1217E	1543D	S08	E90	04 5.2		01	9	9	E	RAMY	7465	
29	AFS	1224E	1758	S11	E56	04 2.7		02	9	9	E	RAMY	7463	
29	DSD	1556E	1758	N05	E26	03 31.6		03	9	9	E	RAMY	7461	
29	DSD	1642E	1758	S13	E50	04 2.5		03	9	9	E	RAMY	7463	
29	ADF	1645E	1758	N20	E00	03 29.7	1	04	9	9	E	RAMY	7460	
29	DSD	1845E	0107	N04	E31	04 1.1		02	9	9	E	PALE	7461	
29	AFS	1845E	0107	N05	E30	04 1.0		02	9	9	E	PALE	7461	
29	ASR	1920E	0023D	S09	W83	03 23.6		04	4	5	E	HOLL	7452	
29	AFS	2310E	1012	S13	E46	04 2.4		02	4	7	E	LEAR	7463	
30	DSD	0620E	1012	N04	E28	04 1.3		06	9	9	E	LEAR	7461	
30	AFS	0620E	1012	N06	E27	04 1.3		03	9	9	E	LEAR	7461	
30	DSD	0823E	1012	S13	E42	04 2.5		03	9	9	E	LEAR	7463	
30	AFS	1100E	1920	N23	E27	04 1.5		01	7	7	E	RAMY		

72
Mar 93

ACTIVE PROMINENCES AND FILAMENTS

MARCH 1993

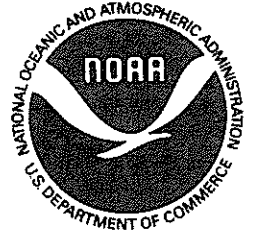
Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
30	DSD	1102E	1920	S13	E37	04 2.2		05	9	9	E	RAMY	7463	
30	DSD	1103E	1920	S12	E42	04 2.6		02	9	9	E	RAMY	7463	
30	AFS	1104E	1920	S13	E45	04 2.8		01	9	9	E	RAMY	7463	
30	DSD	1120E	1556D	N05	E24	04 1.3		02	9	9	E	RAMY	7461	
30	AFS	1121E	1920	N06	E24	04 1.3		01	7	7	E	RAMY	7461	
30	SSB	1126		343	W64	03 26.6			0	0	E	RAMY		
30	AFS	1548E	1920	N04	E23	04 1.4		01	9	9	E	RAMY	7461	
30	DSD	1558E	1920	N08	E24	04 1.5		02	9	9	E	RAMY	7461	
30	ASR	1622E	1920	S09	E90	04 6.4		01	9	9	E	RAMY		
30	DSD	1720E	0115	S15	E35	04 3.4		05	9	9	E	HOLL	7463	
30	SSB	1740		343	W67	03 26.9			0	0	E	HOLL		
30	AFS	1820E	0413	N01	E26	04 1.7		02	9	9	E	PALE	7461	
30	DSD	1820E	0413	N03	E19	04 1.2		01	9	9	E	PALE	7461	
30	DSD	1820E	0413	N03	E22	04 1.4		02	9	9	E	PALE	7461	
30	AFS	1820E	0413	N07	W01	03 30.7		01	8	8	E	PALE	7464	
30	AFS	1820E	0413	N21	W14	03 29.7		01	9	9	E	PALE	7460	
30	DSD	1820E	0413	S12	E35	04 2.4		02	9	9	E	PALE	7463	
30	DSD	1820E	0413	S15	E33	04 2.3		03	9	9	E	PALE	7463	
30	ADF	1828E	0413	S02	E67	04 4.8	1	06	9	9	E	PALE	7465	
30	ADF	1828E	0413	S10	E65	04 4.6	1	05	9	9	E	PALE	7465	
30	AFS	1832E	0413	N22	E24	04 1.6		01	8	8	E	PALE		
30	SSB	1845		344	W69	03 26.8			0	0	E	PALE		
30	DSF	2218U	1714U	N10	E00	03 30.9		10	0	0	E	HOLL		
30	AFS	2345E	0942	N00	E14	04 1.0		02	4	4	E	LEAR	7461	
30	AFS	2345E	0942	S12	E73	04 5.5		03	7	6	E	LEAR	7465	
31	AFS	0235E	0942	S17	E36	04 2.8		03	5	6	E	LEAR	7463	
31	ASR	0445E	0942	S19	E90	04 7.1		07	5	7	E	LEAR		
31	AFS	1115E	2151	N06	E10	04 1.2		02	7	7	E	RAMY	7461	
31	DSD	1120E	2151	N05	E08	04 1.1		03	9	9	E	RAMY	7461	
31	AFS	1125E	2151	N04	E12	04 1.4		01	8	8	E	RAMY	7461	
31	AFS	1130E	2151	N09	W29	03 29.3		02	9	9	E	RAMY	7467	
31	BSD	1243E	1533D	S06	E72	04 5.9		07	9	9	E	SVTO		
31	AFS	1420E	2151	S10	E25	04 2.5		01	9	9	E	RAMY	7463	
31	DSD	1510E	0116	N10	W31	03 29.3		03	9	9	E	HOLL		
31	DSD	1510E	0116	S11	E21	04 2.2		02	9	9	E	HOLL	7463	
31	ADF	1510E	0116	S18	E81	04 6.8		29	9	9	E	HOLL	7465	
31	AFS	1510E	0116	S22	E12	04 1.5		01	9	9	E	HOLL		
31	DSD	1520E	2151	S10	E23	04 2.4		04	9	9	E	RAMY	7463	
31	ADF	1644E	2151	S01	E55	04 4.8	1	14	9	9	E	RAMY	7465	
31	ADF	1644E	2151	S09	E54	04 4.7	1	04	9	9	E	RAMY	7465	
31	AFS	1652E	2151	S22	E11	04 1.5		01	7	7	E	RAMY	7466	
31	DSD	1758E	0417	N05	E06	04 1.2		02	9	9	E	PALE	7461	
31	AFS	1758E	0417	N07	E01	03 31.8		01	9	9	E	PALE	7461	
31	AFS	1758E	0417	N27	W30	03 29.4		01	8	8	E	PALE	7460	
31	ADF	1759E	0417	S08	E52	04 4.6	1	05	9	9	E	PALE	7465	
31	ADF	1759E	0417	S15	E70	04 6.0	1	14	9	9	E	PALE	7465	
31	DSD	1800E	0417	N10	W35	03 29.1		02	9	9	E	PALE		
31	DSD	1800E	0417	S24	E10	04 1.5		01	9	9	E	PALE		
31	SSB	1820		296	W34	04 8.4			0	0	E	PALE		315 W53
31	DSD	2320E	0515D	N04	E02	04 1.1		03	9	9	E	LEAR	7461	
31	AFS	2320E	1005	N05	E04	04 1.3		02	9	9	E	LEAR	7461	
31	AFS	2320E	1005	S12	E24	04 2.8		02	9	9	E	LEAR	7463	
31	DSD	2322E	1005	S11	E18	04 2.3		03	9	9	E	LEAR	7463	



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."